

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

AEM

Topic 1

1. Bauer, A.; Neumeier, S.; Pyczak, F.; Singer, R.F.; Goeken, M.: Creep properties of different Gamma'-strengthened Co-base superalloys. In: *Materials Science and Engineering A*. Vol. 550 (2012) 333 - 341. (DOI: 10.1016/j.msea.2012.04.083) IF 2.003
2. Blawert, C.; da Conceicao, T.F.; Kainer, K.U.; Izquierdo, P.; Klose, S.G.; Hoeche, D.: Influence of Die Lubricants on Pickling and Conversion Treatment of High-pressure Die-cast AM30 Magnesium Alloy. In: *Advanced Engineering Materials*. Vol. 14 (2012) 4, 227 - 235. (DOI: 10.1002/adem.201100259) IF 1.185
3. Blawert, C.; Sah, S.P.; Liang, J.; Huang, Y.; Hoeche, D.: Role of sintering and clay particle additions on coating formation during PEO processing of AM50 magnesium alloy. In: *Surface & Coatings Technology*. Vol. 213 (2012) 48 - 58. (DOI: 10.1016/j.surfcoat.2012.10.013) IF 1.867
4. Bohlen, J.; Dobron, P.; Nascimento, L.; Parfenenko, K.; Chmelik, F.; Letzig, D.: The Effect of Reversed Loading Conditions on the Mechanical Behaviour of Extruded Magnesium Alloy AZ31. In: *Acta Physica Polonica A*. Vol. 122 (2012) 3, 444 - 449. IF 0.444
5. da Conceicao, T.F.; Scharnagl, N.; Dietzel, W.; Kainer, K.U.: Controlled degradation of amagnesium alloy in simulated body fluid using hydrofluoric acid treatment followed by polyacrylonitrile coating. In: *Corrosion Science*. Vol. 62 (2012) 83 - 89. (DOI: 10.1016/j.corsci.2012.04.041) IF 3.734
6. Dharmendra, C.; Rao, K.P.; Prasad, Y.V.R.K.; Hort, N.; Kainer, K.U.: Hot working mechanisms and texture development in Mg-3Sn-2Ca-0.4Al alloy. In: *Materials Chemistry and Physics*. Vol. 136 (2012) 2-3, 1081 - 1091. (DOI: 10.1016/j.matchemphys.2012.08.054) IF 2.234
7. Dobron, P.; Chmelik, F.; Parfenenko, K.; Letzig, D.; Bohlen, J.: On the Effect of the Extrusion Speed on Microstructure and Plastic Deformation of ZE10 and ZEK100 Magnesium Alloys - An Acoustic Emission Study. In: *Acta Physica Polonica A*. Vol. 122 (2012) 3, 593 - 596. IF 0.444
8. Dudamell, N.V.; Ulacia, I.; Galvez, F.; Yi, S.; Bohlen, J.; Letzig, D.; Hurtado, I.; Perez-Prado, M.T.: Influence of texture on the recrystallization mechanisms in an AZ31 Mg sheet alloy at dynamic rates. In: *Materials Science and Engineering A*. Vol. 532 (2012) 528 - 535. (DOI: 10.1016/j.msea.2011.11.018) IF 2.003
9. Fechner, D.; Hort, N.; Blawert, C.; Dieringa, H.; Stoermer, M.; Kainer, K.U.: The formation of Sr₆.33Mg₁₆.67Si₁₃ in magnesium alloy AM50 and its effect on mechanical properties. In: *Journal of Materials Science*. Vol. 47 (2012) 14, 5461 - 5469. (DOI: 10.1007/s10853-012-6436-9) IF 2.015
10. Feyerabend, F.; Druecker, H.; Laipple, D.; Vogt, C.; Stekker, M.; Hort, N.; Willumeit, R.: Ion release from magnesium materials in physiological solutions under different oxygen tensions. In: *Journal of Materials Science: Materials in Medicine*. Vol. 23 (2012) 1, 9 - 24. (DOI: 10.1007/s10856-011-4490-5) PNI/AEM IF 2.316
11. Gan, W.; Huang, Y.; Yang, L.; Kainer, K.U.; Jiang, M.; Brokmeier, H.-G.; Hort, N.: Identification of unexpected hydrides in Mg-20 wt% Dy alloy by high-brilliance synchrotron radiation. In: *Journal of Applied Crystallography*. Vol. 45 (2012) 17 - 21. (DOI: 10.1107/S0021889811053088) PNI/AEM IF 5.152
12. Gordin, D.M.; Gloriant, T.; Chane-Pane, V.; Busardo, D.; Mitran, V.; Hoeche, D.; Vasilescu, C.; Drob, S.I.; Cimpean, A.: Surface characterization and biocompatibility of titanium alloys implanted

