

Lfd. Nr.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
1	On the feasibility of a friction-based staking joining method for polymer-metal hybrid structures	Abibe, AB; Sonego, M; dos Santos, JF; Canto, LB; Amancio-Filho, ST	MATERIALS & DESIGN	92		632	642	2016	3.997	AEM
2	Magnesium degradation influenced by buffering salts in concentrations typical of in vitro and in vivo models	Agha, NA; Feyerabend, F; Mihailova, B; Heidrich, S; Bismayer, U; Willumeit-Romer, R	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	58		817	825	2016	3.420	AEM
3	The Degradation Interface of Magnesium Based Alloys in Direct Contact with Human Primary Osteoblast Cells	Agha, NA; Willumeit-Romer, R; Laipple, D; Luthringer, B; Feyerabend, F	PLOS ONE	11	6	e0157874		2016	3.057	AEM
4	Laser beam welded structures for a regional aircraft: weight, cost and carbon footprint savings	Alexopoulos, ND; Gialos, AA; Zeimpekis, V; Velonaki, Z; Kashaev, N; Riekehr, S; Karanika, A	JOURNAL OF MANUFACTURING SYSTEMS	39		38	52	2016	2.240	AEM
5	Mechanical properties degradation of (Al-Cu-Li) 2198 alloy due to corrosion exposure	Alexopoulos, ND; Proiou, A; Dietzel, W; Blawert, C; Heitmann, V; Zheludkevich, ML; Kourkoulis, SK;	Procedia Structural Integrity	2		597	603	2016	Scopus	AEM
6	Friction Spot Joining of aluminum alloy 2024-T3 and carbon-fiber-reinforced poly(phenylene sulfide) laminate with additional PPS film interlayer: Microstructure, mechanical strength and failure mechanisms	Andre, NM; Goushegir, SM; dos Santos, JF; Canto, LB; Amancio, ST	COMPOSITES PART B-ENGINEERING	94		197	208	2016	3.850	AEM
7	Influence of the Interlayer Film Thickness on the Mechanical Performance of AA2024-T3/CF-PPS Hybrid Joints Produced by Friction Spot Joining	Andre, NM; Goushegir, SM; dos Santos, JF; Canto, LB; Amancio, ST	SOLDAGEM & INSPECAO	21	1	2	15	2016	0.390	AEM
8	Modeling concepts for intermetallic titanium aluminides	Appel, F; Clemens, H; Fischer, FD	PROGRESS IN MATERIALS SCIENCE	81		55	124	2016	31.083	AEM
9	Friction Stir Welding of Shipbuilding Steel with Primer	Azevedo, J; Quintino, L; Infante, V; Miranda, RM; dos Santos, J	SOLDAGEM & INSPECAO	21	1	16	29	2016	0.390	AEM
10	Modeling of the work hardening in magnesium alloy sheets	Balik, J; Dobron, P; Chmelik, F; Kuzel, R; Drozdenko, D; Bohlen, J; Letzig, D; Lukac, P	INTERNATIONAL JOURNAL OF PLASTICITY	76		166	185	2016	5.623	AEM
11	Impression creep behaviour of squeeze-cast Ca and Sb added AZ91 magnesium alloy	Bankoti A.K.S., Mondal A.K., Dieringa H., Ray B.C., Kumar S.	Materials Science and Engineering A	673		332	345	2016	2.647	AEM
12	Predictive modeling of mechanical properties of metal filled anodic aluminum oxide	Bardushkin, V; Shilyaeva, Yu; Gavrilov, S; Silibin, M; Yakovlev, V; Zheludkevich, M; Popenko, N;	Journal of Mechanics of Materials and Structures	11		583	594	2016	0.675	AEM
13	Materials based design of structures: Computational modeling of the mechanical behavior of gold-polymer nanocomposites	Bargmann, S; Soyarslan, C; Husser, E; Konchakova, N	MECHANICS OF MATERIALS	94		53	65	2016	2.636	AEM

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14	Ca(BH <sub>4</sub> ) <sub>2</sub> -Mg <sub>2</sub> NiH <sub>4</sub> : on the pathway to a Ca(BH <sub>4</sub> ) <sub>2</sub> system with a reversible hydrogen cycle	Bergemann, N; Pistidda, C; Milanese, C; Emmeler, T; Karimi, F; Chaudhary, AL; Chierotti, MR; Klassen, T; Dornheim, M	CHEMICAL COMMUNICATIONS	52	26	4836	4839	2016	6.567	AEM / MML
15	Metal Injection Moulding of Superelastic TiNi Parts	Bidaux J. E., A. Amherd Hidalgo, H. Girard, M. Rodriguez-Arbaizar, L. Reynard, J. Chevallier, F. Aeby, J. C. Giachetto, E. Carreño-Morelli	Key Engineering Materials	704		173	182	2016	0.390	AEM
16	Formability of extruded magnesium alloy sheets with different textures	Bohlen, J., Schlung, O., Gall, S., Müller, S., Letzig, D.	Magnesium Technology	2016-January		251	256	2016	Scopus	AEM
17	Influence of Rotational Speed on the Microstructure and Mechanical Performance of Friction-riveted Thermosetting Composite Joints	Borba, NZ; Blaga, L; dos Santos, JF; Canto, LB; Amancio, SD	SOLDAGEM & INSPECAO	21	1	30	43	2016	0.390	AEM
18	Optimization and comprehensive characterization of metal hydride based hydrogen storage systems using in-situ Neutron Radiography	Börries S., Metz O., Pranzas P.K., Bellost von Colbe J.M., Bücherl T., Dornheim M., Klassen T., Schreyer A.	Journal of Power Sources	328		567	577	2016	Scopus	AEM
19	Mesoporous silica sub-micron spheres as drug dissolution enhancers: Influence of drug and matrix chemistry on functionality and stability	Brigo, L; Scomparin, E; Galuppo, M; Capurso, G; Ferlin, MG; Bello, V; Realdon, N; Brusatin, G; Morpurgo, M	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	59		585	593	2016	3.420	AEM
20	In situ synchrotron radiation diffraction investigation of the compression behaviour at 350 degrees C of ZK40 alloys with addition of CaO and Y	Buzolin, RH; Mendis, CL; Tolnai, D; Stark, A; Schell, N; Pinto, H; Kainer, KU; Hort, N	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	664		2	9	2016	2.647	AEM / MML
21	In Vitro Evaluation of Biocompatibility of Uncoated Thermally Reduced Graphene and Carbon Nanotube-Loaded PVDF Membranes with Adult Neural Stem Cell-Derived Neurons and Glia	Çağ ı la Defterali, Raquel Verdejo, Shahid Majeed, Adriana Boschetti-de-Fierro, Héctor R. Méndez-Gómez, Eva Díaz-Guerra, Daniel Fierro, Kristian Buhr, Clarissa Abetz, Ricardo Martínez-Murillo, Daniela Vuluga, Michaël Alexandre, Jean-Michel Thomassin, Christophe Detrembleur, Christine Jérôme, Volker Abetz, Miguel Ángel López-Manchado and Carlos Vicario-Abejón	Frontiers in Bioengineering and Biotechnology	4	94	open access		2016	Scopus	AEM
22	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103	Callini, E; Aguey-Zinsou, KF; Ahuja, R; Ares, JR; Bals, S; Biliskov, N; Chakraborty, S; Charalambopoulou, G; Chaudhary, AL; Cuevas, F; Dam, B; de Jongh, P; Dornheim, M; Filinchuk, Y; Novakovic, JG; Hirscher, M; Jensen, TR; Jensen, PB; Novakovic, N; Lai, QW; Leardini, F; Gattia, DM; Pasquini, L; Steriotis, T; Turner, S; Vegge, T; Zuttel, A; Montone, A	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	41		14404	14428	2016	3.205	AEM

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23	Complex and liquid hydrides for energy storage	Callini, E; Atakli, ZOK; Hauback, BC; Orimo, S; Jensen, C; Dornheim, M; Grant, D; Cho, YW; Chen, P; Hjorvarsson, B; de Jongh, P; Weidenthaler, C; Baricco, M; Paskevicius, M; Jensen, TR; Bowden, ME; Autrey, TS; Zuttel, A	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	122	4			2016	1.444	AEM
24	Load partition and microstructural evolution during in situ hot deformation of Ti-6Al-6V-2Sn alloys	Canelo-Yubero, D; Requena, G; Sket, F; Poletti, C; Warchomicka, F; Daniels, J; Schell, N; Stark, A	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	657		244	258	2016	2.647	AEM / MML
25	New synthesis route for ternary transition metal amides as well as ultrafast amide-hydride hydrogen storage materials	Cao, HJ; Santoru, A; Pistidda, C; Richter, TMM; Chaudhary, AL; Gizer, G; Niewa, R; Chen, P; Klassen, T; Dornheim, M	CHEMICAL COMMUNICATIONS	52	29	5100	5103	2016	6.567	AEM
26	Development of a modular room-temperature hydride storage system for vehicular applications	Capurso, G; Schiavo, B; Jepsen, J; Lozano, G; Metz, O; Saccone, A; De Negri, S; von Colbe, JMB; Klassen, T; Dornheim, M	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	122	3			2016	1.444	AEM
27	In-situ EBSD observations of recrystallization and texture evolution in rolled Mg-2Zn-xCe (wt.%)	Chakkedath, A., Escobar, D.H., Bohlen, J., Yi, S., Letzig, D., Boehlert, C.	Magnesium Technology	2016-January		237		2016	Scopus	AEM
28	IN-SITU EBSD TECHNIQUE CHARACTERIZES MICROSTRUCTURE EVOLUTION OF MAGNESIUM ALLOY	Chakkedath, A; Boehlert, C; Hernandez, D; Bohlen, J; Yi, SB; Letzig, D	ADVANCED MATERIALS & PROCESSES	174	6	19	21	2016	0.290	AEM
29	Interaction effect between different constituents in silicate-containing electrolyte on PEO coatings on Mg alloy	Chen, Y; Yang, Y; Zhang, T; Zhang, W; Wang, F; Lu, X; Blawert, C; Zheludkevich, ML;	SURFACE & COATINGS TECHNOLOGY	307A		825	836	2016	2.139	AEM
30	Effect of elasto-plastic material behaviour on determination of residual stress profiles using the hole drilling method	Chupakhin, S., Kashaev, N., Huber, N.	Journal of Strain Analysis for Engineering Design	51	8	572	581	2016	1.250	AEM
31	Review of magnesium hydride-based materials: development and optimisation	Crivello, JC; Dam, B; Denys, RV; Dornheim, M; Grant, DM; Huot, J; Jensen, TR; de Jongh, P; Latroche, M; Milanese, C; Milcius, D; Walker, GS; Webb, CJ; Zlotea, C; Yartys, VA	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	122	2			2016	1.444	AEM
32	Comparison of the Influence of Phospholipid-Coated Porous Ti-6Al-4V Material on the Osteosarcoma Cell Line Saos-2 and Primary Human Bone Derived Cells	Deing, A; Ebel, T; Willumeit-Romer, R; Luthringer, BJC	METALS	6	3	66		2016	1.574	AEM
33	Hot tearing susceptibility of Mg-5Nd-xZn alloys	D'Elia, F., Tolnai, D., Mendis, C.L., Hort, N.	Magnesium Technology	2016-January		129	134	2016	Scopus	AEM
34	Influence of Corona Structure on Binding of an Ionic Surfactant in Oppositely Charged Amphiphilic Polyelectrolyte Micelles	Delisavva, F.; Uchman, M.; Škvarla, J.; Wořniak, E.; Pavlova, E.; Šlouf, M.; Garamus, V. M.; Procházka, K.; Štípánek, M.	Langmuir	32		4059	4065	2016	4.097	AEM / MML

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35	The stiffness and strength of metamaterials based on the inverse opal architecture	do Rosário, J.J., Berger, J.B., Lilleodden, E.T., McMeeking, R.M., Schneider, G.A.	Extreme Mechanics Letters	in press				2016	Scopus	AEM
36	Simulation of the role of vibration on Scanning Vibrating Electrode Technique measurements close to a disc in plane	Dolgikh, O; Demeter, AS; Lamaka, SV; Taryba, M; Bastos, AC; Quevedo, MC; Deconinck, J	ELECTROCHIMICA ACTA	203		379	387	2016	4.803	AEM
37	Organically linked iron oxide nanoparticle supercrystals with exceptional isotropic mechanical properties	Dreyer, A; Feld, A; Kornowski, A; Yilmaz, ED; Noei, H; Meyer, A; Krekeler, T; Jiao, CG; Stierle, A; Abetz, V; Weller, H; Schneider, GA	NATURE MATERIALS	15	5	522	+	2016	38.891	AEM
38	Acoustic emission study on the activity of slip and twin mechanisms during compression testing of magnesium single crystals	Drozdenco, D; Bohlen, J; Chmelik, F; Lukac, P; Dobron, P	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	650		20	27	2016	2.647	AEM
39	Investigating a twinning-detwinning process in wrought Mg alloys by the acoustic emission technique	Drozdenco, D; Bohlen, J; Yi, S; Minarik, P; Chmelik, F; Dobron, P	ACTA MATERIALIA	110		103	113	2016	3.729	AEM
40	Finite element damage analysis of an underwater glider-ship collision	Drucker, S; Steglich, D; Merckelbach, L; Werner, A; Bargmann, S	JOURNAL OF MARINE SCIENCE AND TECHNOLOGY	21	2	261	270	2016	0.709	AEM
41	Controlling thermal emission with refractory epsilon-near-zero metamaterials via topological transitions	Dyachenko, P. N.; Molesky, S.; Petrov, A. Yu; Störmer, M.; Krekeler, T.; Lang, S.; Ritter, M.; Jacob, Z.; Eich, M.	NATURE COMMUNICATIONS	7		11809		2016	11.329	AEM / MML
42	Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Castability	Easton, MA; Zhu, SM; Abbott, TB; Dargusch, M; Murray, M; Savage, G; Hort, N; Gibson, MA	ADVANCED ENGINEERING MATERIALS	18	6	953	962	2016	1.817	AEM
43	Fatigue life assessment of friction spot welded 7050-T76 aluminium alloy using Weibull distribution	Effertz, PS; Infante, V; Quintino, L; Suhuddin, U; Hanke, S; dos Santos, JF	INTERNATIONAL JOURNAL OF FATIGUE	87		381	390	2016	2.162	AEM
44	Synthesis and self-assembly of high molecular weight polystyrene-block-poly[2-(N-morpholino)ethyl methacrylate]: A story about microphase separation, amphiphilicity, and stimuli-responsivity	Eggers, S., Lauterbach, F., Abetz, V.	Polymer (United Kingdom)					2016	Scopus	AEM
45	Aqueous Solutions of Poly[2-(N-morpholino)ethyl methacrylate]: Learning about Macromolecular Aggregation Processes from a Peculiar Three-Step Thermoresponsive Behavior	Eggers, S; Fischer, B; Abetz, V	MACROMOLECULAR CHEMISTRY AND PHYSICS	217	6	735	747	2016	2.495	AEM

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46	Fibre laser welding of high-alloyed Al–Zn–Mg–Cu alloys	Enz, J., Riekehr, S., Ventzke, V., Huber, N., Kashaev, N.	Journal of Materials Processing Technology	237		155	162	2016	2.359	AEM
47	Laser Weldability of High-Strength Al-Zn Alloys and Its Improvement by the Use of an Appropriate Filler Material	Enz, J.; Riekehr, S.; Ventzke, V.; Huber, N.; Kashaev, N	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	6	2830	2841	2016	1.749	AEM
48	In Situ Characterization Techniques Based on Synchrotron Radiation and Neutrons Applied for the Development of an Engineering Intermetallic Titanium Aluminide Alloy	Erdely, P; Schmoelzer, T; Schwaighofer, E; Clemens, H; Staron, P; Stark, A; Liss, KD; Mayer, S	METALS	6	1	10	27	2016	1.574	AEM / MML
49	Performance of friction stir welded Tailor welded blanks in AA5059 and AA6082 alloys for marine applications	Feistauer, E.E., Bergmann, L., Dos Santos, J.F.	Key Engineering Materials	710		91	96	2016	Scopus	AEM
50	Ultrasonic joining: A novel direct-assembly technique for metal-composite hybrid structures	Feistauer, EE; Guimaraes, RPM; Ebel, T; dos Santos, JF; Amancio, ST	MATERIALS LETTERS	170		1	4	2016	2.437	AEM
51	Magnesium degradation observed in situ under flow by synchrotron radiation based microtomography	Feyerabend, Frank, Dose, Thomas, Xu, Yuling, Beckmann, Felix, Stekker, Michael, Willumeit-Römer, Regine, Schreyer, Andreas, Wilde, Fabian, Hammel, Jörg U.	Proc. SPIE 9967, Developments in X-Ray Tomography X	99671X				2016	0.370	AEM / MML
52	The role of process temperature and rotational speed in the microstructure evolution of Ti-6Al-4V friction surfacing coatings	Fitseva V., Hanke S., Santos J.F.D., Stemmer P., Gleising B.	Materials and Design	110		112	123	2016	Scopus	AEM
53	The Synthesis of Poly(ethylene glycol) (PEG) Containing Polymers via Step-Growth Click Coupling Reaction for CO <sub>2</sub> Separation	Gacal, BN; Filiz, V; Abetz, V	MACROMOLECULAR CHEMISTRY AND PHYSICS	217	5	672	682	2016	2.495	AEM
54	Evaluation of the degradation behavior of resorbable metal implants for in vivo osteosynthesis by synchrotron radiation based x-ray tomography and histology	Galli, S.; Hammel, J.U.; Herzen, J.; Damm, T.; Jimbo, R.; Beckmann, F.; Wennerberg, A.; Willumeit-Römer, R.	Proceedings of SPIE - The International Society for Optical Engineering	9967		996704		2016	Scopus	AEM / MML
55	A computational UV-Vis spectroscopic study of the chemical speciation of 2-mercaptobenzothiazole corrosion inhibitor in aqueous solution	Galvao, TLP; Kuznetsova, A; Gomes, JRB; Zheludkevich, ML; Tedim, J; Ferreira, MGS	THEORETICAL CHEMISTRY ACCOUNTS	135	3			2016	1.806	AEM

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56	Formation of an 18R long-period stacking ordered structure in rapidly solidified Mg <sub>88</sub> /Y <sub>8</sub> /Zn <sub>4</sub> /alloy	Garcés, G., Requena, G., Tolnai, D., Pérez, P., Medina, J., Stark, A., Schell, N., Adeva, P.	Materials Characterization	118		514	518	2016	2.383	AEM / MML
57	On the microstructural factors affecting creep resistance of die-cast Mg-La-rare earth (Nd, Y or Gd) alloys	Gavras S., Zhu S.M., Nie J.F., Gibson M.A., Easton M.A.	Materials Science and Engineering A	675		65	75	2016	Scopus	AEM
58	Chemical Modification, Thermal Characterization and Dielectric Spectroscopy of Polystyrene-block-Polyisoprene Diblock Copolymers	Georgopoulos, P., Filiz, V., Handge, U.A., Abetz, V.	Macromolecular Chemistry and Physics	217	11	1293	1304	2016	2.495	AEM
59	Identification and description of intermetallic compounds in Mg-Si-Sr cast and heat-treated alloys	Gil-Santos, A; Moelans, N; Hort, N; Van der Biest, O	JOURNAL OF ALLOYS AND COMPOUNDS	669		123	133	2016	3.014	AEM
60	Improvement of friction spot welding (FSpW) to join polyamide 6 and polyamide 66/carbon fibre laminate	Gonçalves, J., dos Santos, J.F., Canto, L.B., Filho, S.T.A.	Welding International	30	4	247	254	2016	Scopus	AEM
61	XPS analysis of the interface between AA2024-T3/CF-PPS friction spot joints	Goushegir, S.M., Scharnagl, N., dos Santos, J.F., Amancio-Filho, S.T.	Surface and Interface Analysis	48	8	706	711	2016	Scopus	AEM
62	Friction spot joining (FSpJ) of aluminum-CFRP hybrid structures	Goushegir, SM	Welding in the World	60	6	1073	1093	2016	0.861	AEM
63	Failure and fracture micro-mechanisms in metal-composite single lap joints produced by welding-based joining techniques	Goushegir, SM; dos Santos, JF; Amancio-Filho, ST	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	81		121	128	2016	3.719	AEM
64	Scalable application of thin film coating techniques for supported liquid membranes for gas separation made from ionic liquids	Grünauer, J., Filiz, V., Shishatskiy, S., Abetz, C., Abetz, V.	Journal of Membrane Science	518		178	191	2016	5.557	AEM
65	Role of SiC in grain refinement of aluminum-free Mg-Zn alloys	Gu, J., Huang, Y., Kainer, K.U., Hort, N.	Magnesium Technology	2016-January		177	181	2016	Scopus	AEM

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66	Viscoelastic and dielectric properties of composites of poly(vinyl butyral) and alumina particles with a high filling degree	Handge, UA; Wolff, MFH; Abetz, V; Heinrich, S	POLYMER	82		337	348	2016	3.586	AEM
67	Milling time effect of Reactive Hydride Composites of NaF-NaH-MgB <sub>2</sub> investigated by in situ powder diffraction	Heere, M; Sorby, MH; Pistidda, C; Dornheim, M; Hauback, BC	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	41		13101	13108	2016	3.205	AEM
68	Cold gas spraying - A promising technique for photoelectrodes The example TiO <sub>2</sub>	Herrmann-Geppert, I; Bogdanoff, P; Emmler, T; Dittrich, T; Radnik, J; Klassen, T; Gutzmann, H; Schieda, M	CATALYSIS TODAY	260		140	147	2016	4.312	AEM
69	Influence of oxygen on the fatigue behaviour of Ti-6Al-7Nb alloy	Hidalgo, AA; Ebel, T; Limberg, W; Pyczak, F	KEY ENGINEERING MATERIALS	704		44	52	2016	Scopus	AEM
70	Influence of the blood exposure time in dynamic hemocompatibility testing on coagulation and C5a activation	Hiebl, B; Scharnagl, N; Kaessmeyer, S; Gemeinhardt, O; Gemeinhardt, I; Niehues, SM; Peters, S; and Jung, F;	Journal of Cellular Biotechnology	1	2	145	150	2016	-	AEM
71	The effect of iron re-deposition on the corrosion of impurity-containing magnesium	Hoche, D; Blawert, C; Lamaka, SV; Scharnagl, N; Mendis, C; Zheludkevich, ML	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	2	1279	1291	2016	4.449	AEM
72	Formation of high thermally stable isoporous integral asymmetric block copolymer membranes	Höhme, C., Hahn, J., Lademann, B., Meyer, A., Bajer, B., Abetz, C., Filiz, V., Abetz, V.	EUROPEAN POLYMER JOURNAL	85		72	81	2016	3.485	AEM
73	Substitution of rare earths in magnesium alloys	Hoppe, R., Kurz, G., Letzig, D.	Materials Science Forum	854		51	56	2016	Scopus	AEM
74	Protecting molten magnesium and its alloys	Hort, N; Wiese, B; Dieringa, H; Kainer, KU	La metallurgia Italiana	6		105	108	2016	0.17	AEM
75	Deformation behavior and acoustic emission response on uniaxial compression of extruded rectangular profile of Mg-Zn-Zr alloy	Horvath, K; Drozdenko, D; Mathis, K; Bohlen, J; Dobron, P	JOURNAL OF ALLOYS AND COMPOUNDS	680		623	632	2016	3.014	AEM
76	Nanoporous gold: 3D structural analyses of representative volumes and their implications on scaling relations of mechanical behaviour	Hu K., Ziehmer M., Wang K., Lilleodden E.T.	Philosophical Magazine			1	14	2016	1.632	AEM
77	Molecular Origin and Electrochemical Influence of Capacitive Surface States on Iron Oxide Photoanodes	Hu, Y; Boudoire, F; Hermann-Geppert, I; Bogdanoff, P; Tsekouras, G; Mun, BS; Fortunato, G; Graetzel, M; Braun, A	JOURNAL OF PHYSICAL CHEMISTRY C	120	6	3250	3258	2016	3.187	AEM
78	Material-flow behavior during friction-stir welding of 6082-T6 aluminum alloy	Huang, Y., Wang, Y., Wan, L., Liu, H., Shen, J., Dos Santos, J.F., Zhou, L., Feng, J.	International Journal of Advanced Manufacturing Technology			1	9	2016	1.568	AEM

