

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
1	Nanoporous gold: a hierarchical and multiscale 3D test pattern for characterizing X-ray nano-tomography systems	Larsson, E.; Gürsoy, D., De Carlo, F.; Lilleodden, E.; Storm, M.; Wilde, F.; Hu, K.; Müller, M.; Greving, I.	Journal of Synchrotron Radiation	26	1	194	204	2018	3,12	10.1107/S1600577518015242	MML / AEM
2	Conversion coating on magnesium alloy sheet (AZ31) by vanillic acid treatment: Preparation, characterization and corrosion behavior	Abatti, Guilherme Pazini; Nunes Pires, Alfredo T.; Spinelli, Almir; Scharnagl, Nico; da Conceicao, Thiago F.	JOURNAL OF ALLOYS AND COMPOUNDS	738		224	232	2018	3,779	10.1016/j.jallcom.2017.12.115	AEM
3	Staking of polymer-metal hybrid structures	Abibe, A.B., Amancio-Filho, S.T	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			249	274	2018	Scopus	10.1002/9781119429807.ch9	AEM
4	The effect of osteoblasts on the surface oxidation processes of biodegradable Mg and Mg-Ag alloys studied by synchrotron IR microspectroscopy	Agha, Nezha Ahmad; Liu, Zhidan; Feyerabend, Frank; Willumeit-Roemer, Regine; Gasharova, Billiana; Heidrich, Stefanie; Mihailova, Boriana	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	91		659	668	2018	5,08	10.1016/j.msec.2018.06.001	AEM / MML
5	Covalently Modified Graphene Oxide and Polymer of Intrinsic Microporosity (PIM-1) in Mixed Matrix Thin-Film Composite Membranes	Aliyev, Elvin M.; Khan, Muntazim Munir; Nabiye, Afig M.; Alosmanov, Rasim M.; Bunyad-zadeh, Irada A.; Shishatskiy, Sergey; Filiz, Volkan	Nanoscale Research Letters	13		339		2018	3,125	10.1186/s11671-018-2771-3	AEM
6	Preface	Amancio-Filho, S.T., Blaga, L.-A.	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			xvii	xxi	2018	Scopus	10.1002/9781119429807	AEM
7	Friction riveting of polymer-metal multmaterial structures	Amancio-Filho, S.T., Goushegir, S.M.	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			203	247	2018	Scopus	10.1002/9781119429807.ch9	AEM
8	Influence of the interlayer film thickness on the mechanical performance of AA2024-T3/CF-PPS hybrid joints produced by friction spot joining	André N.M., Goushegir S.M., dos Santos J.F., Canto L.B., Amancio-Filho S.T.	Welding International	32	1	1	10	2018	Scopus	10.1080/09507116.2017.1347319	AEM
9	Composite surface pre-treatments: Improvement on adhesion mechanisms and mechanical performance of metal-composite friction spot joints with additional film interlayer	Andre, Natalia Manente; Goushegir, Seyed M.; Scharnagl, Nico; dos Santos, Jorge F.; Canto, Leonardo B.; Amancio-Filho, Sergio T.	JOURNAL OF ADHESION	94	9	723	742	2018	1,936	10.1080/00218464.2017.1378101	AEM
10	The effect of residual stresses and strain reversal on the fracture toughness of TiAl alloys	Appel F., Paul J.D.H., Staron P., Oehring M., Kolednik O., Predan J., Fischer F.D.	Materials Science and Engineering A	709		17	29	2018	Scopus	10.1016/j.msea.2017.10.010	AEM / MML
11	High strength nanocrystalline Cu-Co alloys with high tensile ductility	Bachmaier, A., Rathmayr, G.B., Schmauch, J., Schell, N., Stark, A., de Jonge, N., and Pippan, R.	Journal of Materials Research			1	11	2018	1,495	10.1557/jmr.2018.185	MML / AEM
12	Influence of a non-rotating shoulder on heat generation, microstructure and mechanical properties of dissimilar AA2024/AA7050 FSW joints	Barbini, Alessandro; Carstensen, Jan; dos Santos, Jorge F.	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	34	1	119	127	2018	3,609	10.1016/j.jmst.2017.10.017	AEM
13	Influence of Alloys Position, Rolling and Welding Directions on Properties of AA2024/AA7050 Dissimilar Butt Weld Obtained by Friction Stir Welding	Barbini, Alessandro; Carstensen, Jan; dos Santos, Jorge F.	METALS	8	4			2018	1,704	10.3390/met8040202	AEM
14	Generation of 3D representative volume elements for heterogeneous materials: A review	Bargmann, Swantje; Klusemann, Benjamin; Markmann, Juergen; Schnabel, Jan Eike; Schneider, Konrad; Soyarslan, Celal; Wilmers, Jana	PROGRESS IN MATERIALS SCIENCE	96		322	384	2018	23,75	10.1016/j.pmatsci.2018.02.003	AEM
15	An in situ investigation of the deformation mechanisms in a beta-quenched Ti-5Al-5V-5Mo-3Cr alloy	Barriobero-Vila, Pere; Gussone, Joachim; Kelm, Klemens; Haubrich, Jan; Stark, Andreas; Schell, Norbert; Requena, Guillermo	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	717		134	143	2018	3,414	10.1016/j.msea.2018.01.077	MML / AEM
16	Peritectic titanium alloys for 3D printing	Barriobero-Vila, Pere; Gussone, Joachim; Stark, Andreas; Schell, Norbert; Haubrich, Jan; Requena, Guillermo	NATURE COMMUNICATIONS	9				2018	12,353	10.1038/s41467-018-05819-9	AEM / MML
17	New methods for in vivo degradation testing of future stent materials	Bartosch, M.; Peters, H.; Koerner, A.; Schmitt, B.; Berger, F.; Hort, N.; Witte, F.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	69	2	156	166	2018	1,259	10.1002/maco.201709521	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
18	A hydride composite featuring mutual destabilisation and reversible boron exchange: Ca(BH ₄) ₂ -Mg ₂ NiH ₄	Bergemann, N., Pistidda, C., Milanese, C., Aramini, M., Huotari, S., Nolis, P., Santoru, A., Chierotti, M.R., Chaudhary, A.-L., Baro, M.D., Klassen, T., Dornheim, M.	Journal of Materials Chemistry A	6	37	17929	17946	2018	9.931	10.1039/c8ta04748k	AEM
19	Taguchi design and response surface methodology for polymer-metal joining	Blaga, L.-A., Cipriano, G.P., Gonzalez, A.R., Amancio-Filho, S.T.	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			365	388	2018	Scopus	10.1002/9781119429807.ch13	AEM
20	Factorial design of experiments for polymer-metal joining	Blaga, L.-A., Cipriano, G.P., Gonzalez, A.R., Amancio-Filho, S.T.	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			337	364	2018	Scopus	10.1002/9781119429807.ch12	AEM
21	Limit of efficiency of generation of hot electrons in metals and their injection inside a semiconductor using a semiclassical approach	Blandre, E.; Jalias, D.; Petrov, A. Yu; Eich, M.	ACS Photonics	5	9	3613	3620	2018	6,88	10.1021/acsp Photonics.8b00473	AEM
22	Thermal Analysis of Laser Additive Manufacturing of Aluminium Alloys: Experiment and Simulation	Bock, Frederic E.; Froend, Martin; Herrnring, Jan; Enz, Josephin; Kashaev, Nikolai; Klusemann, Benjamin	PROCEEDINGS OF 21ST INTERNATIONAL ESAFORM CONFERENCE ON MATERIAL FORMING (ESAFORM 2018)	1960				2018	0	10.1063/1.5034996	AEM
23	Processing Effects on the Formability of Magnesium Alloy Sheets	Bohlen, Jan; Cano, Guadalupe; Drozdenko, Daria; Dobron, Patrik; Kainer, Karl Ulrich; Gall, Sven; Mueller, Soeren; Letzig, Dietmar	METALS	8	2			2018	1,704	10.3390/met8020147	AEM
24	Influence of rotational speed on the microstructure and mechanical performance of friction-riveted thermosetting composite joints	Borba N.Z., Blaga L., dos Santos J.F., Canto L.B., Amancio-Filho S.D.T.	Welding International	32	1	11	21	2018	Scopus	10.1080/09507116.2017.1347321	AEM
25	Direct-Friction Riveting of polymer composite laminates for aircraft applications	Borba, N. Z.; Blaga, L.; dos Santos, J. F.; Amancio-Filho, S. T.	MATERIALS LETTERS	215		31	34	2018	2,687	10.1016/j.matlet.2017.12.033	AEM
26	Fatigue performance of hybrid overlap friction stir welding and adhesive bonding of an Al-Mg-Cu alloy	Braga, D.F.O., Maciel, R., Bergmann, L., da Silva, L.F.M., Infante, V., dos Santos, J.F., Moreira, P.M.G.P.	Fatigue and Fracture of Engineering Materials and Structures						Scopus	DOI: 10.1111/ffe.12933	AEM
27	Fatigue assessment of refill friction stir spot weld in AA 2024-T3 similar joints	Brzostek, R. C.; Suhuddin, U.; dos Santos, J. F.	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	41	5	1208	1223	2018	2,533	10.1111/ffe.12764	AEM
28	Formation of thin isoporous block copolymer membranes by an upscalable profile roller coating process—a promising way to save block copolymer	Bucher T., Filiz V., Abetz C., Abetz V.	Membranes	8	3	57		2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051660450&doi=10.3390%2fmembranes8030057&partnerID=40&md5=f1b61807c3bf9e995f775bee484e2035	AEM
29	Parameter development and characterization of laser metal deposited Ti alloy powders for use at elevated temperatures	Burkhardt, I., Visone, R., Riekehr, S., Rackel, M.W., Kashaev, N., Enz, J.	Procedia CIRP	74		176	179	2018	Scopus	10.1016/j.procir.2018.08.088	AEM
30	On the influence of solution and ageing treatments on the microstructure of ZK40 alloys modified with Ca Gd Nd and Y additions [Zum Einfluss des Lösungsglühens und Aushärtens auf die Mikrostruktur von ZK40-Legierungen modifiziert durch Zugaben von Ca, GD, Nd und Y]	Buzolin R.H., Mendis C.L., Tolnai D., Kainer K.U., Hort N., Pereira Da Silva E., Cavalcanti Pinto H.	Praktische Metallographie/Practical Metallography	55	5	268	287	2018	3,139/147.1105	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047269209&doi=10.3139%2f147.110518&partnerID=40&md5=076ac1b42a51f6d76f93e87837c63ecc	AEM
31	Corrosion behaviour of as-cast ZK40 with CaO and Y additions	Buzolin, Ricardo Henrique; Mohedano, Marta; Mendis, Chamini Lakshi; Mingo, Beatriz; Tolnai, Domonkos; Blawert, Carsten; Kainer, Karl Ulrich; Pinto, Haroldo; Hort, Norbert	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	28	3	427	439	2018	1,795	10.1016/S1003-6326(18)64676-X	AEM
32	Influence of rotation speed and axial force on the friction stir welding of AISI 410S ferritic stainless steel	Caetano G.D.Q., Silva C.C., Motta M.F., Miranda H.C., Farias J.P., Bergmann L.A., F. dos Santos J.	Journal of Materials Processing Technology	262		430	436	2018	Scopus	10.1016/j.jmatprotec.2018.07.018	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
33	Air-stable metal hydride-polymer composites of Mg(NH ₂) ₂ -LiH and TPX™	Cao H., Georgopoulos P., Capurso G., Pistidda C., Weigelt F., Chaudhary A.-L., Filiz V., Tseng J.-C., Wharmby M.T., Dornheim M., Abetz V., Klassen T.	Materials Today Energy	10		98	107	2018	Scopus	10.1016/j.mtener.2018.08.008	AEM
34	Engineering Solutions in Scale-up and Tank Design for Metal Hydrides	Capurso G., Jepsen J., Bellosta von Colbe J.M., Pistidda C., Metz O., Yigit D., Cao H., Hardian R., Strauch A., Taube K., Klassen T., Dornheim M.	Materials Science Forum	941		2220	2225	2018	Scopus	10.4028/www.scientific.net/MSF.941.2220	AEM
35	Metal Hydride-Based Hydrogen Storage Tank Coupled with an Urban Concept Fuel Cell Vehicle: Off Board Tests	Capurso, Giovanni; Schiavo, Benedetto; Jepsen, Julian; Lozano, Gustavo A.; Metz, Oliver; Klassen, Thomas; Dornheim, Martin	ADVANCED SUSTAINABLE SYSTEMS	2	6			2018	0	10.1002/adsu.201800004	AEM
36	Contraction Twinning Dominated Tensile Deformation and Subsequent Fracture in Extruded Mg-1Mn (Wt Pct) at Ambient Temperature	Chakkedath, A.; Maiti, T.; Bohlen, J.; Yi, S.; Letzig, D.; Eisenlohr, P.; Boehlert, C. J.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	6	2441	2454	2018	1,887	10.1007/s11661-018-4557-8	AEM
37	25th World Forum on Advanced Materials (POLYCHAR-25) Preface	Chan, Chin Han; Abetz, Volker; Mukbaniani, Omari	PURE AND APPLIED CHEMISTRY	90	6	937	938	2018	5,294	10.1515/pac-2018-0403	AEM
38	Formation of self-lubricating PEO coating via in-situ incorporation of PTFE particles	Chen, Yan; Lu, Xiaopeng; Blawert, Carsten; Zheludkevich, Mikhail L.; Zhang, Tao; Wang, Fuhui	SURFACE & COATINGS TECHNOLOGY	337		379	388	2018	2,906	10.1016/j.surfcoat.2018.01.022	AEM
39	Deformation Mechanisms in Metastable Austenitic TRIP/TWIP Steels under Compressive Load Studied by in situ Synchrotron Radiation Diffraction	Christiane Ullrich, Stefan Martin, Christian Schimpf, Andreas Stark, Norbert Schell, David Rafaja	Advanced Engineering Materials (2018) 1801101.					2018	Scopus	10.1002/adem.201801101	AEM / MML
40	Microstructure and mechanical optimization of probeless friction stir spot welded joint of an Al-Li alloy	Chu, Q.; Li, W. Y.; Yang, X. W.; Shen, J. J.; Vairis, A.; Feng, W. Y.; Wang, W. B.	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	34	10	1739	1746	2018	3,609	10.1016/j.jmst.2018.03.009	AEM
41	Fundamentals of force-controlled friction riveting: Part I - joint formation and heat development	Cipriano, G.P., Blaga, L.A., dos Santos, J.F., Vilaça, P., Amancio-Filho, S.T	Materials	11	11				Scopus	10.3390/ma11112294	AEM
42	Fundamentals of force-controlled friction riveting: Part II - Joint global mechanical performance and energy efficiency	Cipriano, G.P., Blaga, L.A., dos Santos, J.F., Vilaça, P., Amancio-Filho, S.T	Materials	11	12				Scopus	10.3390/ma11122489	AEM
43	A simple model for long-time degradation of magnesium under physiological conditions	Dahms, M.; Hoeche, D.; Agha, N. Ahmad; Feyerabend, F.; Willumeit-Roemer, R.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	69	2	191	196	2018	1,259	10.1002/maco.201709461	AEM
44	Effect of Thermomechanical Treatment on Subsequent Deformation Behavior in a Binary Z1 Magnesium Alloy Studied by the Acoustic Emission Technique	Daria Drozdenko, Jan Bohlen, Klaudia Horváth, Sangbong Yi, Dietmar Letzig, Frantisek Chmelik, and Patrik Dobron	Advanced Engineering Materials	20		1800915		2018	2,319	10.1002/adem.201800915	AEM
45	Effect of TiBor on the grain refinement and hot tearing susceptibility of AZ91D magnesium alloy	Davis, T. A.; Bichler, L.; D'Elia, F.; Hort, N.	JOURNAL OF ALLOYS AND COMPOUNDS	759		70	79	2018	3,779	10.1016/j.jallcom.2018.05.129	AEM
46	Investigation of geometrical features on mechanical properties of AA2198 refill friction stir spot welds	de Castro, C.C., Plaine, A.H., Dias, G.P., de Alcântara, N.G., dos Santos, J.	JOURNAL OF MANUFACTURING PROCESSES	36		330	339	2018	Scopus	10.1016/j.jmapro.2018.10.027	AEM
47	Taguchi approach for the optimization of refill friction stir spot welding parameters for AA2198-T8 aluminum alloy	de Castro, C.C., Plaine, A.H., Dias, G.P., de Alcântara, N.G., dos Santos, J.	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	99	5-8	1927	1936	2018	2,601	10.1007/s00170-018-2609-2	AEM
48	Study of the Friction Spot Welding Parameters of AA2198-T8 Thin Sheets	de Castro, C.C., Plaine, de Alcântara, N.G., dos Santos, J.	Soldagem & Inspectao	23	3	393	401	2018	0,244	10.1590/0104-9224/SI2303.08	AEM
49	Novel functionalized polyamides prone to undergo thermal Claisen rearrangement in the solid state	De La Viuda M.R., Tena A., Neumann S., Willruth S., Filiz V., Abetz V.	Polymer Chemistry	9	29	4007	4016	2018	Scopus	10.1039/c8py00467f	AEM
50	Reactive Hydride Composite of Mg ₂ NiH ₄ with Borohydrides Eutectic Mixtures	Dematteis, Erika M.; Vaunois, Silvere; Pistidda, Claudio; Dornheim, Martin; Baricco, Marcello	CRYSTALS	8	2			2018	2,144	10.3390/cryst8020090	AEM
51	Phase stability and hydrogen desorption in a quinary equimolar mixture of light-metals borohydrides	Dematteis, Erika Michela; Santoru, Antonio; Poletti, Marco Gabriele; Pistidda, Claudio; Klassen, Thomas; Dornheim, Martin; Baricco, Marcello	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	43	34	16793	16803	2018	4,229	10.1016/j.ijhydene.2018.05.048	AEM
52	Mg-Ca binary alloys as anodes for primary Mg-air batteries	Deng, Min; Hoeche, Daniel; Lamaka, Sviatlana V.; Snihirova, Darya; Zheludkevich, Mikhail L.	JOURNAL OF POWER SOURCES	396		109	118	2018	6,945	10.1016/j.jpowsour.2018.05.090	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
53	Stabilization of Gold Nanospheres and Nanorods in Diblock Copolymers of Styrene and Vinylpyridine	Derikov, Y.I.; Abetz, C.; Shandryuk, G.A.; Talroze, R. V.; Ezhov, A. A.; Abetz, V.; Kudryavtsev, Y. V.; Osipov, M. A.	Polymer Science, Series C	60	1	78	85	2018	1,400	10.1134/S1811238218010034	AEM
54	Polymeric and Low-Molecular Stabilizers for Au Nanoparticles in a Diblock Copolymer Matrix Y. I.	Derikov, Y. I. Abetz, C.; Karpov, O. N.; Shandryuk, G. A.; Ezhov, A. A.; Kudryavtsev, Y. V.; Abetz, V.	Polymer Science, Series C	60	1	240	250	2018	1,400	10.1134/S1811238218020054	AEM
55	Hot Deformation Behavior and Processing Map of Mg-3Sn-2Ca-0.4Al-0.4Zn Alloy	Dharmendra, Chalasani; Rao, Kamineni Pitcheswara; Suresh, Kalidass; Hort, Norbert	METALS	8	4			2018	1,704	10.3390/met8040216	AEM
56	Magnesium-based metal matrix nanocomposites—processing and properties	Dieringa H., Hort N.	Minerals, Metals and Materials Series	Part F12		679	691	2018	Scopus	10.1007/978-3-319-72526-0_64	AEM
57	Mg alloys: Challenges and achievements in controlling performance, and future application perspectives	Dieringa H., Hort N., Letzig D., Bohlen J., Höche D., Blawert C., Zheludkevich M., Kainer K.U.	Minerals, Metals and Materials Series	Part F7		3	14	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042395913&doi=10.1007%2f978-3-319-72332-7_1&partnerID=40&md5=50d569d47871b6810579b0463e13b876	AEM
58	Processing of Magnesium-Based Metal Matrix Nanocomposites by Ultrasound-Assisted Particle Dispersion: A Review	Dieringa, Hajo	METALS	8	6			2018	1,704	10.3390/met8060431	AEM
59	Thermally rearranged polybenzoxazoles made from poly(ortho-hydroxyamide)s. Characterization and evaluation as gas separation membranes	Diez, Blanca; Cuadrado, Purificacion; Marcos-Fernandez, Angel; de la Campa, Jose G.; Tena, Alberto; Pradanos, Pedro; Palacio, Laura; Lee, Young Moo; Alvarez, Cristina; Lozano, Angel E.; Hernandez, Antonio	REACTIVE & FUNCTIONAL POLYMERS	127		38	47	2018	2,975	10.1016/j.reactfunctpolym.2018.03.013	AEM
60	Effect of the energy input on the microstructure and mechanical behavior of AA2024-T351 joint produced by friction stir welding	do Vale N.L., Torres E.A., Santos T.F.A., Urtiga Filho S.L., dos Santos J.F.	Journal of the Brazilian Society of Mechanical Sciences and Engineering	40	9	467		2018	Scopus	10.1007/s40430-018-1372-5	AEM
61	Thermo-mechanical treatment of extruded Mg-1Zn alloy: Cluster analysis of AE signals	Dobroň P., Drozdenko D., Hegedüs M., Olejňák J., Horváth K., Bohlen J.	Minerals, Metals and Materials Series	Part F7		217	221	2018	Scopus	10.1007/978-3-319-72332-7_34	AEM
62	Compressive yield stress improvement using thermomechanical treatment of extruded Mg-Zn-Ca alloy	Dobron, P.; Drozdenko, D.; Olejnak, J.; Hegedus, M.; Horvath, K.; Vesely, J.; Bohlen, J.; Letzig, D.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	730		401	409	2018	3,414	10.1016/j.msea.2018.06.026	AEM
63	Characterization, optimisation and perspectives of light weight metal hydride materials and systems based thereon for hydrogen storage	Dornheim, Martin	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	255				2018	-		AEM
64	Understanding precipitate evolution during friction stir welding of Al-Zn-Mg-Cu alloy through in-situ measurement coupled with simulation	dos Santos, J. F.; Staron, P.; Fischer, T.; Robson, J. D.; Kostka, A.; Colegrove, P.; Wang, H.; Hilgert, J.; Bergmann, L.; Huetsch, L. L.; Huber, N.; Schreyer, A.	ACTA MATERIALIA	148		163	172	2018	6,036	10.1016/j.actamat.2018.01.020	AEM / MML
65	Residual stresses and fatigue crack growth in friction surfacing coated Ti-6Al-4V sheets	Dovzhenko G., Hanke S., Staron P., Maawad E., Schreyer A., Horstmann M.	Journal of Materials Processing Technology	262		104	110	2018	Scopus	10.1016/j.jmatprotec.2018.06.029	AEM / MML
66	Mechanical properties of thermo-mechanically treated extruded Mg-Zn-based alloys	Drozdenko D., Dobroň P., Olejňák J., Hegedüs M., Horváth K., Bohlen J.	Minerals, Metals and Materials Series	Part F7		259	265	2018	Scopus	10.1007/978-3-319-72332-7_40	AEM
67	Mobility of pinned twin boundaries during mechanical loading of extruded binary Mg-1Zn alloy	Drozdenko, Daria; Dobron, Patrik; Yi, Sangbong; Horvath, Klaudia; Letzig, Dietmar; Bohlen, Jan	MATERIALS CHARACTERIZATION	139		81	88	2018	2,892	10.1016/j.matchar.2018.02.034	AEM
68	Hydroperoxide Traces in Common Cyclic Ethers as Initiators for Controlled RAFT Polymerizations	Eggers, Steffen; Abetz, Volker	MACROMOLECULAR RAPID COMMUNICATIONS	39	7			2018	4,441	10.1002/marc.201700683	AEM
69	Double thermoresponsive block-random copolymers with adjustable phase transition temperatures: From block-like to gradient-like behavior	Eggers, Steffen; Eckert, Tilman; Abetz, Volker	JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY	56	4	399	411	2018	2,588	10.1002/pola.28906	AEM
70	Influence of different Al-Cu substrates on the properties of laser metal deposited Al coatings	Enz, J., Lolos, C., Riekehr, S., Ventszke, V., Kashaev, N.	Procedia CIRP	74		127	130	2018	Scopus	10.1016/j.procir.2018.08.060	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
71	Hot cracking behaviour of an autogenously laser welded Al-Cu-Li alloy	Enz, J.; Carrarin, C.; Riekehr, S.; Ventzke, V.; Kashaev, N.	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	95	01/04	299	310	2018	2,601	10.1007/s00170-017-1197-x	AEM
72	Lattice and phase strain evolution during tensile loading of an intermetallic multi-phase γ -TiAl based alloy	Erdely P., Staron P., Maawad E., Schell N., Clemens H., Mayer S.	Acta Materialia	158		193	205	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050880762&doi=10.1016%2fj.actamat.2018.07.062&partnerID=40&md5=d5e783721a65acb8530e2c04be95f008	MML / AEM
73	Partially pyrolyzed gas-separation membranes made from blends of copolyetherimides and polyimides	Escorial, Lucia; de la Vidua, Monica; Rodriguez, Sara; Tena, Alberto; Marcos, Angel; Palacio, Laura; Pradaños, Pedro;	EUROPEAN POLYMER JOURNAL	103		390	399	2018	3,741	10.1016/j.eurpolymj.2018.04.031	AEM
74	Study of the Effect of Inorganic Particles on the Gas Transport Properties of Glassy Polyimides for Selective CO ₂ and H ₂ O Separation	Escorihuela, Sara; Valero, Lucia; Tena, Alberto; Shishatskiy, Sergey; Escolástico, Sonia; Brinkmann, Torsten; Serra, Jose Manuel	Membranes	8	4	128		2018	Scopus	10.3390/membranes8040128	AEM
75	Gas Separation Properties of Polyimide Thin Films on Ceramic Supports for High Temperature Applications	Escorihuela, Sara; Tena, Alberto; Shishatskiy, Sergey; Escolastico, Sonia; Brinkmann, Torsten; Manuel Serra, Jose; Abetz, Volker	MEMBRANES	8	1			2018	0	10.3390/membranes8010016	AEM
76	AddJoining: A novel additive manufacturing approach for layered metal-polymer hybrid structures	Falck, R.; Goushegir, S. M.; dos Santos, J. F.; Amancio-Filho, S. T.	MATERIALS LETTERS	217		211	214	2018	2,687	10.1016/j.matlet.2018.01.021	AEM
77	Effect of reverse material flow on the microstructure and performance of friction stir welded T-joints of an Al-Mg alloy	Feistauer, E. E.; Bergmann, L. A.; dos Santos, J. F.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	731		454	464	2018	3,414	10.1016/j.msea.2018.06.056	AEM
78	Ultrasonic joining of lightweight alloy/fiber-reinforced polymer hybrid structures	Feistauer, E.E., Amancio-Filho, S.T.	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			307	333	2018	Scopus	DOI: 10.1002/9781119429807.ch11	AEM
79	Determination of thermodynamic and structural quantities of polymers by scattering techniques	Fischer, Birgit; Abetz, Volker	PURE AND APPLIED CHEMISTRY	90	6	955	968	2018	5,294	10.1515/pac-2017-1101	AEM
80	Probabilistic fatigue-life assessment model for laser-welded Ti-6Al-4V butt joints in the high-cycle fatigue regime	Fomin F., Horstmann M., Huber N., Kashaev N.	International Journal of Fatigue	116		22	35	2018	Scopus	10.1016/j.ijfatigue.2018.06.012	AEM
81	Metallurgical aspects of joining commercially pure titanium to Ti-6Al-4V alloy in a T-joint configuration by laser beam welding	Fomin, Fedor; Froend, Martin; Ventzke, Volker; Alvarez, Pedro; Bauer, Stefan; Kashaev, Nikolai	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	97	05/08	2019	2031	2018	2,601	10.1007/s00170-018-1968-z	AEM
82	The Effect of a Grain Boundary Pinning B2 Phase on Polycrystalline Co-Based Superalloys with Reduced Density	Freund, Lisa P.; Stark, Andreas; Kirchmayer, Andreas; Schell, Norbert; Pyczak, Florian; Goeken, Mathias; Neumeier, Steffen	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	9	4070	4078	2018	1,887	10.1007/s11661-018-4757-2	AEM / MML
83	The grain boundary pinning effect of the μ phase in an advanced polycrystalline γ/γ' Co-base superalloy	Freund, Lisa P.; Stark, Andreas; Pyczak, Florian; Schell, Norbert; Goeken, Mathias; Neumeier, Steffen	JOURNAL OF ALLOYS AND COMPOUNDS	753		333	342	2018	3,779	10.1016/j.jallcom.2018.04.204	AEM / MML
84	Microstructure and hardness evolution of laser metal deposited AA5087 wall-structures	Froend, M., Ventzke, V., Riekehr, S., Kashaev, N., Klusemann, B., Enz, J.	Procedia CIRP	74		131	135	2018	Scopus	10.1016/j.procir.2018.08.062	AEM