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

- with nitrogen by Hardion+ technology. In: *Journal of Materials Science: Materials in Medicine*. Vol. 23 (2012) 12, 2953 - 2966. (DOI: 10.1007/s10856-012-4750-z) IF 2.316
13. Hadorn, J.P.; Hantzsche, K.; Yi, S.; Bohlen, J.; Letzig, D.; Agnew, S.R.: Effects of Solute and Second-Phase Particles on the Texture of Nd-Containing Mg Alloys. In: *Metallurgical and Materials Transactions A*. Vol. 43 (2012) 4, 1363 - 1375. (DOI: 10.1007/s11661-011-1018-z) IF 1.545
 14. Hadorn, J.P.; Hantzsche, K.; Yi, S.; Bohlen, J.; Letzig, D.; Wollmershauser, J.A.; Agnew, S.R.: Role of Solute in the Texture Modification During Hot Deformation of Mg-Rare Earth Alloys. In: *Metallurgical and Materials Transactions A*. Vol. 43 (2012) 4, 1347 - 1362. (DOI: 10.1007/s11661-011-0923-5) AEM/PNI IF 1.545
 15. Huang, Y.D.; Wang, Z.; Srinivasan, A.; Kainer, K.U.: Metallurgical Characterization of Hot Tearing Curves Recorded during Solidification of Magnesium Alloys. In: *Acta Physica Polonica A*. Vol. 122 (2012) 3, 497 - 500. IF 0.444
 16. Illkova, K.; Dobron, P.; Chmelik, F.; Letzig, D.; Bohlen, J.: Acoustic Emission Study of the Deformation Behavior of Mg-Mn Alloys Containing Rare Earth Elements. In: *Acta Physica Polonica A*. Vol. 122 (2012) 3, 634 - 638. IF 0.444
 17. Kainer, K.U.; Ebel, T.; Ferri, O.M.; Limberg, W.; Pyczak, F.; Schimansky, F.-P.; Wolff, M.: From Titanium to Magnesium - Processing by Advanced Metal Injection Moulding. In: *Powder Metallurgy*. Vol. 55 (2012) 4, 315 - 321. (DOI: 10.1179/1743290112Y.0000000020) IF 0.389
 18. Kanan, M.B.; Dietzel, W.: Pitting-induced hydrogen embrittlement of magnesium–aluminium alloy. In: *Materials and Design* Vol. 42 (2012) 321 – 326. (DOI: 10.1016/j.matdes.2012.06.007). IF 2.200
 19. Limberg, W.; Ebel, T.; Pyczak, F.; Oehring, M.; Schimansky, F.P.: Influence of the sintering atmosphere on the tensile properties of MIM-processed Ti 45Al 5Nb 0.2B 0.2C. In: *Materials Science and Engineering A*. Vol. 552 (2012) 323 - 329. (DOI: 10.1016/j.msea.2012.05.047) IF 2.003
 20. Mendis, C.L.; Manuel, M.V.: Corrosion and Surface Engineering of Magnesium: An Overview. In: *JOM: Journal of the Minerals, Metals and Materials Society*. Vol. 64 (2012) 6, 648 - 649. (DOI: 10.1007/s11837-012-0333-1) IF 1.421
 21. Mert, F.; Blawert, C.; Kainer, K.U.; Hort, N.: Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy. In: *Corrosion Science*. Vol. 65 (2012) 145 - 151. (DOI: 10.1016/j.corsci.2012.08.011) IF 3.734
 22. Mohanty, D.; Gabrisch, H.: Microstructural investigation of $\text{Li}_x\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ ($x \leq 1$) and its aged products via magnetic and diffraction study. In: *Journal of Power Sources*. Vol. 220 (2012) 405 - 412. (DOI: 10.1016/j.jpowsour.2012.08.005) IF 4.951
 23. Peng, Q.; Huang, Y.; Kainer, K.U.; Hort, N.: Development of High Performance Single-Phase Solid Solution Magnesium Alloy at Low Temperature. In: *Advanced Engineering Materials*. Vol. 14 (2012) 3, 178 - 184. (DOI: 10.1002/adem.201100176) IF 1.185
 24. Peng, Q.; Huang, Y.; Kainer, K.U.; Hort, N.: High ductile as-cast Mg–RE based alloys at room temperature. In: *Materials Letters*. Vol. 83 (2012) 209 - 212. (DOI: 10.1016/j.matlet.2011.08.009) IF 2.307

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

25. Qiao, Z.; Shi, Z.; Hort, N.; Abidin, N.I.Z.; Atrens, A.: Corrosion behaviour of a nominally high purity Mg ingot produced by permanent mould direct chill casting. In: Corrosion Science. Vol. 61 (2012) 185 - 207. (DOI: 10.1016/j.corsci.2012.04.030) IF 3.734
26. Rao, K.P.; Prasad, Y.V.R.K.; Suresh, K.; Hort, N.; Kainer, K.U.: Hot deformation behavior of Mg–2Sn–2Ca alloy in as-cast condition and after homogenization. In: Materials Science and Engineering A. Vol. 552 (2012) 444 - 450. (DOI: 10.1016/j.msea.2012.05.068) IF 2.003
27. Ratter, B.M.W.; Philipp, K.H.I.; Storch, H.v.: Between hype and decline: recent trends in public perception of climate change. In: Environmental Science & Policy. Vol. 18 (2012) 3 - 8. (DOI: 10.1016/j.envsci.2011.12.007) IF 3.024
28. Sandloebes, S.; Friak, M.; Zaefferer, S.; Dick, A.; Yi, S.; Letzig, D.; Pei, Z.; Zhu, L.-F.; Neugebauer, J.; Raabe, D.: The relation between ductility and stacking fault energies in Mg and Mg–Y alloys. In: Acta Materialia . Vol. 60 (2012) 6-7, 3011 - 3021. (DOI: 10.1016/j.actamat.2012.02.006) IF 3.755
29. Schloffer, M.; Iqbal, F.; Gabrisch, H.; Schwaighofer, E.; Schimansky, F.-P.; Mayer, S.; Stark, A.; Lippmann, T.; Goeken, M.; Pyczak, F.; Clemens, H.: Microstructure development and hardness of a powder metallurgical multi phase Gamma-TiAl based alloy. In: Intermetallics. Vol. 22 (2012) 231 - 240. (DOI: 10.1016/j.intermet.2011.11.015) AEM/PNI IF 1.649
30. Schlueter, K.; Zamponi, C.; Hort, N.; Kainer, K.U.; Quandt, E.: Polycrystalline and amorphous MgZnCa thin films. In: Corrosion Science. Vol. 6 3 (2012) 234 - 238. (DOI: 10.1016/j.corsci.2012.06.005) IF 3.734
31. Schmoelzer, T.; Stark, A.; Schwaighofer, E.; Lippmann, T.; Mayer, S.; Clemens, H.: In Situ Synchrotron Study of B19 Phase Formation in an Intermetallic Gamma-TiAl Alloy. In: Advanced Engineering Materials. Vol. 14 (2012) 7, 445 - 448. (DOI: 10.1002/adem.201200047) AEM/PNI IF 1.185
32. Srinivasan, A.; Wang, Z.; Huang, Y.; Beckmann, F.; Kainer, K.U.; Hort, N.: Hot Tearing Susceptibility of Magnesium–Gadolinium Binary Alloys. In: Transactions of the Indian Institute of Metals. Vol. 65 (2012) 6, 701 - 706. (DOI: 10.1007/s12666-012-0210-1) PNI/AEM IF 0.205
33. Tolnai, D.; Requena, G.; Cloetens, P.; Lendvai, J.; Degischer, H.-P.: Sub-micrometre holotomographic characterisation of the effects of solution heat treatment on an AlMg7.3Si3.5 alloy. In: Materials Science and Engineering A. Vol. 550 (2012) 214 - 221. (DOI: 10.1016/j.msea.2012.04.060) IF 2.003
34. Tolnai, D.; Townsend, P.; Requena, G.; Salvo, L.; Lendvai, J.; Degischer, H.P.: In situ synchrotron tomographic investigation of the solidification of an AlMg4.7Si8 alloy. In: Acta Materialia . Vol. 60 (2012) 6-7, 2568 - 2577. (DOI: 10.1016/j.actamat.2012.01.024) IF 3.755
35. Wang, L.; Pyczak, F.; Zhang, J.; Lou, L.H.; Singer, R.F.: Effect of eutectics on plastic deformation and subsequent recrystallization in the single crystal nickel base superalloy CMSX-4. In: Materials Science and Engineering A. Vol. 532 (2012) 487 - 492. (DOI: 10.1016/j.msea.2011.11.015) IF 2.003
36. Yang, L.; Hort, N.; Willumeit, R.; Feyerabend, F.: Effects of corrosion environment and proteins on magnesium corrosion. In: Corrosion Engineering Science and Technology. Vol. 47 (2012) 5, 335 - 339. (DOI: 10.1179/1743278212Y.0000000024) AEM/PNI IF 0.658
37. Yang, L.; Huang, Y.; Feyerabend, F.; Willumeit, R.; Kainer, K.U.; Hort, N.: Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg–Dy alloys. In: Journal