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79	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys	Huang, Y.; Yang, L.; You, S.; Gan, W.; Kainer, K.U.; Hort, N.	Journal of Magnesium and Alloys	4	3	173	180	2016	Scopus	AEM / MML
80	Introduction	Hughes, A.E., Mol, J.M.C., Zheludkevich, M.L., Buchheit, R.G.	Springer Series in Materials Science	233		1	17	2016	Scopus	AEM
81	Active corrosion protection coating for a ZE41 magnesium alloy created by combining PEO and sol-gel techniques	Ivanou, DK; Yasakau, KA; Kallip, S; Lisenkov, AD; Starykevich, M; Lamaka, SV; Ferreira, MGS; Zheludkevich, ML	RSC ADVANCES	6	15	12553	12560	2016	3.289	AEM
82	Intramedullary Mg2Ag nails augment callus formation during fracture healing in mice	Jähn, K; Saito, H; Taipaleenmaki, H; Gasser, A; Hort, N; Feyerabend, F; Schluter, H; Rueger, JM; Lehmann, W; Willumeit-Romer, R; Hesse, E	ACTA BIOMATERIALIA	36		350	360	2016	6.008	AEM
83	Pilot Scale Separation of CO2 from Power Plant Flue Gases by Membrane Technology	Jan Pohlmann, Martin Bram, Kai Wilkner, Torsten Brinkmann	International Journal of Greenhouse Gas Control	53		56	64	2016	Scopus	AEM
84	Challenges for implementation of magnesium into more applications	Kainer, K.U.	Magnesium Technology	2016-January		5	6	2016	Scopus	AEM
85	Effect of Nd:YAG laser beam welding on weld morphology and mechanical properties of Ti-6Al-4V butt joints and T-joints	Kashaev, N., Ventzke, V., Fomichev, V., Fomin, F., Riekehr, S.	Optics and Lasers in Engineering	86		172	180	2016	Scopus	AEM
86	Microstructure, mechanical properties and creep of magnesium alloy Elektron21 reinforced with AlN nanoparticles by ultrasound-assisted stirring	Katsarou, L; Mounib, M; Lefebvre, W; Vorozhtsov, S; Pavese, M; Badini, C; Molina-Aldareguia, JM; Jimenez, CC; Prado, MTP; Dieringa, H	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	659		84	92	2016	2.647	AEM
87	Degradation Rates and Products of pure Magnesium in Different Aqueous Media under Physiological Conditions	Kieke Marc, Frank Feyerabend, Jacques Lemaitre, Peter Behrens, Regine Willumeit-Römer	BioNanoMaterials	17	03. Apr	131	143	2016	0.571	AEM
88	Local mechanical properties of the (beta(0)+omega(0)) composite in multiphase titanium aluminides studied with nanoindentation at room and high temperatures	Kolb, M; Wheeler, JM; Mathur, HN; Neumeier, S; Korte-Kerzel, S; Pyczak, F; Michler, J; Goken, M	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	665		135	140	2016	2.647	AEM
89	Microstructures and Properties of Plasma Electrolytic Oxidized Ti Alloy (Ti-6Al-4V) for Bio-implant Application	Kumari, R; Blawert, C; Majumdar, JD	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	2	788	800	2016	1.749	AEM
90	Substitution of rare earth elements in magnesium alloys for the sheet production via Twin Roll Casting	Kurz, G., Petersen, T., Portugal Gonzales, I., Hoppe, R., Bohlen, J., Letzig, D.	Magnesium Technology	2016-January		377	382	2016	Scopus	AEM
91	Sealing of tartaric sulfuric (TSA) anodized AA2024 with nanostructured LDH layers	Kuznetsov, B; Serdechnova, M; Tedim, J; Starykevich, M; Kallip, S; Oliveira, MP; Hack, T; Nixon, S; Ferreira, MGS; Zheludkevich, ML	RSC ADVANCES	6	17	13942	13952	2016	3.289	AEM



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92	Microstructure of Ti-45Al-5Nb and Ti-45Al-10Nb powders	Laipple, D.; Stark, A.; Schimansky; F.-P., Schwabke, B.; Pyczak, F.; Schreyer, A.	KEY ENGINEERING MATERIALS	704		214	222	2016	Scopus	AEM / MML
93	A new concept for corrosion inhibition of magnesium: Suppression of iron re-deposition	Lamaka, SV; Hoche, D; Petrauskas, RP; Blawert, C; Zheludkevich, ML	ELECTROCHEMISTRY COMMUNICATIONS	62		5	8	2016	4.569	AEM
94	Membranmaterialentwicklung für CO <sub>2</sub> -Abtrennungsverfahren	Lillepärq, J., Georgopoulos, P., Emmeler, T., Shishatskiy, S	Chemie Ingenieur Technik	88	9	1273	1273	2016	Scopus	AEM
95	Effect of the reactive amino and glycidyl ether terminated polyethylene oxide additives on the gas transport properties of Pebax (R) bulk and thin film composite membranes	Lillepärq, J; Georgopoulos, P; Emmeler, T; Shishatskiy, S	RSC ADVANCES	6	14	11763	11772	2016	3.289	AEM
96	Aluminum Anodization in Deionized Water as Electrolyte	Lisenkov, AD; Poznyak, SK; Zheludkevich, ML; Ferreira, MGS	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	163	7	C364	C368	2016	3.014	AEM
97	Phase Transformation and Residual Stress in a Laser Beam Spot-Welded TiAl-Based Alloy	Liu J., Staron P., Riekehr S., Stark A., Schell N., Huber N., Schreyer A., Müller M., Kashaev N.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	47A	12	5750	5760	2016	1.389	AEM / MML
98	Phase Transformations During Solidification of a Laser-Beam-Welded TiAl Alloy—An In Situ Synchrotron Study	Liu J., Staron P., Riekehr S., Stark A., Schell N., Huber N., Schreyer A., Müller M., Kashaev N.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	47A	12	5761	5770	2016	1.389	AEM / MML
99	Orienting Block Copolymer Thin Films via Entropy	Lo, TY; Dehghan, A; Georgopoulos, P; Avgeropoulos, A; Shi, AC; Ho, RM	MACROMOLECULES	49	2	624	633	2016	5.554	AEM
100	Formation of photocatalytic plasma electrolytic oxidation coatings on magnesium alloy by incorporation of TiO <sub>2</sub> particles	Lu X., Schieda M., Blawert C., Kainer K.U., Zheludkevich M.L.	Surface and Coatings Technology	307		287	291	2016	Scopus	AEM
101	Optimization of crenellation patterns for fatigue crack retardation via genetic algorithm and the reduction in computational cost	Lu, J; Kashaev, N; Huber, N	ENGINEERING FAILURE ANALYSIS	63		21	30	2016	1.358	AEM
102	Plasma electrolytic oxidation coatings on Mg alloy with addition of SiO <sub>2</sub> particles	Lu, X., Blawert, C., Huang, Y., Ovri, H., Zheludkevich, M.L., Kainer, K.U.	Electrochimica Acta	187		20	33	2016	4.803	AEM
103	Plasma electrolytic oxidation coatings with particle additions - a review	Lu, X; Mohedano, M; Blawert, C; Matykina, E; Arrabal, R; Kainer, KU; Zheludkevich, ML	Surface and Coatings Technology	307C		1165	1182	2016	2.139	AEM
104	Investigation of the formation mechanisms of plasma electrolytic oxidation coatings on Mg alloy AM50 using particles	Lu, XP; Blawert, C; Kainer, KU; Zheludkevich, ML	ELECTROCHIMICA ACTA	196		680	691	2016	4.803	AEM

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105	Influence of electrical parameters on particle uptake during plasma electrolytic oxidation processing of AM50 Mg alloy	Lu, XP; Blawert, C; Mohedano, M; Scharnagl, N; Zheludkevich, ML; Kainer, KU	SURFACE & COATINGS TECHNOLOGY	289		179	185	2016	2.139	AEM
106	In vitro corrosion and cytocompatibility properties of Mg-2Gd-X(Ag, Ca) alloys	Lu, Y., Huang, Y., Feyerabend, F., Willumeit-Römer, R., Kainer, K.U., Hort, N.	Magnesium Technology	2016-January		347	351	2016	Scopus	AEM
107	Elastic and plastic Poisson's ratios of nanoporous gold	Luhurs, L; Soyarslan, C; Markmann, J; Bargmann, S; Weissmuller, J	SCRIPTA MATERIALIA	110		65	69	2016	3.305	AEM
108	Effects of magnesium degradation products on mesenchymal stem cell fate and osteoblastogenesis	Luthringer, BJC; Willumeit-Romer, R	GENE	575	1	9	20	2016	2.319	AEM
109	Anisotropic constitutive model incorporating multiple damage mechanisms for multiscale simulation of dental enamel	Ma, S., Scheider, I., Bargmann, S.	Journal of the Mechanical Behavior of Biomedical Materials	62		515	533	2016	2.876	AEM
110	Continuum damage modeling and simulation of hierarchical dental enamel	Ma, S; Scheider, I; Bargmann, S	MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING	24	4			2016	1.859	AEM
111	Investigation of electrode distance impact on PEO coating formation assisted by simulation	Ma, X; Blawert, C; Hoeche, D; Zheludkevich, ML; Kainer, KU	Applied Surface Science	388A		304	312	2016	3.150	AEM
112	Influence of crystallographic texture on the microstructure, tensile properties and residual stress state of laser-welded titanium joints	Maawad, E; Gan, WM; Hofmann, M; Ventzke, V; Riekehr, S; Brokmeier, HG; Kashaev, N; Muller, M	MATERIALS & DESIGN	101		137	145	2016	3.997	AEM / MML
113	Corrosion protection of AA2024 by sol-gel coatings modified with MBT-loaded polyurea microcapsules	Maia, F; Yasakau, KA; Carneiro, J; Kallip, S; Tedim, J; Henriques, T; Cabral, A; Venancio, J; Zheludkevich, ML; Ferreira, MGS	CHEMICAL ENGINEERING JOURNAL	283		1108	1117	2016	5.310	AEM
114	Brittle Coating Layers for Impact Detection in CFRP	Maia, F; Yasakau, KA; Tedim, J; Zheludkevich ML;	Smart Intelligent Aircraft Structures (SARISTU)	Part VIII		725	733	2016	-	AEM
115	Degradation morphology and pitting factor compared to degradation rate	Maier P., Jorge Gonzalez, R. Peters, F. Feyerabend, T. Ebel and N. Hort	European Cells and Materials	32	S6	22		2016	4.560	AEM
116	Influence of Precipitation Hardening in Mg-Y-Nd on Mechanical and Corrosion Properties	Maier, P; Peters, R; Mendis, C; Muller, S; Hort, N	JOM	68	4	1183	1190	2016	1.798	AEM
117	Nanoporous Gold-Testing Macro-scale Samples to Probe Small-scale Mechanical Behavior	Mameka, N; Wang, K; Markmann, J; Lilleodden, ET; Weissmuller, J	MATERIALS RESEARCH LETTERS	4	1	27	36	2016	0	AEM
118	Degradation testing of Mg alloys in Dulbecco's modified eagle medium: Influence of medium sterilization	Marco, I; Feyerabend, F; Willumeit-Romer, R; Van der Biest, O	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	62		68	78	2016	3.420	AEM

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119	Application of scanning electrode techniques for the evaluation of iron-zinc corrosion in nearly neutral chloride solutions	Marques, AG; Taryba, MG; Panao, AS; Lamaka, SV; Simoes, AM	CORROSION SCIENCE	104		123	131	2016	5.154	AEM
120	Microstructural changes in an extruded Mg-Zn-Y alloy reinforced by quasicrystalline I-phase by small additions of calcium, manganese and cerium-rich mischmetal	Medina, J., Pérez, P., Garces, G., Tolnai, D., Stark, A., Schell, N., Adeva, P.	Materials Characterization	118		186	198	2016	2.383	AEM / MML
121	PEO of rheocast A356 Al alloy: energy efficiency and corrosion properties	Mohedano, M., Matykina, E., Arrabal, R., Mingo, B., Zheludkevich, M.L.	Surface and Interface Analysis	48	8	953	959	2016	Scopus	AEM
122	Effects of Corroded and Non-Corroded Biodegradable Mg and Mg Alloys on Viability, Morphology and Differentiation of MC3T3-E1 Cells Elicited by Direct Cell/Material Interaction	Mostofi, S; Bonyadi Rad, E; Wiltsche, H; Fasching, U; Szakacs, G; Ramskogler, C; Srinivasaiah, S; Ueçal, M; Willumeit, R; Weinberg, AM; Schaefer, U.	PLoS ONE	11	7	e0159879		2016	3.057	AEM
123	Physical ageing and lifetime prediction of polymer membranes for gas separation processes	Müller, N., Handge, U.A., Abetz, V.	Journal of Membrane Science	516		33	46	2016	5.557	AEM
124	Detailed Investigation of Separation Performance of a MMM for Removal of Higher Hydrocarbons under Varying Operating Conditions	Mushardt, H; Muller, M; Shishatskiy, S; Wind, J; Brinkmann, T	MEMBRANES	6	1			2016	0	AEM
125	In vivo degradation of binary magnesium alloys - A long-term study	Myrissa A., Martinelli E., Szakacs G., Berger L., Eichler J., Fischerauer S.F., Kleinhans C., Hort N., Schäfer U., Weinberg A.M.	BioNanoMaterials	17	3-4	121	130	2016	Scopus	AEM
126	In vitro and in vivo comparison of binary Mg alloys and pure Mg	Myrissa, A; Agha, NA; Lu, YY; Martinelli, E; Eichler, J; Szakacs, G; Kleinhans, C; Willumeit-Romer, R; Schafer, U; Weinberg, AM	MATERIALS SCIENCE & ENGINEERING C- MATERIALS FOR BIOLOGICAL APPLICATIONS	61		865	874	2016	3.420	AEM
127	Lurie solution for spherical particle and spring layer model of interphases: Its application in analysis of effective properties of composites	Nazarenko, L; Bargmann, S; Stolarski, H	MECHANICS OF MATERIALS	96		39	52	2016	2.636	AEM
128	Towards microstructure-cytocompatibility relationship in ultralight Mg-4Li-1Ca (LX41) alloy for degradable implant applications	Nene, Saurabh Sanjay, Estrin, Yuri, Kashyap, Bhagawati Prasad, Prabhu, Nithyananad, Al-Samman, Talal, Luthringer, Berengere JC, Willumeit, Regine	BioNanoMaterials	17	3	103	111	2016	0.571	AEM
129	On the Determination of Magnesium Degradation Rates under Physiological Conditions	Nidadavolu, EPS; Feyerabend, F; Ebel, T; Willumeit-Romer, R; Dahms, M	Materials	9	8	627		2016	2.728	AEM

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130	A Facile Method to Prepare Double-Layer Isoporous Hollow Fiber Membrane by In Situ Hydrogen Bond Formation in the Spinning Line	Noor, N; Koll, J; Radjabin, M; Abetz, C; Abetz, V	MACROMOLECULAR RAPID COMMUNICATIONS	37	5	414	419	2016	4.638	AEM
131	Synthesis, characterization and self-assembly of well-defined linear heptablock quaterpolymers	Ntaras C., Polymeropoulos G., Zapsas G., Ntetsikas K., Lontos G., Karanastasis A., Moschovas D., Rangou S., Stewart-Sloan C., Hadjichristidis N., Thomas E.L., Avgeropoulos A.	Journal of Polymer Science, Part B: Polymer Physics	54	15	1443	1449	2016	Scopus	AEM
132	Sorption and transport of CO <sub>2</sub> in copolymers containing soft (PEO, PPO) and hard (BKDA-ODA and BPDA-ODA) segments at different temperatures: Experimental data and modeling	Olivieri L., Tena A., De Angelis M.G., Giménez A.H., Lozano A.E., Sarti G.C.	Journal of Membrane Science	520		187	200	2016	Scopus	AEM
133	Controlling the shape of Janus nanostructures through supramolecular modification of ABC terpolymer bulk morphologies	Panu Hiekkataipale, Tina I. Löbbling, Mikko Poutanen, Arri Priimagi, Volker Abetz, Olli Ikkala, André H. Gröschel	POLYMER	107		456	465	2016	3.586	AEM
134	Cyclic stability and structure of nanoconfined Ti-doped NaAlH <sub>4</sub>	Paskevicius, M; Filso, U; Karimi, F; Puszkiel, J; Pranzas, PK; Pistidda, C; Hoell, A; Welter, E; Schreyer, A; Klassen, T; Dornheim, M; Jensen, TR	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	41	7	4159	4167	2016	3.205	AEM / MML
135	On the Bauschinger effect in TiAl alloys	Paul, JDH; Hoppe, R; Appel, F	ACTA MATERIALIA	104		101	108	2016	3.729	AEM
136	Fatigue behavior of friction spot welds in lap shear specimens of AA5754 and Ti6Al4V alloys	Plaine, A.H., Suhuddin, U.F.H., Alcântara, N.G., dos Santos, J.F.	International Journal of Fatigue	91		149	157	2016	2.162	AEM
137	Process parameter optimization in friction spot welding of AA5754 and Ti6Al4V dissimilar joints using response surface methodology	Plaine, AH; Gonzalez, AR; Suhuddin, UFH; dos Santos, JF; Alcantara, NG	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	85	05. Aug	1575	1583	2016	1.568	AEM
138	Interface formation and properties of friction spot welded joints of AA5754 and Ti6Al4V alloys	Plaine, AH; Suhuddin, UFH; Afonso, CRM; Alcantara, NG; dos Santos, JF	MATERIALS & DESIGN	93		224	231	2016	3.997	AEM
139	Processing of Al-12Si-TNM composites by selective laser melting and evaluation of compressive and wear properties	Prashanth, KG; Scudino, S; Chaubey, AK; Lober, L; Wang, P; Attar, H; Schimansky, FP; Pyczak, F; Eckert, J	JOURNAL OF MATERIALS RESEARCH	31	1	55	65	2016	1.579	AEM
140	Influence of block sequence and molecular weight on morphological, rheological and dielectric properties of weakly and strongly segregated styrene-isoprene triblock copolymers	Prokopios Georgopanos, Ulrich A. Handge, Clarissa Abetz, Volker Abetz	Polymer	in press				2016	1.629	AEM

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141	Role of steel and zinc coating thickness in cut edge corrosion of coil coated materials in atmospheric weathering conditions; Part 1: Laboratory study	Prosek, T., Nazarov, A., Xue, H.B., Lamaka, S., Thierry, D.	Progress in Organic Coatings	99		356	364	2016	2.632	AEM
142	Orthorhombic phase formation in a Nb-rich gamma-TiAl based alloy - An in situ synchrotron radiation investigation	Rackel, M; Stark, A; Gabrisch, H; Schell, N; Schreyer, A; Pyczak, F	ACTA MATERIALIA	121		343	351	2016	5.149	AEM / MML
143	A thermodynamic study of CO2 sorption and thermal transition of PolyActive (TM) under elevated pressure	Rahman, MM; Lilleparg, J; Neumann, S; Shishatskiy, S; Abetz, V	POLYMER	93		132	141	2016	3.586	AEM
144	Forging of cast Mg-3Sn-2Ca-0.4Al-0.4Si magnesium alloy using processing map	Rao, KP; Suresh, K; Prasad, YVRK; Hort, N; Kainer, KU	JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY	30	6	2699	2705	2016	0.761	AEM
145	Effect of current density on the microstructure and corrosion properties of plasma electrolytic oxidation (PEO) coatings on AM50 Mg alloy produced in an electrolyte containing clay additives	Rapheal, G; Kumar, S; Scharnagl, N; Blawert, C	SURFACE & COATINGS TECHNOLOGY	289		150	164	2016	2.139	AEM
146	Keyhole closure using friction spot welding in aluminum alloy 6061-T6	Reimann, M., Gartner, T., Suhuddin, U., Göbel, J., Dos Santos, J.F.	Journal of Materials Processing Technology	237		12	18	2016	2.359	AEM
147	Functional micelles formed by branched polymeric surfactants: Synthesis, characteristics, and application as nanoreactors and carriers	Riabtseva, A.; Mitina, N.; Grytsyna, I.; Boiko, N.; Garamus, V. M.; Stryhanyuk, H.; Stoika, R.; Zaichenko, A.	European Polymer Journal	75		406	422	2016	2.143	AEM / MML
148	Fatigue Crack Growth Behaviour in Friction Stir Welded Aluminium-Lithium Alloy Subjected to Biaxial Loads	Richter-Trummer, V., Zhang, X., Irving, P.E., Pacchione, M., Beltrão, M., dos Santos, J.F.	Experimental Techniques	40	3	921	935	2016	0.716	AEM
149	Environmentally friendly anodising process for structural bonding of titanium	Rico-Oller, B; Mertens, T; Kolb, M; Wehr, J; Zheludkevich, M	MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK	47	05. Jun	400	408	2016	0.393	AEM
150	Scaling laws of nanoporous gold under uniaxial compression: Effects of structural disorder on the solid fraction, elastic Poisson's ratio, Young's modulus and yield strength	Roschning, B., Huber, N.	Journal of the Mechanics and Physics of Solids	92		55	71	2016	3.875	AEM
151	Differentiation of human mesenchymal stromal cells cultured on collagen sponges for cartilage repair	Sanjurjo-Rodriguez Clara, Adela Helvia Martínez-Sánchez, Tamara Hermida-Gómez, Francisco J Blanco	Histol Histopathol	31	11	1221	1239	2016	1.875	AEM