85	Microstructure and microhardness of wire-based laser metal deposited AA5087 using an Ytterbium fibre laser	Froend, M., Ventzke, V., Riekehr, S., Kashaev, N., Klusemann, B., Enz, J.	Materials Characterization	143		59	67	2018	Scopus	10.1016/j.matchar.2018.05.022	AEM
86	Process development for wire-based laser metal deposition of 5087 aluminium alloy by using fibre laser	Froend, M.; Riekehr, S.; Kashaev, N.; Klusemann, B.; Enz, J.	JOURNAL OF MANUFACTURING PROCESSES	34		721	732	2018	2,809	10.1016/j.jmapro.2018.06.033	AEM
87	Photonic materials for high-temperature applications: Synthesis and characterization by X-ray ptychographic tomography	Furlan, K.P.; Larsson, E.; Diaz, A.; Holler, M.; Krekeler, T.; Ritter, M.; Petrov, A.Y.; Eich, M.; Blick, R.; Schneider, G.A.; Greving, I.; Zierold, R.; Janssen, R.	Applied Materials Today	13		359	369	2018	9,9	10.1016/j.apmt.2018.10.002	AEM / MML
88	Reflection from a free carrier front via an intraband indirect photonic transition (vol 9, 1447, 2018)	Gaafar, Mahmoud A.; Jalas, Dirk; O'Faolain, Liam; Li, Juntao; Krauss, Thomas F.; Petrov, Alexander Yu.; Eich, Manfred	NATURE COMMUNICATIONS	9				2018	12,353	10.1038/s41467-018-05836-8	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
89	Nanostructured Corrosion Sensing Coatings for Aeronautical Applications	Galvão, T. L. P.; Sousa, I.; Wilhelm, M.; Opral, J.; Kukaková, H. V.; Scharnagl, N.; Maia, F.; Gome, J. R. B.; Ferreira, M. G. S.; Tedim, João	NACE - International Corrosion Conference Series			11091		2018	Scopus		AEM
90	Parallelization comparison and optimization of a scale-bridging framework to model Cottrell atmospheres	Ganesan H., Teijeiro C., Sutmann G.	Computational Materials Science	155		439	449	2018	Scopus	10.1016/j.commatsci.2018.08.055	AEM
91	Influence of quasicrystal I-phase on twinning of extruded Mg-Zn-Y alloys under compression	Garces, G.; Medina, J.; Perez, P.; Mathis, K.; Horvath, K.; Stark, A.; Schell, N.; Adeva, P.	ACTA MATERIALIA	151		271	281	2018	6,036	10.1016/j.actamat.2018.03.060	MML / AEM
92	Recent Progress and New Perspectives on Metal Amide and Imide Systems for Solid-State Hydrogen Storage	Garroni, Sebastiano; Santoru, Antonio; Cao, Hujun; Dornheim, Martin; Klassen, Thomas; Milanese, Chiara; Gennari, Fabiana; Pistidda, Claudio	ENERGIES	11	5			2018	2,676	10.3390/en11051027	AEM
93	THE ROLE OF Zn ADDITIONS ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF Mg-Nd-Zn ALLOYS	Gavras, S.; Subroto, T.; Hort, N.; Tolnai, D.; Buzolin, R. H.	INTERNATIONAL JOURNAL OF METALCASTING	12	3	428	433	2018	0,779	10.1007/s40962-017-0174-3	AEM
94	The Effect of Zn Content on the Mechanical Properties of Mg-4Nd-xZn Alloys (x=0, 3, 5 and 8 wt.%)	Gavras, Serge; Buzolin, Ricardo H.; Subroto, Tungky; Stark, Andreas; Tolnai, Domonkos	MATERIALS	11	7			2018	2,467	10.3390/ma11071103	AEM / MML
95	The Effect of Surface Treatments on the Degradation of Biomedical Mg Alloys—A Review Paper	Gawlik, M., Wiese, B., Desharnais, V., Ebel, T., Willumeit-Römer, R.	Materials	11	12	2561		2018	2,467	10.3390/ma11122561	AEM
96	Investigating the impact of sustainability in the production of aeronautical subscale components	Gialos, Anastasios A.; Zeimpekis, Vasileios; Alexopoulos, Nikolaos D.; Kashaev, Nikolai; Riekehr, Stefan; Karanika, Alexandra	JOURNAL OF CLEANER PRODUCTION	176		785	799	2018	5,651	10.1016/j.jclepro.2017.12.151	AEM
97	Enhanced predictive corrosion modeling via randomly distributed boundary conditions	Giessgen, Tom; Mittelbach, Andreas; Hoeche, Daniel; Zheludkevich, Mikhail; Kainer, Karl U.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	69	12	1720	1728	2018	1,259	10.1002/maco.201810299	AEM
98	Influence of Cu/Li Ratio on the Welding Forces and Mechanical Properties of Two Bobbin Tool Friction Stir Welded Al-Cu-Li Alloys	Goebel, J., Reimann, M., dos Santos, J.F.	Journal of Materials Engineering and Performance					2018	Scopus	10.1007/s11665-018-3551-z	AEM
99	Magnesium degradation under physiological conditions – Best practice.	Gonzalez Jorge, Rui Qing Hou, Eshwara P. S. Nidadavolu, Regine Willumeit-Römer, Frank Feyerabend	Bioactive Materials	3	2	174	185	2018	-	10.1016/j.bioactmat.2018.01.003	AEM
100	Elastocapillarity in nanopores: Sorption strain from the actions of surface tension and surface stress	Gor, Gennady Y.; Huber, Patrick; Weissmueller, Joerg	PHYSICAL REVIEW MATERIALS	2	8			2018	0	10.1103/PhysRevMaterials.2.086002	AEM
101	Friction spot joining (FSj)	Goushegir, S.M., Amancio-Filho, S.T.	Joining of Polymer-Metal Hybrid Structures: Principles and Applications			61	99	2018	Scopus	10.1002/9781119429807.ch3	AEM
102	On a novel strain indicator based on uncorrelated misorientation angles for correlating dislocation density to local strength	Guglielmi, Paula O.; Ziehmer, Markus; Lilleodden, Erica T.	ACTA MATERIALIA	150		195	205	2018	6,036	10.1016/j.actamat.2018.03.009	AEM
103	Deformation and recrystallization mechanisms and their influence on the microstructure development of rare earth containing magnesium sheets	Ha C., Yi S., Bohlen J., Zhou X., Brokmeier H.-G., Schell N., Letzig D., Kainer K.U.	Minerals, Metals and Materials Series	Part F7		209	216	2018	Scopus	10.1007/978-3-319-72332-7_33	AEM / MML
104	Morphological Control Over Three- and Four-Phase Superstructures in Blends of Asymmetric ABC and BAC Triblock Terpolymers	Haenelt, Taida Gil ; Abetz, Clarissa; Abetz, Volker	Macromolecular Chemistry and Physics	219	24	1800383		2018	2,492	10.1002/macp.201800383	AEM
105	Four-Phase Morphologies in Blends of ABC and BAC Triblock Terpolymers	Haenelt, Taida Gil; Abetz, Clarissa; Abetz, Volker	MACROMOLECULAR CHEMISTRY AND PHYSICS	219	1			2018	2,492	10.1002/macp.201700241	AEM
106	Influence of cathodic duty cycle on the properties of tungsten containing Al2O3/TiO2 PEO nano-composite coatings	Hakimizad, Amin; Raeissi, Keyvan; Golozar, Mohammad Ali; Lu, Xiaopeng; Blawert, Carsten; Zheludkevich, Mikhail L.	SURFACE & COATINGS TECHNOLOGY	340		210	221	2018	2,906	10.1016/j.surfcoat.2018.02.042	AEM
107	Polymers of intrinsic microporosity postmodified by vinyl groups for membrane applications	Halder, Halder; Neumann, Silvio; Bengtson, Gisela; Khan, Muntazim Munir; Filiz, Volkan; Abetz, Volker	MACROMOLECULES	51	18	7309	7319	2018	5,914	10.1021/acs.macromol.8b01252	AEM
108	Investigation of gas transport and other physical properties in relation to the bromination degree of polymers of intrinsic microporosity	Halder, Karabi ; Georgopoulos, Prokopios; Shishatskiy, Sergey; Filiz, Volkan; Abetz, Volker	J. Polym. Sci. Part A: Polym. Chem.	56	24	2752	2761	2018	2,499	10.1002/pola.29262	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
109	Catalytically active (Pd) nanoparticles supported by electrospun PIM-1: Influence of the sorption capacity of the polymer tested in the reduction of some aromatic nitro compounds	Halder, Karabi; Bengtson, Gisela; Filiz, Volkan; Abetz, Volker	APPLIED CATALYSIS A-GENERAL	555		178	188	2018	4,521	10.1016/j.apcata.2018.02.004	AEM
110	A method for the in-situ study of solid-state joining techniques using synchrotron radiation - observation of phase transformations in Ti-6Al-4V after friction surfacing	Hanke, S.; Staron, P.; Fischer, T.; Fitseva, V.; dos Santos, J. F.	SURFACE & COATINGS TECHNOLOGY	335		355	367	2018	2,906	10.1016/j.surfcoat.2017.12.049	AEM / MML
111	Microstructural features of dynamic recrystallization in alloy 625 friction surfacing coatings	Hanke, Stefanie; Sena, Ian; Coelho, Rodrigo S.; dos Santos, Jorge F.	MATERIALS AND MANUFACTURING PROCESSES	33	3	270	276	2018	2,669	10.1080/10426914.2017.1291947	AEM
112	Waste Mg-Al based alloys for hydrogen storage	Hardian, R.; Pistidda, C.; Chaudhary, A-L.; Capurso, G.; Gizer, G.; Cao, H.; Milanese, C.; Girella, A.; Santoru, A.; Yigit, D.; Dieringa, H.; Kainer, K. U.; Klassen, T.; Dornheim, M.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	43	34	16738	16748	2018	4,229	10.1016/j.ijhydene.2017.12.014	AEM
113	Dislocation dipole-induced strengthening in intermetallic TiAl	He Y., Liu Z., Zhou G., Wang H., Bai C., Rodney D., Appel F., Xu D., Yang R.	Scripta Materialia	143		98	102	2018	Scopus	10.1016/j.scriptamat.2017.09.010	AEM
114	Elemental Segregation and O-Phase Formation in a Gamma-TiAl Alloy	Heike Gabrisch, Tobias Krekeler, Uwe Lorenz, Marcus Willi Rackel, Martin Ritter, Florian Pyczak, Andreas Stark	Materials Science Forum	941		741	746	2018	-	10.4028/www.scientific.net/MSF.941.741	AEM / MML
115	Multiscale process simulation of residual stress fields of laser beam welded precipitation hardened AA6082	Herrnring, J., Staron, P., Kashaev, N., Klusemann, B.	Materialia	3		243	255	2018	Scopus	10.1016/j.mtla.2018.08.010	AEM / MML
116	Influence of alloying elements in fatigue properties of α/β titanium alloys	Hidalgo A.A., Limberg W., Ebel T., Frykholm R., Carreño-Morelli E., Pyczak F.	Key Engineering Materials	770 KEM		80	86	2018	Scopus	10.4028/www.scientific.net/KEM.770.80	AEM
117	Performance boost for primary magnesium cells using iron complexing agents as electrolyte additives	Hoeche, Daniel; Lamaka, Sviatlana V.; Vaghefinazari, Bahram; Braun, Tobias; Petrauskas, Rokas P.; Fichtner, Maximilian; Zheludkevich, Mikhail L.	SCIENTIFIC REPORTS	8	1			2018	4,122	10.1038/s41598-018-25789-8	AEM
118	Postfunctionalization of nanoporous block copolymer membranes via Click reaction on polydopamine for liquid phase separation	Höhme, Christian; Filiz, Volkan; Abetz, Clarissa; Georgopoulos, Prokopios; Scharnagl, Nico; Abetz, Volker	ACS Appl. Nano Materials	1	7	3124	3136	2018	0	10.1021/acsnm.8b00289	AEM
119	Magnesium pistons in engines: Fiction or fact?	Hort N., Dieringa H., Kainer K.U.	Minerals, Metals and Materials Series	Part F7		349	353	2018	Scopus	10.1007/978-3-319-72332-7_53	AEM
120	Adsorption of proteins on degradable magnesium - which factors are relevant?	Hou Ruiqing, Regine Willumeit-Römer, Vasil M. Garamus, Marion Frant, Joachim Koll, Frank Feyerabend	ACS Applied Materials and Interfaces	10	49	42175	42185	2018	8.097	10.1021/acsnami.8b17507	AEM
121	Exploring the effects of organic molecules on the degradation of magnesium under cell culture conditions	Hou, Rui-Qing; Scharnagl, Nico; Feyerabend, Frank; Willumeit-Roemer, Regine	CORROSION SCIENCE	132		35	45	2018	4,862	10.1016/j.corsci.2017.12.023	AEM
122	Coupling effects of deformation and thermal exposure on the precipitation behaviors of beta(o)(omega) phases in a high Nb-containing TiAl alloy	Hu, Xingguo; Li, Jinshan; Song, Lin; Zhang, Tiebang	MATERIALS & DESIGN	148		135	144	2018	4,525	10.1016/j.matdes.2018.03.067	AEM
123	Strengthening and ductilizing of magnesium alloying with heavy rare earth elements	Huang, Y.; Xu, Y.; You, S.; Gan, W.; Kainer, K.U.; Hort, N.	MATEC Web of Conferences	188		Article number 03021		2018	Scopus	10.1051/mateconf/201818803021	AEM / MML
124	Connections Between Topology and Macroscopic Mechanical Properties of Three-Dimensional Open-Pore Materials	Huber, N.	Frontiers in Materials	5				2018	2,008	10.3389/fmats.2018.00069	AEM
125	Unraveling Recrystallization Mechanisms Governing Texture Development from Rare-Earth Element Additions to Magnesium	Imandoust, Aidin; Barrett, Christopher D.; Al-Samman, Talal; Tschopp, Mark A.; Essadiqi, Elhachmi; Hort, Norbert; El Kadiri, Haitham	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	5	1809	1829	2018	1,887	10.1007/s11661-018-4520-8	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
126	Profile Shape Effect on the Texture and Mechanical Properties of Extruded Rare Earth Containing Magnesium Alloys	J. Bohlen; G. Cano, G. Kurz, K.U. Kainer, D. Letzig, D. Drozdenko, F. Chmelik and P. Dobron	Acta Physica Polonica A	134	3	714	719	2018	0,857	10.12693/APhysPolA.134.714	AEM
127	Emission enhancement in dielectric nanocomposites	Jalas, D.; Schulz, K. Marvin; Petrov, A. Yu.; Eich, M.	OPTICS EXPRESS	26	13	16352	16364	2018	3,356	10.1364/OE.26.016352	AEM
128	Fundamental Material Properties of the 2LiBH(4)-MgH2 Reactive Hydride Composite for Hydrogen Storage: (I) Thermodynamic and Heat Transfer Properties	Jepsen, Julian; Milanese, Chiara; Puzkiel, Julian; Girella, Alessandro; Schiavo, Benedetto; Lozano, Gustavo A.; Capurso, Giovanni; von Colbe, Jose M. Bellosta; Marini, Amedeo; Kabelac, Stephan; Dornheim, Martin; Klassen, Thomas	ENERGIES	11	5	1081		2018	2,676	10.3390/en11051081	AEM
129	Fundamental Material Properties of the 2LiBH(4)-MgH2 Reactive Hydride Composite for Hydrogen Storage: (II) Kinetic Properties	Jepsen, Julian; Milanese, Chiara; Puzkiel, Julian; Girella, Alessandro; Schiavo, Benedetto; Lozano, Gustavo A.; Capurso, Giovanni; von Colbe, Jose M. Bellosta; Marini, Amedeo; Kabelac, Stephan; Dornheim, Martin; Klassen, Thomas	ENERGIES	11	5	1170		2018	2,676	10.3390/en11051170	AEM
130	In vitro degradation behavior of Mg scaffolds with three-dimensional interconnected porous structures for bone tissue engineering	Jia Gaozhi, Chen Chenxin, Zhang Jian, Wang Yinchuan, Yue Rui, Luthringer - Feyerabend Bérengère J.C., Willumeit-Roemer Regine, Zhang Hua, Xiong Meiping, Huang Hua, Yuan Guangyin, Feyerabend Frank	Corrosion Science	144		301	312	2018	5,15	10.1016/j.corsci.2018.09.001	AEM
131	Mechanical response of nanoporous metals: A story of size, surface stress, and severed struts	Jin, Hai-Jun; Weissmueller, Joerg; Farkas, Diana	MRS BULLETIN	43	1	35	42	2018	4,788	10.1557/mrs.2017.302	AEM
132	Self-Alignment of Cylinder-Forming Silicon-Containing Block Copolymer Films	Kai-Yuan Lu, Hsiao-Fang Wang, Jheng-Wei Lin, Wei-Tsung Chuang, Prokopios Georgopoulos, Apostolos Avgeropoulos, An-Chang Shi, and Rong-Ming Ho	MACROMOLECULES	51	19	7656	7665		5,914	10.1021/acs.macromol.8b01643	AEM
133	Review on Hot Working Behavior and Strength of Calcium-Containing Magnesium Alloys	Kamineni Pitcheswara Rao, Yellapragada Venkata Rama Krishna Prasad, Chalasani Dharmendra, Kalidass Suresh, Norbert Hort, Hajo Dieringa	ADVANCED ENGINEERING MATERIALS	20	9	1701102		2018	2,319	10.1002/adem.201701102	AEM
134	Electrochemical surface engineering of magnesium metal by plasma electrolytic oxidation and calcium phosphate deposition: Biocompatibility and: In vitro degradation studies	Kannan, M.B.; Walter, R.; Yamamoto, A.; Khakbaz, H.; Blawert, C.	RSC Advances	8	51	29189	29200	2018	Scopus	10.1039/c8ra05278f	AEM
135	In Situ Formation of TiB2 Nanoparticles for Enhanced Dehydrogenation/Hydrogenation Reaction Kinetics of LiBH4-MgH2 as a Reversible Solid-State Hydrogen Storage Composite System	Karimi, Fahim; Riglos, Maria V. C.; Santoru, Antonio; Hoell, Armin; Raghuvanshi, Vikram S.; Milanese, Chiara; Bergemann, Nils; Pistidda, Claudio; Nolis, Pau; Baro, Maria D.; Gizer, Goekhan; Thi-Thu Le; Pranzas, P. Klaus; Dornheim, Martin; Klassen, Thomas; Schreyer, Andreas; Puzkiel, Julian	JOURNAL OF PHYSICAL CHEMISTRY C	122	22	11671	11681	2018	4,484	10.1021/acs.jpcc.8b02258	AEM / MML
136	Fatigue Life Extension of AA2024 Specimens and Integral Structures by Laser Shock Peening	Kashaev N., Chupakhin S., Ventzke V., Horstmann M., Riekehr S., Barbini A., Dos Santos J.F., Keller S., Klusemann B., Huber N.	MATEC Web of Conferences	165		18001		2018	Scopus	10.1051/mateconf/201816518001	AEM
137	Prospects of laser beam welding and friction stir welding processes for aluminum airframe structural applications	Kashaev, N., Ventzke, V., Çam, G	JOURNAL OF MANUFACTURING PROCESSES	36		571	600	2018	Scopus	10.1016/j.jmapro.2018.10.005	AEM
138	Laser beam welding of a CoCrFeNiMn-type high entropy alloy produced by self-propagating high-temperature synthesis	Kashaev, Nikolai; Ventzke, Volker; Stepanov, Nikita; Shaysultanov, Dmitry; Sanin, Vladimir; Zhrebtsov, Sergey	INTERMETALLICS	96		63	71	2018	3,42	10.1016/j.intermet.2018.02.014	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
139	Phase transformations in the brazing joint during transient liquid phase bonding of a γ -TiAl alloy studied with in situ high-energy X-ray diffraction	Katja Hauschildt, Andreas Stark, Hilmar Burmester, Ursula Tietze, Norbert Schell, Martin Müller, Florian Pyczak	Materials Science Forum	941		943	948	2018	-	10.4028/www.scientific.net/MSF.941.943	AEM / MML
140	Experimental and numerical investigation of residual stresses in laser shock peened AA2198	Keller, S.; Chupakhin, S.; Staron, P.; Maawad, E.; Kashaev, N.; Klusemann, B.	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	255		294	307	2018	3,647	10.1016/j.jmatprotec.2017.11.023	AEM / MML
141	Synthesis and Crosslinking of Polyether-Based Main Chain Benzoxazine Polymers and Their Gas Separation Performance	Khan, Muntazim Munir; Halder, Karabi; Shishatskiy, Sergey; Filiz, Volkan	POLYMERS	10	2			2018	2,935	10.3390/polym10020221	AEM
142	Mixed Matrix Membranes of Boron Icosahedron and Polymers of Intrinsic Microporosity (PIM-1) for Gas Separation	Khan, Muntazim Munir; Shishatskiy, Sergey; Filiz, Volkan	MEMBRANES	8	1			2018	0	10.3390/membranes8010001	AEM
143	Stability of phase transformation models for Ti-6Al-4V under cyclic thermal loading imposed during laser metal deposition	Klusemann, Benjamin; Bambach, Markus	PROCEEDINGS OF 21ST INTERNATIONAL ESAFORM CONFERENCE ON MATERIAL FORMING (ESAFORM 2018)	1960				2018	0	10.1063/1.5035004	AEM
144	Copolymers from 1-(3,3,3-Trifluoropropyl)dimethylsilyl-1-propyne and 1-Trimethylsilyl-1-propyne as Membrane Materials for the Separation of Gas Mixtures Containing Hydrocarbons	Kossov, A.A.; Litvinova, E.G.; Ezhov, A.A.; Khotimskii, V.S.; Shishatskiy, S.M.; Buhr, K.	Membranes and Membrane Technologies	8	6	399	405	2018	0,932	10.1134/S2218117218060068	AEM
145	Directed Self-Assembly of Star-Block Copolymers by Topographic Nanopatterns through Nucleation and Growth Mechanism	Krishnan, Mohan Raj; Lu, Kai-Yuan; Chiu, Wen-Yu; Chen, I-Chen; Lin, Jheng-Wei; Lo, Ting-Ya; Georgopoulos, Prokopios; Avgeropoulos, Apostolos; Lee, Ming-Chang; Ho, Rong-Ming	SMALL	14	16			2018	9,598	10.1002/sml.201704005	AEM
146	Current Status and Recent Developments in Porous Magnesium Fabrication	Kucharczyk, Alicja; Naplocha, Krzysztof; Kaczmar, Jacek W.; Dieringa, Hajo; Kainer, Karl U.	ADVANCED ENGINEERING MATERIALS	20	1			2018	2,576	10.1002/adem.201700562	AEM
147	Comparison of Microstructure and Texture Evolution of MX20, Conventionally Rolled and Rolled from Twin Roll Cast Strip	Kurz, G.; Petersen, T.; Hoppe, R.; Bohlen, J.; Letzig, D	Acta Physica Polonica A	134	3	703	707	2018	0,857	10.12693/APhysPolA.134.703	AEM
148	A study of the parameters influencing mechanical properties and the fatigue performance of refill friction stir spot welded AlMgSc alloy	Lage, S.B.M.; Campanelli, L.C.; de Bribean Guerra, A.P.; Shen, J.; dos Santos, J.F.; da Silva, P.S.C.P.; Bolfarini, C.	International Journal of Advanced Manufacturing Technology					2018	Scopus	DOI: 10.1007/s00170-018-2696-0	AEM
149	Local pH and Its Evolution Near Mg Alloy Surfaces Exposed to Simulated Body Fluids	Lamaka, S.V.; Gonzales, J.; Mei, D.; Feyerabend, F.; Willumeit-Römer, R.; Zheludkevich, M.L.	Advanced Materials Interfaces	5	18	Article number 1800169		2018	Scopus	10.1002/admi.201800169	AEM
150	Ultrafast PhotoRAFT Block Copolymerization of Isoprene and Styrene Facilitated through Continuous Flow Operation	Lauterbach, Felix; Rubens, Maarten; Abetz, Volker; Junkers, Tanja	Angewandte Chemie, International Edition	57	43	14260	14264		12,102	10.1002/anie.201809759	AEM
151	Synthesis of metal-intermetallic laminate (MIL) composites with modified Al3Ti structure and in situ synchrotron X-ray diffraction analysis of sintering process	Lazurenko, D. V.; Bataev, I. A.; Mali, V. I.; Jorge, A. M., Jr.; Stark, A.; Pyczak, F.; Ogneva, T. S.; Maliutina, I. N.	MATERIALS & DESIGN	151		8	16	2018	4,525	10.1016/j.matdes.2018.04.038	AEM / MML
152	Design of a Nanometric AlTi Additive for MgB2-Based Reactive Hydride Composites with Superior Kinetic Properties	Le, Thi-Thu; Pistidda, Claudio; Puszkiel, Julian; Castro Riglos, Maria Victoria; Karimi, Fahim; Skibsted, Jorgen; GharibDoust, SeyedHosein Payandeh; Richter, Bo; Emmler, Thomas; Milanese, Chiara; Santoru, Antonio; Hoell, Armin; Krumrey, Michael; Gericke, Eike; Akiba, Etsuo; Jensen, Torben R.; Klassen, Thomas; Dornheim, Martin	JOURNAL OF PHYSICAL CHEMISTRY C	122	14	7642	7655	2018	4,484	10.1021/acs.jpcc.8b01850	AEM / MML
153	Fracture prediction based on a two-surface plasticity law for the anisotropic magnesium alloys AZ31 and ZE10	Lee, Jeong-Yeon; Steglich, Dirk; Lee, Myoung-Gyu	INTERNATIONAL JOURNAL OF PLASTICITY	105		1	23	2018	5,502	10.1016/j.ijplas.2017.10.002	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
154	Residual stress and microstructural features of friction-stir-welded GL E36 shipbuilding steel	Lemos, G. V. B.; Cunha, P. H. C. P.; Nunes, R. M.; Bergmann, L.; dos Santos, J. F.; Clarke, T.	MATERIALS SCIENCE AND TECHNOLOGY	34	1	95	103	2018	1,803	10.1080/02670836.2017.1361148	AEM
155	Development of magnesium sheets	Letzig D., Bohlen J., Kurz G., Victoria-Hernandez J., Hoppe R., Yi S.	Minerals, Metals and Materials Series	Part F7		355	360	2018	Scopus	10.1007/978-3-319-72332-7_54	AEM
156	Microstructure and morphology evolution of probeless friction stir spot welded joints of aluminum alloy	Li W.Y., Chu Q., Yang X.W., Shen J.J., Vairis A., Wang W.B.	Journal of Materials Processing Technology	252		69	80	2018	Scopus	10.1016/j.jmatprotec.2017.09.003	AEM
157	Rafting of gamma' precipitates in a Co-9Al-9W superalloy during compressive creep	Li, Yuzhi; Pyczak, Florian; Paul, Jonathan; Oehring, Michael; Lorenz, Uwe; Yao, Zekun; Ning, Yongquan	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	719		43	48	2018	3,414	10.1016/j.msea.2018.02.017	AEM / MML
158	Oxidation behaviors of Co-Al-W-0.1B superalloys in a long-term isothermal exposure at 900 degrees C	Li, Yuzhi; Pyczak, Florian; Paul, Jonathan; Yao, Zekun	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	34	11	2212	2217	2018	3,609	10.1016/j.jmst.2018.03.013	AEM
159	On the topological, morphological, and microstructural characterization of nanoporous metals	Lilleodden, Erica T.; Voorhees, Peter W.	MRS BULLETIN	43	1	20	26	2018	4,788	10.1557/mrs.2017.303	AEM
160	Encapsulation of Al and Ti-Al alloy 1-D nanorods into oxide matrix by powerful pulsed discharge method	Lisenkov, Aleksey D.; Poznyak, Sergey K.; Almeida, Claudio M. R.; Zheludkevich, Mikhail L.; Ferreira, Mario G. S.	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	22	12	3913	3920	2018	2,509	10.1007/s10008-018-4083-z	AEM
161	The effect of Y addition on recrystallization and mechanical properties of Mg-6Zn-xY-0.5Ce-0.4Zr alloys	Liu L., Pan F., Chen X., Huang Y., Song B., Yang H., Hort N.	Vacuum	155		445	455	2018	Scopus	10.1016/j.vacuum.2018.06.048	AEM
162	Influence of particle additions on corrosion and wear resistance of plasma electrolytic oxidation coatings on Mg alloy	Lu X., Blawert C., Kainer K.U., Zhang T., Wang F., Zheludkevich M.L.	Surface and Coatings Technology	352		1	14	2018	Scopus	10.1016/j.surfcoat.2018.08.003	AEM
163	Microstructure and mechanical properties of mg-gd alloys as biodegradable implant materials	Lu Y., Huang Y., Feyerabend F., Willumeit-Römer R., Kainer K.U., Hort N.	Minerals, Metals and Materials Series	Part F12		253	262	2018	Scopus	10.1007/978-3-319-72526-0_23	AEM
164	Improving the fatigue performance of airframe structures by combining geometrical modifications and laser heating	Lu, J.; Huber, N.; Kashaev, N.	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	41	5	1183	1195	2018	2,533	10.1111/ffe.12762	AEM
165	3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography	Lu, Xiaopeng; Blawert, Carsten; Tolnai, D.; Domonkos, Subroto, Tungky; Kainer, Karl Ulrich; Zhang, Tao; Wang, Fuhui; Zheludkevich, Mikhail L.	CORROSION SCIENCE	139		395	402	2018	4,862	10.1016/j.corsci.2018.05.019	AEM / MML
166	Nanoporous Copper-Nickel - Macroscopic bodies of a strong and deformable nanoporous base metal by dealloying	Luehrs, Lukas; Weissmueller, Joerg	SCRIPTA MATERIALIA	155		119	123	2018	4,163	10.1016/j.scriptamat.2018.06.025	AEM
167	Center Line Segregation in Twin-Roll Cast AZ31 Magnesium Alloy	M. Zimina, M. Šlapáková, J. Bohlen, D. Letzig, G. Kurz, S. Zaunschirm, J. Kastner and M. Cieslar	Acta Physica Polonica A	134	3	774	778	2018	0,857	10.12693/APhysPolA.134.774	AEM
168	Multiscale experimental and computational investigation of nature's design principle of hierarchies in dental enamel	Ma, S.; Scheider, I.; Yilmaz, E.D.; Schneider, G.A.; Bargmann, S.	Lecture Notes in Applied and Computational Mechanics	84		273	291	2018	Scopus	10.1007/978-3-319-59548-1_15	AEM