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

of the Mechanical Behavior of Biomedical Materials. Vol. 13 (2012) 36 - 44. (DOI: 10.1016/j.jmbbm.2012.04.007) AEM/PNI IF 2.814

Topic 2

38. Andar, M.O.; Kuwabara, T.; Steglich, D.: Material modeling of AZ31 Mg sheet considering variation of r-values and asymmetry of the yield locus. In: Materials Science and Engineering A. Vol. 549 (2012) 82 - 92. (DOI: 10.1016/j.msea.2012.04.009) IF 2.003
39. Bechtle, S.; Oezcoban, H.; Lilleodden, E.T.; Huber, N.; Schreyer, A.; Swain, M.V.; Schneider, G.A.: Hierarchical flexural strength of enamel: transition from brittle to damage-tolerant behaviour. In: Journal of the Royal Society Interface. Vol. 9 (2012) 71, 1265 - 1274. (DOI: 10.1098/rsif.2011.0498) AEM/PNI IF 4.402
40. Bechtle, S.; Oezcoban, H.; Yilmaz, E.D.; Fett, T.; Rizzi, G.; Lilleodden, E.T.; Huber, N.; Schreyer, A.; Swain, M.V.; Schneider, G.A.: A method to determine site-specific, anisotropic fracture toughness in biological materials. In: Scripta Materialia. Vol. 66 (2012) 8, 515 - 518. (DOI: 10.1016/j.scriptamat.2011.12.027) AEM/PNI IF 2.699
41. Bleier, N.; Mosler, J.: Efficient variational constitutive updates by means of a novel parameterization of the flow rule. In: International Journal for Numerical Methods in Engineering. Vol. 89 (2012) 9, 1120 - 1143. (DOI: 10.1002/nme.3280) IF 2.009
42. Borges, M.F.; Amancio-Filho, S.T.; dos Santos, J.F.; Strohaecker, T.R.; Mezzaferro, J.A.E.: Development of computational models to predict the mechanical behavior of Friction Riveting joints. In: Computational Materials Science. Vol. 54 (2012) 7 - 15. (DOI: 10.1016/j.commatsci.2011.10.031) IF 1.574
43. Chen, Y.J.; Huber, N.: Transient Wear Simulation in Sliding Contacts of Spur Gear Teeth. In: Computers, Materials & Continua : CMC. Vol. 29 (2012) 1, 1 - 14. (DOI: 10.3970/ cmc.2012.029.001) IF 0.972
44. Coelho, R.S.; Kostka, A.; dos Santos, J.F.; Kaysser-Pyzalla, A.: Friction-stir dissimilar welding of aluminium alloy to high strength steels: Mechanical properties and their relation to microstructure. In: Materials Science and Engineering A. Vol. 556 (2012) 175 - 183. (DOI: 10.1016/j.msea.2012.06.076) IF 2.003
45. Cornec, A.; Kabir, M.R.; Huber, N.: Use of spherical indentation technique for measurement of property variations of GammaTiAl. In: Journal of Materials Research. Vol. 27 (2012) 378 - 388. (DOI: 10.1557/jmr.2011.366) IF 1.434
46. Daneshpour, S.; Dyck, J.; Ventske, V.; Huber, N.: Crack retardation mechanism due to overload in base material and laser welds of Al alloys. In: International Journal of Fatigue. Vol. 42 (2012) 95 - 103. (DOI: 10.1016/j.ijfatigue.2011.07.010) IF 1.546
47. Erickson, G.M.; Krick, B.A.; Hamilton, M.; Bourne, G.R.; Norell, M.A.; Lilleodden, E.; Sawyer, W.G.: Complex Dental Structure and Wear Biomechanics in Hadrosaurid Dinosaurs. In: Science. Vol. 338 (2012) 6103, 98 - 101. (DOI: 10.1126/science.1224495) IF 31.201
48. Fricke, W.; Zacke, S.; Kocak, M.; Eren, S.E.: Fatigue and fracture strength of ship block joints welded with large gaps. In: Welding in the world. Vol. 56 (2012) 3-4. IF 0.302
49. Hilgert, J.; dos Santos, J.F.; Huber, N.: Shear layer modelling for bobbin tool friction stir welding. In: Science and Technology of Welding and Joining. Vol. 17 (2012) 6, 454 - 459. (DOI: 10.1179/1362171812Y.0000000034) IF 1.735