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152	A new potassium-based intermediate and its role in the desorption properties of the K-Mg-N-H system	Santorù, A; Garroni, S; Pistidda, C; Milanese, C; Girella, A; Marini, A; Masolo, E; Valentoni, A; Bergemann, N; Le, TT; Cao, H; Haase, D; Balmes, O; Taube, K; Mulas, G; Enzo, S; Klassen, T; Dornheim, M	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	5	3910	3920	2016	4.449	AEM
153	Glioblastoma Cell Type-Specific Loading with Iron Oxide Magnetic Nanoparticles	Scharfenberg Dorothee, Bérengère Luthringer, Katrin Lamszus, Regine Willumeit-Römer	BioNanoScience	6	4	297	307	2016	Scopus	AEM
154	Thermodynamic description of reactions between Mg and CaO	Schmid-Fetzer, R., Kozlov, A., Wiese, B., Mendis, C.L., Tolnai, D., Kainer, K.U., Hort, N.	Magnesium Technology	2016- January		67	72	2016	Scopus	AEM
155	Automatic three-dimensional geometry and mesh generation of periodic representative volume elements for matrix-inclusion composites	Schneider, K., Klusemann, B., Bargmann, S.	Advances in Engineering Software	99		177	188	2016	1.673	AEM
156	Nanostructured MWCNT/Polypyrrole Actuators with Anisotropic Strain Response	Schnoor, T.I.W., Vainio, U., Shao, L.-H., Lilleodden, E.T., Müller, M., Schreyer, A., Schulte, K., Fiedler, B.	ADVANCED ENGINEERING MATERIALS	18	4	597	607	2016	1.817	AEM / MML
157	Interlayer intercalation and arrangement of 2-mercaptobenzothiazolate and 1,2,3-benzotriazolate anions in layered double hydroxides: In situ X-ray diffraction study	Serdechnova, M; Salak, AN; Barbosa, FS; Vieira, DEL; Tedim, J; Zheludkevich, ML; Ferreira, MGS	JOURNAL OF SOLID STATE CHEMISTRY	233		158	165	2016	2.265	AEM
158	Metal hydrides for concentrating solar thermal power energy storage	Sheppard, DA; Paskevicius, M; Humphries, TD; Felderhoff, M; Capurso, G; von Colbe, JB; Dornheim, M; Klassen, T; Ward, PA; Teprovich, JA; Corngale, C; Zidan, R; Grant, DM; Buckley, CE	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	122	4			2016	1.444	AEM
159	Comparison of the synergistic effects of inhibitor mixtures tailored for enhanced corrosion protection of bare and coated AA2024-T3	Snihrova, D; Lamaka, SV; Taheri, P; Mol, JMV; Montemor, MF	Surface and Coatings Technology	303B		342	351	2016	2.139	AEM
160	4 - Smart composite coatings for corrosion protection of aluminium alloys in aerospace applications	Snihrova, D; Lamaka, SV; Montemor, MF	Book Chapter in "Smart Composite Coatings and Membranes"			85	121	2016	Elsevier, Woodhead Publishing	AEM
161	Corrosion inhibition synergies on a model Al-Cu-Mg sample studied by localized scanning electrochemical techniques	Snihrova, D; Taryba, M; Lamaka, SV; Montemor, MF	Corrosion Science	112		408	417	2016	5.154	AEM
162	Chemical changes in polyetherimide (PEI) joined by friction-based injection clinching joining (F-ICJ) technique	Sônego, M., Abibe, A.B., Dos Santos, J.F., Canto, L.B., Amancio-Filho, S.T.	AIP Conference Proceedings	1779				2016	Proceeding	AEM
163	Hot tearing characteristics of Mg-2Ca-xZn alloys	Song, JF; Wang, Z; Huang, YD; Srinivasan, A; Beckmann, F; Kainer, KU; Hort, N	JOURNAL OF MATERIALS SCIENCE	51	5	2687	2704	2016	1.579	AEM / MML

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164	Structure-property relationships in nanoporous metallic glasses	Sopu, D; Soyarslan, C; Sarac, B; Bargmann, S; Stoica, M; Eckert, J	ACTA MATERIALIA	106		199	207	2016	3.729	AEM
165	The effect of yield surface curvature change by cross hardening on forming limit diagrams of sheets	Soyarslan C., Klusemann B., Bargmann S.	International Journal of Mechanical Sciences	117		53	66	2016	Scopus	AEM
166	Thermomechanical formulation of ductile damage coupled to nonlinear isotropic hardening and multiplicative viscoplasticity	Soyarslan, C; Bargmann, S	JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS	91		334	358	2016	3.875	AEM
167	Modeling of fracture in small punch tests for small- and large-scale yielding conditions at various temperatures	Soyarslan, C; Gulcimen, B; Bargmann, S; Hahner, P	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	106		266	285	2016	2.481	AEM
168	Variants of Lemaitre's damage model and their use in formability prediction of metallic materials	Soyarslan, C; Richter, H; Bargmann, S	MECHANICS OF MATERIALS	92		58	79	2016	2.636	AEM
169	A Thermomechanically Consistent Constitutive Theory for Modeling Micro-Void and/or Micro-Crack Driven Failure in Metals at Finite Strains	Soyarslan, C; Turtuk, IC; Deliktas, B; Bargmann, S	INTERNATIONAL JOURNAL OF APPLIED MECHANICS	8	1			2016	1.468	AEM
170	Creep behavior of Mg-10Gd-xZn (x=2 and 6 wt%) alloys	Srinivasan, A; Dieringa, H; Mendis, CL; Huang, Y; Kumar, RR; Kainer, KU; Hort, N	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	649		158	167	2016	2.647	AEM
171	Texture-based forming limit prediction for Mg sheet alloys ZE10 and AZ31	Steglich D., Jeong Y.	International Journal of Mechanical Sciences	117		102	114	2016	Scopus	AEM
172	Mechanism-based modelling of plastic deformation in magnesium alloys	Steglich, D; Tian, X; Besson, J	EUROPEAN JOURNAL OF MECHANICS A-SOLIDS	55		289	303	2016	2.453	AEM
173	Microstructure evolution and corrosion behaviour of the biodegradable EZK1110 alloy	Steinacker A., C.L. Mendis, M. Mohedano, F. Feyerabend, M. Stekker, P. Maier, K.U. Kainer, N. Hort	European Cells and Materials	32	56	11		2016	4.560	AEM
174	Piezoelectric Gold: Strong Charge-Load Response in a Metal-Based Hybrid Nanomaterial	Stenner, C., Shao, L.-H., Mameka, N., Weissmüller, J.	Advanced Functional Materials	26	28	5174	5181	2016	11.382	AEM
175	Electrochemically Tunable Resistance of Nanoporous Platinum Produced by Dealloying	Steyskal E.-M., Qi Z., Pölt P., Albu M., Weissmüller J., Würschum R.	Langmuir	32	31	7757	7764	2016	Scopus	AEM
176	Effect of processing route on texture and cold formability of AZ31 Mg alloy sheets processed by ECAP	Suh, J; Victoria-Hernandez, J; Letzig, D; Golle, R; Volk, W	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	669		159	170	2016	2.647	AEM

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177	Enhanced mechanical behavior and reduced mechanical anisotropy of AZ31 Mg alloy sheet processed by ECAP	Suh, J; Victoria-Hernandez, J; Letzig, D; Golle, R; Volk, W	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	650		523	529	2016	2.647	AEM
178	As solidified microstructure investigation of Mg <sub>15</sub> Y and Mg <sub>x</sub> Y <sub>2</sub> Gd <sub>1-x</sub> (x+y=15 wt.%) ternary alloys	Szakács, G., Mendis, C.L., Tolnai, D., Vlcek, M., Lukác, F., Stulíková, I., Smola, B., Wolff, M., Schmid-Fetzer, R., Schell, N., Kainer, K.U., Hort, N.	Magnesium Technology	2016-January		23	27	2016	Scopus	AEM / MML
179	Extensional flow behavior of aqueous guar gum derivative solutions by capillary breakup elongational rheometry (CaBER)	Szopinski, D; Handge, UA; Kulicke, WM; Abetz, V; Luinstra, GA	CARBOHYDRATE POLYMERS	136		834	840	2016	4.219	AEM
180	In situ analysis of the forging process of a novel $\gamma$ -TiAl alloy using synchrotron radiation	Tankoua, T; Stark, A; Rackel, M; Pyczak, F; von Hehl, A	MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK	47		1109	1120	2016	0.424	AEM / MML
181	Corrosion protection of AA2024-T3 by LDH conversion films. Analysis of SVET results	Tedim, J., Bastos, A.C., Kallip, S., Zheludkevich, M.L., Ferreira, M.G.S.	Electrochimica Acta	210		215	224	2016	4.803	AEM
182	Claisen thermally rearranged (CTR) polymers	Tena, A; Rangou, S; Shishatskiy, S; Filiz, V; Abetz, V	SCIENCE ADVANCES	2	7	e1501859		2016	-	AEM
183	Process Optimization of Dual-Laser Beam Welding of Advanced Al-Li Alloys Through Hot Cracking Susceptibility Modeling	Tian, YT; Robson, JD; Riekehr, S; Kashaev, N; Wang, L; Lowe, T; Karanika, A	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	7	3533	3544	2016	1.749	AEM
184	An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mg-1Sr alloy	Tie, D; Guan, RG; Liu, HN; Cipriano, A; Liu, YL; Wang, Q; Huang, YD; Hort, N	ACTA BIOMATERIALIA	29		455	467	2016	6.008	AEM
185	The weld interface for friction spot welded 5052 aluminium alloy	Tier M.D., Rosendo T.S., Mazzaferro J.A., Mazzaferro C.P., Dos Santos J.F., Strohaecker T.R.	International Journal of Advanced Manufacturing Technology			1	10	2016	1.568	AEM
186	In situ synchrotron radiation diffraction of the solidification of Mg-Dy(-Zr) alloys	Tolnai, D., Staron, P., Staeck, A., Eckerlebe, H., Schell, N., Müller, M., Gröbner, J.	Magnesium Technology	2016-January		17	21	2016	Scopus	AEM
187	The Role of Zn on the Elevated Temperature Compression Behavior of Mg <sub>5</sub> Nd: An In Situ Synchrotron Radiation Diffraction Study	Tolnai, D.; Buzolin, R. H.; Elia, F. D.; Subroto, T.; Gavras, S.; Stark, A.; Schell, N.; Kainer, K. U.; Hort, N.	JOM	68	12	3051	3056	2016	1.831	AEM / MML
188	In Situ Synchrotron Radiation Diffraction of The Solidification of Mg-Dy(-Zr) Alloys	Tolnai, D.; Staron, P.; Staeck, A.; Eckerlebe, H.; Schell, N.; Mueller, M.; Groebner, J.; Hort, N.; Hrsg.: Singh, A.; Solanki, K.; Manuel, M.V.; Neelameggham, N.R.	Magnesium Technology 2016, TMS 2016 Supplemental Proceedings, 145th Annual Meeting and Exhibition, TMS 2016. Nashville, TN (USA)			17	21	2016	Proceeding	AEM / MML
189	2LiBH(4)-MgH <sub>2</sub> nanoconfined into carbon aerogel scaffold impregnated with ZrCl <sub>4</sub> for reversible hydrogen storage	Utke, R; Thiangviriyi, S; Javadian, P; Jensen, TR; Milanesi, C; Klassen, T; Dornheim, M	MATERIALS CHEMISTRY AND PHYSICS	169		136	141	2016	2.101	AEM



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190	Strain-induced selective grain growth in AZ31 Mg alloy sheet deformed by equal channel angular pressing	Victoria-Hernandez, J; Suh, J; Yi, S; Bohlen, J; Volk, W; Letzig, D	MATERIALS CHARACTERIZATION	113		98	107	2016	2.383	AEM
191	Global and local mechanical properties and microstructure of Bobbin tool friction-stir-welded Al-Li alloy	Wang, FF; Li, WY; Shen, J; Zhang, ZH; Li, JL; dos Santos, JF	SCIENCE AND TECHNOLOGY OF WELDING AND JOINING	21	6	479	483	2016	1.659	AEM
192	Kink formation and concomitant twin nucleation in Mg-Y	Wang, L; Sabisch, J; Lilleodden, ET	SCRIPTA MATERIALIA	111		68	71	2016	3.305	AEM
193	Microstructure Tracking of Ti-6Al-4V by In-Situ Synchrotron Diffraction During Thermomechanical Process in Beta Field	Warchomicka, F.; Zehetner, E.; Poletti, C.; Stark, A.; Requena, G.; Eds.: Venkatesh, V.; Pilchak, A.L.; Allison, J.E.; Sreeramamurthy Ankem, S.; Boyer, R.; Christodoulou, J.; Fraser, H.L.; Imam, M.A.; Kosaka, Y.; Rack, H.J.; Chatterjee, A.; Woodfield, A.	Proceedings of the 13th World Conference on Titanium, Ti 2015. San Diego, CA (USA)			783	788	2016	Proceeding	AEM / MML
194	Structure of DPPC-hyaluronan interfacial layers - effects of molecular weight and ion composition	Wieland, DCF; Degen, P; Zander, T; Gayer, S; Raj, A; An, JX; Dedinaite, A; Claesson, P; Willumeit-Romer, R	SOFT MATTER	12	3	729	740	2016	3.798	AEM / MML
195	Studying solutions at high shear rates: a dedicated microfluidics setup	Wieland, DCF; Garamus, VM; Zander, T; Krywka, C; Wang, M; Dedinaite, A; Claesson, PM; Willumeit-Romer, R	JOURNAL OF SYNCHROTRON RADIATION	23		480	486	2016	1.877	AEM / MML
196	Corrosion fatigue assessment of creep-resistant magnesium alloy Mg-4Al-2Ba-2Ca in aqueous sodium chloride solution	Wittke, P; Klein, M; Dieringa, H; Walther, F	INTERNATIONAL JOURNAL OF FATIGUE	83		59	65	2016	2.162	AEM
197	Preliminary microstructural investigation of Mg produced by SLM	Wohlfender F., S. Saxer, B. Wiese, J. Rüegg, A. Dietschy, R. Schumacher, M. de Wild	European Cells and Materials	32	51	24		2016	4.560	AEM
198	Magnesium Powder Injection Molding (MIM) of Orthopedic Implants for Biomedical Applications	Wolff, M; Schaper, JG; Suckert, MR; Dahms, M; Ebel, T; Willumeit-Romer, R; Klassen, T	JOM	68	4	1191	1197	2016	1.798	AEM
199	Metal Injection Molding (MIM) of Magnesium and Its Alloys	Wolff, M; Schaper, JG; Suckert, MR; Dahms, M; Feyerabend, F; Ebel, T; Willumeit-Romer, R; Klassen, T	METALS	6	5	118		2016	1.574	AEM
200	Solid solution strengthening in Mg-Gd alloys	Xu, Y., Ren, Z., Huang, Y., Kainer, K., Hort, N.	Magnesium Technology	2016-January		135	139	2016	Scopus	AEM
201	Influence of stripping and cooling atmospheres on surface properties and corrosion of zinc galvanizing coatings	Yasakau K.A., Giner I., Vree C., Ozcan O., Grothe R., Oliveira A., Grundmeier G., Ferreira M.G.S., Zheludkevich M.L.	Applied Surface Science	389		144	156	2016	Scopus	AEM
202	Initial stages of localized corrosion at cut-edges of adhesively bonded Zn and Zn-Al-Mg galvanized steel	Yasakau, K.A., Kallip, S., Lisenkov, A., Ferreira, M.G.S., Zheludkevich, M.L.	Electrochimica Acta	211		126	141	2016	4.803	AEM

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203	Microstructure and mechanical properties of Ca containing AZX310 alloy sheets produced via twin roll casting technology	Yi, S., Park, J.H., Letzig, D., Kwon, O.D., Kainer, K.U., Kim, J.J.	Magnesium Technology	2016-January		383	387	2016	Scopus	AEM
204	Microstructure evolution of Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy during deformation and its effect on strengthening	Yu, ZJ; Huang, YD; Gan, WM; Mendis, CL; Zhong, ZY; Brokmeier, HG; Hort, N; Meng, J	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	657		259	268	2016	2.647	AEM / MML
205	Corrosion and Its Context in Service Life	Zander, D; Höche, D; Deconinck, J; Hack, T;	Handbook of Software Solutions for ICME			227	245	2016	-	AEM
206	The influence of hyaluronan on the structure of a DPPC-bilayer under high pressures	Zander, T; Wieland, DCF; Raj, A; Wang, M; Nowak, B; Krywka, C; Dedinaite, A; Claesson, PM; Garamus, VM; Schreyer, A; Willumeit-Romer, R	COLLOIDS AND SURFACES B-BIOINTERFACES	142		230	238	2016	3.902	AEM / MML
207	Corrosion resistance of cerium-doped zinc calcium phosphate chemical conversion coatings on AZ31 magnesium alloy	Zeng, RC; Hu, Y; Zhang, F; Huang, YD; Wang, ZL; Li, SQ; Han, EH	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	26	2	472	483	2016	1.340	AEM
208	Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic coatings on a magnesium alloy	Zhang, Y., Blawert, C., Tang, S., Hu J., Mohedano M., Zheludkevich, M.L., Kainer, K.U.	Corrosion Science	112		483	494	2016	5.154	AEM
209	Doxorubicin hydrochloride-oleic acid conjugate loaded nanostructured lipid carriers for tumor specific drug release	Zhao, S., Minh, L.V., Li, N., Garamus, V.M., Handge, U.A., Liu, J., Zhang, R., Willumeit-Römer, R., Zou, A.	Colloids and Surfaces B: Biointerfaces	145		95	103	2016	3.902	AEM / MML
210	Delivery systems for self healing protective coatings	Zheludkevich, M.L., Hughes, A.E.	Springer Series in Materials Science	233		157	199	2016	Scopus	AEM
211	Protection of multimaterial assemblies	Zheludkevich, M.L., Kallip, S., Serdechnova, M.	Nanomaterials in Joining			73	102	2016	Scopus	AEM
212	Recent insights on Mg corrosion and its inhibition – Neueste Einblicke in die Mg-Korrosion sowie dessen Inhibierung	Zheludkevich, ML; Blawert, C; Lamaka, SV; Höche, D	3-Länder-Korrosionstagung, Dechema, Frankfurt am Main, Germany					2016	Conference Proceedings	AEM
213	Proteomic profile of mouse fibroblasts exposed to pure magnesium extract	Zhen, Z., Luthringer, B., Yang, L., Xi, T., Zheng, Y., Feyerabend, F., Willumeit, R., Lai, C., Ge, Z.	Materials Science and Engineering C	69		522	531	2016	Scopus	AEM
214	A principle curvatures analysis of the isothermal evolution of nanoporous gold: Quantifying the characteristic length-scales	Ziehmer M., Hu K., Wang K., Lilleodden E.T.	Acta Materialia	120		24	31	2016	Scopus	AEM

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1	Design and Processing of Advanced Functional Polymers for Medicine	Balk M., D.W. Grijpma, A. Lendlein,	Polymers for Advanced Technologies					2016	1.823	BIFTM
2	Design of polycationic micelles by selfassembly of polyethyleneimine functionalized oligo[[E-caprolactone)-Co-glycolide] Aba block copolymers	Balk M., M. Behl, J. Yang, Q. Li, C. Wischke, Yakai Fengb,c and Andreas Lendlein	Polymers for Advanced Technologies					2016	1.823	BIFTM
3	Architected Shape-Memory Hydrogels with Switching Segments Based on Oligo( $\epsilon$ -caprolactone)	Balk M., M. Behl, U. Nöchel, A. Lendlein	MRS Advances					2016	Proceeding	BIFTM
4	Recent Advances in Degradable Lactide-Based Shape Memory Polymers	Balk, M.; Behl, M.; Wischke, C.; Zotzmann, J.; Lendlein A.	Adv Drug Deliver Rev					2016	15.606	BIFTM
5	Robot Assisted Polyurethane Chain Extension of Dihydroxy Telechelic Depsipeptides	Baudis S., M. Balk, A. Lendlein, M. Behl	MRS Advances					2016	Proceeding	BIFTM
6	Modulation of the Post-Infarct Immune Response by Epicardial Application of Decellularized Amniotic Membrane	Becker M., A. Bader, R. Roy, M. Seifert, Y.-H Choi, V. Falk, N. Ma, C. Stamm	The Thoracic and Cardiovascular Surgeon					2016	0.957	BIFTM
7	Langmuir-Schaefer films of fibronectin as designed biointerfaces for culturing stem cells	Bhuvanesh T., S. Saretia, T. Roch, A.-C. Schöne, F. O. Rottke, K. Kratz, W. Wang, N. Ma, B. Schulz, A. Lendlein	Polymers for Advanced Technologies					2016	1.823	BIFTM
8	Controlling surface properties and permeability of polyglycerol network films	Bianco A.D., C. Wischke, S. Zhou, A. Lendlein	Polymers for Advanced Technologies					2016	1.823	BIFTM
9	Melt-Processable Shape-Memory Hydrogels with Self-Healing Ability of High Mechanical Strength	Bilici C., V. Can, U. Nöchel, M. Behl, A. Lendlein, O. Okay	Macromolecules	49	19	7442	7449	2016	5.554	BIFTM
10	Response of encapsulated cells to a gelatin matrix with varied bulk and microenvironmental elastic properties	Blocki, A., C. Löwenberg, Y. Jiang, K. Kratz, A.T. Neffe, F. Jung, A. Lendlein	Polymers for Advanced Technologies					2016	1.823	BIFTM
11	Detecting and Quantifying Biomolecular Interactions of a Dendritic Polyglycerol Sulfate Nanoparticle Using Fluorescence Lifetime Measurements	Boreham, A; Pikkemaat, J; Volz, P; Brodewolf, R; Kuehne, C; Licha, K; Haag, R; Dervedde, J; Alexiev, U	MOLECULES	21	1			2016	2.465	BIFTM
12	Strategy for the hemocompatibility testing of microparticles	Braune S., S. Basu, K. Kratz, J. Bäckemo Johansson, M. Reinthaler, A. Lendlein, F. Jung	Clin Hemorheol Microcirc	64	3	345	353	2016	1.815	BIFTM