169	Simulation assisted investigation of substrate geometry impact on PEO coating formation	Ma, X.; Blawert, C.; Höche, D.; Kainer, K.U.; Zheludkevich, M.L.	Surface and Coatings Technology	350		281	297	2018	Scopus	10.1016/j.surfcoat.2018.07.024	AEM
170	Comparative study on corrosion behavior of we33 in immersion and polarization influenced by heat treatment	Maier P., Bechly M., Hess B., Freese M., Hort N.	Minerals, Metals and Materials Series	Part F12		227	237	2018	Scopus	10.1007/978-3-319-72526-0_21	AEM
171	Solid solution treatment on strength and corrosion of biodegradable Mg6Ag wires	Maier, P.; Zimmermann, F.; Rinne, M.; Szakacs, G.; Hort, N.; Vogt, C.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	69	2	178	190	2018	1,259	10.1002/maco.201709502	AEM
172	Precipitation Hardening on Mechanical and Corrosion Properties of Extruded Mg10Gd Modified with Nd and La	Maier, Petra; Bechly, Maximilian; Mendis, Chamini L.; Hort, Norbert	METALS	8	8			2018	1,704	10.3390/met8080640	AEM
173	Ewald sphere construction for structural colors	Maiwald, Lukas; Lang, Slawa; J alas, Dirk; Renner, Hagen; Petrov, Alexander Yu.; Eich, Manfred	OPTICS EXPRESS	26	9	11352	11365	2018	3,356	10.1364/OE.26.011352	AEM
174	Direct laser cladding of the silicide dispersed titanium aluminide (Ti45Al5Nb0.5Si) composites	Majumdar, Jyotsna Dutta; Rittinghaus, Silja Katharina; Wissenbach, Konrad; Hoeche, Daniel; Blawert, Carsten; Weisheit, Andreas	OPTICS AND LASER TECHNOLOGY	106		182	190	2018	2,503	10.1016/j.optlastec.2018.03.012	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
175	Synthesis of ZnO mesoporous powders and their application in dye photodegradation	Maltanova, Hanna; Poznyak, Sergey; Ovodok, Evgeni; Ivanovskaya, Maria; Maia, Frederico; Kudlash, Alexander; Scharnagl, Nico; Tedim, Joao	MATERIALS TODAY-PROCEEDINGS	5	9	17414	17421	2018	0	10.1016/j.matpr.2018.06.043	AEM
176	Comparative study on microstructure and corrosion behavior of nanostructured hydroxyapatite coatings deposited by high velocity oxygen fuel and flame spraying on AZ61 magnesium based substrates	Mardali, M., Salimijazi, H. R., Karimzadeh, F., Luthringer, B., Blawert, C., Labbaf, S.	Applied Surface Science	465		614	624	2018	4,439	10.1016/j.apsusc.2018.09.127	AEM
177	Fabrication and characterization of nanostructured hydroxyapatite coating on Mg-based alloy by high-velocity oxygen fuel spraying	Mardali, Marzieh; Salimijazi, Hamidreza; Karimzadeh, Fathallah; Luthringer-Feyerabend, Berengere J. C.; Blawert, Carsten; Labbaf, Sheyda	CERAMICS INTERNATIONAL	44	12	14667	14676	2018	3,057	10.1016/j.ceramint.2018.05.093	AEM
178	The Influence of PSA Pre-Anodization of AA2024 on PEO Coating Formation: Composition, Microstructure, Corrosion, and Wear Behaviors	Maria Serdechnova, Sergey A. Karpushenkov, Larisa S. Karpushenkova, Maksim Starykevich, Mario G. S. Ferreira, Theodor Hack, Mariia H. Iuzviuk, Igor A. Zobjko, Carsten Blawert and Mikhail L. Zheludkevich	Materials	11		2428		2018	2,467	10.3390/ma11122428	AEM
179	SENSITIZATION STUDY IN FRICTION STIR WELDS OF INCONEL (R) 625	Martinazzi, Douglas; Lemos, Guilherme V. B.; Cardoso, Henrique R. P.; Dos Santos, Rafael E.; Ferreira, Jane Z.; Bergmann, Luciano; Dos Santos, Jorge F.; Reguly, Afonso	PERIODICO TCHE QUIMICA	15	29	56	63	2018	0		AEM
180	Validating the early corrosion sensing functionality in poly (ether imide) coatings for enhanced protection of magnesium alloy AZ31	Mata, D.; Scharnagl, N.; Lamaka, S. V.; Malheiro, E.; Maia, F.; Zheludkevich, M. L.	CORROSION SCIENCE	140		307	320	2018	4,862	10.1016/j.corsci.2018.05.034	AEM
181	High-strength Mg-6Zn-1Y-1Ca (wt%) alloy containing quasicrystalline λ -phase processed by a powder metallurgy route	Medina, J.; Perez, P.; Garces, G.; Stark, A.; Schell, N.; Adeva, P.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	715		92	100	2018	3,414	10.1016/j.msea.2017.12.111	MML / AEM
182	Thermal rearrangement of: Ortho -allyloxypolyimide membranes and the effect of the degree of functionalization	Meis D., Tena A., Neumann S., Georgopoulos P., Emmler T., Shishatskiy S., Rangou S., Filiz V., Abetz V.	Polymer Chemistry	9	29	3987	3999	2018	Scopus	10.1039/c8py00530c	AEM
183	Electrocapillary Coupling at Metal Surfaces from First Principles: On the Impact of Excess Charge on Surface Stress and Relaxation	Michl, Anja; Weissmueller, Joerg; Mueller, Stefan	LANGMUIR	34	16	4920	4928	2018	3,789	10.1021/acs.langmuir.7b04261	AEM
184	Solid State Hydrogen Storage in Alanates and Alanate-Based Compounds: A Review	Milanese, Chiara; Garroni, Sebastiano; Gennari, Fabiana; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin; Pistidda, Claudio	METALS	8	8			2018	1,704	10.3390/met8080567	AEM
185	Investigation of single phase Cu ₂ ZnSn _x Sb _{1-x} S ₄ compounds processed by mechanochemical synthesis	Neves, F.; Stark, A.; Schell, N.; Mendes, M. J.; Aguas, H.; Fortunato, E.; Martins, R.; Correia, J. B.; Joyce, A.	PHYSICAL REVIEW MATERIALS	2	7	75404		2018	0	10.1103/PhysRevMaterials.2.075404	MML / AEM
186	Hollow fiber membranes of blends of polyethersulfone and sulfonated polymers	Noor N., Koll J., Scharnagl N., Abetz C., Abetz V.	Membranes	8	3	54		2018	Scopus	10.3390/membranes8030054	AEM
187	Dealloying-based metal-polymer composites for biomedical applications	Okulov, A. V.; Volegov, A. S.; Weissmueller, J.; Markmann, J.; Okulov, I. V.	SCRIPTA MATERIALIA	146		290	294	2018	4,163	10.1016/j.scriptamat.2017.12.022	AEM
188	Tuning microstructure and mechanical properties of open porous TiNb and TiFe alloys by optimization of dealloying parameters	Okulov, I. V.; Okulov, A. V.; Volegov, A. S.; Markmann, J.	SCRIPTA MATERIALIA	154		68	72	2018	4,163	10.1016/j.scriptamat.2018.05.029	AEM
189	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys	Okulov, I. V.; Boenisch, M.; Okulov, A. V.; Volegov, A. S.; Attar, H.; Ehternam-Haghighi, S.; Calin, M.; Wang, Z.; Hohenwarter, A.; Kaban, I.; Prashanth, K. G.; Eckert, J.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	733		80	86	2018	3,414	10.1016/j.msea.2018.07.047	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
190	Open porous dealloying-based biomaterials as a novel biomaterial platform	Okulov, I., V; Okulov, A., V; Soldatov, I., V; Luthringer, B.; Willumeit-Roemer, R.; Wada, T.; Kato, H.; Weissmueller, J.; Markmann, J.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	88		95	103	2018	5,08	10.1016/j.msec.2018.03.008	AEM
191	Nanoporous magnesium	Okulov, I.V., Lamaka, S.V., Wada, T., Yubuta, K., Zheludkevich, M.L., Weissmüller, J., Markmann, J., Kato, H.	Nano Research					2018	Scopus	10.1007/s12274-018-2167-9	AEM
192	Effects of laser processing on the transformation characteristics of NiTi: A contribute to additive manufacturing	Oliveira, J. P.; Cavaleiro, A. J.; Schell, N.; Stark, Andreas; Miranda, R. M.; Ocana, J. L.; Braz Fernandes, F. M.	SCRIPTA MATERIALIA	152		122	126	2018	4,163	10.1016/j.scriptamat.2018.04.024	MML / AEM
193	Sol-gel template synthesis of mesoporous carbon-doped TiO2 with photocatalytic activity under visible light	Ovodok, Evgeni; Maltanova, Hanna; Poznyak, Sergey; Ivanovskaya, Maria; Kudlash, Alexander; Scharnagl, Nico; Tedim, Joao	MATERIALS TODAY-PROCEEDINGS	5	9	17422	17430	2018	0	10.1016/j.matpr.2018.06.044	AEM
194	2D integrating cell for ultra-long optical path on chip	Petrov A.Y., Fohrmann L.S., Sommer G., Pitruzzello G., Krauss T.F., Eich M.	Optics InfoBase Conference Papers					2018	2	10.1364/IPRSN.2018.ITh1B.8	AEM
195	Indirect transitions at a free carrier front in a silicon slow light waveguide	Petrov A.Y., Gaafar M.A., Jalas D., O'Faolain L., Li J., Krauss T.F., Eich M.	Optics InfoBase Conference Papers					2018	2	10.1364/NP.2018.NpM4I.7	AEM
196	Foreword for the IJHE Special Section on E-MRS 2017 Fall Meeting Symposium C on "Multifunctionality of metal hydrides for energy storage - Developments and perspectives", Warsaw-Poland, 18-21 September 2017	Pistidda, Claudio; Charalambopoulou, Georgia; Jensen, Torben R.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	43	34	16737	16737	2018	4,229	10.1016/j.ijhydene.2018.07.001	AEM
197	Chitosan coatings crosslinked with genipin for corrosion protection of AZ31 magnesium alloy sheets	Pozzo, Ludmila de Y.; da Conceicao, Thiago F.; Spinelli, Almir; Scharnagl, Nico; Pires, Alfredo T. N.	CARBOHYDRATE POLYMERS	181		71	77	2018	5,158	10.1016/j.carbpol.2017.10.055	AEM
198	New insight on the hydrogen absorption evolution of the Mg-Fe-h system under equilibrium conditions	Puszkil, J., Victoria Castro Riglos, M., Ramallo-López, J.M., Mizrahi, M., Gemming, T., Pistidda, C., Larochette, P.A., von Colbe, J.B., Klassen, T., Dornheim, M., Gennari, F.	Metals	8	11			2018	1,704	10.3390/met8110967	AEM
199	Development and Characterization of Mechanically Durable Silicone-Polythiourethane Composites Modified with Tetrapodal Shaped ZnO Particles for the Potential Application as Fouling-Release Coating in the Marine Sector	Qiu, H.; Hölken, I.; Gapeeva, A.; Filiz, V.; Adelung, R.; Baum, M.	Materials	11	12	2413		2018	2,467	10.3390/ma11122413	AEM
200	CO2 Selective PolyActive Membrane: Thermal Transitions and Gas Permeance as a Function of Thickness	Rahman, Md. Mushfequr; Abetz, Clarissa; Shishatskiy, Sergey; Martin, Jaime; Mueller, Alejandro J.; Abetz, Volker	ACS APPLIED MATERIALS & INTERFACES	10	31	26733	26744	2018	8,097	10.1021/acami.8b09259	AEM
201	Supramolecular networks from block copolymers based on styrene and isoprene using hydrogen bonding motifs-Part 1: Synthesis and characterization	Rahmstorf E., Abetz V.	Materials	11	9	1608		2018	2,467	10.3390/ma11091608	AEM
202	Supramolecular Networks from Block Copolymers Based on Styrene and Isoprene Using Hydrogen Bonding Motifs—Part 2: Dynamic Mechanical Analysis	Rahmstorf, Elaine; Abetz, Volker	MATERIALS	11	9	1688		2018	2,467	10.3390/ma11091688	AEM
203	Hot forging behavior of Mg-8Al-4Ba-4Ca (ABaX844) alloy and validation of processing map	Rao K.P., Dharmendra C., Prasad Y.V.R.K., Dieringa H., Hort N.	Minerals, Metals and Materials Series				289	2018	Scopus	10.1007/978-3-319-72332-7_45	AEM
204	Development and comparison of processing maps of Mg-3Sn-1Ca alloy from data obtained in tension versus compression	Rao K.P., Suresh K., Prasad Y.V.R.K., Hort N.	IOP Conference Series: Materials Science and Engineering	297	1	12014		2018	Scopus	10.1088/1757-899X/297/1/012014	AEM
205	Connected Process Design for Hot Working of a Creep-Resistant Mg-4Al-2Ba-2Ca Alloy (ABaX422)	Rao, Kamineni Pitcheswara; Chalasani, Dharmendra; Suresh, Kalidass; Prasad, Yellapregada Venkata Rama Krishna; Dieringa, Hajo; Hort, Norbert	METALS	8	6			2018	1,704	10.3390/met8060463	AEM
206	Enhancement of Strength and Hot Workability of AZX312 Magnesium Alloy by Disintegrated Melt Deposition (DMD) Processing in Contrast to Permanent Mold Casting	Rao, Kamineni Pitcheswara; Suresh, Kalidass; Prasad, Yellapregada Venkata Rama Krishna; Hort, Norbert; Gupta, Manoj	METALS	8	6			2018	1,704	10.3390/met8060437	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
207	Microstructure Evolution and Mechanical Properties of Keyhole Repair Welds in AA 2219-T851 Using Refill Friction Stir Spot Welding	Reiman, M., Goebel, J., dos Santos, J.F.	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	27	10	5220	5226	2018	Scopus	10.1007/s11665-018-3519-z	AEM
208	Strain energy contributions on the bainitic phase transformation in a CrMoV steel during continuous cooling	Reisinger, S.; Kozeschnik, E.; Ressel, G.; Keckes, J.; Stark, A.; Marsoner, S.; Ebner, R.	MATERIALS & DESIGN	155		475	484	2018	4,525	10.1016/j.matdes.2018.06.014	AEM / MML
209	Skeletonization, Geometrical Analysis, and Finite Element Modeling of Nanoporous Gold Based on 3D Tomography Data	Richert, Claudia; Huber, Norbert	METALS	8	4			2018	1,704	10.3390/met8040282	AEM
210	Microstructure and Property Relationship Controllable by Thermomechanical Processing of Mg-Al-Zn-Y-Ca Alloy Sheets	Sangbong Yi, J. Victoria-Hernandez, Young Min Kim, D. Letzig, and Bong Sun You	Acta Physica Polonica A	134	3	838	841	2018	0,857	10.12693/APhysPolA.134.838	AEM
211	Setting the Stage for Fabrication of Self-Assembled Structures in Compact Geometries: Inside-Out Isoporous Hollow Fiber Membranes	Sankhala, Kirti; Koll, Joachim; Abetz, Volker	ACS MACRO LETTERS	7	7	840	845	2018	6,131	10.1021/acsmacrolett.8b00402	AEM
212	Insights into the Rb-Mg-N-H System: an Ordered Mixed Amide/Imide Phase and a Disordered Amide/Hydride Solid Solution	Santoru, Antonio; Pistidda, Claudio; Brighi, Matteo; Chierotti, Michele R.; Heere, Michael; Karimi, Fahim; Cao, Hujun; Capurso, Giovanni; Chudhary, Anna-Lisa; Gizer, Goekhan; Garroni, Sebastiano; Sorby, Magnus H.; Hauback, Bjorn C.; Cerny, Radovan; Klassen, Thomas; Dornheim, Martin	INORGANIC CHEMISTRY	57	6	3197	3205	2018	4,7	10.1021/acs.inorgchem.7b03232	AEM / MML
213	Polyolefin-Magnesium Interactions Performing Powder Injection Molding Process	Schaper, Johannes G.; Scharnagl, Nico; Wolff, Martin; Ebel, Thomas; Neumann, Silvio; Willumeit-Römer, Regine	Advanced Engineering Materials			1800530		2018	2,576	DOI: 10.1002/adem.201800530	AEM
214	Applicability of PolyActive (TM) Thin Film Composite Membranes for CO2 Separation from C2H4 Containing Multi-Component Gas Mixtures at Pressures up to 30 Bar	Schuldt, Karina; Pohlmann, Jan; Shishatskiy, Sergey; Brinkmann, Torsten	MEMBRANES	8	2			2018	0	10.3390/membranes8020027	AEM
215	Reciprocity approach for calculating the Purcell effect for emission into an open optical system	Schulz, K. M.; J alas, D.; Petrov, A. Y.; Eich, M.	OPTICS EXPRESS	26	15	19247	19258	2018	3,356	10.1364/OE.26.019247	AEM
216	Integrated Nonlinear Waveguide Optics for High-Efficiency and Wideband-Tunable Generation of THz Radiation	Schulz, K. M.; Rusche, A. G. C.; Petrov, A. Yu; Eich, M.	ACS Photonics	5	9	3779	3787	2018	6,88	10.1021/acsp Photonics.8b00834	AEM
217	Kinetics and hydrogen storage performance of Li-Mg-N-H systems doped with Al and AlCl3	Senes N., Fernández Albanesi L., Garroni S., Santoru A., Pistidda C., Mulas G., Enzo S., Gennari F.	Journal of Alloys and Compounds	765		635	643	2018	Scopus	10.1016/j.jallcom.2018.06.262	AEM
218	Photonic glass for high contrast structural color	Shang, Guoliang; Maiwald, Lukas; Renner, Hagen; J alas, Dirk; Dosta, Maksym; Heinrich, Stefan; Petrov, Alexander; Eich, Manfred	SCIENTIFIC REPORTS	8				2018	4,122	10.1038/s41598-018-26119-8	AEM
219	Texture Development and Material Flow Behavior During Refill Friction Stir Spot Welding of AlMgSc	Shen, Junjun; Lage, Sara B. M.; Suhuddin, Uceu F. H.; Bolfarini, Claudemiro; Dos Santos, Jorge F.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	1	241	254	2018	1,887	10.1007/s11661-017-4381-6	AEM
220	Synthesis of uniform bulk nanoporous palladium with tunable structure	Shi S., Markmann J., Weissmüller J.	Electrochimica Acta	285		60	69	2018	Scopus	10.1016/j.electacta.2018.07.081	AEM
221	Verifying Larché -Cahn elasticity, a milestone of 20th-century thermodynamics	Shi S., Markmann J., Weissmüller J.	Proceedings of the National Academy of Sciences of the United States of America	115	43	10914	10919	2018	Scopus	10.1073/pnas.1809355115	AEM
222	Chelating agent-assisted in situ LDH growth on the surface of magnesium alloy	Shulha TN, Serdechnova M, Lamaka SV, Wieland DCF, Lapko KN, Zheludkevich ML	Scientific Reports	8	1	16409		2018	4,36	10.1038/s41598-018-34751-7	AEM / MML
223	The Reduction of Dissolved Oxygen During Magnesium Corrosion	Silva, Eduardo L.; Lamaka, Sviatlana V.; Mei, Di; Zheludkevich, Mikhail L.	CHEMISTRYOPEN	7	8	664	668	2018	2,801	10.1002/open.201800076	AEM
224	3D stochastic bicontinuous microstructures: Generation, topology and elasticity	Soyarslan, Celal; Bargmann, Swantje; Pradas, Marc; Weissmueller, Joerg	ACTA MATERIALIA	149		326	340	2018	6,036	10.1016/j.actamat.2018.01.005	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
225	A mechanism-driven plasticity model for deformation by glide and twinning and its application to magnesium alloys	Steglich D., Besson J.	Journal of Physics: Conference Series	1063	1	12046		2018	Scopus	10.1088/1742-6596/1063/1/012046	AEM
226	Recent developments in the application of the interdependence model of grain formation and refinement	StJohn D.H., Hu X., Sun M., Peng L., Dieringa H.	Minerals, Metals and Materials Series	Part F7		315	322	2018	Scopus	10.1007/978-3-319-72332-7_48	AEM
227	Hot forging of Mg-4Al-2Ba-2Ca (ABaX422) alloy and validation of processing map	Suresh, K.; Rao, K. P.; Prasad, Y. V. R. K.; Hort, N.; Dieringa, H.	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	28	8	1495	1503	2018	1,795	10.1016/S1003-6326(18)64790-9	AEM
228	Deformation Mechanisms and Formability Window for As-Cast Mg-6Al-2Ca-1Sn-0.3Sr Alloy (MRI 230D)	Suresh, Kalidass; Rao, Kamineni Pitcheswara; Chalasani, Dharmendra; Krishna, Prasad Yellapregada Venkata Rama; Hort, Norbert; Dieringa, Hajo	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	27	3	1440	1449	2018	1,34	10.1007/s11665-018-3219-8	AEM
229	An elementary simulation model for neck growth and shrinkage during solid phase sintering	Thomsen F., Hofmann G., Ebel T., Willumeit-Römer R.	Materialia	3		338	346	2018	Scopus	10.1016/j.mtla.2018.08.031	AEM
230	Intermetallic phase characteristics in the Mg–Nd–Zn system	Tolnai D., Hill S.A., Gavras S., Subroto T., Buzolin R., Hort N.	Minerals, Metals and Materials Series	Part F7		391	397	2018	Scopus	10.1007/978-3-319-72332-7_61	AEM
231	Phase formation during solidification of Mg-Nd-Zn alloys: An in situ synchrotron radiation diffraction study	Tolnai D., Subroto T., Gavras S., Buzolin R., Stark A., Schell N., Hort N.	Materials	11	9	1637		2018	Scopus	10.3390/ma11091637	AEM / MML
232	Thermomechanical characteristics of ODF-silica Nafion (R) nanocomposite for PEMFCs application	Treerkamol, Yaowapa; Schieda, Mauricio; Schulte, Karl	MATERIALS TODAY-PROCEEDINGS	5	6	14026	14030	2018	0	10.1016/j.matpr.2018.02.055	AEM
233	Influence of Accumulative Roll Bonding on the Texture and Tensile Properties of an AZ31 Magnesium Alloy Sheets	Trojanova, Zuzanka; Dzuga, Jan; Halmesova, Kristyna; Nemeth, Gergely; Minarik, Peter; Lukac, Pavel; Bohlen, Jan	MATERIALS	11	1			2018	2,467	10.3390/ma11010073	AEM
234	Tracking the Active Catalyst for Iron-Based Ammonia Decomposition by In Situ Synchrotron Diffraction Studies	Tseng, J.-C., Gu, D., Pistidda, C., Horstmann, C., Dornheim, M., Ternieden, J., Weidenthaler, C.	ChemCatChem	10	19	4465	4472	2018	4.803	10.1002/cctc.201800398	AEM
235	Study on Mg–Si–Sr ternary alloys for biomedical applications	Van der Biest O., Gil-Santos A., Hort N., Schmid-Fetzer R., Moelans N.	Minerals, Metals and Materials Series	Part F7		413	424	2018	Scopus	10.1007/978-3-319-72332-7_64	AEM
236	Improving weld formability by a novel dual-rotation bobbin tool friction stir welding	Wang, F. F.; Li, W. Y.; Shen, J.; Wen, Q.; dos Santos, J. F.	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	34	1	135	139	2018	3,609	10.1016/j.jmst.2017.11.001	AEM
237	Li ₂ NH-LiBH ₄ : a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction	Wang, Han; Cao, Hujun; Zhang, Weijin; Chen, Jian; Wu, Hui; Pistidda, Claudio; Ju, Xiaohua; Zhou, Wei; Wu, Guotao; Etter, Martin; Klassen, Thomas; Dornheim, Martin; Chen, Ping	CHEMISTRY-A EUROPEAN JOURNAL	24	6	1342	1347	2018	5,16	10.1002/chem.201703910	AEM
238	Novel post treatment approaches to tailor the pore size of PS-b-PHEMA isoporous membranes	Wang, Jiali; Rahman, Md. Mushfequr; Abetz, Clarissa; Rangou, Sofia; Zhang, Zhenzhen; Abetz, Volker	MACROMOLECULAR RAPID COMMUNICATIONS	39	18	1800435		2018	4,441	10.1002/marc.201800435	AEM
239	Oxygen Adsorption and Low-Temperature CO Oxidation on a Nanoporous Au Catalyst: Reaction Mechanism and Foreign Metal Effects	Wang, L. C.; Zhong, Y.; Widmann, D.; Weissmueller, J.; Behm, R. J.	TOPICS IN CATALYSIS	61	05/06	446	461	2018	2,439	10.1007/s11244-017-0881-2	AEM
240	Study of slip activity in a Mg-Y alloy by in situ high energy X-ray diffraction microscopy and elastic viscoplastic self-consistent modeling	Wang, Leyun; Huang, Zhonghe; Wang, Huamiao; Maldar, Alireza; Yi, Sangbong; Park, Jun-Sang; Kenesei, Peter; Lilleodden, Erica; Zeng, Xiaoqin	ACTA MATERIALIA	155		138	152	2018	6,036	10.1016/j.actamat.2018.05.065	AEM
241	New insights into perovskite-Ti ₃ AlC precipitate splitting in a Ti-45Al-5Nb-0.75C alloy by transmission electron microscopy	Wang, Li; Oehring, Michael; Lorenz, Uwe; Stark, Andreas; Pyczak, Florian	INTERMETALLICS	100		70	76	2018	3,42	10.1016/j.intermet.2018.06.006	AEM
242	Influence of alloying additions on L1(2) decomposition in gamma-gamma' Co-9Al-9W-2X quaternary alloys	Wang, Li; Oehring, Michael; Lorenz, Uwe; Yang, Junjie; Pyczak, Florian	SCRIPTA MATERIALIA	154		176	181	2018	4,163	10.1016/j.scriptamat.2018.05.051	AEM
243	Mechanochemistry breaks with expectations	Weissmueller, Joerg	NATURE CATALYSIS	1	4	238	239	2018	0	10.1038/s41929-018-0061-1	AEM
244	Dealloyed nanoporous materials with interface-controlled behavior	Weissmueller, Joerg; Sieradzki, Karl	MRS BULLETIN	43	1	14	19	2018	4,788	10.1557/mrs.2017.299	AEM
245	Degradable magnesium implants—assessment of the current situation	Willumeit-Römer R., Ahmad Agha N., Luthringer B.	Minerals, Metals and Materials Series	Part F7		405	411	2018	Scopus	10.1007/978-3-319-72332-7_63	AEM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
246	Visualization of implant failure by synchrotron tomography	Willumeit-Römer R., Moosmann J., Zeller-Plumhoff B., Florian Wieland D.C., Krüger D., Wiese B., Wennerberg A., Peruzzi N., Galli S., Beckmann F., Hammel J.U.	Minerals, Metals and Materials Series	Part F12		275	284	2018	Scopus	10.1007/978-3-319-72526-0_25	AEM / MML
247	Hydrogen bonding and thermoplastic elastomers - a nice couple with temperature-adjustable mechanical properties	Wittenberg, Elisabeth; Meyer, Andreas; Eggers, Steffen; Abetz, Volker	SOFT MATTER	14	14	2701	2711	2018	3,709	10.1039/c8sm00296g	AEM
248	In vitro biodegradation testing of Mg-alloy EZK400 and manufacturing of implant prototypes using PM (powder metallurgy) methods	Wolff M., Luczak M., Schaper J.G., Wiese B., Dahms M., Ebel T., Willumeit-Römer R., Klassen T.	Bioactive Materials	3	3	213	217	2018	Scopus	10.1016/j.bioactmat.2018.03.002	AEM
249	Metal injection molding (MIM) of mg-alloys	Wolff M., Schaper J.G., Dahms M., Ebel T., Willumeit-Römer R., Klassen T.	Minerals, Metals and Materials Series	Part F12		239	251	2018	Scopus	10.1007/978-3-319-72526-0_22	AEM
250	The Effect of Solid Solute and Precipitate Phase on Young's Modulus of Binary Mg-RE Alloys	Xu, Yu-Ling; Wang, Li; Huang, Meng;Gensch, Felix; Kainer, Karl Ulrich; Hort, Norbert	ADVANCED ENGINEERING MATERIALS	20	10	1800271		2018	2,319	10.1002/adem.201800271	AEM
251	Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution	Yang J., Blawert C., Lamaka S.V., Yasakau K.A., Wang L., Laipple D., Schieda M., Di S., Zheludkevich M.L.	Corrosion Science	142		222	237	2018	Scopus	10.1016/j.corsci.2018.07.027	AEM / MML
252	Enhanced Wear Performance of Hybrid Epoxy-Ceramic Coatings on Magnesium Substrates	Yang, J.; Di, S.; Blawert, C.; Lamaka, S.V.; Wang L.; Fu, B.; Jiang, P.; Wang, L.; Zheludkevich, M.L.	ACS Applied Materials and Interfaces	10	36	30741	30751	2018	Scopus	10.1021/acsami.8b10612	AEM
253	Corrosion protection properties of inhibitor containing hybrid PEO-epoxy coating on magnesium	Yang, Junjie; Blawert, Carsten; Lamaka, Sviatlana V.; Snihirova, Darya; Lu, Xiaopeng; Di, Shichun; Zheludkevich, Mikhail L.	CORROSION SCIENCE	140		99	110	2018	4,862	10.1016/j.corsci.2018.06.014	AEM
254	Sol-gel coatings with nanocontainers of corrosion inhibitors for active corrosion protection of metallic materials	Yasakau, K.A.; Ferreira, M.G.S.; Zheludkevich, M.L.	Handbook of Sol-Gel Science and Technology: Processing, Characterization and Applications			2435	2471	2018	Scopus	10.1007/978-3-319-32101-1_141	AEM
255	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024	Yasakau, K.A.; Kuznetsova, A.; Kallip, S.; Starykevich, M.; Tedim, J.; Ferreira, M.G.S.; Zheludkevich, M.L.	Corrosion Science	143		299	313	2018	4,862	10.1016/j.corsci.2018.08.039	AEM
256	Influences of yttrium content on microstructure and mechanical properties of as-cast Mg-Ca-Y-Zr alloys	You S., Huang Y., Kainer K.U., Hort N.	Minerals, Metals and Materials Series	Part F7		91	97	2018	Scopus	10.1007/978-3-319-72332-7_15	AEM