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

50. Homayonifar, M.; Mosler, J.: Efficient modeling of microstructure evolution in magnesium by energy minimization. In: International Journal of Plasticity. Vol. 28 (2012) 1, 1 - 20. (DOI: 10.1016/j.ijplas.2011.05.011) IF 4.603
51. Huetsch, L.L.; Hilgert, J.; Herzberg, K.; dos Santos, J.; Huber, N.: Temperature and Texture Development during High Speed Friction Stir Processing of Magnesium AZ31. In: Advanced Engineering Materials. Vol. 14 (2012) 9, 762 - 771. (DOI: 10.1002/adem.201200112) IF 1.185
52. Khan, S.; Kintzel, O.; Mosler, J.: Experimental and numerical lifetime assessment of Al 2024 sheet. In: International Journal of Fatigue. Vol. 37 (2012) 112 - 122. (DOI: 10.1016/j.ijfatigue.2011.09.010) IF 1.546
53. Khan, S.; Wilde, F.; Beckmann, F.; Mosler, J.: Low cycle fatigue damage mechanism of the lightweight alloy Al2024. In: International Journal of Fatigue. Vol. 38 (2012) 92 - 99. (DOI: 10.1016/j.ijfatigue.2011.11.009) AEM/PNI IF 1.546
54. Kupka, D.; Lilleodden, E.T.: Mechanical Testing of Solid-Solid Interfaces at the Microscale. In: Experimental Mechanics. Vol. 52 (2012) 6, 649 - 658. (DOI: 10.1007/s11340-011-9530-z) IF 1.522
55. Liu, J.; Ventzke, V.; Staron, P.; Schell, N.; Kashaev, N.; Huber, N.: Investigation of In Situ and Conventional Post-Weld Heat Treatments on Dual-Laser-Beam-Welded Gamma-TiAl-Based Alloy. In: Advanced Engineering Materials. Vol. 14 (2012) 10, 923 - 927. (DOI: 10.1002/adem.201200113) AEM/PNI IF 1.185
56. Nebebe Mekonen, M.; Steglich, D.; Bohlen, J.; Letzig, D.; Mosler, J.: Mechanical Characterization and Constitutive Modeling of Mg Alloy Sheets. In: Materials Science and Engineering A. Vol. 540 (2012) 174 - 186. (DOI: 10.1016/j.msea.2012.01.122) IF 2.003
57. Schnubel, D.; Horstmann, M.; Ventzke, V.; Riekehr, S.; Staron, P.; Fischer, T.; Huber, N.: Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating - Experimental proof of concept. In: Materials Science and Engineering A. Vol. 546 (2012) 8 - 14. (DOI: 10.1016/j.msea.2012.02.094) AEM/PNI IF 2.003
58. Schnubel, D.; Huber, N.: Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating – Numerical prediction of fatigue crack growth. In: Computational Materials Science. Vol. 65 (2012) 461 - 469. (DOI: 10.1016/j.commatsci.2012.07.047) IF 1.574
59. Schnubel, D.; Huber, N.: The influence of crack face contact on the prediction of fatigue crack propagation in residual stress fields. In: Engineering Fracture Mechanics. Vol. 84 (2012) 15 - 24. (DOI: 10.1016/j.engfracmech.2011.12.008) IF 1.353
60. Steglich, D.; Jeong, Y.; Andar, M.O.; Kuwabara, T.: Biaxial Deformation Behaviour of AZ31 Magnesium Alloy: Crystal-Plasticity-Based Prediction and Experimental Validation. In: International Journal of Solids and Structures. Vol. 49 (2012) 25, 3551 - 3561. (DOI: 10.1016/j.ijsolstr.2012.06.017) IF 1.857
61. Suhuddin, U.; Mironow, S.; Krohn, H.; Beyer, M.; dos Santos, J.F.: Microstructural Evolution During Friction Surfacing of Dissimilar Aluminum Alloys. In: Metallurgical and Materials Transactions A. Vol. 43 (2012) 13, 5224 - 5231. (DOI: 10.1007/s11661-012-1345-8) IF 1.545
62. Vaidya, W.V.; Staron, P.; Horstmann, M.: Fatigue crack propagation into the residual stress field along and perpendicular to laser beam butt-weld in aluminium alloy AA6056. In: Fatigue and Fracture of Engineering Materials and Structures. Vol. 35 (2012) 5, 399 - 411. (DOI: 10.1111/j.1460-2695.2011.01631.x) AEM/PNI IF 0.847

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

63. Zerbst, U.; Madia, M.; Hellmann, D.: An analytical fracture mechanics model for estimation of S–N curves of metallic alloys containing large second phase particles. In: Engineering Fracture Mechanics. Vol. 82 (2012) 115 - 134. (DOI: 10.1016/j.engfracmech.2011.12.001) IF 1.353

Topic 3

64. Albina J.-M., C. Elsässer, J. Weissmüller, P. Gumbsch, Y. Umeno: Ab initio Investigation of Surface Stress Response to Charging of Transition and Noble Metals, Physical Review B 85 (2012) 125118 pp. 1-5. IF 3.691
65. Bachurin, D.V.; Nazarov, A.A.; Weissmueller, J.: Grain rotation by dislocation climb in a finite-size grain boundary. In: Acta Materialia . Vol. 60 (2012) 20, 7064 - 7077. (DOI: 10.1016/j.actamat.2012.09.014) IF 3.755
66. Bellosta von Colbe, J.M.; Metz, O.; Lozano, G.A.; Pranzas, K.P.; Schmitz, H.W.; Beckmann, F.; Schreyer, A.; Klassen, T.; Dornheim, M.: Behavior of scaled-up sodium alanate hydrogen storage tanks during sorption. In: International Journal of Hydrogen Energy. Vol. 37 (2012) 3, 2807 - 2811. (DOI: 10.1016/j.ijhydene.2011.03.153) AEM/PNI IF 4.054
67. Beyene, H.T.; Chakravadhanula, V.S.K. ; Hanisch, C.; Strunskus, T.; Zaporojtchenko, V.; Elbahri, M.; Faupel, F.: Vapor Phase Deposition, Structure, and Plasmonic Properties of Polymer-Based Composites Containing Ag–Cu Bimetallic Nanoparticles. In: Plasmonics. Vol. 7 (2012) 1, 107 - 114. (DOI: 10.1007/s11468-011-9282-8) IF 2.989
68. Biener, J.; Dasgupta, S.; Shao, L.; Wang, D.; Worsley, M.A.; Wittstock, A.; Lee, J.R.I.; Biener, M.M.; Orme, C.A.; Kucheyev, S.O.; Wood, B.C.; Willey T.M.; Hamza, A.V.; Weissmueller, J.; Hahn, H.; Baumann, T.F.: Macroscopic 3D Nanographene with Dynamically Tunable Bulk Properties. In: Advanced Materials. Vol. 24 (2012) 37, 5083 - 5087. (DOI: 10.1002/adma.201202289) IF 13.877
69. Chakkalakal Louis, G.; Alexandre, M.; Abetz, C.; Boschetti de Fierro, A.; Abetz, V.: Surface Initiated Controlled Radical Polymerisation From Silica Nanoparticles of High Initiator Density. In: Macromolecular Chemistry and Physics. Vol. 213 (2012) 5, 513 - 528. (DOI: 10.1002/macp.201100625) IF 2.361
70. Chakkalakal Louis, G.; Alexandre, M.; Boschetti de Fierro, A.; Abetz, V.: Effect of Silica-Coated Poly(butyl methacrylate)-block-poly(methyl methacrylate) Double-Shell Particles on the Mechanical Properties of PMMA Composites. In: Macromolecular Materials and Engineering. Vol. 297 (2012) 9, 887 - 893. (DOI: 10.1002/mame.201100365) IF 1.986
71. Dai, T.; Ebert, K.: Electrospinning of solvent-resistant nanofibers based on poly(acrylonitrile-co-glycidyl methacrylate). In: Journal of Applied Polymer Science. Vol. 126 (2012) 1, 136 - 142. (DOI: 10.1002/app.34748) IF 1.289
72. Du, B.; Handge, U.A.; Majeed, S.; Abetz, V.: Localization of functionalized MWCNT in SAN/PPE blends and their influence on rheological properties. In: Polymer. Vol. 53 (2012), 5491-5501. (DOI: 10.1016/j.polymer.2012.09.047) IF 3.438
73. Elbahri, M.; Homaeigohar, S.; Abdelaziz, R.; Dai, T.; Khalil, R.; Zillohu, A.U.: Smart Metal–Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration. In: Advanced Functional Materials. Vol. 22 (2012) 22, 4771 - 4777. (DOI: 10.1002/adfm.201200768) IF 10.179