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13	Adhesion and activation of platelets from subjects with coronary artery disease and apparently healthy individuals on biomaterials	Braune, S; Gross, M; Walter, M; Zhou, S; Dietze, S; Rutschow, S; Lendlein, A; Tschöpe, C; Jung, F	JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS	104	1	210	217	2016	2.881	BIFTM
14	Influence of surfactants on desipепptide submicron particle formation	Brunacci N., C. Wischke, T. Naolou, A.T. Neffe, A.Lendlein	Eur. J. Pharm. Biopharm.					2016	3.975	BIFTM
15	Microgels from microfluidic templating and photoinduced crosslinking of cinnamylidene acetic acid modified precursors	Ceylan Tuncaboylu D., C. Wischke, F. Störmann, A. Lendlein	React. Funct Polym	112		68	73	2016	2.725	BIFTM
16	Fabrication of honeycomb films from highly functional dendritic structures: electrostatic force driven immobilization of biomolecules	De Leon, AS; Malhotra, S; Molina, M; Calderon, M; Munoz-Bonilla, A; Rodriguez-Hernandez, J	POLYMER CHEMISTRY	7	24	4112	4120	2016	5.687	BIFTM
17	Effect of Droplet Size in Acrylamide-Based Microgel Formation by Microfluidics	Di Lorenzo F., S. Seiffert	Macromol React Eng	10	3		201	205	1.256	BIFTM
18	Synthesis of pH-Cleavable dPG-Amines for Gene Delivery Application	Dimde, M., Steinhilber, D., Neumann, F., Li, Y., Paulus, F., Ma, N., Haag, R.	Macromolecular Bioscience					2016	3.680	BIFTM
19	A Highly Photostable Hyperbranched Polyglycerol-Based NIR Fluorescence Nanoplattform for Mitochondria-Specific Cell Imaging	Dong, C., Liu, Z., Liu, J., Wu, C., Neumann, F., Wang, H., Schäfer-Korting, M., Kleuser, B., Chang, J., Li, W., Ma, N., Haag, R.	Advanced Healthcare Materials					2016	5.760	BIFTM
20	Development of biodegradable hyperbranched core-multishell nanocarriers for efficient topical drug delivery	Du F., S. Hönzke, F. Neumann, J. Keilitz, W. Chen, N. Ma, S. Hedtrich, R. Haag	J Contr Release					2016	7.441	BIFTM
21	Specific uptake mechanisms of well-tolerated thermoresponsive polyglycerol-based nanogels in antigen-presenting cells of the skin	Edlich A., C. Gerecke, M. Giubudagian, F. Neumann, M. Schäfer-Korting, N. Ma, M. Calderon, B. Kleuser	Eur. J. Pharm. Biopharm.					2016	3.975	BIFTM
22	Programming structural functions in phase-segregated polymers by implementing a defined thermomechanical history	Fang L., W. Yan, U. Nöchel, K. Kratz, A. Lendlein	Polymer	102		54	62	2016	3.586	BIFTM
23	<b>Supramolecular hydrogel networks formed by molecular recognition of collagen and a peptide grafted to hyaluronic acid</b>	<b>Federico, S; Nöchel, U; Lowenberg, C; Lendlein, A; Neffe, AT</b>	<b>ACTA BIOMATERIALIA</b>	<b>38</b>		<b>1</b>	<b>10</b>	<b>2016</b>	<b>6.008</b>	<b>BIFTM</b>

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24	Co-self-assembly of cationic microparticles to deliver pEGFP-ZNF580 for promoting the transfection and migration of endothelial cells	Feng Y., M. Guo, W. Liu; X. Hao, W. Lu, X. Ren, C. Shi, W. Zhang,	Int J Nanomed	12		137	149	2017	4.320	BIFTM
25	Evaluation of Electrospun PCL-PIBMD Meshes Modified with Plasmid Complexes in Vitro and in Vivo	Feng, YK; Liu, W; Ren, XK; Lu, W; Guo, MY; Behl, M; Lendlein, A; Zhang, WC	POLYMERS	8	3			2016	2.944	BIFTM
26	Electrospun Poly(lactide-co-glycolide-co-3(S)-methyl-morpholine-2,5-dione) Nanofibrous Scaffolds for Tissue Engineering	Feng, YK; Lu, W; Ren, XK; Liu, W; Guo, MY; Ullah, I; Zhang, WC	POLYMERS	8	2			2016	2.944	BIFTM
27	Nonwoven Carboxylated Agarose-Based Fiber Meshes with Antimicrobial Properties	Forget A., N. Arya, R. Randriantsilefisoa, F. Miessmer, M. Buck, V. Ahmadi, D. Jonas, A.Blencowe, V. P. Shastri	Biomacromolecules	17	12	4021	4026	2016	5.583	BIFTM
28	Two phase microfluidics with inviscid drops: Effects of total flow rate and delayed surfactant addition	Friess F., A. Lendlein, C. Wischke	MRS Advances					2016	Proceeding	BIFTM
29	Conditional repair by locally switching the thermal healing capability of dynamic covalent polymers with light	Fuhrmann A., R. Göstl, R. Wendt, J. Kötteritzsch, M. Hager, U. Schubert, K. Brademann-Jock, A. Thünemann, U. Nöchel, M. Behl, S. Hecht	Nat Commun	7				2016	11.329	BIFTM
30	Effect of Ioxaglate on the cutaneous microcirculation in patients with coronary artery disease: randomized, double blind, placebo-controlled study	Gerk U., C. Mrowietz, R. Sternitzky, R.P. Franke, S.G. Spitzer, F. Jung	Clin Hemorheol Microcirc	64	3	297	304	2016	1.815	BIFTM
31	Editorial	Gori T., F. Jung	Clin Hemorheol Microcirc	64	4	507	508	2016	1.815	BIFTM
32	Human Endothelial Cell Models in Biomaterial Research	Hauser S., F. Jung, J. Pietzsch	Trends Biotechnol					2016	12.065	BIFTM
33	Morphological analysis of differently sized highly porous poly(ether imide) microparticles by mercury porosimetry	Heuchel M., D. Gerber, K. Kratz, A. Lendlein	Polym Adv Technol					2016	1.823	BIFTM
34	The Fibrodysplasia Ossificans Progressiva (FOP) mutation p.R206H in ACVR1 confers an altered ligand response	Hildebrand L., K. Stange, A. Deichsel, M. Gossen, P. Seemann	Cell Signal	29		23	30	2016	4.191	BIFTM
35	Generation of integration free induced pluripotent stem cells from fibrodysplasia ossificans progressiva (FOP) patients from urine samples	Hildebrand, L; Rossbach, B; Kuhnen, P; Gossen, M; Kurtz, A; Reinke, P; Seemann, P; Stachelscheid, H	STEM CELL RESEARCH	16	1	54	58	2016	3.892	BIFTM

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36	RGD Constructs with physical anchor groups as polymer co-electrospinnable cell adhesives	Hommel-Schattmann P., A. T. Neffe, B. Ahmad, G. R. Williams, G. M. Bele, V. Vanneaux, P. Menasché, D. Kalfa, A. Lendlein	Polym Adv Technol					2016	1.823	BIFTM
37	Classifying calpain inhibitors for the treatment of cataracts: A self organising map (SOM) ANN/KM approach in drug discovery	Hudson, I.L., Leemaqz, S.Y., Neffe, A.T., Abell, A.D.	Studies in Computational Intelligence	628		161	212	2016	Scopus	BIFTM
38	Activation of Peroxisome Proliferator-Activated Receptor- $\delta$ as Novel Therapeutic Strategy to Prevent In-Stent Restenosis and Stent Thrombosis	Hytönen J., Leppänen O., Braesen J.H., Schunck W.-H., Mueller D., Jung F., Mrowietz C., Jastroch M., Von Bergwelt-Baildon M., Kappert K., Heuser A., Drenckhahn J.-D., Pieske B., Thierfelder L., Ylä-Herttuala S., Blaschke F.	Arteriosclerosis, Thrombosis, and Vascular Biology	36	8	1534	1548	2016	5.969	BIFTM
39	Influence of Compression Direction on the Shape-Memory Effect of Micro-Cylinder Arrays Prepared from Semi-Crystalline Polymer Networks	Jiang Y., L. Fang, K. Kratz, A. Lendlein	MRS Advances					2016	Proceeding	BIFTM
40	The microcirculation in hypoxia: The center of the battlefield for oxygen.	Jung C., F. Jung, M. Kelm	Clinical Hemorheology and Microcirculation					2016	1.815	BIFTM
41	Role of blood viscosity in the microcirculation	Jung F., M. Rampling	Clin Hemorheol Microcirc	64	3	251	254	2016	1.815	BIFTM
42	Thrombogenicity and hemocompatibility of biomaterials	Junga, F., Braune, S.	Biointerphases	11	2	1	3	2016	2.105	BIFTM
43	Organotypic soft-tissue co-cultures: Morphological changes in microvascular endothelial tubes after incubation with iodinated contrast media	Kaessmeyer S., J. Sehl, M. Khiao In, B. Hiebl, R. Merle, F. Jung, R.P. Franke, J. Plendl	Clin Hemorheol Microcirc	64	3	391	409	2016	1.815	BIFTM
44	The pathology of the foreign body reaction against biomaterials	Kloppfleisch R., F. Jung	J Biomed Mater Res A					2016	3.263	BIFTM
45	Shear resistance of endothelial cells in a pathological environment	Krüger-Genge A., F. Jung, R. Fuhrmann, R.-P. Franke	Clin Hemorheol Microcirc	64	3	383	889	2019	1.815	BIFTM
46	Effects of different components of the extracellular matrix on endothelialization	Krüger-Genge A., R. Fuhrmann, F. Jung, R.-P. Franke	Clin Hemorheol Microcirc	64	4	867	874	2016	1.815	BIFTM
47	Effect of poly(etherimide) microparticles on proinflammatory and apoptotic effects in human aortic endothelial cells (HAECs)	Kumar R. K., S. Basu, H.-D. Lemke, J. Jankowski, K. Kratz, A. Lendlein, S. D. Tetali	Clinical Hemorheology and Microcirculation					2016	1.815	BIFTM
48	Effect of radiographic contrast media on renal perfusion – first results	Lamby P., F. Jung, J. Falter, C. Mrowietz, S. Graf, L. Schellenberg, N. Platz Batista da Silva, L. Prantl, R.P. Franke, E.M. Jung	Clin Hemorheol Microcirc	64	3	287	295	2016	1.815	BIFTM

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49	Recapitulating epithelial tumor microenvironment in vitro using three dimensional tri-culture of human epithelial, endothelial, and mesenchymal cells	Lamichhane S. P., N. Arya, E. Kohler, J. Christensen, V.P. Shastri	BMC Cancer	16	1			2016	3.265	BIFTM
50	Influence of surface roughness on neural differentiation of human induced pluripotent stem cells	Li Z., W. Wang, K. Kratz, J. Küchler, X. Xu, J. Zou, Z. Deng, X. Sun, M. Gossen, N. Ma, A. Lendlein	Clin Hemorheol Microcirc	64	3	355	366	20126	1.815	BIFTM
51	Targeting carrier/gene complexes to promote the proliferation of endothelial cells	Liu, W., Zhang, L., Yang, J., Hao, X., Li, Q., Feng, Y.	Progress in Chemistry	28	6	954	960	2016	Scopus	BIFTM
52	Bone regeneration induced by a 3D architected hydrogel in a rat critical-size calvarial defect	Lohmann P., A. Willuweit, A.T. Neffe, S. Geisler, T. Gebauer, S. Beer, H. Coenen, H. Fischer, B. Hermanns-Sachweh, A. Lendlein, N. J. Shah, F. Kiessling, K.-J. Langen	Biomaterials	113		158	169	2016	8.387	BIFTM
53	Biodegradable PEI modified complex micelles as gene carriers with tunable gene transfection efficiency for ECs	Lv, J; Yang, J; Hao, XF; Ren, XK; Feng, YK; Zhang, WC	JOURNAL OF MATERIALS CHEMISTRY B	4	5	997	1008	2016	4.872	BIFTM
54	Prefabrication and free transfer of a Tissue Engineered Composite Flap – an experimental model in the rat	Mandlik V., A. Kehrler, L. Jiga, B. Hoinoiu, M. Ionac, F. Jung, R. Staudenmaier, L. Prantl	Clin Hemorheol Microcirc	64				2016	1.815	BIFTM
55	Poly(carbonate-urea-urethane) networks exhibiting high-strain shape-memory effect	Mazurek-Budzyńska M., M. Y. Razaq, K. Tomczyk, G. Rokicki, M Behl, A. Lendlein	Polymers for Advanced Technologies					2016	1.823	BIFTM
56	Influence of metal softness on the metal organic catalyzed polymerization of morpholin-2,5-diones to oligodepsipeptides	Naolou T. , A. Lendlein, A.T. Neffe	European Polymer Journal	85		139	149	2016	3.485	BIFTM
57	Advanced Functional Polymers for Medicine	Neffe A.T., D.W. Grijpma, A. Lendlein	Macromol Biosci	16		1743	1744	2016	3.680	BIFTM
58	Secondary structure of decorin-derived peptides in solution	Neffe A.T., S. Federico, A. Lendlein	MRS Advances					2016	Proceeding	BIFTM
59	<b>Thermally-Induced Triple-Shape Hydrogels: Soft Materials Enabling Complex Movements</b>	<b>Nöchel U., M. Behl, M. Balk, A. Lendlein</b>	<b>ACS Appl. Mater Interf</b>	<b>8</b>	<b>41</b>	<b>28068</b>	<b>28076</b>	<b>2016</b>	<b>7.145</b>	<b>BIFTM</b>
60	Hexyl-modified morpholine-2,5-diones based oligodepsipeptides with relatively low glass transition temperature	Peng X., M. Behl, P. Zhang, M. Mazurek-Budzyńska, M. Y. Razaq, A. Lendlein	Polymer	105		318	326	2016	3.586	BIFTM
61	Enzymatic Action as Switch of Bulk to Surface Degradation of Clicked Gelatin-Based Networks	Piluso S., A. Lendlein, A.T. Neffe	Polym Adv Technol					2016	1.823	BIFTM

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62	Trend to move from permanent metals to degradable, multifunctional polymer or metallic implants in the example of coronary stents	Reinthaler M., F. Jung, U. Landmesser, A. Lendlein	EXPERT REVIEW OF MEDICAL DEVICES			1	3	2016	1.796	BIFTM
63	Platelets and coronary artery disease: Interactions with the blood vessel wall and cardiovascular devices	Reinthaler, M., Braune, S., Lendlein, A., Landmesser, U., Jung, F.	Biointerphases	11	2			2016	2.105	BIFTM
64	Preface: In focus issue on blood-biomaterial interactions	Reviakine, I., Braune, S.	Biointerphases	11	2			2016	2.105	BIFTM
65	Stirred, shaken, or stagnant: what goes on at the blood-biomaterial interface	Reviakine, I., Jung, F., Braune, S., Brash, J.L., Latour, R., Gorbet, M., van Oeveren, W.	Blood Reviews					2016	6.627	BIFTM
66	Inflammatory responses of primary human dendritic cells towards polydimethylsiloxane and polytetrafluoroethylene	Roch T., K. Kratz, N. Ma, A. Lendlein	Clin Hemorheol Microcirc	64	4	899	910	2016	1.815	BIFTM
67	Enzymatic Degradation of Oligo( $\epsilon$ -caprolactone)s End-Capped with Phenylboronic Acid Derivatives at the Air-Water Interface	Rossberg J., F.O. Rottke, B. Schulz, A. Lendlein	Macromol Rapid Comm	37		1966	1971	2016	4.638	BIFTM
68	An ellipsometric approach towards the description of inhomogeneous polymer-based Langmuir layers	Rottke F. O., B. Schulz, K. Richau, K. Kratz, A. Lendlein	Beilstein Journal of Nanotechnology	7		1156	1165	2016	2.778	BIFTM
69	Fluorine-free superwetting systems: Construction of environmentally friendly superhydrophilic, superhydrophobic, and slippery surfaces on various substrates	Schlaich C., L. Yu, L. Cuellar Camacho, Q. Wei, R. Haag	Polymer Chem-UK	7	48	7446	7454	2016	5.686	BIFTM
70	The relevance of hydrophobic segments in multiblock copolyesterurethane for their enzymatic degradation at the air-water interface	Schöne A. C., K. Kratz, B. Schulz, A. Lendlein	Polymer					2016	3.586	BIFTM
71	Stimuli responsive and multifunctional polymers: progress in materials and applications	Schöne A.-C., B. Schulz, A. Lendlein,	Macromol Rapid Comm	37		1856	1859	2016	4.639	BIFTM
72	Polymer architecture versus chemical structure as adjusting tools for the enzymatic degradation of PCL based films at the air-water interface	Schöne A.C., K. Kratz, B. Schulz, A. Lendlein	Polym Degrad Stab	131		114	121	2016	3.120	BIFTM
73	<b>Generating Aptamers interacting with Polymeric Surfaces for Biofunctionalization</b>	<b>Schulz C., J. Hecht, A. Krüger-Genge, K. Kratz, F. Jung, A. Lendlein</b>	<b>Macromolecular Bioscience</b>					<b>2016</b>	<b>3.680</b>	<b>BIFTM</b>



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74	Monolayer formation and shear-resistance of human umbilical vein endothelial cells on gelatin-based hydrogels with tailorable elasticity and degradability	Schulz C., R. Vukicevic, A. Krüger-Genge, A.T. Neffe, A. Lendlein, F. Jung	Clin Hemorheol Microcirc	64	4	699	710	2016	1.815	BIFTM
75	Incremental diagnostic value of combined quantitative and qualitative parameters of magnetocardiography to detect coronary artery disease	Shin E.-S., Y.-Y. Lam, A.-Y. Her, J. Brachmann, F. Jung, J.-W. Park	Int J Cardiol	228		948	952	2017	4.638	BIFTM
76	Opioid receptors	Stein, C.	Annu Rev Med	67		fünf.eins	fünf.neunzehn	2016	10.954	BIFTM
77	Gelatin-based hydrogel degradation and tissue interaction in vivo: insights from multimodal preclinical imaging in immunocompetent nude mice	Tondera, C.; Ullm, S.; Krüger-Genge, A.; Jung, F.; Neffe, A. T.; Lendlein, A.; Klopffleisch, R.; Steinbach, J.; Neuber, C.; Pietzsch, J.	Theranostics					2016	8.854	BIFTM
78	A double-layer patch design for local and controlled drug delivery as an intraoperative custom-made implant-coating technology	Trajkovski, B., Petersen, A., Perka, C., Scharnagl, N., Mathew, S., Wischke, C., Lendlein, A., Duda, G.N.	Journal of Applied Biomaterials and Functional Materials	14	2	e143	e153	2016	0.934	BIFTM
79	Crosslinked Redox-Responsive Micelles Based on Lipoic Acid-Derived Amphiphiles for Enhanced siRNA Delivery	Tschiche A., B. N. S. Thota, F. Neumann, A. Schäfer, N. Ma, R. Haag	Macromolecular Bioscience					2016	3.680	BIFTM
80	Angiogenic potential of endothelial and tumor cells seeded on gelatin-based hydrogels in response to electrical stimulations	Tzoneva R., V. Uzunova, S. Apostolova, A. Krüger-Genge, A. T. Neffe, F. Jung, A. Lendlein	Clinical Hemorheology and Microcirculation					2016	1.815	BIFTM
81	Nanocarriers for drug delivery into and through the Skin - Do existing technologies match clinical challenges?	Vogt A., C. Wischke, A.T. Neffe, N. Ma, U. Alexiev, A. Lendlein,	J. Contr.Release					2016	7.441	BIFTM
82	Mechanical Properties of Architected Gelatin-Based Hydrogels on Different Hierarchical Levels	Vukićević R., A.T. Neffe, T. Gebauer, O. Frank, M. Schossig, A. Lendlein	MRS Advances					2016	Proceeding	BIFTM
83	<b>Engineering biodegradable micelles of polyethylenimine-based amphiphilic block copolymers for efficient DNA and siRNA delivery</b>	<b>Wang W., M. Balk, Z. Deng, C. Wischke, M. Gossen, M. Behl, N. Ma, A. Lendlein</b>	<b>J Contr Release</b>					<b>2016</b>	<b>7.441</b>	<b>BIFTM</b>

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84	Reduced Incidence of Thromboembolic Events After Surgical Closure of Left Atrial Appendage in Patients With Atrial Fibrillation	Wilbring, M; Jung, F; Weber, C; Matschke, K; Knaut, M	INNOVATIONS-TECHNOLOGY AND TECHNIQUES IN CARDIOTHORACIC AND VASCULAR SURGERY	11	1	24	30	2016	0	BIFTM
85	Dermal Drug Delivery by Nanocarriers	Wischke C., E. Rühl, A. Lendlein	J. Contr. Release	242		1	2	20016	7.441	BIFTM
86	Functional nanocarriers by miniaturization of polymeric materials	Wischke, C; Lendlein, A	NANOMEDICINE	11	12	1507	1509	2016	4.889	BIFTM
87	Surface geometry of poly(ether imide) boosts mouse pluripotent stem cell spontaneous cardiomyogenesis via modulating the embryoid body formation process	Xu X., W. Wang, Z. Li, K. Kratz, N. Ma, A. Lendlein	Clin Hemorheol Microcirc	64	3	367	382	2016	1.815	BIFTM
88	The Influence of Thermal Treatment on the Morphology in Differently Prepared Films of a Multiblock Copolymer Based on Oligodepsipeptide	Yan W., T. Weigel, M. Behl, K. Kratz, A. Lendlein	Polym Adv Technol					2016	1.823	BIFTM
89	Influence of programming strain rates on the shape-memory performance of semicrystalline multiblock copolymers	Yan, W., Fang, L., Noechel, U., Kratz, K., Lendlein, A.	Journal of Polymer Science, Part B: Polymer Physics	54	19	1935	1943	2016	3.318	BIFTM
90	Multitargeting Gene Delivery Systems for Enhancing the Transfection of Endothelial Cells	Yang J., Q. Li, X. Yang, Y. Feng, X. Ren, C. Shi, W. Zhang	Macromol Rapid Comm	37		1926	1931	2016	4.638	BIFTM
91	REDV-polyethyleneimine complexes for selectively enhancing gene delivery in endothelial cells	Yang, J; Liu, W; Lv, J; Feng, YK; Ren, XK; Zhang, WC	JOURNAL OF MATERIALS CHEMISTRY B	4	19	3365	3376	2016	4.872	BIFTM
92	Electrophoretic deposition of multilayered (cubic and tetragonal stabilized) zirconia ceramics for adapted crack deflection	Zehbe, R; Mochales, C; Radzik, D; Muller, WD; Fleck, C	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	36	2	357	364	2016	2.933	BIFTM
93	Poly[acrylonitrile-co-(N-vinyl pyrrolidone)] nanoparticles - composition-dependent skin penetration enhancement of a dye probe and toxicity	Zhang N., A. Said, C. Wischke, V. Kral, R. Brodewolf, P. Volz, A. Boreham, C. Gerecke, W. Li, A.T. Neffe, B. Kleuser, U. Alexiev, A. Lendlein, M. Schäfer-Korting,	Eur. J. Pharm. Biopharm.					2016	3.975	BIFTM
94	Ultrasonic Cavitation Induced Shape-Memory Effect in Porous Polymer Networks	Zhang P., M. Behl, X. Peng, M. Y. Razaq, A. Lendlein	Macromolecular Rapid Communications					2016	4.638	BIFTM
95	Design of controlled release PLGA microspheres for hydrophobic fenretinide	Zhang, Y.; Wischke, C.; Mittal, S. Mitra; A., Schwendeman, S.	Mol Pharmaceut	13	8	2622	2630	2016	4.342	BIFTM

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96	Water-blown polyurethane foams showing a reversible shape-memory effect	Zharinova E., M. Heuchel, T. Weigel, D. Gerber, K. Kratz, A. Lendlein	Polymers	8				2016	2.944	BIFTM