257	Effects of Gd solutes on hardness and yield strength of Mg alloys	Yuling Xu, Felix Gensch, Zhen Ren, Karl Ulrich Kainer, Norbert Hort	Progress in Natural Science: Materials International	28		724	730	2018	2,572	10.1016/j.pnsc.2018.10.002	AEM
258	Synergetic active corrosion protection of AA2024-T3 by 2D-anionic and 3D-cationic nanocontainers loaded with Ce and mercaptobenzothiazole	Zadeh, M. Abdolah; Tedim, J.; Zheludkevich, M.; van der Zwaag, S.; Garcia, S. J.	CORROSION SCIENCE	135		35	45	2018	4,862	10.1016/j.corsci.2018.02.018	AEM
259	Thermal Properties and Morphology of Compatible Poly(ethylene oxide)/Natural Rubber-graft-poly(methyl methacrylate) Blends	Zainal, Nurul F.A.; Hein, Margarethe; Abetz, Volker; Ali, Ab M.M.; Chan, Chin H.	Macromolecular Symposia 2018 Special Issue: POLYCHAR 25 – World Forum on Advanced Materials	382	1	1800083		2018	0,913	10.1002/masy.201800083	AEM
260	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SR mu CT	Zeller-Plumhoff, Berit; Helmholtz, Heike; Feyerabend, Frank; Dose, Thomas; Wilde, Fabian; Hipp, Alexander; Beckmann, Felix; Willumeit-Roemer, Regine; Hammel, Joerg U.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	69	3	298	306	2018	1,259	10.1002/maco.201709514	AEM / MML
261	Evolution of compression strain and microstructure of Mg-Nd and Mg-Y alloys processed by equal channel angular pressing	Zemková, M.; Veselý, J.; Král, R.; Bohlen, J.; Corrêa, C.A.; Minárik, P.	METAL 2018 - 27th International Conference on Metallurgy and Materials, Conference Proceedings			1369	1374	2018	Scopus		AEM
262	Surface topography and cytocompatibility of metal injection molded Ti-22Nb alloy as biomaterial	Zhao, Da-peng; Chen, Yu-kai; Chang, Ke-ke; Ebel, Thomas; Luthringer-Feyerabend, Berengere J. C.; Willumeit-Roemer, Regine; Pyczak, Florian	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	28	7	1342	1350	2018	1,795	10.1016/S1003-6326(18)64772-7	AEM
263	Towards active corrosion protection of Mg alloys using corrosion inhibition approaches	Zheludkevich M.L., Lamaka S.V., Chen Y., Hoeche D., Blawert C., Kainer K.U.	Minerals, Metals and Materials Series	Part F7		19	20	2018	Scopus	10.1007/978-3-319-72332-7_4	AEM

AEM
264 erschienene HZG-Publikationen 2018
Quelle: Web of Science (Thomson Reuter) und Scopus (Elsevier)

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
264	Observation of non-basal slip in Mg-Y by in situ three-dimensional X-ray diffraction	Zhonghe Huang, Leyun Wang, Bijin Zhou, Torben Fischer, Sangbong Yi, Xiaoqin Zeng	Scripta Materialia	143		44	48	2018	4,163	10.1016/j.scriptamat.2017.09.011	AEM / MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
1	Normalization of stroboscopic neutron scattering experiments	Adlmann F.A., Busch S., Vacaliuc B., Nelson A., Anker J.F., Browning J.F., Parizzi A., Bilheux J.-K., Halbert C.E., Korolkovas A., Wolff M.	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms	434		61	65	2018	Scopus	10.1016/j.nimb.2018.08.030	MML
2	The effect of osteoblasts on the surface oxidation processes of biodegradable Mg and Mg-Ag alloys studied by synchrotron IR microspectroscopy	Agha, Nezha Ahmad; Liu, Zhidan; Feyerabend, Frank; Willumeit-Roemer, Regine; Gasharova, Billiana; Heidrich, Stefanie; Mihailova, Boriana	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	91		659	668	2018	5,08	10.1016/j.msec.2018.06.001	AEM / MML
3	Crystallographic texture and lattice strain evolution during tensile load of swaged brass	Al-Hamdany, Nowfal; Brokmeier, Heinz-Guenter; Gan, Weimin	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	711		149	155	2018	3,414	10.1016/j.msea.2017.11.047	MML
4	Crystallographic texture gradient along the wall thickness of an SF-copper tube	Al-Hamdany, Nowfal; Brokmeier, Heinz-Guenter; Salih, Mohammed; Zhong, Zhengye; Schwabke, Bernd; Schell, Norbert; Gan, Weimin	MATERIALS CHARACTERIZATION	139		125	133	2018	2,892	10.1016/j.matchar.2018.02.042	MML
5	Nitrogen transport through thermally grown chromia scales: An in-situ synchrotron X-ray diffraction and thermal analysis study	Ali Solimani, Michael Schütze, Andreas Stark, Mathias C. Galetz	Corrosion Science	145		180	190	2018	4,862	10.1016/j.corsci.2018.10.007	MML
6	Internal stresses and carbon enrichment in austenite of quenching and partitioning steels from high energy x-ray diffraction experiments	Allain, S.Y.P., Gaudes, S., Geandier, G., Hell, J.-C., Gouné, M., Danoix, F., Soler, M., Aoued, S., Poulon-Quintin, A.	Materials Science and Engineering A	710		245	250	2018	3,414	10.1016/j.msea.2017.10.105	MML
7	Magnetic structure in Mn1-xCoxGe compounds	Altynbaev, E.; Siegfried, S. -A.; Strauss, P.; Menzel, D.; Heinemann, A.; Fomicheva, L.; Tsvyashchenko, A.; Grigoriev, S.	PHYSICAL REVIEW B	97	14			2018	3,813	10.1103/PhysRevB.97.144411	MML
8	Liquid Crystalline Nanostructures as PEGylated Reservoirs of Omega-3 Polyunsaturated Fatty Acids: Structural Insights toward Delivery Formulations against Neurodegenerative Disorders	Angelova, Angelina; Drechsler, Markus; Garamus, Vasil M.; Angelov, Borislav	ACS OMEGA	3	3	3235	3247	2018	0	10.1021/acsomega.7b01935	MML
9	The effect of residual stresses and strain reversal on the fracture toughness of TiAl alloys	Appel F., Paul J.D.H., Staron P., Oehring M., Kolednik O., Predan J., Fischer F.D.	Materials Science and Engineering A	709		17	29	2018	Scopus	10.1016/j.msea.2017.10.010	AEM / MML
10	High strength nanocrystalline Cu-Co alloys with high tensile ductility	Bachmaier, A., Rathmayr, G.B., Schmauch, J., Schell, N., Stark, A., de Jonge, N., and Pippan, R.	Journal of Materials Research			1	11	2018	Scopus	10.1557/jmr.2018.185	MML / AEM
11	An in situ investigation of the deformation mechanisms in a beta-quenched Ti-5Al-5V-5Mo-3Cr alloy	Barriobero-Vila, Pere; Gussone, Joachim; Kelm, Klemens; Haubrich, Jan; Stark, Andreas; Schell, Norbert; Requena, Guillermo	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	717		134	143	2018	3,414	10.1016/j.msea.2018.01.077	MML / AEM
12	Peritectic titanium alloys for 3D printing	Barriobero-Vila, Pere; Gussone, Joachim; Stark, Andreas; Schell, Norbert; Haubrich, Jan; Requena, Guillermo	NATURE COMMUNICATIONS	9		3426		2018	12,353	10.1038/s41467-018-05819-9	MML / AEM
13	Influence of phase transformation on the damage tolerance of Ti-Al-N coatings	Bartosik M., Böhm H.J., Krywka C., Zhang Z.L., Mayrhofer P.H.	Vacuum	155		153	157	2018	Scopus	10.1016/j.vacuum.2018.06.001	MML
14	Monitoring the Swelling Behavior of PEDOT:PSS Electrodes under High Humidity Conditions	Biessmann, Lorenz; Kreuzer, Lucas Philipp; Widmann, Tobias; Hohn, Nuri; Moulin, Jean-Francois; Mueller-Buschbaum, Peter	ACS APPLIED MATERIALS & INTERFACES	10	11	9865	9872	2018	8,097	10.1021/acsam.8b00446	MML
15	Formation of block-copolymer-templated mesoporous silica	Bjoerk, Emma M.; Makie, Peter; Rogstrom, Lina; Atakan, Aysin; Schell, Norbert; Oder, Magnus	JOURNAL OF COLLOID AND INTERFACE SCIENCE	521		183	189	2018	5,091	10.1016/j.jcis.2018.03.032	MML
16	Optimized segmentation of the 3D microstructure in cast Al-Si piston alloys [Optimierte Segmentierung der 3D Mikrostruktur in gegossenen Al-Si Kolbenlegierungen]	Bugelnig K., Germann H., Steffens T., Plank B., Wilde F., Boller E., Requena G.	Praktische Metallographie/Practical Metallography	55	4	223	243	2018	Scopus	10.3139/147.110509	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
17	Influence of 3D connectivity of rigid phases on damage evolution during tensile deformation of an AlSi12Cu4Ni2 piston alloy	Bugelnig K., Sket F., Germann H., Steffens T., Koos R., Wilde F., Boller E., Requena G.	Materials Science and Engineering A	709		193	202	2018	Scopus	10.1016/j.msea.2017.10.035	MML
18	A GUI prototype for SKA1 TM services: Compliance with user-centered design approach	Canzari M., Di Carlo M., Khokhriakov I., Poppi S., Dolci M., Smareglia R.	Proceedings of SPIE - The International Society for Optical Engineering	10707		107072P		2018	Scopus	10.1117/12.2313276	MML
19	Effect of heat treatment on the precipitation hardening in FeNiCoAlTaB shape memory alloys	Chulist, R., Prokopowicz, M., Maziarz, W., Ostachowski, P., and Schell, N.	International Journal of Materials Research	109		E1	E5	2018	0,748	10.3139/146.111688	MML
20	Texture and microstructure of HPT-processed Fe-based shape memory alloys	Chulist, R.; Czerny, M.; Panigrahi, A.; Zehetbauer, M.; Schell, N.; Skrotzki, W.	IOP Conference Series: Materials Science and Engineering	375	1	12006		2018	0	10.1088/1757-899X/375/1/012006	MML
21	Effect of cationic structure of surface active ionic liquids on their micellization: A thermodynamic study	Čobanov I., Šarac B., Medoš Ž., Vraneš M., Gadžurić S., Zec N., Bešter-Rogač M.	Journal of Molecular Liquids	271		437	442	2018	Scopus	10.1016/j.molliq.2018.08.152	MML
22	In situ analysis of the strain evolution during welding using low transformation temperature filler materials	Dixneit, J., Vollert, F., Kromm, A., Gibmeier, J., Hannemann, A., Fischer, T., and Kannengiesser, T.	Science and Technology of Welding and Joining	24	3	243	255	2018	1,936	10.1080/13621718.2018.1525150	MML
23	Understanding precipitate evolution during friction stir welding of Al-Zn-Mg-Cu alloy through in-situ measurement coupled with simulation	dos Santos, J. F.; Staron, P.; Fischer, T.; Robson, J. D.; Kostka, A.; Colegrove, P.; Wang, H.; Hilgert, J.; Bergmann, L.; Huetsch, L. L.; Huber, N.; Schreyer, A.	ACTA MATERIALIA	148		163	172	2018	6,036	10.1016/j.actamat.2018.01.020	AEM / MML
24	Residual stresses and fatigue crack growth in friction surfacing coated Ti-6Al-4V sheets	Dovzhenko G., Hanke S., Staron P., Maawad E., Schreyer A., Horstmann M.	Journal of Materials Processing Technology	262		104	110	2018	Scopus	10.1016/j.jmatprotec.2018.06.029	AEM / MML
25	Impact of Headgroup Asymmetry and Protonation State on the Aggregation Behavior of a New Type of Glycerol Diether Bolalipid	Drescher, Simon; Otto, Christian; Mueller, Sindy; Garamus, Vasil M.; Garvey, Christopher J.; Gruenert, Susanne; Lischka, Anke; Meister, Annette; Blume, Alfred; Dobner, Bodo	LANGMUIR	34	14	4360	4373	2018	3,789	10.1021/acs.langmuir.8b00527	MML
26	Experimental and numerical investigations of the gamma "and gamma" precipitation kinetics in Alloy 718	Drexler, A.; Oberwinkler, B.; Primig, S.; Turk, C.; Povoden-Karadeniz, E.; Heinemann, A.; Ecker, W.; Stockinger, M.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	723		314	323	2018	3,414	10.1016/j.msea.2018.03.013	MML
27	A simple setup for episcopic microtomy and a digital image processing workflow to acquire high-quality volume data and 3D surface models of small vertebrates	Engelkes, Karolin; Friedrich, Frank; Hammel, Joerg U.; Haas, Alexander	ZOOMORPHOLOGY	137	1	213	228	2018	1,4	10.1007/s00435-017-0386-3	MML
28	Lattice and phase strain evolution during tensile loading of an intermetallic multi-phase γ -TiAl based alloy	Erdely P., Staron P., Maawad E., Schell N., Clemens H., Mayer S.	Acta Materialia	158		193	205	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050880762&doi=10.1016%2fj.actamat.2018.07.062&partnerID=40&md5=d5e783721a65acb8530e2c04be95f008	AEM / MML
29	Conductivity and Morphology Correlations of Ionic-Liquid/Lithium-Salt/Block Copolymer Nanostructured Hybrid Electrolytes	Ezzeldin Metwalli, Maximilian V. Kaepfel, Simon J. Schaper, Armin Kriele, Ralph Gilles, Konstantinos N. Raftopoulos and Peter Müller-Buschbaum	ACS Applied Energy Materials	2018-1		666	675	2018	-	10.1021/acsaem.7b00173	MML
30	The Effect of a Grain Boundary Pinning B2 Phase on Polycrystalline Co-Based Superalloys with Reduced Density	Freund, Lisa P.; Stark, Andreas; Kirchmayer, Andreas; Schell, Norbert; Pyczak, Florian; Goeken, Mathias; Neumeier, Steffen	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	9	4070	4078	2018	1,887	10.1007/s11661-018-4757-2	AEM / MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
31	The grain boundary pinning effect of the mu phase in an advanced polycrystalline gamma/gamma' Co-base superalloy	Freund, Lisa P.; Stark, Andreas; Pyczak, Florian; Schell, Norbert; Goeken, Mathias; Neumeier, Steffen	JOURNAL OF ALLOYS AND COMPOUNDS	753		333	342	2018	3,779	10.1016/j.jallcom.2018.04.204	AEM / MML
32	Dataset of ptychographic X-ray computed tomography of inverse opal photonic crystals produced by atomic layer deposition	Furlan, K.P.; Larsson, E.; Diaz, A.; Holler, M.; Krekeler, T.; Ritter, M.; Petrov, A.Y.; Eich, M.; Blick, R.; Schneider, G.A.; Greving, I.; Zierold, R.; Janssen, R.	Data in Brief	21		1924	1936	2018	Scopus	10.1016/j.dib.2018.10.076	MML
33	Photonic materials for high-temperature applications: Synthesis and characterization by X-ray ptychographic tomography	Furlan, K.P.; Larsson, E.; Diaz, A.; Holler, M.; Krekeler, T.; Ritter, M.; Petrov, A.Y.; Eich, M.; Blick, R.; Schneider, G.A.; Greving, I.; Zierold, R.; Janssen, R.	Applied Materials Today	13		359	369	2018	0	10.1016/j.apmt.2018.10.002	AEM / MML
34	Wetting of Sn-Zn-Ga and Sn-Zn-Na Alloys on Al and Ni Substrate	Gancarz, Tomasz; Bobrowski, Piotr; Pawlak, Sylwia; Schell, Norbert; Chulist, Robert; Janik, Katarzyna	JOURNAL OF ELECTRONIC MATERIALS	47	1	49	60	2018	1,566	10.1007/s11664-017-5791-3	MML
35	Influence of quasicrystal I-phase on twinning of extruded Mg-Zn-Y alloys under compression	Garces, G.; Medina, J.; Perez, P.; Mathis, K.; Horvath, K.; Stark, A.; Schell, N.; Adeva, P.	ACTA MATERIALIA	151		271	281	2018	6,036	10.1016/j.actamat.2018.03.060	AEM / MML
36	A synchrotron X-ray and electron backscatter diffraction based investigation on deformation and failure micro-mechanisms of monotonic and cyclic loading in titanium	Ghosh, Atasi; Brokmeier, Heinz-Guenter; Al-Hamdany, Nowfal; Sinha, Subhasis; Schell, Norbert; Gurao, Nilesh	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	726		143	153	2018	3,414	10.1016/j.msea.2018.04.036	MML
37	An investigation on shear banding and crystallographic texture of Ag-Cu alloys deformed by high-pressure torsion	Ghosh, P., Kormout, K., Todt, J., Lienert, U., Keckes, J., and Pippan, R.	Proceedings of the Institution of Mechanical Engineers C	233	3	794	806	2018	0,996	10.1177/0954406218761508	MML
38	Deformation characteristics of ultrafine grained and nanocrystalline iron and pearlitic steel – an in situ synchrotron investigation	Ghosh, P., Kormout, K.S., Lienert U., Keckes, J., and Pippan, R.	Acta Materialia	160		22	23	2018	6,036	10.1016/j.actamat.2018.08.036	MML
39	In Vitro Model of the Gram-Negative Bacterial Cell Envelope for Investigation of Anti-Infective Permeation Kinetics	Graef, Florian; Richtert, Robert; Fetz, Verena; Murgia, Xabier; De Rossi, Chiara; Schneider-Daum, Nicole; Allegretta, Giuseppe; Elgaher, Walid; Hauipenthal, Joerg; Empting, Martin; Beckmann, Felix; BroEnstrup, Mark; Hartmann, Rolf; Gordon, Sarah; Lehr, Claus-Michael	ACS INFECTIOUS DISEASES	4	8	1188	1196	2018	4,325	10.1021/acsinfecdis.7b00165	MML
40	Spin-wave stiffness in the Dzyaloshinskii-Moriya helimagnets Mn1-xFexSi	Grigoriev, S. V.; Altyubaev, E. V.; Siegfried, S. -A.; Pshenichnyi, K. A.; Menzel, D.; Heinemann, A.; Chaboussant, G.	PHYSICAL REVIEW B	97	2			2018	3,813	10.1103/PhysRevB.97.024409	MML
41	Spin-wave dynamics in Mn-doped FeGe helimagnet: Small-angle neutron scattering study	Grigoriev, S. V.; Altyubaev, E. V.; Siegfried, S. -A.; Pshenichnyi, K. A.; Honnecker, D.; Heinemann, A.; Tsvyashchenko, A. V.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	459		159	164	2018	3,046	10.1016/j.jmmm.2017.11.050	MML
42	On the Measurement of the Stiffness of Spin Waves in the Fe0.75Co0.25Si Helimagnet by the Small-Angle Neutron Scattering Method	Grigoriev, S. V.; Pshenichnyi, K. A.; Altyubaev, E. V.; Siegfried, S. -A.; Heinemann, A.; Honnecker, D.; Menzel, D.	JETP LETTERS	107	10	640	645	2018	1,363	10.1134/S0021364018100107	MML
43	Capillary condensation and gelling of microemulsions with clay additives	Gvaramia, Manuchar; Mangiapia, Gaetano; Falus, Peter; Ohl, Michael; Holderer, Olaf; Frielinghaus, Henrich	JOURNAL OF COLLOID AND INTERFACE SCIENCE	525		161	165	2018	5,091	10.1016/j.jcis.2018.04.032	MML
44	Deformation and recrystallization mechanisms and their influence on the microstructure development of rare earth containing magnesium sheets	Ha C., Yi S., Bohlen J., Zhou X., Brokmeier H.-G., Schell N., Letzig D., Kainer K.U.	Minerals, Metals and Materials Series	Part F7		209	216	2018	Scopus	10.1007/978-3-319-72332-7_33	AEM / MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
45	A method for the in-situ study of solid-state joining techniques using synchrotron radiation - observation of phase transformations in Ti-6Al-4V after friction surfacing	Hanke, S.; Staron, P.; Fischer, T.; Fitseva, V.; dos Santos, J. F.	SURFACE & COATINGS TECHNOLOGY	335		355	367	2018	2,906	10.1016/j.surfcoat.2017.12.049	AEM / MML
46	Buried interfaces - A systematic study to characterize an adhesive interface at multiple scales	Haubrich, Jan; Loebbecke, Miriam; Watermeyer, Philipp; Wilde, Fabian; Requena, Guillermo; da Silva, Julio	APPLIED SURFACE SCIENCE	433		546	555	2018	4,439	10.1016/j.apsusc.2017.10.015	MML
47	Phase transformations in the brazing joint during transient liquid phase bonding process of a β -TiAl alloy studied with in situ high-energy x-ray diffraction	Hauschildt, K., Stark, A., Burmester, H., Tietze, U., Schell, N., Müller, M., and Pyczak, F.	Materials Science Forum	941		943	948	2018	Scopus	10.4028/www.scientific.net/MSF.941.943	AEM / MML
48	Propagation-based phase-contrast tomography of a guinea pig inner ear with cochlear implant using a model-based iterative reconstruction algorithm	Hehn, Lorenz; Gradl, Regine Voss, Andrej; Günther, Benedikt Dierolf, Martin; Jud, Christoph Willer, Konstantin; Allner, Sebastian Hammel, Jörg U.; Hessler, Roland Morgan, Kaye S.; Herzen, Julia Hemmert, Werner; Pfeiffer, Franz	Biomedical Optics Express	9	11	5330	5339	2018	3,482	10.1364/BOE.9.005330	MML
49	Elemental Segregation and O-Phase Formation in a Gamma-TiAl Alloy	Heike Gabrisch, Tobias Krekeler, Uwe Lorenz, Marcus Willi Rackel, Martin Ritter, Florian Pyczak, Andreas Stark	Materials Science Forum	941		741	746	2018	-	10.4028/www.scientific.net/MSF.941.741	AEM / MML
50	Multiscale process simulation of residual stress fields of laser beam welded precipitation hardened AA6082	Herrnring, J., Staron, P., Kashaev, N., and Klusemann, B.	Materialia	3		243	255	2018	Scopus	10.1016/j.mtla.2018.08.010	AEM / MML
51	Correlation between imposed deformation and transformation lattice strain on α variant selection in a metastable β -Ti alloy under isothermal compression	Hua Ke, Zhang Yudong, Gan Weimin, Kou Hongchao, Li Jinshan, Esling Claude	Acta Materialia	161		150	160	2018	6,036	10.1016/j.actamat.2018.09.022	MML
52	Observation of non-basal slip in Mg-Y by in situ three-dimensional X-ray diffraction	Huang Z., Wang L., Zhou B., Fischer T., Yi S., Zeng X.	Scripta Materialia	143		44	48	2018	Scopus	10.1016/j.scriptamat.2017.09.011	AEM / MML
53	Role of layered structure in ductility improvement of layered Ti-Al metal composite	Huang, Meng; Xu, Chao; Fan, Guohua; Maawad, Emad; Gan, Weimin; Geng, Lin; Lin, Fengxiang; Tang, Guangze; Wu, Hao; Du, Yan; Li, Danyang; Miao, Kesong; Zhang, Tongtong; Yang, Xuesong; Xia, Yiping; Cao, Guojian; Kang, Huijun; Wang, Tongmin; Xiao, Tiqiao; Xie, Honglan	ACTA MATERIALIA	153		235	249	2018	6,036	10.1016/j.actamat.2018.05.005	MML
54	Strengthening and ductilizing of magnesium alloying with heavy rare earth elements	Huang, Y.; Xu, Y.; You, S.; Gan, W.; Kainer, K.U.; Hort, N.	MATEC Web of Conferences	188		Article number 03021		2018	Scopus	10.1051/mateconf/201818803021	AEM / MML
55	Full-Field Hard X-Ray Microscope Designed for Materials Science Applications	Imke Greving, Silja Fenner, Emanuel Larsson ¹ , Malte Storm, Fabian Wilde, Erica Lilleodden, Thomas Dose, Hilmar Burmester, Lars Lottermoser, Christian David and Felix Beckmann	Microscopy and Microanalysis	24	S2	228	229	2018	2,124		MML
56	Comparison Study of Internal Stress Measured by Diffraction Mapping and Calculation Using FEM	J. Gamcova, J.; Milkovic, O.; Nemeth, D.; Mohatny, G.; Michalik, S.; Wehrs, J.; Bednarcik, J.; Krywka, C.; Breguet, J.M.; Michler, J.; Sovak, P.; Franz H.	Key Engineering Materials	784		120	123	2018	Scopus	https://doi.org/10.4028/www.scientific.net/KEM.784.120	MML
57	Evaluation of contrasting techniques for X-ray imaging of velvet worms (Onychophora)	Jahn, Henry; Oliveira, Ivo De Sena; Gross, Vladimir; Martin, Christine; Hipp, Alexander; Mayer, Georg; Hammel, Joerg U.	JOURNAL OF MICROSCOPY	270	3	343	358	2018	1,693	10.1111/jmi.12688	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
58	Surface Modification of 304 Stainless Steel by Electro-Spark Deposition	Jiao Z., Peterkin S., Felix L., Liang R., Oliveira J.P., Schell N., Scotchmer N., Toyserkani E., Zhou Y.	Journal of Materials Engineering and Performance	27	9	4799	4809	2018	Scopus	10.1007/s11665-018-3579-0	MML
59	Conformational States of ABC Transporter MsbA in a Lipid Environment Investigated by Small-Angle Scattering Using Stealth Carrier Nanodiscs	Josts, Inokentij; Nitsche, Julius; Maric, Selma; Mertens, Haydyn D.; Moulin, Martine; Haertlein, Michael; Prevost, Sylvain; Svergun, Dmitri I.; Busch, Sebastian; Forsyth, V. Trevor; Tidow, Henning	STRUCTURE	26	8	1072	+	2018	4,907	10.1016/j.str.2018.05.007	MML
60	Creep deformation of Co-Re-Ta-C alloys with varying C content-investigated in-situ by simultaneous synchrotron radiation diffraction	Karge, Lukas; Gilles, Ralph; Mukherji, Debashis; Stark, Andreas; Beran, Premek; Schell, Norbert; Hofmann, Michael; Strunz, Pavel; Haeusler, Johannes; Roesler, Joachim	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	719		124	131	2018	3,414	10.1016/j.msea.2018.02.009	MML
61	In Situ Formation of TiB ₂ Nanoparticles for Enhanced Dehydrogenation/Hydrogenation Reaction Kinetics of LiBH ₄ -MgH ₂ as a Reversible Solid-State Hydrogen Storage Composite System	Karimi, Fahim; Riglos, Maria V. C.; Santoru, Antonio; Hoell, Armin; Raghuvanshi, Vikram S.; Milanese, Chiara; Bergemann, Nils; Pistidda, Claudio; Nolis, Pau; Baro, Maria D.; Gizer, Goekhan; Thi-Thu Le; Pranzas, P. Klaus; Dornheim, Martin; Klassen, Thomas; Schreyer, Andreas; Puzkiel, Julian	JOURNAL OF PHYSICAL CHEMISTRY C	122	22	11671	11681	2018	4,484	10.1021/acs.jpcc.8b02258	AEM / MML
62	Experimental and numerical investigation of residual stresses in laser shock peened AA2198	Keller, S.; Chupakhin, S.; Staron, P.; Maawad, E.; Kashaev, N.; Klusemann, B.	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	255		294	307	2018	3,647	10.1016/j.jmatprotec.2017.11.023	AEM / MML
63	Fast Temporal and Spatial Resolved Stress Analysis at Laser Surface Line Hardening of Steel AISI 4140	Kiefer, D.; Gibmeier, J.; Beckmann, F.	MECHANICAL STRESS EVALUATION BY NEUTRON AND SYNCHROTRON RADIATION, MECA SENS 2017	4		91	96	2018	0	10.21741/9781945291678-14	MML
64	Severe Plastic Deformation by Equal Channel Angular Pressing and Rolling: The Influence of the Deformation Path on Strain Distribution	Kliauga, A. M.; Sordi, V. L.; De Vincentis, N.S.; Bolmaro, R.E.; Schell, N.; Brokmeier, H.G.	Advanced Engineering Materials	20	4	1700055		2018	2,319	10.1002/adem.201700055	MML
65	Effect of processing temperature on the microstructural characteristics of Cu-Ag nanocomposites: from supersaturation to complete phase decomposition	Kormout, K., Ghosh, P., Bachmaier, A., Hohenwarter, A., and Pippin, R.	Acta Materialia	154		33	44	2018	6,036	10.1016/j.actamat.2018.05.010	MML
66	Direct volumetric measurement of crystallographic texture using acoustic waves	Lan B., Ben Britton T., Jun T.-S., Gan W., Hofmann M., Dunne F.P.E., Lowe M.J.S.	Acta Materialia	159		384	394	2018	Scopus	10.1016/j.actamat.2018.08.037	MML
67	Rapid measurement of volumetric texture using resonant ultrasound spectroscopy	Lan B., Carpenter M.A., Gan W., Hofmann M., Dunne F.P.E., Lowe M.J.S.	Scripta Materialia	157		44	48	2018	Scopus	10.1016/j.scriptamat.2018.07.029	MML
68	Nanoporous gold: a hierarchical and multiscale 3D test pattern for characterizing X-ray nano-tomography systems	Larsson, E.; Gürsoy, D.; De Carlo, F.; Lilleodden, E.; Storm, M.; Wilde, F.; Hu, K.; Müller, M.; Greving, I.	Journal of Synchrotron Radiation	26	1	194	204	2018	3,12	10.1107/S1600577518015242	AEM / MML