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

74. Fierro, D.; Boschetti de Fierro, A.; Abetz, V.: The Solution-Diffusion with Imperfections Model as a Method to Understand Organic Solvent Nanofiltration of Multicomponent Systems. In: Journal of Membrane Science. Vol. 413-414 (2012) 91 - 101. (DOI: 10.1016/j.memsci.2012.04.027)
IF 3.850
75. Fritsch, D.; Merten, P.; Heinrich, K.; Lazar, M.; Priske, M.: High performance organic solvent nanofiltration membranes: Development and thorough testing of thin film composite membranes made of polymers of intrinsic microporosity (PIMs). In: Journal of Membrane Science. Vol. 401-402 (2012) 222 - 231. (DOI: 10.1016/j.memsci.2012.02.008)
IF 3.850
76. Gosalawit-Utke, R; Niesen, TK; Pranzas, K; Saldan, I; Pistidda, C; Karimi, F; Laipple, D; Skibsted, J; Jensen, TR; Klassen, T; Dornheim, M, 2LiBH(4)-MgH₂ in a Resorcinol-Furfural Carbon Aerogel Scaffold for Reversible Hydrogen Storage, JOURNAL OF PHYSICAL CHEMISTRY C, 1526-1534 (2012) 10.1021/jp2088127 AEM/PNI
IF 4.805
77. Haase, A.; Hesse, P.; Brommer, L.; Jacobs, O.; Abetz, C.; Handge, U.A.; Boschetti de Fierro, A.; Abetz, V.: Modification of Polycarbonate and Glycol Modified Poly(ethylene terephthalate) by Addition of Silica-Nanoparticles Grafted with SAN Copolymer Using "Classical" and ARGET ATRP. In: Macromolecular Materials and Engineering. (2012) (DOI: 10.1002/mame.201200041)
IF 1.986
78. Handge, U.A.; Altstaedt, V.: Viscoelastic properties of solutions of polystyrene melts and carbon dioxide: Analysis of a transient shear rheology approach . In: Journal of Rheology. Vol. 56 (2012) 4, 743. (DOI: 10.1122/1.4708601)
IF 2.978
79. Homaeigohar, S.; Koll, J.; Lilleodden, E.T.; Elbahri, M.: The solvent induced interfiber adhesion and its influence on the mechanical and filtration properties of polyethersulfone electrospun nanofibrous microfiltration membranes. In: Separation and Purification Technology. Vol. 98 (2012) 456 - 463. (DOI: 10.1016/j.seppur.2012.06.027)
IF 2.921
80. Homaeigohar, S.S.; Elbahri, M.: Novel compaction resistant and ductile nanocomposite nanofibrous microfiltration membranes. In: Journal of Colloid and Interface Science. Vol. 375 (2012) 1, 6 - 15. (DOI: 10.1016/j.jcis.2012.01.012)
IF 3.070
81. Homaeigohar, S.S.; Mahdavi, H.; Elbahri, M.: Extraordinarily water permeable sol-gel formed nanocomposite nanofibrous membranes. In: Journal of Colloid and Interface Science. Vol. 366 (2012) 1, 51 - 56. (DOI: 10.1016/j.jcis.2011.09.042)
IF 3.070
82. Hong, S.; Higuchi, T.; Sugimori, H.; Kaneko, T.; Abetz, V.; Takahara, A.; Jinnai, H.: Highly oriented and ordered double-helical morphology in ABC triblock terpolymer films up to micrometer thickness by solvent evaporation. In: Polymer Journal. Vol. 44 (2012) 567 - 572. (DOI: 10.1038/pj.2012.69)
IF 1.258
83. Jepsen, J.; Bellosta von Colbe, J.M.; Klassen, T.; Dornheim, M.: Economic potential of complex hydrides compared to conventional hydrogen storage systems. In: International Journal of Hydrogen Energy. Vol. 37 (2012) 5, 4204 - 4214. (DOI: 10.1016/j.ijhydene.2011.11.141) IF 4.054
84. Jung, A.; Rangou, S.; Abetz, C.; Filiz, V.; Abetz, V.: Structure Formation of Integral Asymmetric Composite Membranes of Polystyrene-block-Poly(2-vinylpyridine) on a Nonwoven. In: Macromolecular Materials and Engineering. Vol. 297 (2012) 8, 790 - 798. (DOI: 10.1002/mame.201100359)
IF 1.986
85. Khan, M.M.; Filiz, V.; Bengtson, G.; Shishatskiy, S.; Rahman, M.M.; Abetz, V.: Functionalized carbon nanotubes mixed matrix membranes of polymers of intrinsic microporosity for gas