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1	Doping-induced temperature evolution of a helicoidal spin structure in the MnGe compound	Altyntbaev, E. V.; Sukhanov, A. S.; Siegfried, S.-A.; Dyadkin, V. A.; Moskvina, E. V.; Menzel, D.; Heinemann, A.; Schreyer, A.; Fomicheva, L. N.; Tsvyashenko, A. V.; Grigoriev, S. V.	Journal of Surface Investigation. X-ray, Synchrotron and Neutron Techniques	10	4	777	782	2016	Scopus	MML
2	Hidden quantum phase transition in Mn <sub>1-x</sub> Fe <sub>x</sub> Ge evidenced by small-angle neutron scattering	Altyntbaev, E.; Siegfried, S.-A.; Moskvina, E.; Menzel, D.; Dewhurst, C.; Heinemann, A.; Feoktystov, A.; Fomicheva, L.; Tsvyashchenko, A.; Grigoriev, S.	Physical Review B	94	17	174403		2016	3.513	MML
3	Cephalic anatomy and three-dimensional reconstruction of the head of <i>Catops ventricosus</i> (Weise, 1877) (Coleoptera: Leiodidae: Cholevinae)	Antunes-Carvalho, C., M. Yavorskaya, P. Gnaspini, I. Ribera, J. U. Hammel, R. G. Beutel	Organisms Diversity & Evolution			1	14	2016	Scopus	MML
4	Ca(BH <sub>4</sub> ) <sub>2</sub> -Mg <sub>2</sub> NiH <sub>4</sub> : on the pathway to a Ca(BH <sub>4</sub> ) <sub>2</sub> system with a reversible hydrogen cycle	Bergemann, N; Pistidda, C; Milanese, C; Emmeler, T; Karimi, F; Chaudhary, AL; Chierotti, MR; Klassen, T; Dornheim, M	CHEMICAL COMMUNICATIONS	52	26	4836	4839	2016	6.567	AEM / MML
5	Experimental Realisation of High-sensitivity Laboratory X-ray Grating-based Phase-contrast Computed Tomography	Birnbacher, L; Willner, M; Velroyen, A; Marschner, M; Hipp, A; Meiser, J; Koch, F; Schroter, T; Kunka, D; Mohr, J; Pfeiffer, F; Herzen, J	SCIENTIFIC REPORTS	6				2016	5.228	MML
6	Polarization transfer in Rayleigh scattering of hard x-rays	Blumenhagen, K.-H.; Fritzsche, S.; Gassner, T.; Gumberidze, A.; Maertin, R.; Schell, N.; Seipt, D.; Spillmann, U.; Surzhykov, A.; Trotsenko, S.; Weber, G.; A.; Yerokhin, V. A.; Stoehlker, Th.	NEW JOURNAL OF PHYSICS	18		103034 / 119601		2016	3.501	MML
7	Histology-validated X-ray tomography for imaging human coronary arteries	Buscema, M.; Schulz, G.; Deyhle, H.; Khimchenko, A.; Matviyiv, S.; Holme, M.N.; Hipp, A.; Beckmann, F.; Saxer, T.; Michaud, K.; Müller, B.	Proceedings of SPIE - The International Society for Optical Engineering	9967		996700		2016	Scopus	MML
8	In situ synchrotron radiation diffraction investigation of the compression behaviour at 350 degrees C of ZK40 alloys with addition of CaO and Y	Buzolin, RH; Mendis, CL; Tolnai, D; Stark, A; Schell, N; Pinto, H; Kainer, KU; Hort, N	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	664		2	9	2016	2.647	AEM / MML
9	Load partition and microstructural evolution during in situ hot deformation of Ti-6Al-6V-2Sn alloys	Canelo-Yubero, D; Requena, G; Sket, F; Poletti, C; Warchomicka, F; Daniels, J; Schell, N; Stark, A	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	657		244	258	2016	2.647	AEM / MML
10	Lithiation-driven structural transition of VO <sub>2</sub> F into disordered rock-salt Li: XVO <sub>2</sub> F	Chen, R., Maawad, E., Knapp, M., Ren, S., Beran, P., Witter, R., Hempelmann, R.	RSC Advances	6	69	65112	65118	2016	3.289	MML
11	High-Performance Low-Temperature Li+ Intercalation in Disordered Rock-Salt Li-Cr-V Oxyfluorides	Chen, R., Ren, S., Mu, X., Maawad, E., Zander, S., Hempelmann, R., Hahn, H.	ChemElectroChem	3	6	892	895	2016	3.506	MML
12	Baicalin loaded in folate-PEG modified liposomes for enhanced stability and tumor targeting	Chen, YY; Minh, LV; Liu, JW; Angelov, B; Drechsler, M; Garamus, VM; Willumeit-Roemer, R; Zou, AH	COLLOIDS AND SURFACES B-BIOINTERFACES	140		74	82	2016	3.902	MML

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13	Martensitic transition, structure and magnetic anisotropy of martensite in Ni-Mn-Sn single crystal	Czajaa, P.; Szczerbaa, M.J.; Chulista, R.; Baładab, M.; Przewoźnikc, J.; Chumlyakovd, Y.I.; Schell, N.; Kapustac, Cz.; Maziarz, W.	Acta Materialia	118		213	220	2016	5.149	MML
14	Influence of Corona Structure on Binding of an Ionic Surfactant in Oppositely Charged Amphiphilic Polyelectrolyte Micelles	Delisavva, F.; Uchman, M.; Škvarla, J.; Woźniak, E.; Pavlova, E.; Šlouf, M.; Garamus, V. M.; Procházka, K.; Štípanek, M.	Langmuir	32		4059	4065	2016	4.097	AEM / MML
15	Imaging tissues for biomedical research using the high-resolution micro-tomography system nanotom <sup>®</sup> m	Deyhle, H.; Schulz, G.; Khimchenko, A.; Bikis, C.; Hieber, S.E.; Jaquiery, C.; Kunz, C.; Müller-Gerbl, M.; Höchel, S.; Saxer, T.; Stalder, A.K.; Ilgenstein, B.; Beckmann, F.; Thalmann, P.; Buscema, M.; Rohr, N.; Holme, M.N.; Müller, B.	Proceedings of SPIE - The International Society for Optical Engineering	9967		99670Q		2016	Scopus	MML
16	Controlling thermal emission with refractory epsilon-near-zero metamaterials via topological transitions	Dyachenko, P. N.; Molesky, S.; Petrov, A. Yu; Störmer, M.; Krekeler, T.; Lang, S.; Ritter, M.; Jacob, Z.; Eich, M.	NATURE COMMUNICATIONS	7		11809		2016	11.329	AEM / MML
17	In Situ Characterization Techniques Based on Synchrotron Radiation and Neutrons Applied for the Development of an Engineering Intermetallic Titanium Aluminide Alloy	Erdely, P; Schmoelzer, T; Schwaighofer, E; Clemens, H; Staron, P; Stark, A; Liss, KD; Mayer, S	METALS	6	1	10	27	2016	1.574	AEM / MML
18	BEER-The Beamline for European Materials Engineering Research at the ESS	Fenske, J.; Rouijaa, M.; Šaroun, J.; Kampmann, R.; Staron, P.; Nowak, G.; Pilch, J.; Beran, P.; Šittner, P.; Strunz, P.; Brokmeier, H.-G.; Ryukhtin, V.; Kadeřávek, L.; Strobl, M.; Müller, M.; Lukáš, P.; Schreyer, A.	Journal of Physics: Conference Series	746	1	12009		2016	Scopus	MML
19	Magnesium degradation observed in situ under flow by synchrotron radiation based microtomography	Feyerabend, Frank, Dose, Thomas, Xu, Yuling, Beckmann, Felix, Stekker, Michael, Willumeit-Römer, Regine, Schreyer, Andreas, Wilde, Fabian, Hammel, Jörg U.	Proc. SPIE 9967, Developments in X-Ray Tomography X	99671X				2016	0.370	AEM / MML
20	Structural properties of Ti/Al clads manufactured by explosive welding and annealing	Fronczek, DM; Wojewoda-Budka, J; Chulist, R; Sypien, A; Korneva, A; Szulc, Z; Schell, N; Zieba, P	MATERIALS & DESIGN	91		80	89	2016	3.997	MML
21	Evaluation of the degradation behavior of resorbable metal implants for in vivo osteosynthesis by synchrotron radiation based x-ray tomography and histology	Galli, S.; Hammel, J.U.; Herzen, J.; Damm, T.; Jimbo, R.; Beckmann, F.; Wennerberg, A.; Willumeit-Römer, R.	Proceedings of SPIE - The International Society for Optical Engineering	9967		996704		2016	Scopus	AEM / MML
22	Mapping strain fields induced in Zr-based bulk metallic glasses during in-situ nanoindentation by X-ray nanodiffraction	Gamcova, J.; G. Mohanty, S. Michalik, J. Wehrs, J. Bednarcík, C. Krywka, J.M. Brequet, J. Michler, H. Franz	Applied Physics Letters	108		31907		2016	Scopus	MML

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23	Formation of an 18R long-period stacking ordered structure in rapidly solidified Mg88/Y8/Zn4/alloy	Garcés, G., Requena, G., Tolnai, D., Pérez, P., Medina, J., Stark, A., Schell, N., Adeva, P.	Materials Characterization	118		514	518	2016	2.383	AEM / MML
24	Stability of TaC precipitates in a Co-Re-based alloy being developed for ultra-high-temperature applications	Gilles R., Mukherji D., Karge L., Strunz P., Beran P., Barbier B., Kriele A., Hofmann M., Eckerlebe H., Rösler J.	Journal of Applied Crystallography	49	4	953	959	2016	2.570	MML
25	Evidence for a chemical clock in oscillatory formation of UiO-66	Goesten, MG; de Lange, MF; Olivos-Suarez, AI; Bavykina, AV; Serra-Crespo, P; Krywka, C; Bickelhaupt, FM; Kapteijn, F; Gascon, J	NATURE COMMUNICATIONS	7				2016	11.329	MML
26	Neutron study of phospholipids 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphoethanolamine spray coating on titanium implants	Golub, M.; Lott, D.; Garamus, V. M.; Laipple, D.; Störmer, M.; Watkins, E. B.; Schreyer, A.; Willumeit-Römer, R.	Biointerphases	11	1	011002-1	011002-8	2016	2.677	MML
27	Procedural influences on compression and injection moulded cellulose fibre-reinforced polylactide (PLA) composites: Influence of fibre loading, fibre length, fibre orientation and voids	Graupner, N; Ziegmann, G; Wilde, F; Beckmann, F; Mussig, J	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	81		158	171	2016	3.719	MML
28	The structure of liquid water beyond the first hydration shell	Henao, A., Busch, S., Guàrdia, E., Tamarit, J.L., Pardo, L.C.	Physical Chemistry Chemical Physics	18	28	19420	19425	2016	4.449	MML
29	Single-grating interferometer for high-resolution phase-contrast imaging at synchrotron radiation sources	Hipp, A.; Herzen, J.; Hammel, J.U.; Lytaev, P.; Schreyer, A.; Beckmann, F.	Proceedings of SPIE - The International Society for Optical Engineering	9967		996718		2016	Scopus	MML
30	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys	Huang, Y.; Yang, L.; You, S.; Gan, W.; Kainer, K.U.; Hort, N.	Journal of Magnesium and Alloys	4	3	173	180	2016	Scopus	AEM / MML
31	The life science X-ray scattering beamline at NSLS-II	J. DiFabio, S. Chodankar, S. Pjerov, J. Jakoncic, M. Lucas, C. Krywka, V. Graziano, L. Yang	AIP Conf. Proc.	1741		30049		2016	Proceeding	MML
32	Interaction of a biosurfactant, Surfactin with a cationic Gemini surfactant in aqueous solution	Jin, L.; Haramus, V.M.; Liu, F.; Xiao, J.; Eckerlebe, H.; Willumeit-Roemer, R.	Journal of Colloid and Interface Science	481		201	209	2016	2.443	MML
33	On the atomic structure of cocaine in solution	Johnston, AJ; Busch, S; Pardo, LC; Callear, SK; Biggin, PC; McLain, SE	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	2	991	999	2016	4.449	MML
34	Grain refinement of intermetallic compounds in the Cu-Sn system under high pressure torsion	Korneva, A; Straumal, B; Chulist, R; Kilmametov, A; Bala, P; Cios, G; Schell, N; Zieba, P	MATERIALS LETTERS	179		12	15	2016	2.437	MML
35	Growth of nano-dots on the grazing-incidence mirror surface under FEL irradiation	Kozhevnikov, I. V.; Buzmakov, A. V.; Siewert, F.; Tiedtke, K.; Störmer, M.; Samoylova, L.; Sinn, H.	JOURNAL OF SYNCHROTRON RADIATION	23	1	78	90	2016	1.877	MML

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36	Strain-dependent fractional molecular diffusion in humid spider silk fibres	Krasnov I., Seydel T., Greving I., Blankenburg M., Vollrath F., Müller M.	Journal of the Royal Society Interface	13		122	506	2016	Scopus	MML
37	Polymer Compound Refractive Lenses for Hard X-ray Nanofocusing	Krywka, C.; A. Last, F. Marschall, O. Márkus, S. Georgi, M. Müller, J. Mohr	AIP Conf. Proc.	1764		20001		2016	Proceeding	MML
38	Microstructure of Ti-45Al-5Nb and Ti-45Al-10Nb powders	Laipple, D., Stark, A.; Schimansky; F.-P., Schwebke, B.; Pyczak, F.; Schreyer, A.	KEY ENGINEERING MATERIALS	704		214	222	2016	Scopus	AEM / MML
39	Evolution of strain-induced hafnium carbides in a molybdenum base Mo-Hf-C alloy studied by small-angle neutron scattering and complementary methods	Lang, D., Karge, L., Schatte, J., Gilles, R., Dallinger, R., Weißensteiner, I., Staron, P., Knabl, W., Primig, S., Clemens, H.	Journal of Alloys and Compounds	688		619	631	2016	3.014	MML
40	High-Temperature Stable Zirconia Particles Doped with Yttrium, Lanthanum, and Gadolinium	Leib, E.W., Pasquarelli, R.M., Blankenburg, M., Müller, M., Schreyer, A., Janssen, R., Weller, H., Vossmeier, T.	Particle and Particle Systems Characterization					2016	Scopus	MML
41	Strain Induced Martensitic Transformation in Austempered Ductile Iron (ADI)	Li, X.H.; Saal, P.; Gan, W.M.; Landesberger, M.; Hoelzel, M.; Hofmann, M.	Journal of Physics: Conference Series	746	1	12055		2016	Scopus	MML
42	Effect of compressive load on the martensitic transformation from austenite to 5M martensite in a polycrystalline Ni-Mn-Ga alloy studied by in-situ neutron diffraction	Li, ZB; Zou, NF; Yang, B; Gan, WM; Hou, L; Li, X; Zhang, YD; Esling, C; Hofmann, M; Zhao, X; Zuo, L	JOURNAL OF ALLOYS AND COMPOUNDS	666		1	9	2016	3.014	MML
43	Phase Transformation and Residual Stress in a Laser Beam Spot-Welded TiAl-Based Alloy	Liu J., Staron P., Riekehr S., Stark A., Schell N., Huber N., Schreyer A., Müller M., Kashaev N.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	47A	12	5750	5760	2016	1.389	AEM / MML
44	Phase Transformations During Solidification of a Laser-Beam-Welded TiAl Alloy—An In Situ Synchrotron Study	Liu J., Staron P., Riekehr S., Stark A., Schell N., Huber N., Schreyer A., Müller M., Kashaev N.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	47A	12	5761	5770	2016	1.389	AEM / MML
45	Synchrotron X-ray microtomography of the interior microstructure of chocolate	Lügger, S.K.; Wilde, F.; Dülger, N.; Reinke, L.M.; Kozhar, S.; Beckmann, F.; Greving, I.; Vieira, J.; Heinrich, S.; Palzer, S.	Proceedings of SPIE - The International Society for Optical Engineering	9967		99670N		2016	Scopus	MML
46	Brucea javanica oil-loaded nanostructure lipid carriers (BJO NLCs): Preparation, characterization and in vitro evaluation	Lv, W., Zhao, S., Yu, H., Li, N., Garamus, V.M., Chen, Y., Yin, P., Zhang, R., Gong, Y., Zou, A.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	504		312	319	2016	2.760	MML
47	Influence of crystallographic texture on the microstructure, tensile properties and residual stress state of S; Brokmeier, HG; Kashaev, N; Muller, M laser-welded titanium joints	Maawad, E; Gan, WM; Hofmann, M; Ventzke, V; Riekehr, S; Brokmeier, HG; Kashaev, N; Muller, M	MATERIALS & DESIGN	101		137	145	2016	3.997	AEM / MML

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48	On the adsorption of magnetite nanoparticles on lysozyme amyloid fibrils	Majorosova, J.; Petrenko, V.I.; Siposova, K.; Timko, M.; Tomasovicova, N.; Haramus, V.M.; Koralewski, M.; Avdeev, M.V.; Leszczynski, B.; Jurga, S.; Gazova, Z.; Hayryan, S.; Hu, C.-K.; Kopcansky, P.	Colloids and Surfaces B: Biointerfaces	146		794	800	2016	3.902	MML
49	VERITAS: a high-flux neutron reflectometer with vertical sample geometry for a long pulse spallation source	Mattauch, S; Ioffe, A; Lott, D; Menelle, A; Ott, F; Medic, Z	INTERNATIONAL CONFERENCE ON POLARISED NEUTRONS FOR CONDENSED MATTER INVESTIGATIONS (PNCMI 2014)	711		12009		2016	Conference Series	MML
50	Microstructural changes in an extruded Mg-Zn-Y alloy reinforced by quasicrystalline I-phase by small additions of calcium, manganese and	Medina, J., Pérez, P., Garces, G., Tolnai, D., Stark, A., Schell, N., Adeva, P.	Materials Characterization	118		186	198	2016	2.383	AEM / MML
51	Increasing the field of view in grating based X-ray phase contrast imaging using stitched gratings	Meiser, J; Willner, M; Schroter, T; Hofmann, A; Rieger, J; Koch, F; Birnbacher, L; Schuttler, M; Kunka, D; Meyer, P; Faisal, A; Amberger, M; Duttenhofer, T; Weber, T; Hipp, A; Ehn, S; Walter, M; Herzen, J; Schulz, J; Pfeiffer, F; Mohr, J	JOURNAL OF X-RAY SCIENCE AND TECHNOLOGY	24	3	379	388	2016	1.111	MML
52	Synchrotron-based Phase Contrast-enhanced Micro-Computed Tomography Reveals Delaminations and Material Tearing in Water-expandable Root Fillings Ex Vivo	Moinzadeh, AT; Farack, L; Wilde, F; Shemesh, H; Zaslansky, P	JOURNAL OF ENDODONTICS	42	5	776	781	2016	2.904	MML
53	The new small-angle neutron scattering instrument SANS-1 at MLZ-characterization and first results	Muhlbauer, S; Heinemann, A; Wilhelm, A; Karge, L; Ostermann, A; Defendi, I; Schreyer, A; Petry, W; Gilles, R	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	832		297	305	2016	1.200	MML
54	X-Ray Microscopy of Soft and Hard Human Tissues	Muller, B; Schulz, G; Deyhle, H; Stalder, AK; Ilgenstein, B; Holme, MN; Weitkamp, T; Beckmann, F; Hieber, SE	XRM 2014: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON X-RAY MICROSCOPY	1696		20010		2016	Proceeding	MML
55	Three-dimensional-printed gas dynamic virtual nozzles for x-ray laser sample delivery	Nelson, G; Kirian, RA; Weierstall, U; Zatssepin, NA; Farago, T; Baumbach, T; Wilde, F; Niesler, FB; Zimmer, B; Ishigami, I; Hikita, M; Bajt, S; Yeh, SR; Rousseau, DL; Chapman, HN; Spence, JCH; Heymann, M	OPTICS EXPRESS	24	11	1515	1530	2016	3.148	MML
56	Bulk sensitive determination of the Fe <sup>3+</sup> /Fe-Tot-ratio in minerals by Fe L-2/3-edge X-ray Raman scattering	Nyrow, A; Sternemann, C; Tse, JS; Weis, C; Sahle, CJ; Mende, K; Wieland, DCF; Cerantola, V; Gordon, RA; Spiekermann, G; Regier, T; Wilke, M; Tolan, M	JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY	31	3	815	820	2016	3.379	MML
57	Determination of the packing fraction in photonic glass using synchrotron radiation nanotomography	Ogurreck, M.; Do Rosario, J.J.; Leib, E.W.; Laipple, D.; Greving, I.; Marschall, F.; Last, A.; Schneider, G.A.; Vossmeier, T.; Weller, H.; Beckmann, F.; Müller, M.	Journal of Synchrotron Radiation	23	6	1440	1446	2016	Scopus	MML
58	Layout and first results of the nanotomography endstation at the P05 beamline at PETRA III	Ogurreck, M; Greving, I; Marschall, F; Vogt, H; Last, A; do Rosario, JJ; Leib, EW; Beckmann, F; Wilde, F; Muller, M	XRM 2014: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON X-RAY MICROSCOPY	1696				2016	Proceeding	MML
59	Effect of laser welding parameters on the austenite and martensite phase fractions of NiTi	Oliveira J.P., Braz Fernandes F.M., Miranda R.M., Schell N., Ocaña J.L.	Materials Characterization	119		148	151	2016	2.605	MML



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60	Earliest Onychophoran in Amber Reveals Gondwanan Migration Patterns	Oliveira, Ivo de S., M. Bai, H. Jahn, V. Gross, C. Martin, Jörg U. Hammel, W. Zhang, G. Mayer	Current Biology	26	19	2594	2601	2016	Scopus	MML
61	On the mechanisms for martensite formation in YAG laser welded austenitic NiTi	Oliveira, J.P., Braz Fernandes, F.M., Miranda, R.M, and Schell, N.	Shape Memory and Superelasticity	2		114	120	2016	Scopus	MML
62	Residual stress analysis in laser welded NiTi sheets using synchrotron X-ray diffraction	Oliveira, JP; Fernandes, FMB; Miranda, RM; Schell, N; Ocana, JL	MATERIALS & DESIGN	100		180	187	2016	3.997	MML
63	Martensite stabilization during superelastic cycling of laser welded NiTi plates	Oliveira, JP; Fernandes, FMB; Schell, N; Miranda, RM	MATERIALS LETTERS	171		273	276	2016	2.437	MML
64	High strain and long duration cycling behavior of laser welded NiTi sheets	Oliveira, JP; Miranda, RM; Schell, N; Fernandes, FMB	INTERNATIONAL JOURNAL OF FATIGUE	83		195	200	2016	2.162	MML
65	Refractory absorber/emitter using monolayer of ceramic microparticles	P. N. Dyachenko, J. J. do Rosário, E. W. Leib, A. Yu. Petrov, M. Störmer, H. Weller, T. Vossmeier, G. A. Schneider, M. Eich;	Proc. SPIE 9885	9885		98851K-1	98851K-9	2016	Proceeding	MML
66	Cyclic stability and structure of nanoconfined Ti-doped NaAlH <sub>4</sub>	Paskevicius, M; Filso, U; Karimi, F; Puszkil, J; Pranzas, PK; Pistidda, C; Hoell, A; Welter, E; Schreyer, A; Klassen, T; Dornheim, M; Jensen, TR	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	41	7	4159	4167	2016	3.205	AEM / MML
67	Microstructure evolution and mechanical properties of nano-SiCp/AZ91 composite processed by extrusion and equal channel angular pressing (ECAP)	Qiao, X.G.; Ying, T.; Zheng, M.Y.; Wei, E.D.; Wu, K.; Hu, X.S.; Gan, W.M.; Brokmeier, H.G.; Golovin, I.S.	Materials Characterization	121		222	230	2016	2.605	MML
68	Orthorhombic phase formation in a Nb-rich gamma-TiAl based alloy - An in situ synchrotron radiation investigation	Rackel, M; Stark, A; Gabrisch, H; Schell, N; Schreyer, A; Pyczak, F	ACTA MATERIALIA	121		343	351	2016	5.149	AEM / MML
69	Synchrotron X-Ray microtomography reveals interior microstructure of multicomponent food materials such as chocolate	Reinke, SK; Wilde, F; Kozhar, S; Beckmann, F; Vieira, J; Heinrich, S; Palzer, S	JOURNAL OF FOOD ENGINEERING	174		37	46	2016	3.199	MML
70	Functional micelles formed by branched polymeric surfactants: Synthesis, characteristics, and application as nanoreactors and carriers	Riabtseva, A.; Mitina, N.; Grytsyna, I.; Boiko, N.; Garamus, V. M.; Stryhanyuk, H.; Stoika, R.; Zaichenko, A.	European Polymer Journal	75		406	422	2016	2.143	AEM / MML
71	Neutron optics concept for the materials engineering diffractometer at the ESS	Šaroun, J.; Fenske, J.; Rouijaa, M.; Beran, P.; Navrátil, J.; Lukáš, P.; Schreyer, A.; Strobl, M.	Journal of Physics: Conference Series	746	1	12011		2016	Scopus	MML
72	Structural Characterization of Lecithin-Stabilized Tetracosane Lipid Nanoparticles. Part I: Emulsions	Schmiele, M; Busch, S; Morhenn, H; Schindler, T; Schmutzler, T; Schweins, R; Lindner, P; Boesecke, P; Westermann, M; Steiniger, F; Funari, SS; Unruh, T	JOURNAL OF PHYSICAL CHEMISTRY B	120	24	5505	5512	2016	3.187	MML