69	Synthesis of metal-intermetallic laminate (MIL) composites with modified Al ₃ Ti structure and in situ synchrotron X-ray diffraction analysis of sintering process	Lazurenko, D.V.; Bataev, I.A.; Mali, V.I.; Jorge Jr., A.M., Stark, A., Pyczak, F., Ogneva, T.S., and Maljutina, I.N.	Materials and Design	151		8	16	2018	4,525	10.1016/j.matdes.2018.04.038	AEM / MML
70	Design of a Nanometric AlTi Additive for MgB ₂ -Based Reactive Hydride Composites with Superior Kinetic Properties	Le, Thi-Thu; Pistidda, Claudio; Puzkiel, Julian; Castro Riglos, Maria Victoria; Karimi, Fahim; Skibsted, Jorgen; GharibDoust, SeyedHosein Payandeh; Richter, Bo; Emmeler, Thomas; Milanese, Chiara; Santoru, Antonio; Hoell, Armin; Krumrey, Michael; Gericke, Eike; Akiba	JOURNAL OF PHYSICAL CHEMISTRY C	122	14	7642	7655	2018	4,484	10.1021/acs.jpcc.8b01850	AEM / MML
71	Energy-Efficient Elastocaloric Cooling by Flexibly and Reversibly Transferring Interface in Magnetic Shape-Memory Alloys	Li Y., Zhao D., Liu J., Qian S., Li Z., Gan W., Chen X.	ACS Applied Materials and Interfaces	10	30	25438	25445	2018	Scopus	10.1021/acsami.8b07703	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
72	Strain-Induced Martensitic Transformation Kinetic in Austempered Ductile Iron (ADI)	Li, X. H.; Saal, P.; Gan, W. M.; Hoelzel, M.; Volk, W.; Petry, W.; Hofmann, M.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	1	94	104	2018	1,887	10.1007/s11661-017-4420-3	MML
73	Preparation and characterization of a pH-responsive mesoporous silica nanoparticle dual-modified with biopolymers	Li, Xiaoran; Garamus, Vasil M.; Li, Na; Gong, Yabin; Zhe, Zhe; Tian, Zhenfen; Zou, Aihua	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	548		61	69	2018	2,829	10.1016/j.colsurfa.2018.03.047	MML
74	Rafting of gamma' precipitates in a Co-9Al-9W superalloy during compressive creep	Li, Yuzhi; Pyczak, Florian; Paul, Jonathan; Oehring, Michael; Lorenz, Uwe; Yao, Zekun; Ning, Yongquan	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	719		43	48	2018	3,414	10.1016/j.msea.2018.02.017	AEM / MML
75	3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography	Lu, Xiaopeng; Blawert, Carsten; Tolnai, Domonkos; Subroto, Tungky; Kainer, Karl Ulrich; Zhang, Tao; Wang, Fuhui; Zheludkevich, Mikhail L.	CORROSION SCIENCE	139		395	402	2018	4,862	10.1016/j.corsci.2018.05.019	AEM / MML
76	Experimental study of EUV mirror radiation damage resistance under long-term free-electron laser exposures below the single-shot damage threshold	Makhotkin, Igor A.; Sobierajski, Ryszard; Chalupsky, Jaromir; Tiedtke, Kai; de Vries, Gosse; Stoermer, Michael; Scholze, Frank; Siewert, Frank; van de Kruijs, Robbert W. E.; Milov, Igor; Louis, Eric; Jacyna, Iwanna; Jurek, Marek; Klinger, Dorota; Nittler, Laurent; Sryanyy, Yevgen; Juha, Libor; Hajkova, Vera; Vozda, Vojtech; Burian, Tomas; Saks, Karel; Faatz, Bart; Keitel, Barbara; Ploenjes, Elke; Schreiber, Siegfried; Toilekis, Sven; Loch, Rolf; Hermann, Martin; Strobel, Sebastian; Nienhuys, Han-Kwang; Gwalt, Grzegorz; Mey, Tobias; Enkisch, Hartmut	JOURNAL OF SYNCHROTRON RADIATION	25		77	84	2018	3,232	10.1107/S1600577517017362	MML
77	Optimizing illumination for full field imaging at high brilliance hard X-ray synchrotron sources	Márkus, O.; Greving, I.; Kornemann, E; Storm, M.; Beckmann, F.; Mohr, J.; Last, A.	Optics Express	26	23	30435	30443	2018	3,74	10.1364/OE.26.030435	MML
78	Influence of the ageing conditions and the initial microstructure on the precipitation of α phase in Ti-17 alloy	Maury, N., Denand, B., Dehmas, M., Archambeau-Mirguet, C., Delfosse, J., and Aebly-Gautier, E.	Journal of Alloys and Compounds	763		446	458	2018	3,779	10.1016/j.jallcom.2018.04.302	MML
79	High-strength Mg-6Zn-1Y-1Ca (wt%) alloy containing quasicrystalline l-phase processed by a powder metallurgy route	Medina, J.; Perez, P.; Garces, G.; Stark, A.; Schell, N.; Adeva, P.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	715		92	100	2018	3,414	10.1016/j.msea.2017.12.111	AEM / MML
80	Mechanism of single-shot damage of Ru thin films irradiated by femtosecond extreme UV free-electron laser	Milov, Igor; Makhotkin, Igor A.; Sobierajski, Ryszard; Medvedev, Nikita; Lipp, Vladimir; Chalupsky, Jaromir; Sturm, Jacobus M.; Tiedtke, Kai; de Vries, Gosse; Stoermer, Michael; Siewert, Frank; van de Kruijs, Robbert; Louis, Eric; Jacyna, Iwanna; Jurek, Marek; Juha, Libor; Hajkova, Vera; Vozda, Vojtech; Burian, Tomas; Saks, Karel; Faatz, Bart; Keitel, Barbara; Ploenjes, Elke; Schreiber, Siegfried; Toilekis, Sven; Loch, Rolf; Hermann, Martin; Strobel, Sebastian; Nienhuys, Han-Kwang; Gwalt, Grzegorz; Mey, Tobias; Enkisch, Hartmut; Bijkerk, Fred	OPTICS EXPRESS	26	15	19665	19685	2018	3,356	10.1364/OE.26.019665	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
81	Correlation Between the Microstructural Defects and Residual Stress in a Single Crystal Nickel-Based Superalloy During Different Creep Stages	Mo Fangjie, Wu Erdong, Zhang Changsheng, Wang hong, Zhong Zhengye, Zhang Jian, Chen bo, Hofmann Michael, Gan Weimin, Sun Guangai	Metals and Materials International	24	5	1002	1011	2018	1,952	10.1007/s12540-018-0106-7	MML
82	Investigating individual wood cell wall layers with X-ray micro and nano beams	Mueller, Martin	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	255				2018	-		MML
83	Electrodeposition of Fe-C alloys from citrate baths: structure, mechanical properties, and thermal stability	Mueller, T., Grimwood, J., Bachmaier, A., and Pippin, R.	Metals	8	5	363		2018	1,704	10.3390/met8050363	MML
84	Structural reorganization of fullerene C70 in N-methyl-2-pyrrolidone/toluene mixtures	Nagorna, T.V.; Kuzmenko, M.O.; Kyzyma, O.A.; Chudoba, D.; Nagornyi, A.V.; Tropin, T.V.; Garamus, V.M.; Jazdzewska, M.; Bulavin, L.A.	Journal of Molecular Liquids	272		948	952	2018	Scopus	10.1016/j.molliq.2018.10.110	MML
85	Specifics of C60 Fullerene Cluster Formation in a Solvent Mixture of Toluene and N-Methyl-2-Pyrrolidone	Nagorna, T.V.; Kyzyma, O.A.; Bulavin, L.A.; Chudoba, D.; Garamus, V.M.; Avdeev, M.V.; Aksenov, V.L.	Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques	12	5	872	876	2018	Scopus	10.1134/S1027451018050063	MML
86	Investigation of single phase Cu2ZnSnxSb1-xS4 compounds processed by mechanochemical synthesis	Neves, F.; Stark, A.; Schell, N.; Mendes, M. J.; Aguas, H.; Fortunato, E.; Martins, R.; Correia, J. B.; Joyce, A.	PHYSICAL REVIEW MATERIALS	2	7	75404		2018	0	10.1103/PhysRevMaterials.2.075404	AEM / MML
87	Effects of laser processing on the transformation characteristics of NiTi: A contribute to additive manufacturing	Oliveira, J. P.; Cavaleiro, A. J.; Schell, N.; Stark, Andreas; Miranda, R. M.; Ocana, J. L.; Braz Fernandes, F. M.	SCRIPTA MATERIALIA	152		122	126	2018	4,163	10.1016/j.scriptamat.2018.04.024	AEM / MML
88	On the impact of surfactant type on the structure of aqueous ferrofluids.	Petrenko, V. I.; Artykulnyi, O. P.; Bulavin, L. A.; Almasy, L.; Garamus, V. M.; Ivankov, O. I.; Grigoryeva, N. A.; Vekas, L.; Kopcansky, P.; Avdeev, M. V.	COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS	541		222	226	2018	2,829	10.1016/j.colsurfa.2017.03.054	MML
89	Magnetic Fluids: Structural Aspects by Scattering Techniques	Petrenko, V. I.; Nagornyi, A. V.; Gapon, I. V.; Vekas, L.; Garamus, V. M.; Almasy, L.; Feoktystov, A. V.; Avdeev, M. V.	MODERN PROBLEMS OF MOLECULAR PHYSICS	197		205	226	2018	0	10.1007/978-3-319-61109-9_10	MML
90	Electrodeposited Na2Ni[Fe(CN)6] Thin-Film Cathodes Exposed to Simulated Aqueous Na-Ion Battery Conditions	Philipp Marzak, Jeongsik Yun, Albrecht Dorsel, Armin Kriele, Ralph Gilles, Oliver Schneider, Aliaksandr S. Bandarenka	The Journal of Physical Chemistry	Part C	122	8760	8768	2018	4,484	10.1021/acs.jpcc.8b00395	MML
91	In situ analysis of PCBN cutting tool materials during thermo-mechanical loading using synchrotron radiation	Proes, F.; Eichenseer, C.; Hintze, W.; Schell, N.; Leahy, W.; M'Saoubi, R.; Sattel, S.	PRODUCTION ENGINEERING-RESEARCH AND DEVELOPMENT	12	03/04	535	546	2018	0	10.1007/s11740-018-0791-6	MML
92	Toward Optimization of Centrifugal Barrel Polishing Procedure for Treatment of Niobium Cavities	Prudnikava, Alena; Tamashevich, Yegor; Yanushkevich, Kazimir; Noei, Heshmat; Lott, Dieter; Stierle, Andreas; Foster, Brian	IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	28	4	3500105		2018	1,288	10.1109/TASC.2018.2791641	MML
93	Strain energy contributions on the bainitic phase transformation in a CrMoV steel during continuous cooling	Reisinger, S.; Kozeschnik, E.; Ressel, G.; Keckes, J.; Stark, A.; Marsoner, S.; Ebner, R.	MATERIALS & DESIGN	155		475	484	2018	4,525	10.1016/j.matdes.2018.06.014	AEM / MML
94	Plasticity in inhomogeneously strained Au nanowires studied by Laue microdiffraction	Ren, Z.; Cornelius, T.W.; Leclere, C.; Davydok, A.; Micha, J.-S.; Robach, O.; Richter G.; Thomas, O.	MRS Advances	3	39	2331	2339	2018	Scopus	10.1557/adv.2018.465	MML
95	Three-point bending behavior of a Au nanowire studied by in-situ Laue micro-diffraction	Ren, Z.; Cornelius, T.W.; Leclere, C.; Davydok, A.; Micha, J.-S.; Robach, O.; Richter G.; Thomas, O.	Journal of Applied Physics	124	28	185104-1	185104-11	2018	2,176	10.1063/1.5054068	MML
96	Microstructural and texture evolution of copper-(chromium, molybdenum, tungsten) composites deformed by high-pressure-torsion	Rosalie, J., Ghosh, P., Guo, J., Renk, O., and Zhang, Z.	International Journal of Refractory Metals & Hard Materials	75		137	146	2018	2,606	10.1016/j.ijrmhm.2018.04.008	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
97	Beam modulation: A novel ToF-technique for high resolution diffraction at the Beamline for European Materials Engineering Research (BEER)	Rouijaa, M.; Kampmann, R.; Saroun, J.; Fenske, J.; Beran, P.; Mueller, M.; Lukas, P.; Schreyer, A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	889		7	15	2018	1,336	10.1016/j.nima.2017.12.083	MML
98	Synchrotron X-ray imaging of a dichasium cupule of Castanopsis from Eocene Baltic amber	Sadowski, Eva-Maria; Hammel, Jörg U.; Denk, Thomas	American Journal of Botany	105	12	2025	2036	2018	2,788	10.1002/ajb2.1202	MML
99	Investigation of the Mesosstructure of Transition-Metal Monogermanides Synthesized under Pressure	Safiulina, I. A.; Altyntbaev, E. V.; Iashina, E. G.; Heinemann, A.; Fomicheva, L. N.; Tsvyashchenko, A. V.; Grigoriev, S. V.	PHYSICS OF THE SOLID STATE	60	4	751	757	2018	0,925	10.1134/S1063783418040273	MML
100	Insights into the Rb-Mg-N-H System: an Ordered Mixed Amide/Imide Phase and a Disordered Amide/Hydride Solid Solution	Santorù, Antonio; Pistidda, Claudio; Brighi, Matteo; Chierotti, Michele R.; Heere, Michael; Karimi, Fahim; Cao, Hujun; Capurso, Giovanni; Chudhary, Anna-Lisa; Gizer, Goekhan; Garroni, Sebastiano; Sorby, Magnus H.; Hauback, Bjorn C.; Cerny, Radovan; Klassen, Thomas; Dornheim, Martin	INORGANIC CHEMISTRY	57	6	3197	3205	2018	4,7	10.1021/acs.inorgchem.7b03232	AEM / MML
101	Deformation mechanisms of nil temperature ductile polycrystalline B2 intermetallic compound YAg	Schaarschuch, Rolf; Oertel, Carl-Georg; Cao, Guanghui; Freudenberger, Jens; Brokmeier, Heinz-Guenther; Skrotzki, Werner	ACTA MATERIALIA	151		149	158	2018	6,036	10.1016/j.actamat.2018.03.064	MML
102	The influence of n-hexanol on the morphology and composition of CTAB micelles	Schmutzler, Tilo; Schindler, Torben; Schmiele, Martin; Appavou, Marie-Sousai; Lages, Sebastian; Kriele, Armin; Gilles, Ralph; Unruh, Tobias	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	543		56	63	2018	2,829	10.1016/j.colsurfa.2017.12.039	MML
103	Different Breathing Mechanisms in Flexible Pillared-Layered Metal-Organic Frameworks: Impact of the Metal Center	Schneemann, Andreas; Vervoorts, Pia; Hante, Inke; Tu, Min; Wannapaiboon, Suttipong; Sternemann, Christian; Paulus, Michael; Wieland, D. C. Florian; Henke, Sebastian; Fischer, Roland A.	CHEMISTRY OF MATERIALS	30	5	1667	1676	2018	9,89	10.1021/acs.chemmater.7b05052	MML
104	Thermodynamic instability of a nanocrystalline, single-phase TiZrNbHfTa alloy and its impact on the mechanical properties	Schuh B., Völker B., Todt J., Schell N., Perrière L., Li J., Couzinié J.P., Hohenwarter A.	Acta Materialia	142		201	212	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030658123&doi=10.1016%2fj.actamat.2017.09.035&partnerID=40&md5=d7687617a9f7e4cfdb0e215d120abc74	MML
105	Influence of Annealing on Microstructure and Mechanical Properties of a Nanocrystalline CrCoNi Medium-Entropy Alloy	Schuh, Benjamin; Voelker, Bernhard; Todt, Juraj; Kormout, Karoline S.; Schell, Norbert; Hohenwarter, Anton	MATERIALS	11	5	662-1	662-8	2018	2,467	10.3390/ma11050662	MML
106	The effect of Zn content on the mechanical properties of Mg-4Nd-xZn alloys (x = 0; 3; 5 and 8 wt.%)	Serge Gavras, Ricardo H. Buzolin, Tungky Subroto, Andreas Stark, Domonkos Tolnai	Materials	11		1103		2018	2,467	10.3390/ma11071103	AEM / MML
107	Chelating agent-assisted in situ LDH growth on the surface of magnesium alloy	Shula, TN; Serdechnova, M.; Lamanka, S.V.; Wieland, D.C.F.; Lapko, K.N.; Zheludkevish, M.L.	SCIENTIFIC REPORTS	8		16409		2018	4,122	10.1038/s41598-018-34751-7	AEM / MML
108	Nanotomography of inverse photonic crystals using Zernike Phase contrast	Silja Flenner, Emanuel Larsson, Kaline Furlan, Daniel Laipple, Malte Storm, Fabian Wilde, Robert Blick, Gerold A. Schneider, Robert Zierold, Rolf Janssen, Christian David, Felix Beckmann, Martin Müller and Imke Greving	Microscopy and Microanalysis	24	S2	148	149	2018	2,124		MML
109	In Situ Characterization at Elevated Temperatures of a New Ni-Based Superalloy VDM-780 Premium	Solis, C.; Munke, J.; Bergner, M.; Kriele, A.; Muehlbauer, M. J.; Cheptiakov, D. V.; Gehrmann, B.; Roesler, J.; Gilles, R.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	49A	9	4373	4381	2018	1,887	10.1007/s11661-018-4761-6	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
110	Coatings for FEL optics: preparation and characterization of B4C and Pt	Stoermer, Michael; Siewert, Frank; Horstmann, Christian; Buchheim, Jana; Gwalt, Grzegorz	JOURNAL OF SYNCHROTRON RADIATION	25		116	122	2018	3,232	10.1107/S1600577517016095	MML
111	Hyaluronic acid-coated liposome for active targeting on CD44 expressing tumors	Tian, Zhenfen; Liu, Jianwen; Li, Na; Garamus, Vasil M.; Zou, Aihua	JOURNAL OF NANOPARTICLE RESEARCH	20	9			2018	2,127	10.1007/s11051-018-4324-1	MML
112	Gradient residual strain and stress distributions in a high pressure torsion deformed iron disk revealed by high energy X-ray diffraction	Todt, J.; Keckes, J.; Winter, G.; Staron, P.; Hohenwarter, A.	SCRIPTA MATERIALIA	146		178	181	2018	4,163	10.1016/j.scriptamat.2017.11.037	MML
113	Phase formation during solidification of Mg-Nd-Zn alloys: An in situ synchrotron radiation diffraction study	Tolnai D., Subroto T., Gavras S., Buzolin R., Stark A., Schell N., Hort N.	Materials	11	9	1637		2018	Scopus	10.3390/ma11091637	AEM / MML
114	Quantum mechanical effects in zwitterionic amino acids: The case of proline, hydroxyproline, and alanine in water	Ulman, Kanchan; Busch, Sebastian; Hassanali, Ali A.	JOURNAL OF CHEMICAL PHYSICS	148	22			2018	2,843	10.1063/1.5008665	MML
115	Deformation mechanisms in metastable austenitic TRIP/TWIP steels under compressive load studied by in situ synchrotron radiation diffraction	Ulrich, C., Martin, S., Schimpf, C, Stark, A., Schell, N., and Rafaja, D.	Advanced Engineering Materials			1801101-1	1801101-9	2018	Scopus	10.1002/adem.201801101	AEM / MML
116	High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties	Vasilescu C., Latikka M., Knudsen K.D., Garamus V.M., Socollu V., Turcu R., Tombácz E., Susan-Resiga D., Ras R.H.A., Vékás L.	Soft Matter	14	32	6648	6666	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051868836&doi=10.1039%2fc7sm02417g&partnerID=40&md5=c6f2b584a156339c5660f62f8ceff7b7	MML
117	The metallurgical texture of gold artefacts found at the Bronze Age rampart of Bernstorf (Bavaria) studied by neutron diffraction	Wagner F.E., Gebhard R., Gan W., Hofmann M.	Journal of Archaeological Science: Reports	20		338	346	2018	Scopus	10.1016/j.jasrep.2018.05.005	MML
118	Influence of Solvent Additive 1,8-Octanedithiol on P3HT:PCBM Solar Cells	Wang, Weijia; Song, Lin; Magerl, David; Gonzalez, Daniel Mosegui; Koerstgens, Volker; Philipp, Martine; Moulin, Jean-Francois; Mueller-Buschbaum, Peter	ADVANCED FUNCTIONAL MATERIALS	28	20			2018	13,325	10.1002/adfm.201800209	MML
119	Visualization of implant failure by synchrotron tomography	Willumeit-Römer R., Moosmann J., Zeller-Plumhoff B., Florian Wieland D.C., Krüger D., Wiese B., Wennerberg A., Peruzzi N., Galli S., Beckmann F., Hammel J.U.	Minerals, Metals and Materials Series	Part F12		275	284	2018	Scopus	10.1007/978-3-319-72526-0_25	AEM / MML
120	Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution	Yang, J. J.; Blawert, C.; Lamaka, S. V.; Yasakau, K. A.; Wang, L.; Laipple, D.; Schieda, M.; Di, S. C.; Zheludkevich, M. L.	Corrosion Science	142		222	237	2018	4,862	10.1016/j.corsci.2018.07.027	AEM / MML
121	Retraction of the dissolution front in natural porous media	Yang, Y.; Bruns, S.; Rogowska, M.; Hakim, S. S.; Hammel, J. U.; Stipp, S. L. S.; Sorensen, H. O.	SCIENTIFIC REPORTS	8		5693		2018	4,122	10.1038/s41598-018-23823-3	MML
122	Direct Observation of Coupled Geochemical and Geomechanical Impacts on Chalk Microstructure Evolution under Elevated CO ₂ Pressure	Yang, Y.; Hakim, S. S.; Bruns, S.; Rogowska, M.; Boehnert, S.; Hammel, J. U.; Stipp, S. L. S.; Sorensen, H. O.	ACS EARTH AND SPACE CHEMISTRY	2	6	618	633	2018	0	10.1021/acsearthspacechem.8b00013	MML
123	Preparation of an Environmentally Friendly Formulation of the Insecticide Nicotine Hydrochloride through Encapsulation in Chitosan/Tripolyphosphate Nanoparticles	Yang, Ying; Cheng, Jiagao; Garamus, Vasil M.; Li, Na; Zou, Aihua	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	66	5	1067	1074	2018	3,412	10.1021/acs.jafc.7b04147	MML
124	Studies on the adsorption and desorption of mitoxantrone to lauric acid/albumin coated iron oxide nanoparticles	Zaloga, Jan; Feoktystov, Artem; Garamus, Vasil M.; Karawacka, Weronika; Ioffe, Alexander; Brueckel, Thomas; Tietze, Rainer; Alexiou, Christoph; Lyer, Stefan	COLLOIDS AND SURFACES B-BIOINTERFACES	161		18	26	2018	3,997	10.1016/j.colsurfb.2017.09.057	MML
125	Insights into interactions between 1-butyl-3-methylimidazolium dicyanamide and molecular solvents: γ -valerolactone γ -butyrolactone and propylene carbonate. Volumetric properties and MD simulations	Zec N., Idrissi A., Bešter-Rogač M., Vraneš M., Gadžurić S.	Journal of Molecular Liquids	268		481	489	2018	Scopus		MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
126	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SR mu CT	Zeller-Plumhoff, Berit; Helmholtz, Heike; Feyerabend, Frank; Dose, Thomas; Wilde, Fabian; Hipp, Alexander; Beckmann, Felix; Willumeit-Roemer, Regine; Hammel, Joerg U.	MATERIALS AND CORROSION- WERKSTOFFE UND KORROSION	69	3	298	306	2018	1,259	10.1002/maco.201709514	AEM / MML
127	Macromolecular pHPMA-Based Nanoparticles with Cholesterol for Solid Tumor Targeting: Behavior in HSA Protein Environment	Zhang, Xiaohan; Niebuur, Bart-Jan; Chytil, Petr; Etrych, Tomas; Filippov, Sergey K.; Kikhney, Alexey; Wieland, D. C. Florian; Svergun, Dmitri I.; Papadakis, Christine M.	BIOMACROMOLECULES	19	2	470	480	2018	5,738	10.1021/acs.biomac.7b01579	MML
128	Inhomogeneity and relaxation phenomena in the graphite anode of a lithium-ion battery probed by in situ neutron diffraction (vol 361, pg 54, 2017)	Zinth, Veronika; von Lueders, Christian; Wilhelm, Joern; Erhard, Simon V.; Hofmann, Michael; Seidlmayer, Stefan; Rebelo-Kommeier, Joana; Gan, Weimin; Jossen, Andreas; Gilles, Ralph	JOURNAL OF POWER SOURCES	377		189	189	2018	6,945	10.1016/j.jpowsour.2017.11.095	MML
129	Construction and Characterization of a Novel Sustained-Release Delivery System for Hydrophobic Pesticides Using Biodegradable Polydopamine-Based Microcapsules	Zou, Aihua; Yang, Ying; Cheng, Jiagao; Garamus, Vasil M.; Li, Na	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	66	25	6262	6268	2018	3,412	10.1021/acs.jafc.8b00877	MML

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
1	The predictive value of a modified Carpentier Classification in Patients with coincidental Mitral Regurgitation undergoing TAVI for severe Aortic Valve Stenosis	Al-Hindwan, Haitham Saleh Ali; Landmesser, Ulf; Stähli, Barbara; Alushi, Brunhilda; Curio, Jonathan; Neumann, Tim; Jung, Friedrich; Lendlein, Andreas; Jacobs, Stephan; Reinthaler, Markus	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	70	1	15	25	2018	1,914	10.3233/CH-189906	BIFTM
2	Competitive adsorption of multiple proteins to nanoparticles: the Vroman effect revisited, J. Molec. Phys. 116(21-22), 3154-3163 (2018)	Angioletti-Uberti, Stefano; Ballauff, Matthias; Dzubiella, Joachim	MOLECULAR PHYSICS	116	21-22	3154	3163	2018	1,704	10.1080/00268976.2018.1467056	BIFTM
3	High-Throughput Synthesis of Oligo(ϵ -caprolactone) / Oligotetrahydrofuran Based Polyurethanes	Balk, Maria; Lendlein, Andreas; Behl, Marc	MRS ADVANCES	3	49	2965	2973	2018	ISI list	10.1557/adv.2018.319	BIFTM
4	Visualizing Oxidative Cellular Stress Induced by Nanoparticles in the Subcytotoxic Range Using Fluorescence Lifetime Imaging	Balke, Jens; Volz, Pierre; Neumann, Falko; Brodewolf, Robert; Wolf, Alexander; Pischon, Hannah; Radbruch, Moritz; Mundhenk, Lars; Gruber, Achim D.; Ma, Nan; Alexiev, Ulrike	SMALL	14	23			2018	9,598	10.1002/sml.201800310	BIFTM
5	Epigenetic immune cell counting in human blood samples for immunodiagnosics	Baron, Udo; Werner, Jeannette; Schildknecht, Konstantin; Schulze, Janika J.; Mulu, Andargaschew; Liebert, Uwe-Gerd; Sack, Ulrich; Speckmann, Carsten; Gossen, Manfred; Wong, Ronald J.; Stevenson, David K.; Babel, Nina; Schuermann, Dirk; Baldinger, Tina; Bacchetta, Rosa; Gruetzkau, Andreas; Borte, Stephan; Olek, Sven	SCIENCE TRANSLATIONAL MEDICINE	10	452			2018	16,71	10.1126/scitranslmed.aan3508	BIFTM
6	Collagen type-IV Langmuir and Langmuir-Schäfer layers as model biointerfaces to direct stem cell adhesion	Bhuvanesh, T; Machatschek, R; Lysyakova, L; Kratz, K; Schulz, B; Ma, N; Lendlein, A.	Biomedical Materials	14	2	24101		2019	2,897	10.1088/1748-605X/aaf464	BIFTM
7	Computer-aided design of short peptide ligands targeting tumor necrosis factor-alpha for adsorbent applications	Chen, Jie; Sun, Jixue; Han, Wenyan; Chen, Jian; Wang, Weichao; Cheng, Guanghui; Lin, Jianping; Ma, Nan; Chen, Hao; Ou, Lailiang; Li, Wenzhong	JOURNAL OF MATERIALS CHEMISTRY B	6	26	4368	4379	2018	4,776	10.1039/c8tb00563j	BIFTM
8	Repeated MitraClip procedure in patients with recurrent MR after a successful first procedure: Limitations and outcome	Curio, Jonathan; Reinthaler, Markus; Kasner, Mario; Al-Hindwan, Haitham Saleh Ali; Baeckemo-Johansson, Johan; Neumann, Tim; Jacobs, Stephan; Lauten, Alexander; Landmesser, Ulf	JOURNAL OF INTERVENTIONAL CARDIOLOGY	31	1	83	90	2018	1,728	10.1111/joic.12457	BIFTM
9	VueBox® perfusion analysis of Contrast-Enhanced Ultrasound (CEUS) examinations in patients with primary hyperparathyroidism for preoperative detection of parathyroid gland adenoma	da Silva, N. P. B. ; Jung, E. M.; Jung, Friedrich; Schliitt, H.; Hornung, M.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION					2018	1,914	10.3233/CH-189307	BIFTM
10	Exceptionally Ductile and Tough Biomimetic Artificial Nacre with Gas Barrier Function	Eckert, Alexander; Rudolph, Tobias; Guo, Jiaqi; Mang, Thomas; Walther, Andreas	ADVANCED MATERIALS	30	32			2018	21,95	10.1002/adma.201802477	BIFTM
11	Photocontrolled Release of Chemicals from Nano- and Microparticle Containers	Englert, Christoph; Nischang, Ivo; Bader, Cornelia; Borchers, Philipp; Alex, Julien; Proehl, Michael; Hentschel, Martin; Hartlieb, Matthias; Traeger, Anja; Pohnert, Georg; Schubert, Stephanie; Gottschaldt, Michael; Schubert, Ulrich S.	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	57	9	2479	2482	2018	12,102	10.1002/anie.201710756	BIFTM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
12	Implementing and Quantifying the Shape-Memory Effect of Single Polymeric Micro/Nanowires with an Atomic Force Microscope	Fang, Liang; Gould, Oliver E. C.; Lysyakova, Liudmila; Jiang, Yi; Sauter, Tilman; Frank, Oliver; Becker, Tino; Schossig, Michael; Kratz, Karl; Lendlein, Andreas	CHEMPHYSICHEM	19	16	2078	2084	2018	2,947	10.1002/cphc.201701362	BIFTM