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

- separation. In: *Nanoscale Research Letters* [Elektronische Ressource]. Vol. 7 (2012) 504. (DOI: 10.1186/1556-276X-7-504) IF 2.726
86. Kuntzy, O.; Saldan, I.; Bilan, O.; Okhremchuk, Y.; Hapke, J.; Kree, V.; Just, R.: Metal content and morphology of nanostructured Ag–Pd co-deposits. In: *Materials Letters*. Vol. 69 (2012) 79 - 81. (DOI: 10.1016/j.matlet.2011.11.101) IF 2.307
87. Lozano, G.A.; Na Ranong, C.; Bellosta von Colbe, J.M.; Bormann, R.; Hapke, J.; Fieg, G.; Klassen, T.; Dornheim, M.: Optimization of hydrogen storage tubular tanks based on light weight hydrides. In: *International Journal of Hydrogen Energy*. Vol. 37 (2012) 3, 2825 - 2834. (DOI: 10.1016/j.ijhydene.2011.03.043) IF 4.054
88. Majeed, S.; Fierro, D.; Buhr, K.; Wind, J.; Du, B.; Boschetti de Fierro, A.; Abetz, V.: Multi-walled carbon nanotubes (MWCNTs) mixed polyacrylonitrile (PAN) ultrafiltration membranes. In: *Journal of Membrane Science*. Vol. 403-404 (2012) 101 - 109. (DOI: 10.1016/j.memsci.2012.02.029) IF 3.850
89. Majeed, S.; Filiz, V.; Shishatskiy, S.; Wind, J.; Abetz, C.; Abetz, V.: Pyrene-POSS nanohybrid as a dispersant for carbon nanotubes in solvents of various polarities: its synthesis and application in the preparation of a composite membrane. In: *Nanoscale Research Letters* [Elektronische Ressource]. Vol. 7 (2012) 296. (DOI: 10.1186/1556-276X-7-296) IF 2.726
90. Matson, S.M.; Raetzke, K.; Shaikh, M.Q.; Litvinova, E.G.; Shishatskiy, S.M.; Peinemann, K.-V.; Khotimskiy, V.S.: Macrochain Configuration, Structure of Free Volume and Transport Properties of Poly(1-Trimethylsilyl-1-Propyne) and Poly(1-Trimethylgermyl-1-Propyne). In: *Polymer Science A*. Vol. 54 (2012) 8, 671 - 677. (DOI: 10.1134/S0965545X1207005X) IF 0.838
91. Michell, R.M.; Mueller, A.J.; Boschetti de Fierro, A.; Fierro, D.; Lison, V.; Raquez, J.-M.; Dubois, P.: Novel poly(ester-urethane)s based on polylactide: From reactive extrusion to crystallization and thermal properties. In: *Polymer*. Vol. 53 (2012) 25, 5657 - 5665. (DOI: 10.1016/j.polymer.2012.10.021) IF 3.438
92. Nwakwuo, C.C.; Eigen, N.; Dornheim, M.; Bormann, R.: Effect of group IV elements on the thermodynamic property of NaH + Al. In: *Renewable Energy*. Vol. 43 (2012) 172 - 178. (DOI: 10.1016/j.renene.2011.11.036) IF 2.978
93. Nwakwuo, CC; Pistidda, C; Dornheim, M; Hutchison, JL; Sykes, JM, Microstructural study of hydrogen desorption in 2NaBH(4) + MgH2 reactive hydride composite, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 0360-3199, (2012), 10.1016/j.ijhydene.2011.10.070 IF 4.054
94. Oss-Ronen, L.; Schmidt, J.; Abetz, V.; Radulescu, A.; Cohen, Y.; Talmon, Y.: Characterization of Block Copolymer Self-Assembly: From Solution to Nanoporous Membranes. In: *Macromolecules*. Vol. 45 (2012) 24, 9631 - 9642. (DOI: 10.1021/ma301611c) IF 5.167
95. Roman, PJ; Detlev, F; Thomas, K; Klaus-Viktor, P, Gas permeation measurement under defined humidity via constant volume/variable pressure method, JOURNAL OF MEMBRANE SCIENCE, 0376-7388, (2012), 10.1016/j.memsci.2011.10.046 IF 3.850
96. Saldan, I.; Campesi, R.; Zavorotynska, O.; Spoto, G.; Baricco, M.; Arendarska, A.; Taube, K.; Dornheim, M.: Enhanced hydrogen uptake/release in 2LiH–MgB₂ composite with titanium additives. In: *International Journal of Hydrogen Energy*. Vol. 37 (2012) 2, 1604 - 1612. (DOI: 10.1016/j.ijhydene.2011.10.047) IF 4.054