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73	Structural Characterization of Lecithin-Stabilized Tetraicosane Lipid Nanoparticles. Part II: Suspensions	Schmiele, M; Busch, S; Morhenn, H; Schindler, T; Schmutzler, T; Schweins, R; Lindner, P; Boesecke, P; Westermann, M; Steiniger, F; Funari, SS; Unruh, T	JOURNAL OF PHYSICAL CHEMISTRY B	120	24	5513	5526	2016	3.187	MML
74	Nanostructured MWCNT/Polypyrrole Actuators with Anisotropic Strain Response	Schnoor, T.I.W., Vainio, U., Shao, L.-H., Lilleodden, E.T., Müller, M., Schreyer, A., Schulte, K., Fiedler, B.	ADVANCED ENGINEERING MATERIALS	18	4	597	607	2016	1.817	AEM / MML
75	Dynamics of water confined in mesoporous magnesium carbonate	Soininen, A. J.; Appavou, M-S.; Frykstrand, S.; Welch, K.; Khaneft, M.; Kriele, A.; Bellissent-Funel, M-C.; Strømme, M.; Wuttke, J.	Journal of Chemical Physics	145	234503	234503-1	234503-9	2016	2.260	MML
76	Hot tearing characteristics of Mg-2Ca-xZn alloys	Song, JF; Wang, Z; Huang, YD; Srinivasan, A; Beckmann, F; Kainer, KU; Hort, N	JOURNAL OF MATERIALS SCIENCE	51	5	2687	2704	2016	1.579	AEM / MML
77	A fossil biting midge (Diptera: Ceratopogonidae) from early Eocene Indian amber with a complex pheromone evaporator	Stebner, F., R. Szadziewski, P. T. Rühr, H. Singh, J. U. Hammel, G. M. Kvitte, J. Rust	Scientific Reports	6		34352		2016	Scopus	MML
78	Ultra-precision fabrication of 500 mm long and laterally graded Ru/C multilayer mirrors for X-ray light sources	Störmer, M.; Gabrisch, H.; Horstmann, C.; Heidorn, U.; Hertlein, F.; Wiesmann, J.; Siewert, F.; Rack, A.	Review of Scientific Instruments	87	5	51804		2016	1.738	MML
79	Preparation and characterization of B4C coatings for advanced research light sources	Störmer, M.; Siewert, F.; Sinn, H.	JOURNAL OF SYNCHROTRON RADIATION	23	1	50	58	2016	1.877	MML
80	As solidified microstructure investigation of Mg15Y and Mg <sub>x</sub> Y <sub>2</sub> Gd <sub>1-x-y</sub> (x+y=15 wt.%) ternary alloys	Szakács, G., Mendis, C.L., Tolnai, D., Vlcek, M., Lukác, F., Stulíková, I., Smola, B., Wolff, M., Schmid-Fetzer, R., Schell, N., Kainer, K.U., Hort, N.	Magnesium Technology	2016-January		23	27	2016	Scopus	AEM / MML
81	Magnetic field-dependent spin structures of nanocrystalline holmium	Szary, P; Kaiser, D; Bick, JP; Lott, D; Heinemann, A; Dewhurst, C; Birringer, R; Michels, A	JOURNAL OF APPLIED CRYSTALLOGRAPHY	49		533	538	2016	2.570	MML
82	In situ analysis of the forging process of a novel $\gamma$ -TiAl alloy using synchrotron radiation	Tankoua, T; Stark, A; Rackel, M; Pyczak, F; von Hehl, A	MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK	47		1109	1120	2016	0.424	AEM / MML
83	The Role of Zn on the Elevated Temperature Compression Behavior of Mg5Nd: An In Situ Synchrotron Radiation Diffraction Study	Tolnai, D.; Buzolin, R. H.; Elia, F. D.; Subroto, T.; Gavras, S.; Stark, A.; Schell, N.; Kainer, K. U.; Hort, N.	JOM	68	12	3051	3056	2016	1.831	AEM / MML
84	In Situ Synchrotron Radiation Diffraction of The Solidification of Mg-Dy(-Zr) Alloys	Tolnai, D.; Staron, P.; Staeck, A.; Eckerlebe, H.; Schell, N.; Mueller, M.; Groebner, J.; Hort, N.; Hrsg.: Singh, A.; Solanki, K.; Manuel, M.V.; Neelameggham, N.R.	Magnesium Technology 2016, TMS 2016 Supplemental Proceedings, 145th Annual Meeting and Exhibition, TMS 2016. Nashville, TN (USA)			17	21	2016	Proceeding	AEM / MML
85	Impact of the B2 ordering behavior on the mechanical properties of a FeCoMo alloy	Turk, C; Leitner, H; Kellezi, G; Clemens, H; Gan, WM; Staron, P; Primig, S	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	662		511	518	2016	2.647	MML
86	A robust comparison of dynamical scenarios in a glass-forming liquid	Vispa, A.; Busch, S.; Tamarit, J.L.; Unruh, T.; Fernandez-Alonso, F.; Pardo, L. C.	Physical Chemistry Chemical Physics	18	5	3975	3981	2016	4.273	MML

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87	Use of small-angle X-ray scattering to resolve intracellular structure changes of <i>Escherichia coli</i> cells induced by antibiotic treatment	von Gundlach A. R., V. M. Garamus, T. M. Willey, J. Ilavsky, K. Hilpert, A. Rosenhahn	Journal of Applied Crystallography	49		2210	2216	2016	2.570	MML
88	Small angle X-ray scattering as a high-throughput method to classify antimicrobial modes of action	von Gundlach, AR; Garamus, VM; Gorniak, T; Davies, HA; Reischl, M; Mikut, R; Hilpert, K; Rosenhahn, A	Biochimica et Biophysica Acta (BBA) - Biomembranes	1858	5	918	925	2016	3.687	MML
89	Microstructure Tracking of Ti-6Al-4V by In-Situ Synchrotron Diffraction During Thermomechanical Process in Beta Field	Warchomicka, F.; Zehetner, E.; Poletti, C.; Stark, A.; Requena, G.; Eds.: Venkatesh, V.; Pilchak, A.L.; Allison, J.E.; Sreeramamurthy Ankem, S.; Boyer, R.; Christodoulou, J.; Fraser, H.L.; Imam, M.A.; Kosaka, Y.; Rack, H.J.; Chatterjee, A.; Woodfield, A.	Proceedings of the 13th World Conference on Titanium, Ti 2015. San Diego, CA (USA)			783	788	2016	Proceeding	AEM / MML
90	Structure of DPPC-hyaluronan interfacial layers - effects of molecular weight and ion composition	Wieland, DCF; Degen, P; Zander, T; Gayer, S; Raj, A; An, JX; Dedinaite, A; Claesson, P; Willumeit-Romer, R	SOFT MATTER	12	3	729	740	2016	3.798	AEM / MML
91	Studying solutions at high shear rates: a dedicated microfluidics setup	Wieland, DCF; Garamus, VM; Zander, T; Krywka, C; Wang, M; Dedinaite, A; Claesson, PM; Willumeit-Romer, R	JOURNAL OF SYNCHROTRON RADIATION	23		480	486	2016	1.877	AEM / MML
92	Micro-CT at the Imaging Beamline P05 at PETRA III	Wilde, F.; Ogurreck, M. ; Greving, I. ; Hammel, J. ; Beckmann, F. ; Hipp, A. ; Lottermoser, L. ; Khokhriakov, I. ; Lytaev, P. ; Dose, T. ; Burmester, H. ; Müller, M. ; Schreyer, A.	AIP conference proceedings, PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON SYNCHROTRON RADIATION INSTRUMENTATION – SRI2015	1741		30035		2016	Proceeding	MML
93	A detailed study on the transition from the blocked to the superparamagnetic state of reduction-precipitated iron oxide nanoparticles	Witte, K; Bodnar, W; Mix, T; Schell, N; Fulda, G; Woodcock, TG; Burkel, E	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	403		103	113	2016	2.357	MML
94	Advancing the visualization of pure water transport in porous materials by fast, talbot interferometry-based multi-contrast x-ray micro-tomography	Yang, F.; Griffa, M.; Hipp, A.; Derluyn, H.; Moonen, P.; Kaufmann, R.; Boone, M.N.; Beckmann, F.; Lura, P.	Proceedings of SPIE - The International Society for Optical Engineering	9967		99670L		2016	Scopus	MML
95	Lamellar Diblock Copolymer Films with Embedded Maghemite Nanoparticles	Yao, Y; Metwalli, E; Opel, M; Haese, M; Moulin, JF; Rodewald, K; Rieger, B; Muller-Buschbaum, P	ADVANCED MATERIALS INTERFACES	3	8			2016	3.365	MML
96	Microstructure evolution of Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy during deformation and its effect on strengthening	Yu, ZJ; Huang, YD; Gan, WM; Mendis, CL; Zhong, ZY; Brokmeier, HG; Hort, N; Meng, J	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	657		259	268	2016	2.647	AEM / MML
97	Cross-sectional structure-property relationship in a graded nanocrystalline Ti1-xAlxN thin film	Zalesak, J; Bartosik, M; Daniel, R; Mitterer, C; Krywka, C; Kiener, D; Mayrhofer, PH; Keckes, J	ACTA MATERIALIA	102		212	219	2016	3.729	MML
98	The influence of hyaluronan on the structure of a DPPC-bilayer under high pressures	Zander, T; Wieland, DCF; Raj, A; Wang, M; Nowak, B; Krywka, C; Dedinaite, A; Claesson, PM; Garamus, VM; Schreyer, A; Willumeit-Romer, R	COLLOIDS AND SURFACES B-BIOINTERFACES	142		230	238	2016	3.902	AEM / MML

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99	In-situ Observation of Cross-Sectional Microstructural Changes and Stress Distributions in Fracturing TiN Thin Film during Nanoindentation	Zeilinger, A; Todt, J; Krywka, C; Muller, M; Ecker, W; Sartory, B; Meindlhumer, M; Stefenelli, M; Daniel, R; Mitterer, C; Keckes, J	SCIENTIFIC REPORTS	6		22670		2016	5.228	MML
100	Doxorubicin hydrochloride-oleic acid conjugate loaded nanostructured lipid carriers for tumor specific drug release	Zhao, S., Minh, L.V., Li, N., Garamus, V.M., Handge, U.A., Liu, J., Zhang, R., Willumeit-Römer, R., Zou, A.	Colloids and Surfaces B: Biointerfaces	145		95	103	2016	3.902	AEM / MML
101	Polarized proton spin density images the tyrosyl radical locations in bovine liver catalase	Zimmer, O; Jouve, HM; Stuhmann, HB	IUCRJ	3		326	340	2016	5.316	MML

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1	Phytoplankton Size and Functional Diversity Model	Acevedo-Trejos, Esteban; Brandt, Gunnar; Smith, S. Lan; et al.	GEOSCIENTIFIC MODEL DEVELOPMENT	9	11	4071	4085	2016	3.549	PACES II
2	Surface wave effects on water temperature in the Baltic Sea: simulations with the coupled NEMO-WAM model	Alari, V., Staneva, J., Breivik, Ø., Bidlot, J.-R., Mogensen, K., Janssen, P.	Ocean Dynamics	66	8	917	930	2016	1.892	PACES II
3	The impact of shipping emissions on air pollution in the greater North Sea region - Part 1: Current emissions and concentrations	Aulinger, A; Matthias, V; Zeretzke, M; Bieser, J; Quante, M; Backes, A	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	2	739	758	2016	5.114	PACES II
4	Ammonia emissions in Europe, part I: Development of a dynamical ammonia emission inventory	Backes, A; Aulinger, A; Bieser, J; Matthias, V; Quante, M	ATMOSPHERIC ENVIRONMENT	131		55	66	2016	3.459	PACES II
5	Ammonia emissions in Europe, part II: How ammonia emission abatement strategies affect secondary aerosols	Backes, AM; Aulinger, A; Bieser, J; Matthias, V; Quante, M	ATMOSPHERIC ENVIRONMENT	126		153	161	2016	3.459	PACES II
6	Influence of Ammonia Emissions on Aerosol Formation in Northern and Central Europe	Backes, Anna M.; Aulinger, Armin; Bieser, Johannes; et al.	AIR POLLUTION MODELING AND ITS APPLICATION XXIV			29	35	2016	0	PACES II
7	The Coastal Observing System for Northern and Arctic Seas (COSYNA)	Baschek, B., Schroeder, F., Brix, H., Riethmüller, R., Badewien, T. H., Breitbach, G., Brügge, B., Colijn, F., Doerffer, R., Eschenbach, C., Friedrich, J., Fischer, P., Garthe, S., Horstmann, J., Krasemann, H., Metfies, K., Ohle, N., Petersen, W., Pröfrock, D., Röttgers, R., Schlüter, M., Schulz, J., Schulz-Stellenfleth, J., Stanev, E., Winter, C., Wirtz, K., Wollschläger, J., Zielinski, O., and Ziemer, F	Ocean Science					2016	1.351	PACES II
8	Estuarine circulation versus tidal pumping: Sediment transport in a well-mixed tidal inlet	Becherer, J., G. Flöser, L. Umlauf, and H. Burchard	J. Geophys. Res. Oceans	121				2016	3.318	PACES II
9	Presentation of the EURODELTA III intercomparison exercise – evaluation of the chemistry transport models' performance on criteria pollutants and joint analysis with meteorology.	Bessagnet, B.; Pirovano, G.; Mircea, M.; Cuvelier, C.; Aulinger, A.; Calori, G.; Ciarelli, G.; Manders, A.; Stern, R.; Tsyro, S.; Garcia Vivanco, M.; Thunis, P.; Pay, M.-T.; Colette, A.; Couvidat, F.; Meleux, F.; Rouil, L.; Ung, A.; Aksoyoglu, S.; Baldasano, J.M.; Bieser, J.; Briganti, G.; Cappelletti, A.; D'Isidoro, M.; Finardi, S.; Kranenburg, R.; Silibello, C.; Carnevale, C.; Aas, W.; Dupont, J.-C.; Fagerli, H.; Gonzales, L.; Menuet, L.; Prevot, A.S.H.; Roberts, P.; White, L.	Atmospheric Chemistry and Physics	16	19	12667	12701	2016	5.114	PACES II
10	Variability of daily winter wind speed distribution over Northern Europe during the past millennium in regional and global climate simulations	Bierstedt, SE; Hunicke, B; Zorita, E; Wagner, S; Gomez-Navarro, JJ	CLIMATE OF THE PAST	12	2	317	338	2016	3.638	PACES II

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11	Impact of marine mercury cycling on coastal atmospheric mercury concentrations in the North- and Baltic Sea region	Bieser, J., Schrum, C.	ELEMENTA Science of the Anthropocene	111				2016	Scopus	PACES II
12	Passive Sampling in Regulatory Chemical Monitoring of Nonpolar Organic Compounds in the Aquatic Environment	Booij, K; Robinson, CD; Burgess, RM; Mayer, P; Roberts, CA; Ahrens, L; Allan, IJ; Brant, J; Jones, L; Kraus, UR; Larsen, MM; Lepom, P; Petersen, J; Profrock, D; Roose, P; Schafer, S; Smedes, F; Tixier, C; Vorkamp, K; Whitehouse, P	ENVIRONMENTAL SCIENCE & TECHNOLOGY	50	1	3	17	2016	5.393	PACES II
13	With a little help from DANN barcoding: Investigation the diversity of gastropoda from the portuguese coast	Borges, L.M.S. Hollatz, C., Lobo, C. Cunha, A. M., Vilela, A.P. Calado, G, Costa, F.	Scientific Reports	6				2016	5.228	PACES II
14	The internal structure of the pallets of <i>Nototeredo norvagica</i> and <i>Psiloteredo megotara</i> (Bivalvia: Teredinidae): implications for subfamilial allocations	Borges, LMS	ZOOMORPHOLOGY	135	1	33	41	2016	1.242	PACES II
15	Accessing Diverse Data Comprehensively - CODM the COSYNA Data Portal	Breitbach, G, Krasemann, H., Behr, D., Behringer, S., Lange, U., Vo, N., Schroeder, F.	Ocean Science	12	4	90	923	2016	1.351	PACES II
16	A common European database for underway data from FerryBoxes	Breitbach, G.; Petersen, W.; Reinke, S.; Gorringe, P.; Novellino, A.	Bollettino di Geofisica Teorica ed Applicata	S 57	151			2016	0.778	PACES II
17	Exploring the occurrence and distribution of contaminants of emerging concern through unmanned sampling from ships of opportunity in the North Sea	Brumovsky, M; Becanova, J; Kohoutek, J; Thomas, H; Petersen, W; Sorensen, K; Sanka, O; Nizzetto, L	JOURNAL OF MARINE SYSTEMS	162		47	56		2.174	PACES II
18	Mercury in the atmosphere and in rainwater at Cape Point, South Africa	Brunke, EG; Walters, C; Mkololo, T; Martin, L; Labuschagne, C; Silwana, B; Slemr, F; Weigelt, A; Ebinghaus, R; Somerset, V	ATMOSPHERIC ENVIRONMENT	125		24	32	2016	3.459	PACES II
19	Structure of the Airflow above Surface Waves	Buckley, MP; Veron, F	JOURNAL OF PHYSICAL OCEANOGRAPHY	46	5	1377	1397	2016	3.026	PACES II
20	Cooling and societal change during the Late Antique Little Ice Age from 536 to around 660 AD	Buntgen, U; Myglan, VS; Ljungqvist, FC; McCormick, M; Di Cosmo, N; Sigl, M; Jungclaus, J; Wagner, S; Krusic, PJ; Esper, J; Kaplan, JO; de Vaan, MAC; Luterbacher, J; Wacker, L; Tegel, W; Kirydanov, AV	NATURE GEOSCIENCE	9	3	231	U163	2016	12.508	PACES II
21	German Bight residual current variability on a daily basis: principal components of multi-decadal barotropic simulations	Callies U., Gaslikova L., Kapitza H., Scharfe M.	Geo-Marine Letters			1	12	2016	Scopus	PACES II
22	Decline of the Black Sea oxygen inventory	Capet, A; Stanev, EV; Beckers, JM; Murray, JW; Gregoire, M	BIOGEOSCIENCES	13	4	1287	1297	2016	3.700	PACES II
23	Potential Impacts of Offshore Wind Farms on North Sea Stratification.	Carpenter JR, Merckelbach L, Callies U, Clark S, Gaslikova L, Baschek B	PLoS ONE	11	8			2016	3.057	PACES II

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24	Quantitative determination of ultra-trace carbazoles in sediments in the coastal environment	Chen, WL; Xie, ZY; Wolschke, H; Gandrass, J; Kotke, D; Winkelmann, M; Ebinghaus, R	CHEMOSPHERE	150		586	595	2016	3.698	PACES II
25	Exchange of polycyclic aromatic hydrocarbons across the air-water interface in the Bohai and Yellow Seas	Chen, Y., Lin, T., Tang, J., Xie, Z., Tian, C., Li, J., Zhang, G.	Atmospheric Environment	141		153	160	2016	3.459	PACES II
26	Formal Integration of Science and Management Systems Needed to Achieve Thriving and Prosperous Great Lakes	Creed, IF; Cormier, R; Laurent, KL; Accatino, F; Igras, J; Henley, P; Friedman, KB; Johnson, LB; Crossman, J; Dillon, PJ; Trick, CG	BIOSCIENCE	66	5	408	418	2016	4.294	PACES II
27	Isotope fractionation and isotope decoupling during anammox and denitrification in marine sediments	Dahnke, K; Thamdrup, B	LIMNOLOGY AND OCEANOGRAPHY	61	2	610	624	2016	3.660	PACES II
28	Challenging the current climate change - migration nexus: Exploring migrants' perceptions of climate change in the hosting country	De Guttery, C., Döring, M., Ratter, B.	Erde	147	2	109	118	2016	Scopus	PACES II
29	A Five-Century Reconstruction of Hawaiian Islands Winter Rainfall	Diaz, HF; Wahl, ER; Zorita, E; Giambelluca, TW; Eischeid, JK	JOURNAL OF CLIMATE	29		5661	5674		4.850	PACES II
30	Changes in surface solar radiation in northeastern Spain over the past six centuries recorded by tree-ring $\delta^{13}C$	Dorado-Linan, I., Sanchez-Lorenzo, A., Gutierrez, M. E., Planells, O., Heinrich, I., Helle, G., Zorita, E.	Climate Dynamics, 47	3/4		937	959	2016	4.708	PACES II
31	Reprint of: 'Heimat' as a boundary object? Exploring the potentialities of a boundary object to instigate productive science-stakeholder interaction in North Frisia (Germany)	Doring, M; Ratter, B	ENVIRONMENTAL SCIENCE & POLICY	55		408	415	2016	2.972	PACES II
32	Finite element damage analysis of an underwater glider-ship collision	Drücker, S., Steglich, D., Merckelbach, L., Werner, A. Bergmann, S.	Journal of Marine Science and Technology	21	2	261	270	2016	0.709	PACES II
33	Changes of storm surges in the Bohai Sea derived from a numerical model simulation, 1961–2006	Feng J., von Storch H., Weisse R., Jiang W.	Ocean Dynamics			1	15	2016	Scopus	PACES II
34	Consensus forecasting of intertidal seagrass habitat in the Wadden Sea	Folmer, E.O., van Beusekom, J.E., Dolch, T., Gräwe, U., van Katwijk, M.M., Kolbe, K., Philippart, C.J.	Journal of Applied Ecology					2016	5.196	PACES II
35	A question of origin: dioxin-like PCBs and their relevance in stock management of European eels	Freese, M; Suhring, R; Pohlmann, JD; Wolschke, H; Magath, V; Ebinghaus, R; Hanel, R	ECOTOXICOLOGY	25	1	41	55	2016	2.329	PACES II