13	Torsional Fiber Actuators from Shape-memory Polymer	Farhan, M; Rudolph, T; Kratz, K; Lendlein, A.	MRS Advances	3	63	3861	3868	2018	ISI list	10.1557/adv.2018.621	BIFTM
14	Extractable Free Polymer Chains Enhance Actuation Performance of Crystallizable Poly(epsilon-caprolactone) Networks and Enable Self-Healing	Farhan, Muhammad; Rudolph, Tobias; Noechel, Ulrich; Kratz, Karl; Lendlein, Andreas	POLYMERS	10	3			2018	2,935	10.3390/polym10030255	BIFTM
15	Adipose tissue-derived stem cells from affected and unaffected areas in patients with multiple symmetric lipomatosis show differential regulation of mTOR pathway genes	Felthaus, Oliver; Schoen, Teresa; Schiltz, Daniel; Aung, Thiha; Kuehlmann, Britta; Jung, Friedrich; Anker, Alexandra; Klein, Silvan; Prantl, Lukas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	01/02	141	151	2018	1,914	10.3233/CH-189107	BIFTM
16	In memory of Prof. Dr. Sandro Forconi Obituary	Gori, T.; Jung, F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	68	4	331	332	2018	1,914	10.3233/CH-189902	BIFTM
17	Generation of a human induced pluripotent stem cell line (BIHi002-A) from a patient with infantile CLCN7--related autosomal recessive osteopetrosis	Hennig, A. F.; Rössler, U; Michalski, F; v.d.Hagen, M; Gossen, M; Kornak, U; Stachelscheid, H.	Stem Cell Research					2018	3,902	10.1016/j.jscr.2018.101367	BIFTM
18	Comparison of random and gradient amino functionalized poly(2-oxazoline)s: Can the transfection efficiency be tuned by the macromolecular structure?	Hertz D., Leiske M.N., Wloka T., Traeger A., Hartlieb M., Kessels M.M., Schubert S., Qualmann B., Schubert U.S.	Journal of Polymer Science, Part A: Polymer Chemistry	56	12	1210	1224	2018	2,588	10.1002/pola.29000	BIFTM
19	Albumin solder covalently bound to a polymer membrane: New approach to improve binding strength in laser tissue soldering in-vitro	Hiebl, B.; Ascher, L.; Luetzow, K.; Kratz, K.; Gruber, C.; Mrowietz, C.; Nehring, M. E.; Lendlein, A.; Franke, R-P; Jung, F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	01/02	317	326	2018	1,914	10.3233/CH-189108	BIFTM
20	Tumor targeting with pH-responsive poly(2-oxazoline)-based nanogels for metronomic doxorubicin treatment	Hoelzer D., Leiske M.N., Hartlieb M., Bus T., Pretzel D., Hoepfner S., Kempe K., Thierbach R., Schubert U.S.	Oncotarget	9	32	22316	22331	2018	Scopus	10.18632/oncotarget.24806	BIFTM
21	Temperature-induced evolution of microstructures on poly(ethylene-co(vinyl acetate)) substrates switches their underwater wettability	Jiang, Y; Mansfeld, U; Fang, L; Kratz, K; Lendlein, A.	Materials and Design	163		107530		2019	4,525	10.1016/j.matdes.2018.12.002	BIFTM
22	AL Copley Best Paper Prize 2017	Jung, Friedrich; Connes, Philippe; Lehmann, Christian	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	68	4	333	334	2018	1,914	10.3233/CH-189901	BIFTM
23	In memory of Prof. Dr. Holger Schmid-Schönbein	Jung, Friedrich; Franke, Ralf-Peter	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	68		1	3	2018	1,914	10.3233/CH-189900	BIFTM
24	Turning fibroblasts into cardiomyocytes: technological review of cardiac transdifferentiation strategies	Klose, Kirstin; Gossen, Manfred; Stamm, Christof	FASAB JOURNAL	33	1	49	70	2019	5,595	10.1096/fj.201800712R	BIFTM
25	Einfluss von Deformations- und Separationstemperatur auf das Formgedächtnisverhalten von polymeren Mikroquadern	Kratz, K; Liu, Y; Rudolph, T; Lendlein, A.	Chemie Ingenieur Technik	90	9	1331	1332	2018	1,1	10.1002/cite.201855431	BIFTM
26	Influence of different surface treatments of poly(n-butyl acrylate) networks on fibroblasts adhesion, morphology and viability	Krueger-Genge, A.; Braune, S.; Walter, M.; Krengel, M.; Kratz, K.; Kuepper, J. H.; Lendlein, A.; Jung, F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	01/02	305	316	2018	1,914	10.3233/CH-189130	BIFTM
27	Evidence for cytostatic effect of cyclophosphamide on human vein endothelial cells in cancer therapy: Preliminary in vitro results	Krueger-Genge, A.; Steinbrecht, S.; Kuepper, J-H; Lendlein, A.; Jung, F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	01/02	267	276	2018	1,914	10.3233/CH-189125	BIFTM
28	Editorial on the occasion of the 70th birthday of Prof. Dr. Ing. Friedrich Jung	Krueger-Genge, Anne; Braune, Steffen	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	01/02	1	2	2018	1,914	10.3233/CH-189100	BIFTM
29	Endothelial cell migration, adhesion, and proliferation on different polymeric substrates	Krueger-Genge, Anne; Dietze, S.; Yan, Wan; Liu, Yi; Fang, Liang; Kratz, Karl; Lendlein, Andreas; Jung, Friedrich	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION					2018	1,914	10.3233/CH-189317	BIFTM
30	Comparison of two substrate materials used as negative control in endothelialization studies: Glass versus polymeric tissue culture plate	Krueger-Genge, Anne; Schulz, Christian; Kratz, Karl; Lendlein, Andreas; Jung, Friedrich	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	3	437	445	2018	1,914	10.3233/CH-189904	BIFTM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
31	Effects of extracts prepared from modified porous poly(ether imide) microparticulate absorbers on cytotoxicity, macrophage differentiation and proinflammatory behavior of human monocytic (THP-1) cells	Kumar, Reddi K.; Heuchel, Matthias; Kratz, Karl; Lendlein, Andreas; Jankowski, Joachim; Tetali, Sarada D.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	69	01/02	175	185	2018	1,914	10.3233/CH-189112	BIFTM
32	Fabrication of reprogrammable shape-memory polymer actuators for robotics	Lendlein, Andreas	SCIENCE ROBOTICS	3	18			2018	ISI list	10.1126/scirobotics.aat9090	BIFTM
33	Smart Materials	Lendlein, Andreas; Feng, Yujun; Grijpma, Dirk W.; Zhao, Yuanjin	CHEMPHYSICHEM	19	16	1938	1940	2018	2,947	10.1002/cphc.201800578	BIFTM
34	Perfluorophenylazide functionalization of electrospun poly(para-dioxanone)	Lützwow, Karola; Hommes-Schattmann, Paul J.; Neffe, Axel T.; Ahmad, Bilal; Williams, Gareth R.; Lendlein, Andreas	POLYMERS FOR ADVANCED TECHNOLOGIES					2018	2,137	10.1002/pat.4331	BIFTM
35	The influence of pH on the molecular degradation mechanism of PLGA	Machatschek, R; Schulz, B; Lendlein, A.	MRS Advances	3	63	3883	3889	2018	ISI list	10.1557/adv.2018.602	BIFTM
36	Langmuir monolayers as tools to study biodegradable polymer implant materials	Machatschek, Rainhard; Schulz, Burkhard; Lendlein, Andreas	MACROMOLECULAR RAPID COMMUNICATIONS	40	1			2018	4,441	10.1002/marc.201800611	BIFTM
37	Polyethyleneimine and poly(ethylene glycol) functionalized oligoester based polycationic micelles,	Mazurek-Budzynska, Magdalena; Behl, Marc; Balk, Maria; Lendlein, Andreas	MRS ADVANCES	3	50	3033	3040	2018	ISI list	10.1557/adv.2018.407	BIFTM
38	Understanding the elusive protein corona of thermoresponsive nanogels	Miceli, E; Kurpka, B; Rosenbauer, S; Osorio Blanco, E. R; Theune, L. E; Kar, M; Weise, C; Mosbach, S; Freund, C; Calderón, M.	Nanomedicine	13	20			2018	5,005	10.2217/nmm-2018-0217	BIFTM
39	Semi-interpenetrated, dendritic, dual-responsive nanogels with cytochrome c corona induce controlled apoptosis in HeLa cells	Miceli, Enrico; Wedepohl, Stefanie; Osorio Blanco, Ernesto Rafael; Rimondino, Guido Noé; Martinelli, Marisa; Strumia, Miriam; Molina, Maria; Kar, Mrityunjy; Calderón, Marcelo	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS	130		115	122	2018	4,491	10.1016/j.ejpb.2018.06.023	BIFTM
40	Evaluation of Laser-Doppler-Fluxmetry for the diagnosis of microcirculatory disorders	Mrowietz, C; Franke, R.P; Pindur, G; Sternitzky, R; Jung, F, Wolf, U.	Clinical Hemorheology and Microcirculation					2018	1,914	10.3233/CH-189402	BIFTM
41	Enhancement of human induced pluripotent stem cells adhesion through multilayer coating,	Nie, Yan, Wang, Weiwei; Xu, Xun; Zou, Jie; Bhuvanesh, Tanga; Schulz, Burkhard; Ma, Nan; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION					2018	1,914	10.3233/CH-189318	BIFTM
42	Charge and hydration structure of dendritic polyelectrolytes: molecular simulations of polyglycerol sulphate	Nikam, Rohit; Xu, Xiao; Ballauff, Matthias; Kanduc, Matej and Dzubiell, Joachim	SOFT MATTER	14		4300	4310	2018	3,709	10.1039/c8sm00714d	BIFTM
43	Synthesis of well-defined dihydroxy telechelics by (co) polymerization of morpholine-2,5-diones catalyzed by Sn(IV) alkoxide	Peng, Xingzhou; Behl, Marc; Lendlein, Andreas	MACROMOLECULAR BIOSCIENCE	18	12			2018	3,392	10.1002/mabi.201800257	BIFTM
44	Sequential alkyne-azide cycloadditions for functionalized gelatin hydrogel formation	Piluso, Susanna; Vukicevic, Radovan; Noechel, Ulrich; Braune, Steffen; Lendlein, Andreas; Neffe, Axel T.	EUROPEAN POLYMER JOURNAL	100		77	85	2018	3,741	10.1016/j.eurpolymj.2018.01.017	BIFTM
45	Interaction of human serum albumin with dendritic polyglycerol sulfate: Rationalizing the thermodynamics of binding	Ran, Qidi; Xu, Xiao; Dey, Pradip; Yu, Shun; Lu, Yan; Dzubiella, Joachim; Haag, Rainer; Ballauff, Matthias;	JOURNAL OF CHEMICAL PHYSICS	149		163324		2018	2,843	10.1063/1.5030601	BIFTM
46	Thermodynamics of the Binding of Lysozyme to a Dendritic Polyelectrolyte: Electrostatics Versus Hydration	Ran, Qidi; Xu, Xiao; Dzubiella, Joachim; Haag, Rainer, Ballauff, Matthias	ACS OMEGA	3		9086	9095	2018	Scopus	10.1021/acsomega.8b01493	BIFTM
47	Thermally-induced actuation of magnetic nanocomposites based on oligo(ω -pentadecalactone) and covalently integrated magnetic nanoparticles	Razzaq, M. Y; Behl, M; Lendlein, A.	MRS Advances	3	63	3783	3791	2018	ISI list	10.1557/adv.2018.613	BIFTM
48	Shape-memory polymer medical devices	Razzaq, M. Y; Reinhaller, M; Schröder, M; Wischke, C; Lendlein, A.	in: Encyclopedia of Biomedical Engineering , editor: R. Narayan, Reference Module in Biomedical Sciences, Amsterdam, Oxford, Cambridge	1		394	405	2019	Scopus	10.1016/B978-0-12-801238-3.11041-4	BIFTM
49	Shear-induced platelet adherence and activation in an in-vitro dynamic multiwell-plate system	Reinhaller, M; Bäckemo-Johansson, J; Braune, S; Al-Hindwan, H. S. A; Lendlein, A; Jung, F.	Clinical Hemorheology and Microcirculation					2018	1,914	10.3233/CH-189410	BIFTM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
50	Remote ischemic preconditioning of the heart: Combining lower limb ischemia and electronic stimulation of the gastrocnemius muscle	Reinthal, Markus; Jung, Friedrich; Empen, K	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION					2018	1,914	10.3233/CH-189303	BIFTM
51	Revival of transcatheter PFO closure: A meta-analysis of randomized controlled trials - impact of shunt size and age	Reinthal, Markus; Ozga, Ann-Kathrin; Sinning, David; Curio, Jonathan; Al-Hindwan, Haitham S.; Johansson, Johan Baeckemo; Jung, Friedrich; Lendlein, Andreas; Rauch, Geraldine; Landmesser, Ulf	AMERICAN HEART JOURNAL	201		95	102	2018	4,171	10.1016/j.ahj.2018.03.025	BIFTM
52	Interplay Between Stiffness and Degradation of Architected Gelatin Hydrogels Leads to Differential Modulation of Chondrogenesis In Vitro and In Vivo	Sarem, Melika; Arya, Neha; Heizmann, Miriam; Neffe, Axel T.; Barbero, Andrea; Gebauer, Tim P.; Martin, Ivan; Lendlein, Andreas; Shastri, V. Shastri	ACTA BIOMATERIALIA	7	4	1693	1701	2018	6,383	10.1016/j.actbio.2018.01.025	BIFTM
53	Hyperstimulation of CaSR in human MSCs by biomimetic apatite inhibits endochondral ossification via temporal down-regulation of PTH1R	Sarem, Melika; Heizmann, Miriam; Barbero, Andrea; Martin, Ivan; Shastri, V. Prasad	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	115	27	E6135	E6144	2018	9,504	10.1073/pnas.1805159115	BIFTM
54	Magnetocardiography Scoring System to Predict the Presence of Obstructive Coronary Artery Disease	Shin, E.-S.; Park, S. G.; Saleh, A.; Lam, Y.-Y.; Bhak, J.; Jung, Friedrich; Morita, S.; Brachmann, J.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION					2018	1,914	10.3233/CH-189301	BIFTM
55	Metabolic activity testing can underestimate acute drug cytotoxicity as revealed by HepG2 cell clones overexpressing cytochrome P450 2C19 and 3A4,	Steinbrecht, S; König, R; Schmidtke, K.-U; Herzog, N; Scheibner, K; Krüger-Genge, A; Jung, F; Kammerer, S; Küpper, J.-H.	Toxicology	412		37	47	2018	3,265	10.1016/j.tox.2018.11.008	BIFTM
56	A multifunctional multimaterial system for on-demand protein release	Tuncaboylu, Deniz Ceylan; Friess, Fabian; Wischke, Christian; Lendlein, Andreas	JOURNAL OF CONTROLLED RELEASE	284		240	247	2018	7,877	10.1016/j.jconrel.2018.06.022	BIFTM
57	White-Light Supercontinuum Laser-Based Multiple Wavelength Excitation for TCSPC-FLIM of Cutaneous Nanocarrier Uptake	Volz, Pierre; Brodwolf, Robert; Zoschke, Christian; Haag, Rainer; Schaefer-Korting, Monika; Alexiev, Ulrike	ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	232	05/06	671	688	2018	1,144	10.1515/zpch-2017-1050	BIFTM
58	Reprogrammable, Magnetically Controlled Polymeric Nanocomposite Actuators	Wang, Li; Razzaq, Muhammad Y.; Rudolph, Tobias; Heuchel, Matthias; Nöchel, Ulrich; Mansfeld, Ulrich; Jiang, Yi; Gould, Oliver E. C.; Behl, Marc; Kratz, Karl; Lendlein, Andreas	MATERIALS HORIZONS	5	5	861	867	2018	13,183	10.1039/C8MH00266E	BIFTM
59	Modulating human mesenchymal stem cells using poly(n-butyl acrylate) networks in vitro with elasticity matching human arteries	Wang, W; Xu, X; Lie, Z; Kratz, K; Ma, N; Lendlein, A.	Clinical Hemorheology and Microcirculation					2018	1,914	10.3233/CH-189418	BIFTM
60	Surface immobilization strategies for tyrosinase as biocatalyst applicable to polymer network synthesis	Wischke, C; Bähr, E; Racheva, M; Heuchel, M; Weigel, T; Lendlein, T.	MRS Advances	3	63	3875	3881	2018	ISI list	10.1557/adv.2018.630	BIFTM
61	Tyrosinase als Biokatalysator: Synthese von Hydrogelen und Oberflächenfunktionalisierung	Wischke, C; Bähr, E; Racheva, M; Lendlein, A.	Chemie Ingenieur Technik	90	9	1292	1292	2018	1,1	10.1002/cite.201855348	BIFTM
62	Liposomal Treatment of Cancer Cells Modulates Uptake Pathway of Polymeric Nanoparticles by Altering Membrane Stiffness	Xiang, Shengnan; Sarem, Melika; Shah, Samveg; Shastri, V. Prasad	SMALL	14	14	1704245		2018	9.598	10.1002/smll.201704245	BIFTM
63	Counterion-Release Entropy Governs the Inhibition of Serum Proteins by Polyelectrolyte Drugs	Xu, Xiao; Ran, Qidi; Dey, Pradip; Nikam, Rohit; Haag, Rainer; Ballauff, Matthias; Dzubiell, Joachim	BIOMACROMOLECULES	19		409	416	2018	5,738	10.1021/acs.biomac.7b01499	BIFTM
64	Investigating the roles of crystallizable and glassy switching segments within multiblock copolymer shape-memory materials	Yan, Wan; Fang, Liang; Nöchel, Ulrich; Gould, Oliver E. C.; Behl, Marc; Kratz, Karl; Lendlein, Andreas	MRS ADVANCES	3	63	3742	3749	2018	ISI list	10.1557/adv.2018.590	BIFTM
65	Reversible Actuation of Thermoplastic Multiblock Copolymers with Overlapping Thermal Transitions of Crystalline and Glassy Domains	Yan, Wan; Rudolph, Tobias; Noechel, Ulrich; Gould, Oliver; Behl, Marc; Kratz, Karl; Lendlein, Andreas	MACROMOLECULES	51	12	4624	4632	2018	5,914	10.1021/acs.macromol.8b00322	BIFTM
66	Stability of human serum albumin structure upon toxin uptake explored by small angle neutron scattering	Yu, S; Kent, B.; Jafta, C. J.; Petzold, A.; Radulescu, A.; Schuchardt, M.; Tölle, M.; van der Giet, M.; Zidek, W.; Ballauff, M.	Polymer	141		175	183	2018	3,483	10.1016/j.polymer.2018.02.060	BIFTM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
67	Evaluation of human mesenchymal stem cell senescence, differentiation and secretion behavior cultured on polycarbonate cell culture inserts	Zou, Jie; Wang, Weiwei; Kratz, Karl; Xu, Xun; Nie, Yan; Ma, Nan; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION					2018	1,914	10.3233/CH-189322	BIFTM

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
1	Estimation of Suspended Matter, Organic Carbon and Chlorophyll-a Concentrations from Particle Size and Refractive Index Distributions	Agagliate, J.; Roettgers, .; Heymann, K.; McKee, David	Applied Sciences-Basel	8	12	2676		2018	1,689		PACES II
2	Evaluation of a flow cytometry method to determine size and real refractive index distributions in natural marine particle populations	Agagliate, Jacopo; Roettgers, Ruediger; Twardowski, Michael S.; McKee, David	APPLIED OPTICS	57	7	1705	1716	2018	1,791	10.1364/AO.57.001705	PACES II
3	Influence of River-Induced Fronts on Hydrocarbon Transport: A Multiplatform Observational Study	Androulidakis, Yannis; Kourafalou, Vassiliki; Oezgoekmen, Tamay; Garcia-Pineda, Oscar; Lund, Bjoern; Le Henaff, Matthieu; Hu, Chuanmin; Haus, Brian K.; Novelli, Guillaume; Guigand, Cedric; Kang, HeeSook; Hole, Lars; Horstmann, Jochen	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	123	5	3259	3285	2018	2,711	10.1029/2017JC013514	PACES II
4	Environmental occurrence and hazard of organic UV stabilizers and UV filters in the sediment of European North and Baltic Seas	Apel C., Joerss H., Ebinghaus R.	Chemosphere	212		254	261	2018	Scopus	10.1016/j.chemosphere.2018.08.105	PACES II
5	Environmental occurrence and distribution of organic UV stabilizers and UV filters in the sediment of Chinese Bohai and Yellow Seas	Apel, Christina; Tang, Jianhui; Ebinghaus, Ralf	ENVIRONMENTAL POLLUTION	235		85	94	2018	4,358	10.1016/j.envpol.2017.12.051	PACES II
6	Marine environmental vulnerability and cumulative risk profiles to support ecosystem-based adaptive maritime spatial planning	Aps. R., ..., Cornier, R.	ICES Journal of Marine Science	75	7	2488	2500	2018	2,906		PACES II
7	Implementation of different big-leaf canopy reduction functions in the Biogenic Emission Inventory System (BEIS) and their impact on concentrations of oxidized nitrogen species in northern Europe	Arndt J.A., Aulinger A., Matthias V.	Atmospheric Environment	191		302	311	2018	Scopus	10.1016/j.atmosenv.2018.07.035	PACES II
8	Climate based multi-year predictions of the barents sea cod stock	Arthun, M., ..., Schrum, C.	PLoS ONE	13	10			2018	2,766		PACES II
9	Seasonal ozone vertical profiles over North America using AQMEII3 group of air quality models: model inter-comparison and stratospheric intrusions	Astitha, M. ..., Bieser, J., ...	Atmospheric Chemistry and Physics	18	19	13925	13945	2018	Scopus		PACES II
10	Implementing Sustainably Managed Fisheries Using Ecological Risk Assessment and Bowtie Analysis	Astles, KL, ..., Cornier, R.	Sustainability	10	10	3659		2018	2,075		PACES II
11	Impact of large-scale circulation changes in the North Atlantic sector on the current and future Mediterranean winter hydroclimate	Barcikowska, Monika J.; Kapnick, Sarah B.; Feser, Frauke	CLIMATE DYNAMICS	50	05/06	2039	2059	2018	3,774	10.1007/s00382-017-3735-5	PACES II
12	Euro-Atlantic winter storminess and precipitation extremes under 1.5 degrees C vs. 2 degrees C warming scenarios	Barcikowska, Monika J.; Weaver, Scott J.; Feser, Frauke; Russo, Simone; Schenk, Frederik; Stone, Daithi A.; Wehner, Michael F.; Zahn, Matthias	EARTH SYSTEM DYNAMICS	9	2	679	699	2018	3,769	10.5194/esd-9-679-2018	PACES II
13	Simultaneous Regional Detection of Land-Use Changes and Elevated GHG Levels: The Case of Spring Precipitation in Tropical South America	Barkhordarian, Armineh; von Storch, Hans; Behrangi, Ali; Loikith, Paul C.; Mechoso, Carlos R.; Detzer, Judah	GEOPHYSICAL RESEARCH LETTERS	45	12	6262	6271	2018	4,339	10.1029/2018GL078041	PACES II
14	Observed warming over northern South America has an anthropogenic origin	Barkhordarian, Armineh; von Storch, Hans; Zorita, Eduardo; Loikith, Paul C.; Mechoso, Carlos R.	CLIMATE DYNAMICS	51	05/06	1901	1914	2018	3,774	10.1007/s00382-017-3988-z	PACES II
15	Machine Learning Regression Approaches for Colored Dissolved Organic Matter (CDOM) Retrieval with S2-MSI and S3-OLCI Simulated Data	Belen Ruescas, Ana; Hieronymi, Martin; Mateo-Garcia, Gonzalo; Koponen, Sampsa; Kallio, Kari; Camps-Valls, Gustau	REMOTE SENSING	10	5			2018	3,406	10.3390/rs10050786	PACES II
16	Invasive competition with Fokker-Planck diffusion and noise	Bengfort, Michael; Siekmann, Ivo; Malchow, Horst	ECOLOGICAL COMPLEXITY	34		134	138	2018	1,634	10.1016/j.ecocom.2017.09.001	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
17	Spatial glyphosate and AMPA redistribution on the soil surface driven by sediment transport processes - A flume experiment	Bento, Celia P. M.; Commelin, Meindert C.; Baartman, Jantiene E. M.; Yang, Xiaomei; Peters, Piet; Mol, Hans G. J.; Ritsema, Coen J.; Geissen, Violette	ENVIRONMENTAL POLLUTION	234		1011	1020	2018	4,358	10.1016/j.envpol.2017.12.003	PACES II
18	Comparing a 41-year model hindcast with decades of wave measurements from the Baltic Sea	Bjorkqvist, Jan-Victor; Lukas, Ingvar; Alari, Victor; van Vledder, Gerbrant Ph.; Hulst, Sander; Pettersson, Heidi; Behrens, Arno; Mannik, Aarne	OCEAN ENGINEERING	152		57	71	2018	2,214	10.1016/j.oceaneng.2018.01.048	PACES II
19	Mapping mud content and median grain-size of North Sea sediments - A geostatistical approach	Bockelmann, Frank-Detlef; Puls, Walter; Kleeberg, Ulrike; Mueller, Dagmar; Emeis, Kay-Christian	MARINE GEOLOGY	397		60	71	2018	2,364	10.1016/j.margeo.2017.11.003	PACES II
20	Contribution of future wide-swath altimetry missions to ocean analysis and forecasting	Bonaduce, A., ...	Ocean Science	14	6	1405	1421	2018	Scopus		PACES II
21	Development of a versatile analytical protocol for the comprehensive determination of the elemental composition of smartphone compartments on the example of printed circuit boards	Bookhagen, B.; Obermaier, W.; Opper, C.; Koeberl, C.; Hofmann, T.; Prohaska, T.; Irrgeher, J.	ANALYTICAL METHODS	10	31	3864	3871	2018	2,073	10.1039/c8ay01192c	PACES II
22	Lyrodus mersinensis sp. nov. (Bivalvia: Teredinidae) another cryptic species in the Lyrodus pedicellatus (Quatrefages, 1849) complex	Borges, Luisa M, Merckelbach, Lucas M.	Zootax	4442	3	441	457	2018	0,931	10.11646/zootaxa.4442.3.6.	PACES II
23	Advancing integrated research on European river-sea systems: the DANUBIUS-RI project	Bradley, C., ..., Friedrich, J., ...	International Journal of Water Resources	34	6	889	899	2018	1,895	10.1080/7900627.2017.1399107	PACES II
24	Anthropogenic changes of nitrogen loads in a small river: external nutrient sources vs. internal turnover processes	Brase, Lisa; Sanders, Tina; Daehnke, Kirstin	ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES	54	2	168	184	2018	1,527	10.1080/10256016.2018.1428580	PACES II
25	Fishing for human perceptions in coastal and island marine resource use systems	Breckwoldt, A.; Ratter, B.M.W.; Wang, W.	Frontiers in Marine Science	4 (FEB)				2018	Scopus	10.3389/fmars.2018.00062	PACES II
26	Improved Seasonal Prediction of European Summer Temperatures With New Five-Layer Soil-Hydrology Scheme	Bunzel, Felix; Mueller, Wolfgang A.; Dobrynin, Mikhail; Froehlich, Kristina; Hagemann, Stefan; Pohlmann, Holger; Stacke, Tobias; Baehr, Johanna	GEOPHYSICAL RESEARCH LETTERS	45	1	346	353	2018	4,339	10.1002/2017GL076204	PACES II
27	A climatology of the annual cycle of river discharges into the Brazilian continental shelves: from seasonal to interannual variability	Carvalho Oliveira, Julianna; Aguiar, Wilton; Cirano, Mauro; Genz, Fernando; de Amorim, Fabiola Negreiros	ENVIRONMENTAL EARTH SCIENCES	77	5			2018	1,435	10.1007/s12665-018-7349-y	PACES II
28	Wave modelling in Coastal and inner seas	Cavaleri, L., ... Staneva, J. ...	Progress in Oceanography	167		164	233	2018	4,27	10.1002/2017GL076204	PACES II
29	Estuarine residual flow induced by eddy viscosity-shear covariance: Dependence on axial bottom slope tidal intensity and constituents	Chen W., de Swart H.E.	Continental Shelf Research	167		1	13	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051138453&doi=10.1016%2fj.csr.2018.07.011&partnerID=40&md5=8311959e1dab0a97d125a61d12a2177d	PACES II
30	Beta diversity changes in estuarine fish communities due to environmental change	Chin, A.T.M.; Linke, J.; Boudreau, M.; Theriault, M. Courtenay, S.C.; Cornier, R.; Fortin, M.	Marine Ecology progress Series	603		161	173	2018	Scopus	10.1016/j.scitotenv.2018.08.168	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
31	Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study	Christiansen, Bo; Alvarez-Castro, Carmen; Christidis, Nikolaos; Ciavarella, Andrew; Colfescu, Ioana; Cowan, Tim; Eden, Jonathan; Hauser, Mathias; Hempelmann, Nils; Klehmet, Katharina; Lott, Fraser; Nangini, Cathy; van Oldenborgh, Geert Jan; Orth, Rene; Stott, Peter; Tett, Simon; Vautard, Robert; Wilcox, Laura; Yiou, Pascal	JOURNAL OF CLIMATE	31	9	3387	3410	2018	4,661	10.1175/JCLI-D-17-0589.1	PACES II