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

97. Saldan, I.; Gosalawit-Utke, R.; Pistidda, C.; Boesenberg, U.; Schulze, M.; Jensen, T.R.; Taube, K.; Dornheim, M.; Klassen, M.: Influence of Stoichiometry on the Hydrogen Sorption Behavior in the LiF–MgB₂ System. In: *The Journal of Physical Chemistry C*. Vol. 116 (2012) 12, 7010 - 7015. (DOI: 10.1021/jp212322u) IF 4.805
98. Saldan, I.; Ramallo-Lopez, J.M.; Requejo, F.G.; Suarez-Alcantara, K.; Bellosta von Colbe, J.; Avila, J.: NEXAFS study of 2LiF–MgB₂ composite. In: *International Journal of Hydrogen Energy*. Vol. 37 (2012) 13, 10236 - 10239. (DOI: 10.1016/j.ijhydene.2012.04.010) IF 4.805
99. Shao, L.-H.; Biener, J.; Jin, H.-J.; Biener, M.M.; Baumann, T.F.; Weissmueller, J.: Electrically Tunable Nanoporous Carbon Hybrid Actuators. In: *Advanced Functional Materials*. Vol. 22 (2012) 14, 3029 - 3034. (DOI: 10.1002/adfm.201200245) IF 4.054
100. Shao, L.H.; Ruther, M.; Linden, S.; Wegener, M.; Weissmueller, J.: On the mechanism of electrochemical modulation of plasmonic resonances. In: *Applied Physics Letters*. Vol. 101 (2012) 12, 1109. (DOI: 10.1063/1.4753805) IF 3.844
101. Steyskal, E.-M.; Besenhard, M.; Landgraf, S.; Zhong, Y.; Weissmueller, J.; Poelt, P.; Albu, M.; Wuerschum, R.: Sign-inversion of charging-induced variation of electrical resistance of nanoporous platinum. In: *Journal of Applied Physics*. Vol. 112 (2012) 7, 073703. (DOI: 10.1063/1.4755808) IF 2.168
102. Suarez Alcantara, K.; Ramallo Lopez, J.M.; Boesenberg, U.; Saldan, I.; Pistidda, C.; Requejo, F.G.; Jensen, T.; Cerenius, Y.; Soerby, M.; Avila, J.; Bellosta von Colbe, J.; Taube, K.; Klassen, T.; Dornheim, M.: 3CaH₂ + 4MgB₂ + CaF₂ Reactive Hydride Composite as a Potential Hydrogen Storage Material: Hydrogenation and Dehydrogenation Pathway. In: *The Journal of Physical Chemistry C*. Vol. 116 (2012) 12, 7207 - 7212. (DOI: 10.1021/jp211620h) IF 4.805
103. Sultanov, E.Y.; Ezhov, A.A.; Shishatskiy, S.M.; Buhr, K.; Khotimskiy, V.S.: Synthesis, Characterization, and Properties of Poly(1-trimethylsilyl-1-propyne)-block-poly(4-methyl-2-pentyne) Block Copolymers. In: *Macromolecules*. Vol. 45 (2012) 3, 1222 - 1229. (DOI: 10.1021/ma202140c) IF 5.167
104. Wang, L.C.; Zhong, Y.; Widmann, D.; Weissmueller, J.; Behm, R.J.: On the Role of Residual Ag in Nanoporous Au Catalysts for CO Oxidation: A Combined Microreactor and TAP Reactor Study. In: *ChemCatChem*. Vol. 4 (2012) 2, 251 - 259. (DOI: 10.1002/cctc.201100297) IF 5.207
105. Zamfir, M.; Patrickios, C.S.; Montagne, F.; Abetz, C.; Abetz, V.; Oss-Ronen, L.; Talmon, Y.: Styrene–vinyl pyridine diblock copolymers: Synthesis by RAFT polymerization and self-assembly in solution and in the bulk. In: *Journal of Polymer Science A*. Vol. 50 (2012) 8, 1636 - 1644. (DOI: 10.1002/pola.25935) IF 3.919
106. Zenkel, C.; Albuerne, J.; Boschetti de Fierro, A.; Emmler, T.; Helbig, J.; Abetz, V.: New Strategies for the Chemical Characterization of Multi-Walled Carbon Nanotubes and their Derivatives. In: *Microchimica Acta*. Vol. 179 (2012) 1-2, 41 - 48. (DOI: 10.1007/s00604-012-0848-8) IF 3.033
107. Zillohu, A.U.; Abdelaziz, R.; Keshavarz Hedayati, M.; Emmler, T.; Homaeigohar, S.; Elbahri, M.: Plasmon-Mediated Embedding of Nanoparticles in a Polymer Matrix: Nanocomposites Patterning, Writing, and Defect Healing. In: *The Journal of Physical Chemistry C*. Vol. 116 (2012) 32, 17204 - 17209. (DOI: 10.1021/jp3016358) IF 4.805

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

PNI

1. Angelov, Borislav; Angelova, Angelina; Garamus, Vasil M.; Drechsler, Markus; Willumeit, Regine; Mutafchieva, Rada; Stepanek, Petr; Lesieur, Sylviane, "Earliest Stage of the Tetrahedral Nanochannel Formation in Cubosome Particles from Unilamellar Nanovesicles", *Langmuir* 28 (2012), 16647-16655 IF 4.186
2. Angelova, Angelina; Angelov, Borislav; Garamus, Vasil M.; Couvreur, Patrick; Lesieur, Sylviane, "Small-Angle X-ray Scattering Investigations of Biomolecular Confinement, Loading, and Release from Liquid-Crystalline Nanochannel Assemblies", *JOURNAL OF PHYSICAL CHEMISTRY LETTERS* 3 (2012), 445-457 IF 6.213
3. Bechtle, Sabine; Oezcoban, Hueseyin; Lilleodden, Erica T.; Huber, Norbert; Schreyer, Andreas; Swain, Michael V.; Schneider, Gerold A., "Hierarchical flexural strength of enamel: transition from brittle to damage-tolerant behaviour", *JOURNAL OF THE ROYAL SOCIETY INTERFACE*, 9 (2012), 1265-1274, AEM/PNI IF 4.402
4. Bechtle, Sabine; Oezcoban, Hueseyin; Yilmaz, Ezgi D.; Fett, Theo; Rizzi, Gabriele; Lilleodden, Erica T.; Huber, Norbert; Schreyer, Andreas; Swain, Michael V.; Schneider, Gerold A., "A method to determine site-specific, anisotropic fracture toughness in biological materials", *SCRIPTA MATERIALIA*, 66 (2012), 515-518, 2012, AEM/PNI IF 2.699
5. Bellosta von Colbe, Jose M.; Metz, Oliver; Lozano, Gustavo A.; Pranzas, P. Klaus; Schmitz, Heinz W.; Beckmann, Felix; Schreyer, Andreas; Klassen, Thomas; Dornheim, Martin, "Behavior of scaled-up sodium alanate hydrogen storage tanks during sorption", *International Journal of Hydrogen Energy* 37 (2012), 2807-2811, AEM/PNI IF 4.054
6. Bergstroem, L. Magnus; Garamus, Vasil M., "Structural behaviour of mixed cationic surfactant micelles: A small-angle neutron scattering study", *JOURNAL OF COLLOID AND INTERFACE SCIENCE*, 381 (2012), 89-99 IF 3.070
7. Bergstrom, L. Magnus; Garamus, Vasil M., "Geometrical Shape of Micelles Formed by Cationic Dimeric Surfactants Determined with Small-Angle Neutron Scattering", *LANGMUIR*, 28 (2012), 9311-9321 IF 4.186
8. Blanke, A.; Wipfler, B.; Letsch, H.; Koch, M.; Beckmann, F.; Beutel, R.; Misof, B., "Revival of Palaeoptera. Head characters support a monophyletic origin of Odonata and Ephemeroptera (Insecta)", *Cladist.* 28 (2012), 21 Scopus
9. Bot, Arjen; Gilbert, Elliot P.; Bouwman, Wim G.; Sawalha, Hassan; den Adel, Ruud; Garamus, Vasil M.; Venema, Paul; van der Linden, Erik; Floeter, Eckhard, "Elucidation of density profile of self-assembled sitosterol plus oryzanol tubules with small-angle neutron scattering"; *FARADAY DISCUSSIONS*, 158 (2012), 223-238 IF 5.000
10. Cha, Limei; Schmoelzer, Thomas; Zhang, Zaoli; Mayer, Svea; Clemens, Helmut; Staron, Peter; Dehm, Gerhard, "In Situ Study of gamma-TiAl Lamellae Formation in Supersaturated alpha(2)-Ti3Al Grains", *ADVANCED ENGINEERING MATERIALS*, 14 (2012), 299-303 IF 1.185
11. Chang, H.; Zheng, M. Y.; Xu, C.; Fan, G. D.; Brokmeier, H. G.; Wu, K., "Microstructure and mechanical properties of the Mg/Al multilayer fabricated by accumulative roll bonding (ARB) at ambient temperature", *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 543 (2012), 249- 256 IF 2.003