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36	North Atlantik summer storm tracks over Europe dominated by internal variability over the past millennium	Gagen, M.H., Zorita, E., McCarroll, D., Zahn, M., Young, G.H.F., Robertson, I.,	NATURE GEOSCIENCE	9	8	630	635	2016	12.508	PACES II
37	Identifying culturally significant areas for marine spatial planning	Gee, K., Kannen, A., Adlam, R., Brooks, C., Chapman, M., Cormier, R., . . . Shellock, R.	Ocean and Coastal Management	136		139	147	2017	1.696	PACES II
38	Multi-risk, multi-scale and multi-stakeholder – the contribution of a bow-tie analysis for risk management in the trilateral Wadden Sea Region	Gerkenmeier B., Ratter B.M.W.	Journal of Coastal Conservation			1	12	2016	Scopus	PACES II
39	Storm surge risk perception and resilience: A pilot study in the German North Sea coast	Gonzalez-Riancho, P.; Gerkenmeier, B.; Ratter, B.M.W.; Gonzalez, M.; Medina, R	Ocean & Coastal Management	112		44	60	2016	1.696	PACES II
40	Kármán vortex and turbulent wake generation by wind park piles	Grashorn, S.; Stanev, E.V.	Ocean Dynamics	66	12	1543	1557	2016	1.892	PACES II
41	A numerical model for the entire Wadden Sea: Skill assessment and analysis of hydrodynamics	Gräwe, U., G. Flöser, T. Gerkema, M. Duran-Matute, T. H. Badewien, E. Schulz, and H. Burchard	J. Geophys. Res. Oceans	121		5231	5251	2016	3.318	PACES II
42	The Helmholtz regional climate initiative REKLIM from a polar perspective - A preface	Grosfeld, K., Lemke, P., Braesicke, P., Brauer, A., Dethloff, K., Kunz, M., Latif, M., Ratter, B., Sachs, T., Schmid, H.P., Treffeisen, R., Schwarze, R.	Polarforschung	85	2	65	68	2016	Scopus	PACES II
43	The performance of single and multi-c	Hanousek, O., Brunner, M., Pröfrock, D., Irrgeher, J., & Prohaska, T.	Analytical Methods	8 (42)		7661	7672	2016	1.915	PACES II
44	Laboratory experiments for inter-comparison of three volume scattering meters to measure angular scattering properties of hydrosols	Harmel, T; Hieronymi, M; Slade, W; Rottgers, R; Roullier, F; Chami, M	OPTICS EXPRESS	24	2	A234	A256	2016	3.148	PACES II
45	Seasonal and annual variations in physiological and biochemical responses from transplanted marine bioindicator species <i>Mytilus</i> spp. during a long term field exposure experiment	Helmholz, H; Ruhnu, C; Profrock, D; Erbsloh, HB; Prange, A	SCIENCE OF THE TOTAL ENVIRONMENT	565		626	636	2016	3.976	PACES II
46	Variability of Benthic Communities in Relation to Hydrodynamic Conditions in the North-Eastern Baltic Sea	Herkul, K; Torn, K; Suursaar, U; Alari, V; Peterson, A	JOURNAL OF COASTAL RESEARCH			867	871	2016	4.850	PACES II
47	An optical particle size spectrometer for aircraft-borne measurements in IAGOS-CARIBIC	Hermann, M; Weigelt, A; Assmann, D; Pfeifer, S; Muller, T; Conrath, T; Voigtlander, J; Heintzenberg, J; Wiedensohler, A; Martinsson, BG; Deshler, T; Brenninkmeijer, CAM; Zahn, A	ATMOSPHERIC MEASUREMENT TECHNIQUES	9	5	2179	2194	2016	2.989	PACES II
48	Emissions of Per- and Polyfluoroalkyl Substances in a Textile Manufacturing Plant in China and Their Relevance for Workers' Exposure.	Heydebreck, F.; Tang, J.; Xie, Z.; Ebinghaus, R	Environmental Science and Technology	50	19	10386	10396	2016	5.393	PACES II



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49	Reflectance and transmittance properties of sea surfaces-aspects of polarized ray tracing	Hieronymi M.	European Space Agency, (Special Publication) ESA SP	SP-740				2016	Scopus	PACES II
50	Ocean colour remote sensing of extreme case-2 waters	Hieronymi M., Krasemann H., Müller D., Brockmann C., Ruescas A., Stelzer K., Nechad B., Ruddick K., Simis S., Tilstone G., Steinmetz F., Regner P.	European Space Agency, (Special Publication) ESA SP	SP-740				2016	Scopus	PACES II
51	Polarized reflectance and transmittance distribution functions of the ocean surface	Hieronymi, M.	Optics Express	24	14	A1045	A1068	2016	3.148	PACES II
52	Energy and Variance Budgets of a Diffusive Staircase with Implications for Heat Flux Scaling	Hieronimus, M.; Carpenter, J.R	Journal of Physical Oceanography	46	8	2553	2569	2016	3.026	PACES II
53	Estuary-type circulation as a factor sustaining horizontal nutrient gradients in freshwater-influenced coastal systems	Hofmeister R., Flöser G., Schartau M.	Geo-Marine Letters			1	14	2016	Scopus	PACES II
54	Caribbean island states in a social-ecological panarchy? complexity theory, adaptability and environmental knowledge systems.	Holdschlag, A., & Ratter, B. M. W.	Anthropocene	13		80	93	2016	Scopus	PACES II
55	Potential impacts of climate change on the primary production of regional seas: A comparative analysis of five European seas	Holt, J; Schrum, C; Cannaby, H; Daewel, U; Allen, I; Artioli, Y; Bopp, L; Butenschon, M; Fach, BA; Harle, J; Pushpadas, D; Salihoglu, B; Wakelin, S	PROGRESS IN OCEANOGRAPHY	140		91	115	2016	3.512	PACES II
56	Evaluation strategies and uncertainty calculation of isotope amount ratios measured by MC ICP-MS on the example of Sr	Horsky, M., Irrgeher, J., Prohaska, T.	Analytical and Bioanalytical Chemistry	408	2	351	367	2016	3.125	PACES II
57	Occurrence and distribution of synthetic musks and organic UV filters from riverine and coastal sediments in the Pearl River estuary of China	Huang, Weixia; Xie, Zhiyong; Yan, Wen; et al.	MARINE POLLUTION BULLETIN	111	1 bis 2	153	159	2016	3.099	PACES II
58	Surface Current Measurements Using X-Band Marine Radar With Vertical Polarization	Huang, WM; Carrasco, R; Shen, CX; Gill, EW; Horstmann, J	IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	54	5	2988	2997	2016	3.360	PACES II
59	<sup>87</sup> Sr/ <sup>86</sup> Sr isotope ratio measurements by laser ablation multicollector inductively coupled plasma mass spectrometry: Reconsidering matrix interferences in bioapatites and biogenic carbonates	Irrgeher, J.; Galler, P.; Prohaska, T	Spectrochimica Acta B	125		31	42	2016	3.289	PACES II

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60	Application of non-traditional stable isotopes in analytical ecogeochemistry assessed by MC ICP-MS - A critical review	Irrgeher, J; Prohaska, T	ANALYTICAL AND BIOANALYTICAL CHEMISTRY	408	2	369	385	2016	3.125	PACES II
61	Local and remote response of the North Sea dynamics to morphodynamic changes in the Wadden Sea	Jacob, B; Stanev, EV; Zhang, YJ	OCEAN DYNAMICS	66	5	671	690	2016	1.892	PACES II
62	Nitrite consumption and associated isotope changes during a river flood event	Jacob, J.; Sanders, T.; Daehnke, K.	Biogeosciences	13	19	5649	5659	2016	3.700	PACES II
63	Essential and Toxic Elements in Blood Samples of Harbor Seals ( <i>Phoca vitulina</i> ) from the Islands Helgoland (North Sea) and Anholt (Baltic Sea): A Comparison Study with Urbanized Areas	Kakuschke, A., Griesel, S.	Archives of Environmental Contamination and Toxicology	70	1	67	74	2016	2.039	PACES II
64	Improved statistics of sub-mesoscale eddies in the Baltic Sea retrieved from SAR imagery	Karimova, S; Gade, M	INTERNATIONAL JOURNAL OF REMOTE SENSING	37	10	2394	2414	2016	1.640	PACES II
65	Modeling and measurements of urban aerosol processes on the neighborhood scale in Rotterdam, Oslo and Helsinki	Karl, M; Kukkonen, J; Keuken, MP; Lutzenkirchen, S; Pirjola, L; Hussein, T	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	8	4817	4835	2016	5.114	PACES II
66	Seasonal accumulation of persistent organic pollutants on a high altitude glacier in the Eastern Alps.	Kirchgeorg, T.; Dreyer, A.; Gabrielli, P.; Gabrielli, J.; Thompson, L.G.; Barbante, C.; Ebinghaus, R.	Environmental Pollution	219		804	812	2016	4.839	PACES II
67	Re-examining the roles of surface heat flux and latent heat release in a "hurricane-like" polar low over the Barents Sea	Kolstad, E.W., Bracegirdle, T.J., Zahn, M.	Journal of Geophysical Research: Atmospheres					2016	Scopus	PACES II
68	Modelling the dispersion of particle numbers in five European cities	Kukkonen, J; Karl, M; Keuken, MP; van der Gon, HACD; Denby, BR; Singh, V; Douros, J; Manders, A; Samaras, Z; Moussiopoulos, N; Jonkers, S; Aarnio, M; Karppinen, A; Kangas, L; Lutzenkirchen, S; Petaja, T; Vouitsis, I; Sokhi, RS	GEOSCIENTIFIC MODEL DEVELOPMENT	9	2	451	478	2016	3.549	PACES II
69	Neutral polyfluoroalkyl substances in the atmosphere over the northern South China Sea	Lai, SC; Song, JW; Song, TL; Huang, ZJ; Zhang, YY; Zhao, Y; Liu, GC; Zheng, JY; Mi, WY; Tang, JH; Zou, SC; Ebinghaus, R; Xie, ZY	ENVIRONMENTAL POLLUTION	214		449	455	2016	4.839	PACES II
70	Optical closure in marine waters from in situ inherent optical property measurements	Lefering, I., Bengil, F., Trees, C., Röttgers, R., Bowers, D., Nimmo-Smith, A., Schwarz, J., McKee, D.	Optics Express	24	13	14036	14052	2016	Scopus	PACES II
71	Improved determination of particulate absorption from combined filter pad and PSICAM measurements	Lefering, Ina; Roettgers, Ruediger; Weeks, Rebecca; et al.	OPTICS EXPRESS	24	22	24805	24823	2016	3.148	PACES II

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72	Xenobiotic and Immune-Relevant Molecular Biomarkers in Harbor Seals as Proxies for Pollutant Burden and Effects	Lehnert, K; Ronnenberg, K; Weijs, L; Covaci, A; Das, K; Hellwig, V; Siebert, U	ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	70	1	106	120	2016	2.039	PACES II
73	Added value of high-resolution regional climate model: selected cases over the Bohai Sea and the Yellow Sea areas	Li, D.	International Journal of Climatology					2016	3.609	PACES II
74	A model-based climatology analysis of wind power resources at 100-m height over the Bohai Sea and the Yellow Sea	Li, D., Geyer, B., Bisling, P.	Applied Energy	179		575	589	2016	5.746	PACES II
75	High-resolution wind hindcast over the Bohai Sea and the Yellow Sea in East Asia: Evaluation and wind climatology analysis	Li, DL; von Storch, H; Geyer, B	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	121	1	111	129	2016	3.318	PACES II
76	Testing Reanalyses in Constraining Dynamical Downscaling	Li, DL; von Storch, H; Geyer, B	JOURNAL OF THE METEOROLOGICAL SOCIETY OF JAPAN	94A		47	68	2016	0.933	PACES II
77	High-resolution global maps of 21st-century annual forest loss: Independent accuracy assessment and application in a temperate forest region of atlantic canada.	Linke, J., Fortin, M. -, Courtenay, S., & Cormier, R.	Remote Sensing of Environment	188		164	176	2017	5.881	PACES II
78	Northern Hemisphere hydroclimate variability over the past twelve centuries	Ljungqvist, FC; Krusic, PJ; Sundqvist, HS; Zorita, E; Brattstrom, G; Frank, D	NATURE	532	7597	94	+	2016	38.138	PACES II
79	Starting a DNA barcode reference library for shallow water polychaetes from the southern European Atlantic coast.	Lobo, J.; Teixeira, M.A.L.; Borges, L.M.S.; Ferreira, M.S.G.; Hollatz, C.; Gomes, P.A.; Sousa, R.; Ravara, A.; Costa, M.H.; Costa, F.O.	Molecular Ecology Resources	16	1	298	313	2016	5.298	PACES II
80	Short-Term Dynamics of North Sea Bacterioplankton-Dissolved Organic Matter Coherence on Molecular Level	Lucas, J; Koester, I; Wichels, A; Niggemann, J; Dittmar, T; Callies, U; Wiltshire, KH; Gerdtts, G	FRONTIERS IN MICROBIOLOGY	7				2016	4.165	PACES II

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81	European summer temperatures since Roman times	Luterbacher, J; Werner, JP; Smerdon, JE; Fernandez-Donado, L; Gonzalez-Rouco, FJ; Barriopedro, D; Ljungqvist, FC; Buntgen, U; Zorita, E; Wagner, S; Esper, J; McCarroll, D; Toreti, A; Frank, D; Jungclaus, JH; Barriendos, M; Bertolin, C; Bothe, O; Brazdil, R; Camuffo, D; Dobrovolny, P; Gagen, M; Garica-Bustamante, E; Ge, Q; Gomez-Navarro, JJ; Guiot, J; Hao, Z; Hegerl, GC; Holmgren, K; Klimenko, VV; Martin-Chivelet, J; Pfister, C; Roberts, N; Schindler, A; Schurer, A; Solomina, O; von Gunten, L; Wahl, E; Wanner, H; Wetter, O; Xoplaki, E; Yuan, N; Zanchettin, D; Zhang, H; Zerefos, C	ENVIRONMENTAL RESEARCH LETTERS	11	2			2016	4.134	PACES II
82	Maximum sinking velocities of suspended particulate matter in a coastal transition zone	Maerz J., Hofmeister R., Van Der Lee E.M., Gräwe U., Riethmüller R., Wirtz K.W.	Biogeosciences	13	17	4863	4876	2016	Scopus	PACES II
83	Contribution to the Themed Section: Advances in Plankton Modelling and Biodiversity Evaluation A 1D physical-biological model of the impact of highly intermittent phytoplankton distributions	Mandal, Sandip; Homma, Hikaru; Priyadarshi, Anupam; et al.	JOURNAL OF PLANKTON RESEARCH	38	4	964	976	2016	2.150	PACES II
84	The impact of shipping emissions on air pollution in the greater North Sea region - Part 2: Scenarios for 2030	Matthias, V; Aulinger, A; Backes, A; Bieser, J; Geyer, B; Quante, M; Zeretzke, M	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	2	759	776	2016	5.114	PACES II
85	Seasonal and spatial variation in suspended matter, organic carbon, nitrogen, and nutrient concentrations of the Senegal River in West Africa	Mbaye, ML; Gaye, AT; Spitzy, A; Dahnke, K; Afouda, A; Gaye, B	LIMNOLOGICA	57		1	13	2016	1.403	PACES II
86	Isotopic compositions of the elements 2013 (IUPAC Technical Report)	Meija, J., Coplen, T.B., Berglund, M., Brand, W.A., De Bievre, P., Gröning, M., Holden, N.E., Irrgeher, J., Loss, R.D., Wlacyk, T., Prohaska, T.	PURE AND APPLIED CHEMISTRY	88	3	293	306	2016	2.615	PACES II
87	Atomic weights of the elements 2013 (IUPAC Technical Report)	Meija, J; Coplen, TB; Berglund, M; Brand, WA; De Bievre, P; Groning, M; Holden, NE; Irrgeher, J; Loss, RD; Walczyk, T; Prohaska, T	PURE AND APPLIED CHEMISTRY	88	3	265	291	2016	2.615	PACES II
88	Depth-averaged instantaneous currents in a tidally dominated shelf sea from glider observations	Merckelbach, L.	Biogeosciences	13	24	6637	6649	2016	3.700	PACES II
89	High-resolution monitoring of marine protists based on an observation strategy integrating automated on-board filtration and molecular analyses	Metfies, K.; Schroeder, F.; Hessel, J.; Wollschlaeger, J.; Micheller, S.; Wolf, C.; Kilias, E.; Sprong, P.; Neuhaus, S.; Frickenhaus, S.; Petersen, W.	Ocean Science	12	6	1237	1247	2016	2.985	PACES II

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90	The assessment of atmospheric correction processors for Meris based on in-situ measurements-updates in OC-CCI round Robin	Müller D., Krasemann H., Zühlke M., Doerffer R., Brockmann C., Steinmetz F., Valente A., Brotas V., Grant M.G., Sathyendranath S., Mélin F., Franz B.A., Mazeran C., Regner P.	European Space Agency, (Special Publication) ESA SP	SP-740					Scopus	PACES II
91	Effects of current regimes and oxygenation on particulate matter preservation on the Namibian shelf: Insights from amino acid biogeochemistry	Nagel B., Gaye B., Lahajnar N., Struck U., Emeis K.-C.	Marine Chemistry	186		121	132	2016	Scopus	PACES II
92	A comparison of sea salt emission parameterizations in northwestern Europe using a chemistry transport model setup	Neumann D., Matthias V., Bieser J., Aulinger A., Quante M.	Atmospheric Chemistry and Physics	16	15	9905	9933	2016	Scopus	PACES II
93	Benthic remineralisation rates in shelf and slope sediments of the northern Benguela upwelling margin	Neumann, A; Lahajnar, N; Emeis, KC	CONTINENTAL SHELF RESEARCH	113		47	61	2016	2.011	PACES II
94	Sensitivity of modeled atmospheric nitrogen species and nitrogen deposition to variations in sea salt emissions in the North Sea and Baltic Sea regions	Neumann, D; Matthias, V; Bieser, J; Aulinger, A; Quante, M	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	5	2921	2942	2016	5.114	PACES II
95	Effect of Sea Salt Emissions on Anthropogenic Air Pollution and Nitrogen Deposition in Northwestern Europe	Neumann, Daniel; Bieser, Johannes; Aulinger, Armin; et al.	AIR POLLUTION MODELING AND ITS APPLICATION XXIV			55	59	2016	0	PACES II
96	Detecting small-scale horizontal gradients in the upper ocean using wavelet analysis	North. R.P., Riethmüller, R., Baschek, B.	Estuarine, Coastal and Shelf Science	180		221	229	2016	2.335	PACES II
97	Stochastic secular trends in sea level rise	Ocaña, V., Zorita, E., Heimbach, P.	Journal of Geophysical Research: Oceans	121	4	2183	2202	2016	Scopus	PACES II
98	A hybrid variational-ensemble data assimilation scheme with systematic error correction for limited-area ocean models	Oddo, P.; Storto, A.; Dobricic, S.; Russo, A.; Lewis, C.; Onken, R.; Coelho, E.	Ocean Science	12	5	1137	1153	2016	2.985	PACES II
99	On the impact of salinity observations on state estimates in Ems Estuary	Pein, JU; Grayek, S; Schulz-Stellenfleth, J; Stanev, EV	OCEAN DYNAMICS	66	2	243	262	2016	1.892	PACES II
100	Development and field test of a mobile continuous flow system utilizing Chemcatcher for monitoring of rare earth elements in marine environments	Petersen, J; Profrock, D; Paschke, A; Broekaert, JAC; Prange, A	ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY	2	1	146	153	2016	0	PACES II
101	Harmonization in the joint European research infrastructure network for coastal observatories - JERICO	Petihakis, G., Petersen, W., Nair, R., Faimali, M., Pavanello, G., Boukerma, K., Delauney, L., Puillat, I., Farcy, P., Greenwood, N.	OCEANS 2015 - MTS/IEEE Washington					2016	Scopus	PACES II

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102	Remote sensing of chlorophyll in the Baltic Sea at basin scale from 1997 to 2012 using merged multi-sensor data	Pitarch, J; Volpe, G; Colella, S; Krasemann, H; Santoleri, R	OCEAN SCIENCE	12	2	379	389	2016	2.985	PACES II
103	Simultaneous multi-element and isotope ratio imaging of fish otoliths by laser ablation split stream	Prohaska, T.; Irrgeher, J.; Zitek, A.	Journal of Analytical Atomic Spectrometry	31	8	1612	1621	2016	3.379	PACES II
104	Strategy for sustainability of the Joint European Research Infrastructure Network for Coastal Observatories - JERICO	Puillat, I., Farcy, P., Durand, D., Petihakis, G., Morin, P., Kriegger, M., Petersen, W., Tintore, J., Sorensen, K., Sparnocchia, S., Wehde, H.	OCEANS 2015 - MTS/IEEE Washington					2016	Scopus	PACES II
105	Global impacts of the 1980s regime shift	Reid, PC; Hari, RE; Beaugrand, G; Livingstone, DM; Marty, C; Straile, D; Barichivich, J; Goberville, E; Adrian, R; Aono, Y; Brown, R; Foster, J; Groisman, P; Helaouet, P; Hsu, HH; Kirby, R; Knight, J; Kraberg, A; Li, JP; Lo, TT; Myneni, RB; North, RP; Pounds, JA; Sparks, T; Stubi, R; Tian, YJ; Wiltshire, KH; Xiao, D; Zhu, ZC	GLOBAL CHANGE BIOLOGY	22	2	682	703	2016	8.444	PACES II
106	An interlaboratory comparison on whole water samples	Richter, J; Elordui-Zapatarietxe, S; Emteborg, H; Fettig, I; Cabillic, J; Alasonati, E; Gantois, F; Swart, C; Gokcen, T; Tunc, M; Binici, B; Rodriguez-Cea, A; Zuliani, T; Gago, A; Profrock, D; Nousiainen, M; Sawal, G; Buzoianu, M; Philipp, R	ACCREDITATION AND QUALITY ASSURANCE	21	2	121	129	2016	0.083	PACES II
107	Quantitative filter technique measurements of spectral light absorption by aquatic particles using a portable integrating cavity absorption meter (QFT-ICAM)	Rottgers, R; Doxaran, D; Dupouy, C	OPTICS EXPRESS	24	2	A1	A20	2016	3.148	PACES II
108	Late Holocene climate: Natural or anthropogenic?	Ruddiman, WF; Fuller, DQ; Kutzbach, JE; Tzedakis, PC; Kaplan, JO; Ellis, EC; Vavrus, SJ; Roberts, CN; Fyfe, R; He, F; Lemmen, C; Woodbridge, J	REVIEWS OF GEOPHYSICS	54	1	93	118	2016	11.444	PACES II
109	Analysis of the upscaling problem - A case study for the barotropic dynamics in the North Sea and the German Bight	Schulz-Stellenfleth, J; Stanev, EV	OCEAN MODELLING	100		109	124	2016	3.337	PACES II
110	Effects of chemical dispersants on oil spill drift paths in the German Bight—probabilistic assessment based on numerical ensemble simulations	Schwichtenberg, F., Callies, U., Groll, N., Maßmann, S.	Geo-Marine Letters			1	8	2016	1.577	PACES II
111	Sensors for Coastal Monitoring	Serafino, F; Horstmann, J; Borge, JCN; Lugni, C; Brocchini, M	JOURNAL OF SENSORS					2016	0.712	PACES II
112	Developing European operational oceanography for Blue Growth, climate change adaptation and mitigation, and ecosystem-based management	She, Jun; Allen, Icarus; Buch, Erik; et al.	OCEAN SCIENCE	12	4	953	976	2016	0.500	PACES II