32	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean	Coppola, E., Sobolowski, S., Pichelli, E., ... B. Rockel et al.	CLIMATE DYNAMICS					2018	3,774	10.1007/s00382-018-4521-8	PACES II
33	Putting on a bow-tie to sort out who does what and why in the complex arena of marine policy and management	Cornier, R.; Elliott, M.; Rice, J.	Science of the Total Environment	648		293	305	2018	Scopus	10.1016/j.scitotenv.2018.08.168	PACES II
34	The science-policy interface of risk-based freshwater and marine managementsystems: From concepts to practical tools	Cornier, R.; Stelzenmüller, V.; Creed, I.F.; Igras, J.; Rambo, H.; Callis, U.; Johnson, L.B.	Journal of Environmental Management	226		340	346	2018	Scopus	10.1016/j.jenvman.2018.08.053	PACES II
35	Carbonaceous components and major ions in PM10 from the amazonian basin	Custodio, D.; Alves, C.; Jomoica, Y.; de Castro Vasconcellos, P.	Atmospheric research	215		75	84	2018	Scopus	10.1016/j.atmosres.2018.08.011	PACES II
36	Impact of atmospheric stability on X-band and C-band synthetic aperture radar imagery of offshore windpark wakes	Djath, B.; Schulz-Stellenfleth, J.; Canadillas, B.	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	10	4			2018	1,337	10.1063/1.5020437	PACES II
37	The regional framing of climate change: towards a place-based perspective on regional climate change perception in north Frisia	Doering, Martin; Ratter, Beate	JOURNAL OF COASTAL CONSERVATION	22	1	131	143	2018	1,16	10.1007/s11852-016-0478-0	PACES II
38	Coastal landscapes: The relevance of researching coastscapes for managing coastal change in North Frisia	Döring M., Ratter B.M.W.	Area	50	2	169	176	2018	Scopus	10.1111/area.12382	PACES II
39	Biogeochemical processes and turnover rates in the Northern Benguela Upwelling system	Emeis, K., ..., Neumann, A., ...	Journal of Marine Systems	198	SI	63	80	2018	2,506	10.1016/j.jmarsys.2017.10.001	PACES II
40	Awareness of sea-level response under climate change on the coast of Ghana	Evadzi, Prosper I. K.; Scheffran, Juergen; Zorita, Eduardo; Huenicke, Birgit	JOURNAL OF COASTAL CONSERVATION	22	1	183	197	2018	1,16	10.1007/s11852-017-0569-6	PACES II
41	Bio-Optical Characterization and Ocean Colour Inversion in the Eastern Lagoon of New Caledonia, South Tropical Pacific	Favareto, Luciane Rafeale; Rudorff, Natalia; Kappel, Milton; Frouin, Robert; Roettgers, Ruediger; Doxaran, David; Murakami, Hiroshi; Dupouy, Cecile	REMOTE SENSING	10	7			2018	3,406	10.3390/rs10071043	PACES II
42	Non-Redfieldian Dynamics Explain Seasonal pCO ₂ Drawdown in the Gulf of Bothnia	Fransner, Filippa; Gustafsson, Erik; Tedesco, Letizia; Vichi, Marcello; Hordoïr, Robinson; Roquet, Fabien; Spilling, Kristian; Kuznetsov, Ivan; Eilola, Kari; Morth, Carl-Magnus; Humborg, Christoph; Nycander, Jonas	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	123	1	166	188	2018	2,711	10.1002/2017JC013019	PACES II
43	Occurrence of carbazoles in dust and air samples from different locations in Germany	Fromme H., Mi W., Lahrz T., Kraft M., Aschenbrenner B., Bruessow B., Ebinghaus R., Xie Z., Fembacher L.	Science of the Total Environment	610-611		412	418	2018	Scopus	10.1016/j.scitotenv.2017.08.070	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
44	Two-scale multi-model ensemble: is a hybrid ensemble of opportunity telling us more?	Galmarini, Stefano; Kioutsioukis, Ioannis; Solazzo, Efsio; Alyuz, Ummugulsum; Balzarini, Alessandra; Bellasio, Roberto; Benedictow, Anna M. K.; Bianconi, Roberto; Bieser, Johannes; Brandt, Joergen; Christensen, Jesper H.; Colette, Augustin; Curci, Gabriele; Davila, Yanko; Dong, Xinyi; Flemming, Johannes; Francis, Xavier; Fraser, Andrea; Fu, Joshua; Henze, Daven K.; Hogrefe, Christian; Im, Ulas; Garcia Vivanco, Marta; Jimenez-Guerrero, Pedro; Jonson, Jan Eiof; Kitwiroon, Nutthida; Manders, Astrid; Mathur, Rohit; Palacios-Pena, Laura; Pirovano, Guido; Pozzoli, Luca; Prank, Marie; Schultz, Martin; Sokhi, Rajeev S.; Sudo, Kengo; Tuccella, Paolo; Takemura, Toshihiko; Sekiya, Takashi; Unal, Alper	ATMOSPHERIC CHEMISTRY AND PHYSICS	18	12	8727	8744	2018	5,509	10.5194/acp-18-8727-2018	PACES II
45	Identification of extreme storm surges with high-impact potential along the German North Sea coastline	Ganske A., Fery N., Gaslikova L., Grabemann I., Weisse R., Tinz B.	Ocean Dynamics	68	10	1371	1382	2018	Scopus	10.1007/s10236-018-1190-4	PACES II
46	Glacial-interglacial changes and Holocene variations in Arabian Sea denitrification	Gaye, Birgit; Boell, Anna; Segsneider, Joachim; Burdanowitz, Nicole; Emels, Kay-Christian; Ramaswamy, Venkatasubramani; Lahajnar, Niko; Lueckge, Andreas; Rixen, Tim	BIOGEOSCIENCES	15	2	507	527	2018	3,441	10.5194/bg-15-507-2018	PACES II
47	Characterizing uncertainties in the ESA CCI land cover map of the epoch 2010 and their impacts on MPI-ESM climate simulations	Georgiievski, g.; Hagemann; S.	Theoretical Applied Climatology						Scopus	10.1007/s00704-018-2675-2	PACES II
48	Managing coastal risks at the Wadden Sea: a societal perspective	Gerkenmeier B., Ratter B.M.W., Vollmer M., Walsh C.	Disaster Prevention and Management: An International Journal	27	1	15	27	2018	Scopus	10.1108/DPM-04-2017-0074	PACES II
49	Multi-risk, multi-scale and multi-stakeholder - the contribution of a bow-tie analysis for risk management in the trilateral Wadden Sea Region	Gerkenmeier, Birgit; Ratter, Beate M. W.	JOURNAL OF COASTAL CONSERVATION	22	1	145	156	2018	1,16	10.1007/s11852-016-0454-8	PACES II
50	Governing coastal risks as a social process-Facilitating integrative risk management by enhanced multi-stakeholder collaboration	Gerkenmeiera, Birgit; Ratter, Beate M. W.	ENVIRONMENTAL SCIENCE & POLICY	80		144	151	2018	3,826	10.1016/j.envsci.2017.11.011	PACES II
51	Imaging spectrometry of inland and coastal waters. State of the art, achievements and perspectives	Giardino, C.; brando, V.E.; Gege, P.; Pinnel, N.; Hochberg E.; Knaeps, E.; ... Dekker, A.	Surveys in Geophysics			1	29	2018	Scopus	10.1007/s10712-018-9476-0	PACES II
52	Retrieval of Water Constituents from Hyperspectral In-Situ Measurements under Variable Cloud CoverA Case Study at Lake Stechlin (Germany)	Goeritz, Anna; Berger, Stella A.; Gege, Peter; Grossart, Hans-Peter; Nejtgaard, Jens C.; Riedel, Sebastian; Roettgers, Ruediger; Utschig, Christian	REMOTE SENSING	10	2			2018	3,406	10.3390/rs10020181	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
53	The potential for dispersant use as a maritime oil spill response measure in German waters	Grote, Matthias; van Bernem, Carlo; Boehme, Birgit; Callies, Ulrich; Calvez, Ivan; Christie, Bernard; Colcomb, Kevin; Damian, Hans-Peter; Farke, Hubert; Graebisch, Carolin; Hunt, Alex; Hofer, Thomas; Knaack, Juergen; Kraus, Uta; Le Floch, Stephane; Le Lann, Gilbert; Leuchs, Heiko; Nagel, Almut; Nies, Hartmut; Nordhausen, Walter; Rauterberg, Jens; Reichenbach, Dirk; Scheiffarth, Gregor; Schwichtenberg, Fabian; Theobald, Norbert; Voss, Joachim; Wahrendorf, Dierk-Steffen	MARINE POLLUTION BULLETIN	129	2	623	632	2018	3,241	10.1016/j.marpolbul.2017.10.050	PACES II
54	Distribution and trajectories of floating and benthic marine macrolitter in the south-eastern North Sea	Gutow, Lars; Ricker, Marcel; Holstein, Jan M.; Dannheim, Jennifer; Stanev, Emil V.; Wolff, Joerg-Olaf	MARINE POLLUTION BULLETIN	131		763	772	2018	3,241	10.1016/j.marpolbul.2018.05.003	PACES II
55	Collective action and agency in Baltic Sea marine spatial planning: Transnational policy coordination in the promotion of regional coherence	Hassler B., Gee K., Gilek M., Luttmann A., Morf A., Saunders F., Stalmokaite I., Strand H., Zaucha J.	Marine Policy	92		138	147	2018	Scopus	10.1016/j.marpol.2018.03.002	PACES II
56	Ocean Colour Remote Sensing in the Laptev Sea	Heim, Birgit, Bennet Juhls, Ekaterina Abramova, Astrid Bracher, Roland Doerffer, Rafael Gonçalves-Araujo, Sebastian Hellman, Alexandra Kraberg, Feodor Martynov, Paul Overduin	Biogeosciences	11	15	4191	4210	2018	Scopus	10.1007/978-3-319-94067-0_6	PACES II
57	Anthropogenic nitrogen deposition alters growth responses of European beech (<i>Fagus sylvatica</i> L.) to climate change	Hess, Carsten; Niemeyer, Thomas; Fichtner, Andreas; Jansen, Kirstin; Kunz, Matthias; Maneke, Moritz; von Wehrden, Henrik; Quante, Markus; Walmsley, David; von Oheimb, Goddert; Haerdtle, Werner	ENVIRONMENTAL POLLUTION	233		92	98	2018	4,358	10.1016/j.envpol.2017.10.024	PACES II
58	Anthropogenic impacts on estuarine oxygen dynamics: A model based evaluation	Holzwarth, I., ..., Wirtz, K.	Oceana Modelling	131		45	61	2018	2,413	10.1016/j.ecss.2018.01.020	PACES II
59	Temporal and Spatial Variations in the Climate Controls of Vegetation Dynamics on the Tibetan Plateau during 1982–2011	Hua T., Wang X.	Advances in Atmospheric Sciences	35	11	1337	1346	2018	Scopus	10.1007/s00376-018-7064-3	PACES II
60	Assessment and economic valuation of air pollution impacts on human health over Europe and the United States as calculated by a multi-model ensemble in the framework of AQMEI13	Im, Ulas; Brandt, Jorgen; Geels, Camilla; Hansen, Kaj Mantzius; Christensen, Jesper Heile; Andersen, Mikael Skou; Solazzo, Efisio; Kioutsioukis, Ioannis; Alyuz, Ummugulsum; Balzarini, Alessandra; Baro, Rocio; Bellasio, Roberto; Bianconi, Roberto; Bieser, Johannes; Colette, Augustin; Curci, Gabriele; Farrow, Aidan; Flemming, Johannes; Fraser, Andrea; Jimenez-Guerrero, Pedro; Kitwiroon, Nutthida; Liang, Ciao-Kai; Nopmongcol, Uarporn; Pirovano, Guido; Pozzoli, Luca; Prank, Marje; Rose, Rebecca; Sokhi, Ranjeet; Tuccella, Paolo; Unal, Alper; Garcia Vivanco, Marta; West, Jason; Yarwood, Greg; Hogrefe, Christian; Galmarini, Stefano	ATMOSPHERIC CHEMISTRY AND PHYSICS	18	8	5967	5989	2018	5,509	10.5194/acp-18-5967-2018	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
61	Influence of anthropogenic emissions and boundary conditions on multi-model simulations of major air pollutants over Europe and North America in the framework of AQMEII3	Im, Ulas; Christensen, Jesper Heile; Geels, Camilla; Hansen, Kaj Mantzius; Brandt, Jorgen; Solazzo, Efisio; Alyuz, Ummugulsum; Balzarini, Alessandra; Baro, Rocio; Bellasio, Roberto; Bianconi, Roberto; Bieser, Johannes; Colette, Augustin; Curci, Gabriele; Farrow, Aidan; Flemming, Johannes; Fraser, Andrea; Jimenez-Guerrero, Pedro; Kitwiroon, Nutthida; Liu, Peng; Nopmongkol, Uarporn; Palacios-Pena, Laura; Pirovano, Guido; Pozzoli, Luca; Prank, Marje; Rose, Rebecca; Sokhi, Ranjeet; Tuccella, Paolo; Unal, Alper; Vivanco, Marta G.; Yarwood, Greg; Hogrefe, Christian; Galmarini, Stefano	ATMOSPHERIC CHEMISTRY AND PHYSICS	18	12	8929	8952	2018	5,509	10.5194/acp-18-8929-2018	PACES II
62	Oxidation kinetics and inverse isotope effect of marine nitrite-oxidizing isolates	Jacob, Juliane; Nowka, Boris; Merten, Veronique; Sanders, Tina; Spieck, Eva; Daehnke, Kirstin	AQUATIC MICROBIAL ECOLOGY	80	3	289	300	2018	2,024	10.3354/ame01859	PACES II
63	A vegetation control on seasonal variations in global atmospheric mercury concentrations	Jiskra, Martin; Sonke, Jeroen E.; Obrist, Daniel; Bieser, Johannes; Ebinghaus, Ralf; Myhre, Cathrine Lund; Pfaffhuber, Katrine Aspmo; Wangberg, Ingvar; Kyllonen, Katriona; Worthy, Doug; Martin, Lynwill G.; Labuschagne, Casper; Mkololo, Thumeke; Ramonet, Michel; Magand, Olivier; Dommergue, Aurelien	NATURE GEOSCIENCE	11	4	244	250	2018	14,391	10.1038/s41561-018-0078-8	PACES II
64	Contribution of atmospheric circulation to recent off-shore sea-level variations in the Baltic Sea and the North Sea	Karabil, Sitar; Zorita, Eduardo; Huenicke, Birgit	EARTH SYSTEM DYNAMICS	9	1	69	90	2018	3,769	10.5194/esd-9-69-2018	PACES II
65	A model-based projection of historical state of a coastal ecosystem: Relevance of phytoplankton stoichiometry	Kerimoglu, Onur; Grosse, Fabian; Kreuz, Markus; Lenhart, Hermann-J.; van Beusekom, Justus E. E.	SCIENCE OF THE TOTAL ENVIRONMENT	639		1311	1323	2018	4,61	10.1016/j.scitotenv.2018.05.215	PACES II
66	Two AMOC states in response to decreasing greenhouse gas concentrations in the coupled climate model MPI-ESM	Klockmann M., Mikolajewicz U., Marotzke J.	Journal of Climate	31	19	7969	7984	2018	Scopus	10.1175/JCLI-D-17-0859.1	PACES II
67	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks	Krinner, G., ... , Hagemann, S.	Geoscientific Model Development	11	12	5027	5049	2018	4,252		PACES II
68	Sediment transport by tropical cyclones recorded in a submarine canyon off Bangladesh	Kudrass, HR, ... , Zhang, W.	Geo-Marine Letters	38	6	481	496	2018	1,733		PACES II
69	Assessing PCB pollution in the Baltic Sea - An equilibrium partitioning based study	Lang, Susann-Cathrin; Mayer, Philipp; Hursthouse, Andrew; Koetke, Danijela; Hand, Ines; Schulz-Bull, Detlef; Witt, Gesine	CHEMOSPHERE	191		886	894	2018	4,427	10.1016/j.chemosphere.2017.10.073	PACES II
70	Governance challenges of marine renewable energy developments in the U.S. – Creating the enabling conditions for successful project development	Lange M., Page G., Cummins V.	Marine Policy	90		37	46	2018	Scopus	10.1016/j.marpol.2018.01.008	PACES II
71	Governance barriers to sustainable energy transitions - Assessing Ireland's capacity towards marine energy futures	Lange, Marcus; O'Hagan, Anne Marie; Devoy, Robert R. N.; Le Tissier, Martin; Cummins, Valerie	ENERGY POLICY	113		623	632	2018	4,039	10.1016/j.enpol.2017.11.020	PACES II
72	Process-level improvements in CMIP5 models and their impact on tropical variability, the Southern Ocean, and monsoons	Lauer, Axel; Jones, Colin; Eyring, Veronika; Evaldsson, Martin; Stefan, Hagemann A.; Makela, Jarmo; Martin, Gill; Roehrig, Romain; Wang, Shiyu	EARTH SYSTEM DYNAMICS	9	1	33	67	2018	3,769	10.5194/esd-9-33-2018	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
73	The role of life cycle processes on phytoplankton spring bloom composition: a modelling study applied to the Gulf of Finland	Lee S., Hofmeister R., Hense I.	Journal of Marine Systems	178		75	85	2018	Scopus	10.1016/j.jmarsys.2017.10.010	PACES II
74	Measurement uncertainties in PSICAM and reflective tube absorption meters	Lefering, I., Röttgers, R., ...	Optics Express	26	19	24384	24402	2018	3,356		PACES II
75	North Sea ecosystem-scale model-based quantification of net primary productivity changes by the benthic filter feeder <i>mytilus edulis</i>	Lemmen, C.	Water	10	11			2018	Scopus		PACES II
76	Modular System for Shelves and Coasts (MOSSCO v1.0) - a flexible and multi-component framework for coupled coastal ocean ecosystem modelling	Lemmen, Carsten; Hofmeister, Richard; Klingbeil, Knut; Nasermoaddeli, M. Hassan; Kerimoglu, Onur; Burchard, Hans; Koesters, Frank; Wirtz, Kai W.	GEOSCIENTIFIC MODEL DEVELOPMENT	11	3	915	935	2018	4,252	10.5194/gmd-11-915-2018	PACES II
77	The homogeneity study of the sea surface temperature data along the coast of the China seas	Li Y., Wang G.S., Fan W.J., Liu K.X., Wang H., Birger T., von Hans S., Feng J.L.	Haiyang Xuebao	40	1	17	28	2018	Scopus	10.3969/j.issn.0253-4193.2018.01.003	PACES II
78	Low-Level Jets Over the Bohai Sea and Yellow Sea: Climatology, Variability, and the Relationship With Regional Atmospheric Circulations	Li, Delei; von Storch, Hans; Yin, Baoshu; Xu, Zhenhua; Qi, Jifeng; Wei, Wei; Guo, Donglin	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	123	10	5240	5260	2018	3,38	10.1029/2017JD027949	PACES II
79	Spatial Distribution and Seasonal Variation of Organophosphate Esters in Air above the Bohai and Yellow Seas, China	Li, Jing; Tang, Jianhui; Mi, Wenyong; Tian, Chongguo; Emeis, Kay-Christian; Ebinghaus, Ralf; Xie, Zhiyong	ENVIRONMENTAL SCIENCE & TECHNOLOGY	52	1	89	97	2018	6,653	10.1021/acs.est.7b03807	PACES II
80	Design scenario analysis for porous substrate photobioreactor assemblies	Li, T., Podola, B., Schultze, L.K.P. et al.	Journal of Applied Phycology			1	14	2018	2,401	10.1007/s10811-018-1700-2	PACES II
81	Construction of a surface air temperature series for Qingdao in China for the period 1899 to 2014	Li, Yan; Tinz, Birger; von Storch, Hans; Wang, Qingyuan; Zhou, Qingliang; Zhu, Yan	EARTH SYSTEM SCIENCE DATA	10	1	643	652	2018	8,792	10.5194/essd-10-643-2018	PACES II
82	Present climate evaluation and added value analysis of dynamically downscaled simulations of CORDEX-east asia	Li, D., ..., Geyer, B.	Journal of Applied Meteorology and Climatology	57	10	2317	2341	2018	2,236		PACES II
83	Attributing differences in the fate of lateral boundary ozone in AQMEII3 models to physical process representations	Liu, P., ..., Bieser, J., ...	Atmospheric Chemistry and Physics	18	23	17157	17175	2018	5,509		PACES II
84	Underway spectrophotometry in the Fram Strait (European Arctic Ocean): a highly resolved chlorophyll a data source for complementing satellite ocean color	Liu, Yangyang; Roettgers, Ruediger; Ramirez-Perez, Marta; Dinter, Tilman; Steinmetz, Francois; Noethig, Eva-Maria; Hellmann, Sebastian; Wiegmann, Sonja; Bracher, Astrid	OPTICS EXPRESS	26	14	A678	A696	2018	3,356	10.1364/OE.26.00A678	PACES II
85	Risk analysis of subsea blowout preventer by mapping GO models into Bayesian networks	Liu, Zengkai; Liu, Yonghong; Wu, Xin Lei; Cai, Baoping	JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES	52		54	65	2018	1,982	10.1016/j.jlp.2018.01.014	PACES II
86	Near-Surface Current Mapping by Shipboard Marine X-Band Radar: A Validation	Lund, Bjorn; Haus, Brian K.; Horstmann, Jochen; Graber, Hans C.; Carrasco, Ruben; Laxague, Nathan J. M.; Novelli, Guillaume; Guigand, Cedric M.; Ozgokmen, Tamay M.	JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	35	5	1077	1090	2018	2,122	10.1175/JTECH-D-17-0154.1	PACES II
87	Responses of summer phytoplankton biomass to changes in top-down forcing: Insights from comparative modelling	Maar, Marie; Butenschon, Momme; Daewel, Ute; Eggert, Anja; Fan, Wei; Hjollo, Solfrid S.; Hufnagl, Marc; Huret, Martin; Ji, Rubao; Lacroix, Genevieve; Peck, Myron A.; Radtke, Hagen; Saille, Sevrine; Sinerchia, Matteo; Skogen, Morten D.; Travers-Trolet, Morgane; Troost, Tineke A.; van de Wolfshaar, Karen	ECOLOGICAL MODELLING	376		54	67	2018	2,507	10.1016/j.ecolmodel.2018.03.003	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
88	Can collective memories shape fish distributions? A test, linking space-time occurrence models and population demographics	Macdonald, Jed I.; Logemann, Kai; Krainski, Elias T.; Sigurdsson, Thorsteinn; Beale, Colin M.; Huse, Geir; Hjollo, Solfrid S.; Marteinsdottir, Gudrun	ECOGRAPHY	41	6	938	957	2018	4,52	10.1111/ecog.03098	PACES II
89	Screening of Pesticide and Biocide Patterns As Risk Drivers in Sediments of Major European River Mouths: Ubiquitous or River Basin-Specific Contamination?	Massei, Riccardo; Busch, Wibke; Wolschke, Hendrik; Schinkel, Lena; Bitsch, Maike; Schulze, Tobias; Krauss, Martin; Brack, Werner	ENVIRONMENTAL SCIENCE & TECHNOLOGY	52	4	2251	2260	2018	6,653	10.1021/acs.est.7b04355	PACES II
90	Modeling emissions for three-dimensional atmospheric chemistry transport models	Matthias, Volker; Arndt, Jan A.; Aulinger, Armin; Bieser, Johannes; van der Gon, Hugo Denier; Kranenburg, Richard; Kuenen, Jeroen; Neumann, Daniel; Pouliot, George; Quante, Markus	JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION	68	8	763	800	2018	1,742	10.1080/10962247.2018.1424057	PACES II
91	Historical trends and the long-term changes of the hydrological cycle components in a Mediterranean river basin	Mentzafou, A.; Wagner, S.; Dimitriou, E.	SCIENCE OF THE TOTAL ENVIRONMENT	636		558	568	2018	4,61	10.1016/j.scitotenv.2018.04.298	PACES II
92	Revisiting the Estimate of the North Sea Air-Sea Flux of CO ₂ in 2001/2002: The Dominant Role of Different Wind Data Products	Meyer, Maybritt; Paetsch, Johannes; Geyer, Beate; Thomas, Helmut	JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES	123	5	1511	1525	2018	3,484	10.1029/2017JG004281	PACES II
93	Rapid aggregation of biofilm-covered microplastics with marine biogenic particles	Michels, Jan; Stippkugel, Angela; Lenz, Mark; Wirtz, Kai; Engel, Anja	PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES	285	1885			2018	4,847	10.1098/rspb.2018.1203	PACES II
94	Predictability of Arctic sea ice on weather time scales	Mohammadi-Aragh, M.; Goessling, H. F.; Losch, M.; Hutter, N.; Jung, T.	SCIENTIFIC REPORTS	8				2018	4,122	10.1038/s41598-018-24660-0	PACES II
95	A model study on the large-scale effect of macrofauna on the suspended sediment concentration in a shallow shelf sea	Nasermoaddeli, M.H.; Lemmen, C.; Stigge, G.; kerimoglu, O.; Burchard, H.; Klingbeil, K.; Koster, K.	Estuarine, Coastal and Shelf Science	211		62	76	2018	Scopus	10.1016/j.ecss.2017.11.002	PACES II
96	The bivalve <i>Lembulus bicuspidatus</i> may enhance denitrification in shelf sediment at the Angola-Benguela Frontal Zone	Neumann, A.; Flohr, A.	AFRICAN JOURNAL OF MARINE SCIENCE	40	1	91	96	2018	0,894	10.2989/1814232X.2018.1437774	PACES II
97	Polycyclic aromatic hydrocarbon patterns in the city of Rio de Janeiro	Oliveira, Rafael Lopes; Custodio, Danilo Jorge; de Rainho, Claudia Ramos; Morais, Erika; Felzenszwalb, Israel; Correa, Sergio Machado; Azevedo, Debora Almeida; Arbilla, Graciela	AIR QUALITY ATMOSPHERE AND HEALTH	11	5	581	590	2018	2,662	10.1007/s11869-018-0566-4	PACES II
98	High-resolution observations in the western Mediterranean Sea: the REP14-MED experiment	Onken, Reiner; Fiekas, Heinz-Volker; Beguery, Laurent; Borrione, Ines; Funk, Andreas; Hemming, Michael; Hernandez-Lasheras, Jaime; Heywood, Karen J.; Kaiser, Jan; Knoll, Michaela; Murre, Baptiste; Oddo, Paolo; Poulain, Pierre-Marie; Queste, Bastien Y.; Russo, Aniello; Shitashima, Kiminori; Siderius, Martin; Kusel, Elizabeth Thorp	OCEAN SCIENCE	14	2	321	335	2018	2,289	10.5194/os-14-321-2018	PACES II
99	Modeling the influence of eutrophication and redox conditions on Mercury cycling at the sediment-water interface in the Berre lagoon	Pakhomova S., Yakushev E., Protchenko E., Rigaud S., Cossa D., Knoery J., Couture R.-M., Radakovitch O., Yakubov S., Krzeminska D., Newton A.	Frontiers in Marine Science	5	AUG	291		2018	Scopus	10.3389/fmars.2018.00291	PACES II
100	Secondary Circulation Asymmetry in a Meandering, Partially Stratified Estuary	Pein, J.; Valle-Levinson, A.; Stanev, E. V.	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	123	3	1670	1683	2018	2,711	10.1002/2016JC012623	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
101	FerryBox Data in the North Sea from 2002 to 2005	Petersen, W., Susanne Reinke, Gisbert Breitbach, Michail Petschatnikov, Henning Wehde and Henrike Thomas	Earth System Science Data	123	3	1729	1734	2018	8,792	10.1002/2016JCO12623	PACES II
102	Competing knowledge systems and adaptability to sea-level rise in The Bahamas	Petzold J., Ratter B.M.W., Holdschlag A.	Area	50	1	91	100	2018	Scopus	10.1111/area.12355	PACES II
103	First in situ evidence of wakes in the far field behind offshore wind farms	Platis, Andreas; Siedersleben, Simon K.; Bange, Jens; Lampert, Astrid; Baerfuss, Konrad; Hankers, Rudolf; Canadillas, Beatriz; Foreman, Richard; Schulz-Stellenfleth, Johannes; Djath, Bughsin; Neumann, Thomas; Emeis, Stefan (!Verwandt! - nicht KB)	SCIENTIFIC REPORTS	8				2018	4,122	10.1038/s41598-018-20389-y	PACES II
104	Dynamic hydrological discharge modelling for coupled climate model simulations of the last glacial cycle: the MPI-DynamicHD model version 3.0	Riddick, T., Hagemann, S., ...	Geoscientific Model Development	11	10	4291	4316	2018	4,252		PACES II
105	Open-channel measurement of denitrification in a large lowland river	Ritz, Stephanie; Daehnke, Kirstin; Fischer, Helmut	AQUATIC SCIENCES	80	1			2018	3,622	10.1007/s00027-017-0560-1	PACES II
106	Modelling feedbacks between human and natural processes in the land system	Robinson, Derek T.; Di Vittorio, Alan; Alexander, Peter; Arneht, Almut; Barton, C. Michael; Brown, Daniel G.; Kettner, Albert; Lemmen, Carsten; O'Neill, Brian C.; Janssen, Marco; Pugh, Thomas A. M.; Rabin, Sam S.; Rounsevell, Mark; Syvitski, James P.; Ullah, Isaac; Verburg, Peter H.	EARTH SYSTEM DYNAMICS	9	2	895	914	2018	3,769	10.5194/esd-9-895-2018	PACES II
107	Distribution of 210Pb and 210Po in the arctic water column during the 2007 sea-ice minimum: Particle export in the ice-covered basins	Roca-Marti, M., ..., Friedrich, J.	Deep-Sea Research Part I: Oceanographic Research Papers	142		94	106	2018	Scopus		PACES II
108	Machine Learning Regression Approaches for Colored Dissolved Organic Matter (CDOM) Retrieval with S2-MSI and S3-OLCI Simulated Data	Ruescas, A., Martin Hieronymi, Gonzalo Mateo-Garcia, Sampsa Koponen, Kari Kallio and Gustau Camps-Valls	remote sensing	10	5	786		2018	3,406	10.3390/rs10050786	PACES II