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113	Small-scale benthos distribution modelling in a North Sea tidal basin in response to climatic and environmental changes (1970s-2009)	Singer, A., Schückel, U., Beck, M., Bleich, O., Brumsack, H.-J., Freund, H., Geimecke, C., Lettmann, K.A., Millat, G., Staneva, J., Vanselow, A., Westphal, H., Wolff, J.-O., Wurpts, A., Kröncke, I.	Marine Ecology Progress Series	551		13	30	2016	2.361	PACES II
114	El Nino-Southern Oscillation influence on tropospheric mercury concentrations	Slemr, F; Brenninkmeijer, CA; Rauthe-Schoch, A; Weigelt, A; Ebinghaus, R; Brunke, EG; Martin, L; Spain, TG; O'Doherty, S	GEOPHYSICAL RESEARCH LETTERS	43	4	1766	1771	2016	4.212	PACES II
115	Atmospheric mercury measurements onboard the CARIBIC passenger aircraft	Slemr, F; Weigelt, A; Ebinghaus, R; Kock, HH; Bodewadt, J; Brenninkmeijer, CAM; Rauthe-Schoch, A; Weber, S; Hermann, M; Becker, J; Zahn, A; Martinsson, B	ATMOSPHERIC MEASUREMENT TECHNIQUES	9	5	2291	2302	2016	2.989	PACES II
116	Initial results on the coupling of sedimentation field-flow fractionation (SdFFF) to inductively coupled plasma-tandem mass spectrometry (ICP-MS/MS) for the detection and characterization of TiO2 nanoparticles	Soto-Alvaredo, J., Dutschke, F., Bettmer, J., Montes-Bayón, M., Pröfrock, D., Prange, A.	Journal of Analytical Atomic Spectrometry	31	7	1549	1555	2016	3.379	PACES II
117	An interlinked coastal observatory network for Europe	Sparnocchia, S; Nair, R; Petihakis, G; Aydogdu, A; Dobricic, S; Farcy, P; Martinelli, M; Petersen, W; de la Villeon, LP	JOURNAL OF OPERATIONAL OCEANOGRAPHY	9		S193	S201	2016	1.263	PACES II
118	Atmospheric mercury concentrations observed at ground-based monitoring sites globally distributed in the framework of the GMOS network	Sprovieri F., Pirrone N., Bencardino M., D'Amore F., Carbone F., Cinnirella S., Mannarino V., Landis M., Ebinghaus R., Weigelt A., Brunke E.-G., Labuschagne C., Martin L., Munthe J., Wängberg I., Artaxo P., Morais F., De Melo Jorge Barbosa H., Brito J., Cairns W., Barbante C., Del Carmen Diéguez M., Elizabeth Garcia P., Aurélien D., Angot H., Magand O., Skov H., Horvat M., Kotnik J., Alana Read K., Mendes Neves L., Manfred Gawlik B., Sena F., Mashyanov N., Obolkin V., Wip D., Bin Feng X., Zhang H., Fu X., Ramachandran R., Cossa D., Knoery J., Maruszczak N., Nerentorp M., Norstrom C.	Atmospheric Chemistry and Physics	16	18	11915	11935	2016	Scopus	PACES II
119	Ocean forecasting for the German Bight: from regional to coastal scales	Stanev, E.V.; Schulz-Stellenfleth, J.; Staneva, J.; Grayek, S.; Grashorn, S.; Behrens, A.; Koch, W.; Pein, J.	Ocean Science	12	5	1105	1136	2016	2.985	PACES II
120	Coastal flooding: impact of waves on storm surge during extremes. A case study for the German Bight	Staneva, J.; Wahle, K.; Koch, W.; Behrens, A.; Fenoglio-Marc, L.; Stanev, E.V.	Natural Hazards and Earth System Sciences	16		2373	2389	2016	2.277	PACES II
121	Coupling of wave and circulation models in coastal-ocean predicting systems: a case study for the German Bight	Staneva, J; Wahle, K; Gunther, H; Stanev, E	OCEAN SCIENCE	12	3	797	806	2016	2.985	PACES II

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122	Attribution of extreme weather and climate-related events	Stott, PA; Christidis, N; Otto, FEL; Sun, Y; Vanderlinden, JP; van Oldenborgh, GJ; Vautard, R; von Storch, H; Walton, P; Yiou, P; Zwiers, FW	WILEY INTERDISCIPLINARY REVIEWS-CLIMATE CHANGE	7	1	23	41	2016	3.313	PACES II
123	Evidence for High Concentrations and Maternal Transfer of Substituted Diphenylamines in European Eels Analyzed by Two-Dimensional Gas Chromatography-Time-of-Flight Mass Spectrometry and Gas Chromatography-Fourier Transform Ion Cyclotron Resonance Mass Spectrometry	Suehring, Roxana; Ortiz, Xavier; Pena-Abaurrea, Miren; et al.	ENVIRONMENTAL SCIENCE & TECHNOLOGY	50	23	12678	12685	2016	5.393	PACES II
124	Distribution of brominated flame retardants and dechloranes between sediments and benthic fish - A comparison of a freshwater and marine habitat	Süßring, R; Busch, F; Fricke, N; Kotke, D; Wolschke, H; Ebinghaus, R	SCIENCE OF THE TOTAL ENVIRONMENT	542		578	585	2016	3.976	PACES II
125	Distribution of organophosphate esters between the gas and particle phase-model predictions vs measured data	Süßring, R., Wolschke, H., Diamond, M.L., Jantunen, L.M., Scheringer, M.	Environmental Science and Technology	50	13	6644	6651	2016	3.976	PACES II
126	Projected Changes in Wave Conditions in the Baltic Sea by the end of 21st Century and the Corresponding Shoreline Changes	Suursaar, Uelo; Tonisson, Hannes; Alari, Victor; et al.	JOURNAL OF COASTAL RESEARCH		75	112	116	2016	0.852	PACES II
127	Potential reference measurement procedures for PBDE in surface water at levels required by the EU Water Frame Directive	Swart, C; Gantois, F; Petrov, P; Entwisle, J; Goenaga-Infante, H; Nousiainen, M; Bilsel, M; Binici, B; Gonzalez-Gago, A; Profrock, D; Goren, AC	TALANTA	152		251	258	2016	4.035	PACES II
128	Reconsidering the Quality and Utility of Downscaling	Takayabu, I; Kanamaru, H; Dairaku, K; Benestad, R; von Storch, H; Christensen, JH	JOURNAL OF THE METEOROLOGICAL SOCIETY OF JAPAN	94A		31	45	2016	0.933	PACES II
129	Evolution of dissolved and particulate chromophoric materials during the VAHINE mesocosm experiment in the New Caledonian coral lagoon (south-west Pacific)	Tedetti, M., Marie, L., Röttgers, R., Rodier, M., Van Wambeke, F., Helias, S., Caffin, M., Cornet-Barthaux, V., Dupouy, C.	Biogeosciences	13	11	3283	3303	2016	3.700	PACES II
130	Oceanic influence on the precipitation in Venezuela under current and future climate	Tim, N., Bravo de Guenni, L.	Climate Dynamics	47	01. Feb	211	234	2016	4.708	PACES II
131	The importance of external climate forcing for the variability and trends of coastal upwelling in past and future climate	Tim, N; Zorita, E; Hunnicke, B; Yi, X; Emeis, KC	OCEAN SCIENCE	12	3	807	823	2016	2.985	PACES II



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132	Measurement and Model Simulations of Hydrodynamic Parameters, Observations of Coastal Changes and Experiments with Indicator Sediments to Analyse the Impact of Storm St. Jude in October, 2013	Tonisson, H; Suursaar, U; Alari, V; Muru, M; Rivis, R; Kont, A; Viitak, M	JOURNAL OF COASTAL RESEARCH			1257	1261	2016	4.850	PACES II
133	7000-year human legacy of elevation-dependent European fire regimes	Vanniere, B; Blarquez, O; Rius, D; Doyen, E; Brucher, T; Colombaroli, D; Connor, S; Feurdean, A; Hickler, T; Kaltenrieder, P; Lemmen, C; Leys, B; Massa, C; Olofsson, J	QUATERNARY SCIENCE REVIEWS	132		206	212	2016	4.521	PACES II
134	The impact of surface currents and sea level on the wave field evolution during St. Jude storm in the eastern Baltic Sea	Viitak, M; Maljutenko, I; Alari, V; Suursaar, U; Rikka, S; Lagemaa, P	OCEANOLOGIA	58	3	176	186	2016	0.935	PACES II
135	Joint analysis of deposition fluxes and atmospheric concentrations of inorganic nitrogen and sulphur compounds predicted by six chemistry transport models in the frame of the EURODELTAIII project	Vivanco, M. G., Bessagnet, B., Cuvelier, C., Theobald, M. R., Tsyro, S., Pirovano, G., . . . Ung, A.	Atmospheric Environment	151		152	175	2017	3.459	PACES II
136	Signal Stations: Newly Digitized Historical Climate Data of the German Bight and the Southern Baltic Sea Coast	Wagner, D.; Tinz, B.; Storch, H.v.	Journal of Atmospheric and Oceanic Technology	33	12	2735	2741	2016	2.157	PACES II
137	Tropospheric mercury vertical profiles between 500 and 10aEuro-000 m in central Europe	Weigelt, A; Ebinghaus, R; Pirrone, N; Bieser, J; Bodewadt, J; Esposito, G; Slemr, F; van Velthoven, PFJ; Zahn, A; Ziereis, H	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	6	4135	4146	2016	5.114	PACES II
138	Mercury emissions of a coal-fired power plant in Germany	Weigelt, Andreas; Slemr, Franz; Ebinghaus, Ralf; et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	21	13653	13668	2016	5.114	PACES II
139	First time DNA barcoding of the common shipworm <i>Teredo navalis</i> Linnaeus 1758 (Mollusca: Bivalvia: Teredinidae): Molecular-taxonomic investigation and identification of a widespread wood-borer	Weigelt, R.; Lippert, H.; Borges, L.M.S.; Appelqvist, C.; Karsten, U.; Bastorp, R.	Journal of Experimental Marine Biology and Ecology	475		154	162	2016	1.796	PACES II
140	Last millennium northern hemisphere summer temperatures from tree rings: Part I: The long term context	Wilson, R; Anchukaitis, K; Briffa, KR; Buntgen, U; Cook, E; D'Arrigo, R; Davi, N; Esper, J; Frank, D; Gunnarson, B; Hegerl, G; Helama, S; Klesse, S; Krusic, PJ; Linderholm, HW; Myglan, V; Osborn, TJ; Rydval, M; Schneider, L; Schurer, A; Wiles, G; Zhang, P; Zorita, E	QUATERNARY SCIENCE REVIEWS	134		1	18	2016	4.521	PACES II

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141	In Situ Observations of Biological and Environmental Parameters by Means of Optics—Development of Next-Generation Ocean Sensors With Special Focus on an Integrating Cavity Approach	Wollschläger, J.; D. Voß; O. Zielinski; W. Petersen	IEEE Journal of Oceanic Engineering	PP	99	1	10	2016	1.648	PACES II
142	Atmospheric occurrence and fate of organophosphorus flame retardants and plasticizer at the German coast	Wolschke, H; Suhring, R; Mi, WY; Moller, A; Xie, ZY; Ebinghaus, R	ATMOSPHERIC ENVIRONMENT	137		1	5	2016	3.459	PACES II
143	A study of quasi-millennial extratropical winter cyclone activity over the Southern Hemisphere	Xia L., von Storch H., Feser F., Wu J.	Climate Dynamics	47		2121	2138	2016	Scopus	PACES II
144	The Medieval Climate Anomaly and Byzantium: A review of the evidence on climatic fluctuations, economic performance and societal change	Xoplaki, E; Fleitmann, D; Luterbacher, J; Wagner, S; Haldon, JF; Zorita, E; Telelis, I; Toreti, A; Izdebski, A	QUATERNARY SCIENCE REVIEWS	136		229	252	2016	4.521	PACES II
145	Climatology of Polar Lows over the Sea of Japan Using the JRA-55 Reanalysis	Yanase, W; Niino, H; Watanabe, S; Hodges, K; Zahn, M; Spengler, T; Gurvich, IA	JOURNAL OF CLIMATE	29	2	419	437	2016	4.850	PACES II
146	Storm-driven bottom sediment transport on a high-energy narrow shelf (NW Iberia) and development of mud depocenters	Zhang W., Cui Y., Santos A.I., Hanebuth T.J.J.	Journal of Geophysical Research: Oceans	121	8	5751	5772	2016	Scopus	PACES II
147	Emission factors for gaseous and particulate pollutants from offshore diesel engine vessels in China	Zhang, F; Chen, YJ; Tian, CG; Lou, DM; Li, J; Zhang, G; Matthias, V	ATMOSPHERIC CHEMISTRY AND PHYSICS	16	10	6319	6334	2016	5.114	PACES II
148	Unstructured-grid model for the North Sea and Baltic Sea: Validation against observations	Zhang, YLJ; Stanev, EV; Grashorn, S	OCEAN MODELLING	97		91	108	2016	3.337	PACES II
149	Seamless cross-scale modeling with SCHISM	Zhang, YLJ; Ye, F; Stanev, EV; Grashorn, S	OCEAN MODELLING	102		64	81	2016	3.337	PACES II
150	Polybrominated diphenyl ethers (PBDEs) and alternative brominated flame retardants (aBFRs) in sediments from four bays of the Yellow Sea, North China	Zhen, XM; Tang, JH; Xie, ZY; Wang, RM; Huang, GP; Zheng, Q; Zhang, K; Sun, YG; Tian, CG; Pan, XH; Li, J; Zhang, G	ENVIRONMENTAL POLLUTION	213		386	394	2016	4.839	PACES II
151	Applications of isotopes in analytical ecogeochemistry	Zitek, A; Irrgeher, J; Prohaska, T	ANALYTICAL AND BIOANALYTICAL CHEMISTRY	408	2	341	343	2016	3.125	PACES II

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152	Interannual variability in the summertime hydrological cycle over European regions	Zveryaev, I.I., Zahn, M., Allan, R.P.	Journal of Geophysical Research: Atmospheres					2016	Scopus	PACES II

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1	Die Aussagekraft von Klimaprojektionen fuer zukuenftige Herausforderungen der Trinkwasserversorgung in Deutschland	Bender, S.; Jacob, D	GWF, Wasser - Abwasser		4	362	368		-	PACES II / GERICS
2	The South Atlantic Anticyclone as a key player for the representation of the tropical Atlantic climate in coupled climate models	Cabos W., Sein D.V., Pinto J.G., Fink A.H., Koldunov N.V., Alvarez F., Izquierdo A., Keenlyside N., Jacob D.	Climate Dynamics			1	19	2016	Scopus	PACES II / GERICS
3	Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations	Casanueva, A. and Kotlarski, S. and Herrera, S. and Fernandez, J. and Gutierrez, J. M. and Boberg, F. and Colette, A. and Christensen, O. B. and Goergen, K. and Jacob, D. and Keuler, K. and Nikulin, G. and Teichmann, C. and Vautard, R.	Climate Dynamics	47		719	737	2016	4.708	PACES II / GERICS
4	Evaluating the performance of land surface model ORCHIDEE-CAN v1.0 on water and energy flux estimation with a single-and multi-layer energy budget scheme	Chen Y., Ryder J., Bastrikov V., McGrath M.J., Naudts K., Otto J., Ottlé C., Peylin P., Polcher J., Valade A., Black A., Elbers J.A., Moors E., Foken T., Van Gorsel E., Haverd V., Heinesch B., Tiedemann F., Knohl A., Launiainen S., Loustau D., Ogeé J., Vessala T., Luysaert S.	Geoscientific Model Development	9	9	2951	2972	2016	Scopus	PACES II / GERICS
5	Why climate change adaptation in cities needs customised and flexible climate services	Cortekar, J.; Bender, S.; Brune, M.; Groth, M.	Climate Services	4		42	51	2016	Scopus	PACES II / GERICS
6	Co-benefits and trade-offs in the water-energy nexus of irrigationmodernization in China	Cremades, R; Rothausen, SGSA.; Conway, D; Giu, X; Wang, J; Yu'e, L	ENVIRONMENTAL RESEARCH LETTERS	11		54007		2016	4.134	PACES II / GERICS
7	Contribution of cold fronts to seasonal rainfall in simulations over the southern La Plata Basin.	de Jesus EM, da Rocha RP, Reboita MS, Llopart M, Mosso Dutra LM, Remedio ARC	Clim Res 68	68		243	255		1.690	PACES II / GERICS
8	A multi-model climate response over tropical Africa at +2 °C	Déqué,M; Calmantib, S; Christensen, OB; Dell Aquila, A; Fox Maule, C; Händler, A; Nikulin, G; Teichmann, C	Climate Services					2016	Scopus	PACES II / GERICS
9	Assessment of simulated rainfall and temperature from the regional climate model REMO and future changes over Central Africa	Fotso-Nguemo, T.C.; Vondou, D.A.; Tchawoua, C.; Haensler, A.	Climate Dynamics					2016	4.708	PACES II / GERICS
10	Kurz kommentiert - Klimaabkommen - Wichtige Schritte fehlen noch	Groth, M.	Wirtschaftsdienst : Zeitschrift fuer Wirtschaftspolitik	96	1	4		2016	Scopus	PACES II / GERICS
11	Climate change impacts on the power generation potential of a European mid-century wind farms scenario	Isabelle Tobin and Sonia Jerez and Robert Vautard and Françoise Thais and Erik van Meijgaard and Andreas Prein and Michel Déqué and Sven Kotlarski and Cathrine Fox Maule and Grigory Nikulin and Thomas Noël and Claas Teichmann	ENVIRONMENTAL RESEARCH LETTERS	11	3			2016	4.134	PACES II / GERICS
12	Arctic Ocean Heat Impact on Regional Ice Decay: A Suggested Positive Feedback	Ivanov, V; Alexeev, V; Koldunov, NV; Repina, I; Sando, AB; Smedsrud, LH; Smirnov, A	JOURNAL OF PHYSICAL OCEANOGRAPHY	46	5	1437	1456	2016	3.026	PACES II / GERICS

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13	The Assessment of Surface Air Temperature and Precipitation Simulated by Regional Climate Model REMO over China	Jingwei, X.; Min, X.; Xi, J.; Remedio, A.C.; Sein, D.V.; Koldunov, N.; Jacob, D.	Advances in Climate Change Research - Chinese version	12	4	286	293	2016	Scopus	PACES II / GERICS
14	IDENTIFYING CLIMATE CHANGE INFORMATION NEEDS FOR THE HIMALAYAN REGION	Koldunov, NV; Kumar, P; Rasmussen, R; Ramanathan, AL; Nesje, A; Engelhardt, M; Tiwari, M; Haensler, A; Jacob, D	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	97	2	ES37	ES40	2016	7.929	PACES II / GERICS
15	Cross sectoral impacts on water availability at +2 degrees C and +3 degrees C for east Mediterranean island states: The case of Crete	Koutroulis, AG; Grillakis, MG; Daliakopoulos, IN; Tسانis, IK; Jacob, D	JOURNAL OF HYDROLOGY	532		16	28	2016	3.043	PACES II / GERICS
16	Impact of statistical bias correction on the projected climate change signals of the regional climate model REMO over the Senegal River Basin	Mbaye, ML; Haensler, A; Hagemann, S; Gaye, AT; Moseley, C; Afouda, A	INTERNATIONAL JOURNAL OF CLIMATOLOGY	36	4	2035	2049	2016	3.609	PACES II / GERICS
17	Europe's forest management did not mitigate climate warming	Naudts, K; Chen, YY; McGrath, MJ; Ryder, J; Valade, A; Otto, J; Luysaert, S	SCIENCE	351	6273	597	600	2016	34.661	PACES II / GERICS
18	Uncertainty: Lessons learned for climate services	Otto, J., Brown, C., Buontempo, C., Doblas-Reyes, F., Jacob, D., Jukes, M., Keup-Thiel, E., Kurnik, B., Schulz, J., Taylor, A., Verhoelst, T. and Walton, P.,	Bull. Am. Meteorol. Soc	BAMS-D-16-0173.1				2016	7.929	PACES II / GERICS
19	Bias reduction in decadal predictions of West African monsoon rainfall using regional climate models	Paxian, A.; Sein, D.; Panitz, H.-J.; Warscher, M.; Breil, M.; Engel, T.; Toedter, J.; Krause, A.; Cabos Narvaez, W.D.; Fink, A.H.; Ahrens, B.; Kunstmann, H.; Jacob, D.; Paeth, H.	Journal of Geophysical Research : Atmospheres	121	4	1715	1735	2016	3.318	PACES II / GERICS
20	Precipitation in the EURO-CORDEX 0.11° and 0.44° simulations: high resolution, high benefits?	Prein, A.F. and Gobiet, A. and Truhetz, H. and Keuler, K. and Goergen, K. and Teichmann, C. and Fox Maule, C. and van Meijgaard, E. and Déqué, M. and Nikulin, G. and Vautard, R. and Colette, A. and Kjellström, E. and Jacob, D.	Climate Dynamics	46		383	412	2016	4.708	PACES II / GERICS
21	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6	Ruane, A. C. and Teichmann, C. and Arnell, N. W. and Carter, T. R. and Ebi, K. L. and Frieler, K. and Goodess, C. M. and Hewitson, B. and Horton, R. and Kovats, R. S. and Lotze, H. K. and Mearns, L. O. and Navarra, A. and Ojima, D. S. and Riahi, K. and Rosenzweig, C. and Themessl, M. and Vincent, K.	Geoscientific Model Development	9		3493	3515	2016	Scopus	PACES II / GERICS
22	A multi-layer land surface energy budget model for implicit coupling with global atmospheric simulations	Ryder, J; Polcher, J; Peylin, P; Oettle, C; Chen, Y; van Gorsel, E; Haverd, V; McGrath, MJ; Naudts, K; Otto, J; Valade, A; Luysaert, S	GEOSCIENTIFIC MODEL DEVELOPMENT	9	1	223	245	2016	3.549	PACES II / GERICS
23	Influence of the Boundary Forcing on the Internal Variability of a Regional Climate Model	Sieck, K.; Jacob, D.	American Journal of Climate Change : AJCC [Online Ressource]	5	3	373	382	2016	Scopus	PACES II / GERICS
24	Improving predictions and management of hydrological extremes through climate services	van den Hurk, B.J.J.M., Bouwer, L.M., Buontempo, C., Döscher, R., Ercin, E., Hananel, C., Hunink, J.E., Kjellström, E., Klein, B., Manez, M., Pappenberger, F., Pouget, L., Ramos, M.-H., Ward, P.J., Weerts, A.H., Wijngaard, J.B.	Climate Services	1		6	11	2016	Scopus	PACES II / GERICS