109	The distribution of sediment and water column nitrification potential in the hyper-turbid Ems estuary	Sanders, Tina; Laanbroek, Hendrikus J.	AQUATIC SCIENCES	80	4			2018	3,622	10.1007/s00027-018-0584-1	PACES II
110	Hot Spots of Nitrification in the Elbe Estuary and Their Impact on Nitrate Regeneration	Sanders, Tina; Schoel, Andreas; Dahnke, Kirstin	ESTUARIES AND COASTS	41	1	128	138	2018	2,421	10.1007/s12237-017-0264-8	PACES II
111	Is there added value of convection-permitting regional climate model simulations for storms over the German Bight and Northern Germany?	Schaaf, Benjamin; Feser, Frauke	METEOROLOGY HYDROLOGY AND WATER MANAGEMENT-RESEARCH AND OPERATIONAL APPLICATIONS	6	2	21	37	2018	0	10.26491/mhwm/85507	PACES II
112	Measuring the dissipation rate of turbulent kinetic energy in strongly stratified, low-energy environments: A case study from the arctic ocean	Scheifele, B.; Waterman, S.; Merckelbach, L.; Carpenter, J.R.	Journal of geophysical Research: Ocnas	123	8	5459	5480	2018	Scopus	10.1029/2017JCO13731	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
113	The GEOTRACES Intermediate Data Product 2017	Schlitzer, Reiner; Anderson, Robert F.; Dodas, Elena Masferrer; Lohan, Maeve; Geibere, Walter; Tagliabue, Alessandro; Bowie, Andrew; Jeandel, Catherine; Maldonado, Maria T.; Landing, William M.; Cockwell, Donna; Abadie, Cyril; Abouchami, Wafa; Achterberg, Eric P.; Agather, Alison; Aguiar-Islas, Ana; van Aken, Hendrik M.; Andersen, Morten; Archer, Corey; Auro, Maureen; de Baar, Hein J.; Baars, Oliver; Baker, Alex R.; Bakker, Karel; Basak, Chandranath; Baskaran, Mark; Bates, Nicholas R.; Bauch, Dorothea; van Beek, Pieter; Behrens, Melanie K.; Black, Erin; Bluhm, Katrin; Bopp, Laurent; Bouman, Heather; Bowman, Katlin; Bown, Johann; Boyd, Philip; Boye, Marie; Boyle, Edward A.; Branellec, Pierre; Bridgestock, Luke; Brissebrat, Guillaume; Browning, Thomas; Bruland, Kenneth W.; Brumsack, Hans-Juergen; Brzezinski, Mark; Buck, Clifton S.; Buck, Kristen N.; Buesseler, Ken; Bull, Abby; Butler, Edward; Cai, Pinghe; Camara Mor, Patricia; Cardinal, Damien; Carlson, Craig; Carrasco, Gonzalo; Casacuberta, Nuria; Casciotti, Karen L.; Castillejo, Mavi; Chamizo, Elena; Chargo	CHEMICAL GEOLOGY	493		210	223	2018	3,57	10.1016/j.chemgeo.2018.05.040	PACES II
114	Direct and semi-direct effects of aerosol climatologies on long-term climate simulations over Europe	Schultze, Markus; Rockel, Burkhardt	CLIMATE DYNAMICS	50	09/10	3331	3354	2018	3,774	10.1007/s00382-017-3808-5	PACES II
115	Developing criteria for a stakeholder-centred evaluation of climate services: the case of extreme event attribution for storm surges at the German Baltic Sea	Schwab, Maria; von Storch, Hans	METEOROLOGY HYDROLOGY AND WATER MANAGEMENT-RESEARCH AND OPERATIONAL APPLICATIONS	6	1	27	35	2018	0	10.26491/mhwm/76702	PACES II
116	CMIP5-Derived Single-Forcing, Single-Model, and Single-Scenario Wind-Wave Climate Ensemble: Configuration and Performance Evaluation	Semedo, A., Behrens, A., Staneva, J., ...	Journal of Marine Science and Engineering	6	3	90		2018	Scopus		PACES II
117	Evaluation of a Wind Farm Parametrization for Mesoscale Atmospheric Flow Models with Aircraft Measurements	Siedersleben, S.K., Platis, A., Lundquist, J.K., Lampert, A., Bärfuss, K., Canadillas, B., Djath, B., Schulz-Stellenfleth, J., Bange, J., Neumann, T., Emeis, S.	Meteorologische Zeitschrift	27	5	401	415	2018	1,436	10.1127/metz/2018/0900	PACES II
118	The large-scale impact of offshore wind farm structures on pelagic primary productivity in the southern north sea	Slavik, K.; Lemmen, C.; Zhang, W.; Kerimoglu, O.; Klingbeil, K.; Wirtz, K.W.	Hydrobiologia			1	19	2018	Scopus	10.1007/s10750-018-3653-5	PACES II
119	Mercury distribution in the upper troposphere and lowermost stratosphere according to measurements by the IAGOS-CARIBIC observatory: 2014-2016	Slemr, Franz; Weigelt, Andreas; Ebinghaus, Ralf; Bieser, Johannes; Brenninkmeijer, Carl A. M.; Rauthe-Schoech, Armin; Hermann, Markus; Martinsson, Bengt G.; van Velthoven, Peter; Boenisch, Harald; Neumaier, Marco; Zahn, Andreas; Ziereis, Helmut	ATMOSPHERIC CHEMISTRY AND PHYSICS	18	16	12329	12343	2018	5,509	10.5194/acp-18-12329-2018	PACES II
120	Dynamics of the Baltic Sea straits via numerical simulation of exchange flows	Stanev E.V., Pein J., Grashorn S., Zhang Y., Schrum C.	Ocean Modelling	131		40	58	2018	Scopus	10.1016/j.ocemod.2018.08.009	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
121	Understanding the Dynamics of the Oxidic-Anoxic Interface in the Black Sea	Stanev, Emil V.; Poulain, Pierre-Marie; Grayek, Sebastian; Johnson, Kenneth S.; Claustre, Herve; Murray, James W.	GEOPHYSICAL RESEARCH LETTERS	45	2	864	871	2018	4,339	10.1002/2017GL076206	PACES II
122	Effects and constraints of optical filtering on ambient light suppression in LED-based underwater communications	Sticklus, J., Hieronymi, M., ...	Sensors	18	11			2018	2,475		PACES II
123	Optical Underwater Communication: The Potential of Using Converted Green LEDs in Coastal Waters	Sticklus, J., P. A. Hoehner and R. Röttgers	IEEE Journal of Oceanic Engineering			1	13	2018	Scopus	10.1109/JOE.2018.2816838	PACES II
124	Consistency between Sea Surface Reconstructions from Nautical X-Band Radar Doppler and Amplitude Measurements	Støle-Hentschel, S., J. Seemann, J.C. Nieto Borge, and K. Trulsen	J. Atmos. Oceanic Technol	35	6	1201	1220	2018	2,122	10.1175/JTECH-D-17-0145.1	PACES II
125	The concept of large-scale conditioning of climate model simulations of atmospheric coastal dynamics: Current state and perspectives	Storch, H. von; cavicchia, L.; Feser, F.; Li, D.	Atmosphere	9	9			2018	Scopus	10.3390/atmos9090337	PACES II
126	Coastal dwellers-power against climate change: a place-based perspective on individual and collective engagement in North Frisia	Suesser, Diana	JOURNAL OF COASTAL CONSERVATION	22	1	169	182	2018	1,16	10.1007/s11852-016-0467-3	PACES II
127	Undervalued and under pressure: A plea for greater attention toward regulating ecosystems services	Sutherland, I.J.; Villamagna, A.M.; Dallaire, C.O.; Bennett, E.M.; chin, A.T.M.; Yeung, A.C.Y.; Cornier, R.	Ecological Indicators	94		23	32	2018	Scopus	10.1016/j.ecolind.2017.06.047	PACES II
128	Spectral signatures of the tropical pacific dynamics from model and altimetry	Tchilibou, M., ..., Djath, B., ...	Ocean Science	14	5	1283	1301	2018	2,289		PACES II
129	Long-term statistics of potentially hazardous sea states in the north sea 1958-2014	Teich, T.; Groll, N.; Weisse, R.	Ocean Dynamics					2018	Scopus	10.1007/s10236-018-1210-4	PACES II
130	Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012-2013 Using Multiple Platforms	Testor, Pierre; Bosse, Anthony; Houpert, Loic; Margirier, Felix; Mortier, Laurent; Legoff, Herve; Dausse, Denis; Labaste, Matthieu; Karstensen, Johannes; Hayes, Daniel; Olita, Antonio; Ribotti, Alberto; Schroeder, Katrin; Chiggiato, Jacopo; Onken, Reiner; Heslop, Emma; Mourre, Baptiste; D'ortenzio, Fabrizio; Mayot, Nicolas; Lavigne, Heloise; de Fommervault, Orens; Coppola, Laurent; Prieur, Louis; Taillandier, Vincent; de Madron, Xavier Durrieu; Bourrin, Francois; Many, Gael; Damien, Pierre; Estournel, Claude; Marsaleix, Patrick; Taupier-Letage, Isabelle; Raimbault, Patrick; Waldman, Robin; Bouin, Marie-Noelle; Giordani, Herve; Caniaux, Guy; Somot, Samuel; Ducrocq, Veronique; Conan, Pascal	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	123	3	1745	1776	2018	2,711	10.1002/2016JC012671	PACES II
131	The Impact of Agulhas Leakage on the Central Water Masses in the Benguela Upwelling System From A High-Resolution Ocean Simulation	Tim, N. Zorita, E. Schwarzkopf, F.U. Rühls, S. Emeis, K.-C. Biastoch, A.	Journal of Geophysical Research: Oceans	123	12	9416	94288	2018	2,711	10.1029/2018JC014218	
132	Diffusive Convection under Rapidly Varying Conditions	Umlauf, Lars; Holtermann, Peter L.; Gillner, Christiane A.; Prien, Ralf D.; Merckelbach, Lucas; Carpenter, Jeffrey R.	JOURNAL OF PHYSICAL OCEANOGRAPHY	48	8	1731	1747	2018	3,086	10.1175/JPO-D-18-0018.1	PACES II
133	Tidal and subtidal exchange flows at an inlet of the Wadden Sea	Valle-Levinson, Arnoldo; Stanev, Emil; Badewien, Thomas H.	ESTUARINE COASTAL AND SHELF SCIENCE	202		270	279	2018	2,413	10.1016/j.ecss.2018.01.013	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
134	Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe	Vautard, R., Christidis, N., Clavarella, A. ..., Klehmet, K., et al.	Climate Dynamics						3,774	10.1007/s00382-018-4183-6	PACES II
135	Modeled deposition of nitrogen and sulfur in Europe estimated by 14 air quality model systems: evaluation, effects of changes in emissions and implications for habitat protection	Vivanco, Marta G.; Theobald, Mark R.; Garcia-Gomez, Hector; Luis Garrido, Juan; Prank, Marje; Aas, Wenche; Adani, Mario; Alyuz, Ummugulsum; Andersson, Camilla; Bellasio, Roberto; Bessagnet, Bertrand; Bianconi, Roberto; Bieser, Johannes; Brandt, Jurgen; Briganti, Gino; Cappelletti, Andrea; Curci, Gabriele; Christensen, Jesper H.; Colette, Augustin; Couvidat, Florian; Cuvelier, Cornelis; D'Isidoro, Massimo; Flemming, Johannes; Fraser, Andrea; Geels, Camilla; Hansen, Kaj M.; Hogrefe, Christian; Im, Ulas; Jorba, Oriol; Kitwiroon, Nutthida; Manders, Astrid; Mircea, Mihaela; Otero, Noelia; Pay, Maria-Teresa; Pozzoli, Luca; Solazzo, Efsio; Tsyro, Svetlana; Unal, Alper; Wind, Peter; Galmarini, Stefano	ATMOSPHERIC CHEMISTRY AND PHYSICS	18	14	10199	10218	2018	5,509	10.5194/acp-18-10199-2018	PACES II
136	Spatiotemporal variation of vertical particle fluxes and modelled chlorophyll a standing stocks in the Benguela Upwelling System	Vorrath, Maria-Elena; Lahajnar, Niko; Fischer, Gerhard; Libuku, Viktor Miti; Schmidt, Martin; Emeis, Kay-Christian	JOURNAL OF MARINE SYSTEMS	180		59	75	2018	2,506	10.1016/j.jmarsys.2017.12.002	PACES II
137	Uncertainties in modelling the climate impact of irrigation	Vrese, de, Philipp; Hagemann, Stefan	CLIMATE DYNAMICS	51	05/06	2023	2038	2018	3,774	10.1007/s00382-017-3996-z	PACES II
138	Exploring the biogeophysical limits of global food production under different climate change scenarios	Vrese, de, Philipp; Stacke, Tobias; Hagemann, Stefan	EARTH SYSTEM DYNAMICS	9	2	393	412	2018	3,769	10.5194/esd-9-393-2018	PACES II
139	Cultural geographies of coastal change	Walsh C., Döring M.	Area	50	2	146	149	2018	Scopus	10.1111/area.12434	PACES II
140	Synergy of wind wave model simuladtions and satellite observations during extreme events	Wiese, A., Staneva., J., Schulz-Stellenfleth, J., Behrens, A., ...	Ocean Science	14	6	1503	1521	2018	Scopus		PACES II
141	Regional variations of organophosphorus flame retardants - Fingerprint of large river basin estuaries/deltas in Europe compared with China	Wolschke, Hendrik; Suhring, Roxana; Massei, Riccardo; Tang, Jianhui; Ebinghaus, Ralf	ENVIRONMENTAL POLLUTION	236		391	395	2018	4,358	10.1016/j.envpol.2018.01.061	PACES II
142	Modelling Climate and Societal Resilience in the Eastern Mediterranean in the Last Millennium	Xoplaki E., Luterbacher J., Wagner S., Zorita E., Fleitmann D., Preiser-Kapeller J., Sargent A.M., White S., Toreti A., Haldon J.F., Mordechai L., Bozkurt D., Akçer-Ön S., Izdebski A.	Human Ecology	46	3	363	379	2018	Scopus	10.1007/s10745-018-9995-9	PACES II
143	Assessment of Flood Losses with Household Responses: Agent-Bases Simulation in an Urban catschment Area	Yang, L.E.; Scheffran, J.; Suesser, D.; Dawson, R.; Chen; Y.D.	Environmental Modeling & Assessment	23	4	369	388	2018	1,117	1007/s10666-018-9597-3	PACES II
144	The relationship between Arabian Sea upwelling and Indian Monsoon revisited in a high resolution ocean simulation	Yi, Xing; Huenicke, Birgit; Tim, Nele; Zorita, Eduardo	CLIMATE DYNAMICS	50	01/02	201	213	2018	3,774	10.1007/s00382-017-3599-8	PACES II
145	Trends of Cyclone Characteristics in the Arctic and Their Patterns From Different Reanalysis Data	Zahn, Matthias; Akperov, Mirseid; Rinke, Annette; Feser, Frauke; Mokhov, Igor I.	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	123	5	2737	2751	2018	3,38	10.1002/2017JD027439	PACES II
146	Real-World Emission Factors of Gaseous and Particulate Pollutants from Marine Fishing Boats and Their Total Emissions in China	Zhang, Fan; Chen, Yingjun; Chen, Qi; Feng, Yanli; Shang, Yu; Yang, Xin; Gao, Huiwang; Tian, Chongguo; Li, Jun; Zhang, Gan; Matthias, Volker; Xie, Zhiyong	ENVIRONMENTAL SCIENCE & TECHNOLOGY	52	8	4910	4919	2018	6,653	10.1021/acs.est.7b04002	PACES II

PACES II (ohne GERICS)
 152 erschienene HZG-Publikationen 2018
 Quelle: Web of Science (Thomson Reuters) und Scopus (Elsevier)

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
147	Net Modulation of Upper Ocean Thermal Structure by Typhoon Kalmaegi (2014)	Zhang, H., ... , Zhang, W.	Journal of Geophysical Research-Oceans	123	10	7154	7171	2018	2,711		PACES II
148	Occurrences of organophosphorus esters and phthalates in the microplastics from the coastal beaches in north China	Zhang, Haibo; Zhou, Qian; Xie, Zhiyong; Zhou, Yang; Tu, Chen; Fu, Chuancheng; Mi, Wenyong; Ebinghaus, Ralf; Christie, Peter; Luo, Yongming	SCIENCE OF THE TOTAL ENVIRONMENT	616		1505	1512	2018	4,61	10.1016/j.scitotenv.2017.10.163	PACES II
149	East Asian warm season temperature variations over the past two millennia	Zhang, Huan; Werner, Johannes P.; Garcia-Bustamante, Elena; Gonzalez-Rouco, Fidel; Wagner, Sebastian; Zorita, Eduardo; Fraedrich, Klaus; Jungclaus, Johann H.; Ljungqvist, Fredrik Charpentier; Zhu, Xiuhua; Xoplaki, Elena; Chen, Fahu; Duan, Jianping; Ge, Quansheng; Hao, Zhixin; Ivanov, Martin; Schneider, Lea; Talento, Stefanie; Wang, Jianglin; Yang, Bao; Luterbacher, Juerg	SCIENTIFIC REPORTS	8	1			2018	4,122	10.1038/s41598-018-26038-8	PACES II
150	From headwaters to estuary: Distribution and fate of halogenated flame retardants (HFRs) in a river basin near the largest HFR manufacturing base in China	Zhen, Xiaomei; Tang, Jianhui; Liu, Lin; Wang, Xinming; Li, Yanan; Xie, Zhiyong	SCIENCE OF THE TOTAL ENVIRONMENT	621		1370	1377	2018	4,61	10.1016/j.scitotenv.2017.10.091	PACES II
151	Occurrences and distribution characteristics of organophosphate ester flame retardants and plasticizers in the sediments of the Bohai and Yellow Seas, China	Zhong M., Wu H., Mi W., Li F., Ji C., Ebinghaus R., Tang J., Xie Z.	Science of the Total Environment	615		1305	1311	2018	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031723945&doi=10.1016%2fj.scitotenv.2017.09.272&partnerID=40&md5=fc7c6c62c370b01c07c3d4288fde5436	PACES II
152	Assessing fluorescent organic matter in natural waters: Towards in situ excitation-emission matrix spectroscopy	Zielinski, O., ..., Wollschläger, J.	Applied Sciences	8	12			2018	1,689		PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
1	Generating WUDAPT Level 0 data – Current status of production and evaluation	Bechtel, B., Alexander, P.J., Beck, C., Böhner, J., Brousse, O., Ching, J., Demuzere, M., Fonte, C., Gál, T., Hidalgo, J., Hoffmann, P., Middel, A., Mills, G., Ren, C., See, L., Sismanidis, P., Verdonck, M.-L., Xu, G., Xu, Y.	URBAN CLIMATE	27		24	45		Scopus	10.1016/j.uclim.2018.10.001	PACES II
2	Next generation coastal risk models	Bouwer, Laurens M.	NATURE CLIMATE CHANGE	8	9	765	766	2018	19,181		PACES II
3	Dynamical downscaling of historical climate over CORDEX Central America domain with a regionally coupled atmosphere–ocean model	Cabos, William; Sein, Dmitry V.; Durán-Quesada, Ana; Liguori, Giovanni; Koldunov, Nikolay V.; Martínez-López, Benjamín; Alvarez, Francisco; Sieck, Kevin; Limareva, Natalia; Pinto, Joaquim G.	CLIMATE DYNAMICS	1811				2018	3,774	0.1007/s00382-018-4381-2	PACES II
4	Simulating damage for wind storms in the land surface model ORCHIDEA-CAN (revision 4262)	Chen, Yi-Ying; Gardiner, Barry; Pasztor, Ferenc; Blennow, Kristina; Ryder, James; Valade, Aude; Naudts, Kim; Otto, Juliane; McGrath, Matthew J.; Planque, Carole; Luysaert, Sebastiaan	GEOSCIENTIFIC MODEL DEVELOPMENT	11	2	771	791	2018	4,252	10.5194/gmd-11-771-2018	PACES II
5	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean	Coppola, E.; Sobolowski, S.; Pichelli, E.; Raffaele, F.; Ahrens, B.; Anders, I.; Ban, N.; Bastin, S.; Belda, M.; Belusic, D.; Caldas-Alvarez, A.; Cardoso, R. M.; Davolio, S.; Dobler, A.; Fernandez, J.; Fita, L.; Fumiere, Q.; Giorgi, F.; Goergen, K.; Güttler, I.; Halenka, T.; Heinzeller, D.; Hodnebrog, Ø.; Jacob, D.; Kartsios, S.; Katragkou, E.; Kendon, E.; Khodayar, S.; Kunstmann, H.; Knist, S.; Lavín-Gullón, A.; Lind, P.; Lorenz, T.; Maraun, D.; Marelle, L.; Meijgaard, E. van; Milovac, J.; Myhre, G.; Panitz, H.-J.; Piazza, M.; Raffa, M.; Raub, T.; Rockel, B.; Schär, C.; Sieck, K.; Soares, P. M. M.; Somot, S.; Srnec, L.; Stocchi, P.; Tölle, M. H.; Truhetz, H.; Vautard, R.; de Vries, H.; Warrach-Sagi, K.	CLIMATE DYNAMICS					2018	3,774	10.1007/s00382-018-4521-8	PACES II
6	Using the adaptive cycle in climate-risk insurance to design resilient futures	Cremades, R., Surminski, S., Mániz Costa, M., Hudson, P., Shrivastava, P. & Gascoigne, J.	NATURE CLIMATE CHANGE	8		4	7	2018	19,181		PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
7	Simulation of medicanes over the Mediterranean Sea in a regional climate model ensemble: impact of ocean-atmosphere coupling and increased resolution	Gaertner, Miguel Ángel; González-Alemán, Juan Jesús; Romera, Raquel; Domínguez, Marta; Gil, Victoria; Sánchez, Enrique; Gallardo, Clemente; Miglietta, Mario Marcello; Walsh, Kevin, J. E.; Sein, Dmitry V.; Somot, Samuel; Dell'Aquila, Alessandro; Teichmann, Claas; Ahrens, Bodo; Buonomo, Erasmo; Augustin, Colette; Bastin, Sophie; van Meijgaard, Erik; Nikulin, Grigory	CLIMATE DYNAMICS	51	3	1041	1057	2018	3,774	10.1007/s00382-016-3456-1	PACES II
8	Climate Impacts in Europe Under+1.5 degrees C Global Warming	Jacob, Daniela; Kotova, Lola; Teichmann, Claas; Sobolowski, Stefan P.; Vautard, Robert; Donnelly, Chantal; Koutroulis, Aristeidis G.; Grillakis, Manolis G.; Tsanis, Ioannis K.; Damm, Andrea; Sakalli, Abdulla; van Vliet, Michelle T. H.	EARTHS FUTURE	6	2	264	285	2018	4,594	10.1002/2017EF000710	PACES II
9	European climate change at global mean temperature increases of 1.5 and 2 degrees C above pre-industrial conditions as simulated by the EURO-CORDEX regional climate models	Kjellstrom, Erik; Nikulin, Grigory; Strandberg, Gustav; Christensen, Ole Bossing; Jacob, Daniela; Keuler, Klaus; Lenderink, Geert; van Meijgaard, Erik; Schar, Christoph; Somot, Samuel; Sorland, Silje Lund; Teichmann, Claas; Vautard, Robert	EARTH SYSTEM DYNAMICS	9	2	459	478	2018	3,769	10.5194/esd-9-459-2018	PACES II
10	A new project AFTER investigates the impacts of climate change in the Europe-Russia-Turkey region	Kotova, L., Aniskevich, S., Bobylev, L., Caluwaerts, S., De Cruz, L., De Troche, R., Gnatiuk, N., Gobin, A., Hamdi, R., Sakalli, A., Sirini, A., Termonia, P., Top, S., Van Schaeybroeck, B., Viksna, A.	Climate Services	12		59	63		Scopus	10.1016/j.cliserv.2018.11.003	PACES II
11	Mapping the vulnerability of European summer tourism under 2 °C global warming	Koutroulis, Aristeidis; Grillakis, Manolis; Tsanis, I.K.; Jacob, Daniela	CLIMATIC CHANGE	151	2	157	171	2018	3,537	10.1007/s10584-018-2298-8	PACES II
12	Polar Amplification Projected by Energy Balance Model with Nonlinear Parametrization of Outgoing Longwave Radiation	Kovalevsky, D.V. and Alekseev, G.V.	DISCONTINUITY, NONLINEARITY, AND COMPLEXITY	7	2	209	223	2018	Scopus	10.5890/DNC.2018.06.009	PACES II
13	Trade-offs in using European forests to meet climate objectives	Luysaert, Sebastiaan; Marie, Guillaume; Valade, Aude; Chen, Yi-Ying; Djomo, Sylvestre Njakou; Ryder, James; Otto, Juliane; Naudts, Kim; Lansø, Anne Sofie; Ghattas, Josefine; McGrath, Matthew J.	NATURE	562	7726	259	++	2018	41,577	10.1038/s41586-018-0577-1	PACES II
14	Consequences of 1.5 degrees C and 2 degrees C global warming levels for temperature and precipitation changes over Central Africa	Mba, Wilfried Pokam; Longandjo, Georges-Noel T.; Moufouma-Okia, Wilfran; Bell, Jean-Pierre; James, Rachel; Vondou, Derbetini A.; Haensler, Andreas; Fotso-Nguemo, Thierry C.; Guenang, Guy Merlin; Tchotchou, Angennes Lucie Djintang; Kamsu-Tamo, Pierre H.; Takong, Ridick R.; Nikulin, Grigory; Lennard, Christopher J.; Dosio, Alessandro	ENVIRONMENTAL RESEARCH LETTERS	13	5			2018	4,541	10.1088/1748-9326/aab048	PACES II

No.	Title	Author	Source	Volume	Issue	Beginpage	Endpage	Publ.-Year	Impact-Factor	DOI	HGF-Programm
15	Validation of flood risk models: current practice and possible improvements.	Molinari, D., De Bruijn, K., Castillo-Rodriguez, J.T., Aronica, G.T. & Bouwer, L.M.	INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION	33	1	441	448	2018	Scopus	10.1016/j.ijdr.2018.10.022	PACES II
16	The effects of 1.5 and 2 degrees of global warming on Africa in the CORDEX ensemble	Nikulin, Grigory; Lennard, Chris; Dosio, Alessandro; Kjellstrom, Erik; Chen, Youmin; Haensler, Andreas; Kupiainen, Marco; Laprise, Rene; Mariotti, Laura; Maule, Cathrine Fox; van Meijgaard, Erik; Panitz, Hans-Juergen; Scinocca, John F.; Somot, Samuel	ENVIRONMENTAL RESEARCH LETTERS	13	6			2018	4,541	10.1088/1748-9326/aab1b1	PACES II
17	Risk reduction partnerships in railway transport infrastructure in an alpine environment	Otto, A., Kellermann, P., Thieken, A.H., Manez Costa, M., Carmona, M., Bubecka, P.	International Journal of Disaster Risk Reduction					2018	Scopus	10.1016/j.ijdr.2018.10.025	PACES II
18	The regional climate model REMO (v2015) coupled with the 1-D freshwater model Flake (v1): Fenno-Scandinavian climate and lakes	Pietikainen, Joni-Pekka; Markkanen, Tiina; Sieck, Kevin; Jacob, Daniela; Korhonen, Johanna; Raisanen, Petri; Gao, Yao; Ahola, Jaakko; Korhonen, Hannele; Laaksonen, Ari; Kaurola, Jussi	GEOSCI. MODEL DEV.DISSCUSS.	11	4	1321	1342	2018	Scopus	10.5194/gmd-2017-245	PACES II
19	Future changes in annual precipitation extremes over Southeast Asia under global warming of 2 °C	Tangang, F., Supari, S., Chung, JX., Cruz, F., Salimun, E., Ngai, ST., Juneng, L., Santisirisomboon, J., Santisirisomboon, J., Ngo-Duc, T., Phan-Van, T., Narisma, G., Singhruck, P., Gunawan, D., Aldrian, E., Sopaheluwakan, A., Nikulin, G., Yang, H., Remedio, AR., Sein, D., Hein-Griggs, D.	APN Science Bulletin	8	1	3	8	2018	4,136	10.30852/sb.2018.436	PACES II
20	Avoiding Extremes: Benefits of Staying below+1.5 degrees C Compared to+2.0 degrees C and+3.0 degrees C Global Warming	Teichmann, Claas; Buelow, Katharina; Otto, Juliane; Pfeifer, Susanne; Rechid, Diana; Sieck, Kevin; Jacob, Daniela	ATMOSPHERE	9	4			2018	1,704	10.3390/atmos9040115	PACES II
21	The match between climate services demands and Earth System Models supplies	van den Hurk, B.; Hewitt, C.; Jacob, D.; Bessembinder, J.; Doblas-Reyes, F.; Doscher, R.	CLIMATE SERVICES	12		59	63	2018	Scopus	10.1016/j.cliserv.2018.11.002	
22	Understanding epistemic uncertainty in large-scale coastal flood risk assessment for present and future climates	Vousdoukas, Michalis I.; Bouziotas, Dimitrios; Giardino, Alessio; Bouwer, Laurens M.; Mentaschi, Lorenzo; Voukouvalas, Evangelos; and Feyen, Luc	NAT. HAZARDS EARTH SYST. SCI.	18		2127	2142	2018	2,281	10.5194/nhess-18-2127-2018	PACES II
23	Analyzing Regional Climate Change in Africa in a 1.5, 2, and 3 degrees C Global Warming World	Weber, T.; Haensler, A.; Rechid, D.; Pfeifer, S.; Eggert, B.; Jacob, D.	EARTHS FUTURE	6	4	643	655	2018	4,594	10.1002/2017EF000714	PACES II
24	Informal Settlements and Flooding: Identifying Strengths and Weaknesses in Local Governance for Water Management	Williams, David Samuel; Costa, Maria Manez; Celliers, Louis; Sutherland, Catherine	WATER	10	7			2018	2,69	10.3390/w10070871	PACES II
25	Downstream effect of Hengduan Mountains on East China in the REMO regional climate model.	Xu, J., Koldunov, N.V., Remedio, A.R.C., Dein, D.V., Rechid, D., Zhi, X., Jiang, X., Xu M., Zhu, X., Fraedrich, K., Jacob D.	Theor Appl Climatol					2018	Scopus	10.1007/s00704-018-2721-0	PACES II
26	On the role of horizontal resolution over the Tibetan Plateau in the REMO regional climate model.	Xu, Jingwei; Koldunov, Nikolay; Remedio, Armelle Rea C.; Sein, Dmitry V.; Zhi, Xiefei; Jiang, Xi; Xu, Min; Zhu, Xiuhua; Fraedrich, Klaus, and Jacob, Daniela	CLIMATE DYNAMICS	51	11 bis 12	4525	4542	2018	Scopus	0.1007/s00382-018-4085-7	PACES II