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

12. Chekhonin, Paul; Beausir, Benoit; Scharnweber, Juliane; Oertel, Carl-Georg; Hausoel, Tina; Hoepfel, Heinz Werner; Brokmeier, Heinz-Guenter; Skrotzki, Werner, "Confined recrystallization of high-purity aluminium during accumulative roll bonding of aluminium laminates", ACTA MATERIALIA, 60 (2012), 4661-4671 IF 3.755
13. Chen, Kai; Froemter, Robert; Roessler, Stefan; Mikuszeit, Nikolai; Oepen, Hans Peter; "Uniaxial magnetic anisotropy of cobalt films deposited on sputtered MgO(001) substrates (vol 86, 064432, 2012)"; PHYSICAL REVIEW B, 86 (2012), 059906 IF 3.691
14. Chen, K.; Fiedler, S.; Baev, I.; Beeck, T.; Wurth, W.; Martins, M.; "Hybridization and magnetism in small FePT alloy clusters"; New Journal of Physics, 14 (2012), 123005 Scopus
15. Chulist, Robert; Skrotzki, Werner; Oertel, Carl-Georg; Boehm, Andrea; Brokmeier, Heinz-Guenter; Lippmann, Thomas, "Cyclic fibre texture in hot extruded Ni₅₀Mn₂₉Ga₂₁", INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, 103 (2012), 575-579 IF 0.830
16. Chulist, R.; Sozinov, A.; Straka, L.; Lanska, N.; Soroka, A.; Lippmann, T.; Oertel, C.-G.; Skrotzki, W., "Diffraction study of bending-induced polysynthetic twins in 10M modulated Ni-Mn-Ga martensite", Journal of Applied Physics 112 (2012), 063517/1-063517/7 IF 2.168
17. Chuvashova, I. G.; Vanetsev, A. S.; Gaitko, O. M.; Kopitsa, G. P.; Garamus, V. M.; Orlovskii, Yu. V.; Tret'yakov, Yu. D., "Effect of synthesis conditions of the micro- and mesostructure of monodisperse Y(OH)CO₃ powders", Doklady Chemistry 446 (2012), 207-211 IF 0.315
18. Craus, M.-L.; Anitas, E.; Corne, N.; Islamov, A.; Garamus, V., "Magnetic Structure of La_{0.54}Ho_{0.11}Sr_{0.35}Mn_{1-x}Cu_xO₃ Manganites", Diffusion and Defect Data--Solid State Data, Pt. B: Solid State Phenomena 190 (2012), 121-124 Scopus
19. Deng, K. K.; Wang, X. J.; Wu, Y. W.; Hu, X. S.; Wu, K.; Gan, W. M., "Effect of particle size on microstructure and mechanical properties of SiCp/AZ91 magnesium matrix composite", MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 543 (2012), 158-163 IF 2.003
20. Doebrich, Frank; Kohlbrecher, Joachim; Sharp, Melissa; Eckerlebe, Helmut; Birringer, Rainer; Michels, Andreas, "Neutron scattering study of the magnetic microstructure of nanocrystalline gadolinium", PHYSICAL REVIEW B, 85 (2012), 094411/1-094411/17 IF 3.691
21. Ene, Roxana; Krywka, Christina; Kang, Shin-Gyu; Papadopoulos, Periklis; Burghammer, Manfred; Di Cola, Emauela; Mueller, Martin; Kremer, Friedrich, "Structure changes in Nephila dragline: The influence of pressure", Polymer 53 (2012), 5507-5512 IF 3.438
22. Feyerabend, Frank; Druecker, Heiko; Laipple, Daniel; Vogt, Carla; Stekker, Michael; Hort, Norbert; Willumeit, Regine, "Ion release from magnesium materials in physiological solutions under different oxygen tensions", JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, 23 (2012), 9-24, PNI/AEM IF 2.316
23. Gaitzsch, Uwe; Chulist, Robert; Weisheit, Linda; Boehm, Andrea; Skrotzki, Werner; Oertel, Carl-Georg; Brokmeier, Heinz-Guenter; Lippmann, Thomas; Navarro, Inaki; Poetschke, Martin; Romberg, Jan; Huerrich, Claudia; Roth, Stefan; Schultz, Ludwig; "Processing Routes Toward Textured Polycrystals in Ferromagnetic Shape Memory Alloys"; Advanced Engineering Materials 14 (2012), 636-652 IF 1.185
24. Gan, W. M.; Randau, C.; Hofmann, M.; Brokmeier, H. G.; Mueller, M.; Schreyer, A., "Peak broadening and peak shift pole figures investigations by STRESS-SPEC diffractometer at FRM II", Journal of Physics Conference Series, 340 (2012), 0121007 Scopus

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

25. Gan, Weimin; Huang, Yuanding; Yang, Lei; Kainer, Karl Ulrich; Jiang, Miao; Brokmeier, Heinz-Guenter; Hort, Norbert, "Identification of unexpected hydrides in Mg-20 wt% Dy alloy by high-brilliance synchrotron radiation", JOURNAL OF APPLIED CRYSTALLOGRAPHY, 45 (2012), 17-21, PNI/AEM
IF 5.152
26. Gaudin, J.; Ozkan, C.; Chalupsky, J.; Bajt, S.; Burian, T.; Vysin, L.; Coppola, N.; Farahani, S.D.; Chapman, H.N.; Galasso, G.; Hajkova, V.; Harmand, M.; Juha, L.; Jurek, M.; Loch, R.A.; Moller, S.; Nagasono, M.; Stormer, M.; Sinn, H.; Saksl, K.; Sobierajski, R.; Schulz, J.; Sovak, P.; Toleikis, S.; Tiedtke, K.; Tschentscher, T.; Krzywinski, J.; "Investigating the interaction of x-ray free electron laser radiation with grating structure", OPTICS LETTERS 37 (2012), 3033-3035
IF 3.399
27. Gaudin, J.; Peyrusse, O.; Chalupsky, J.; Toufarova, M.; Vysin, L.; Hajkova, V.; Sobierajski, R.; Burian, T.; Dastjani-Farahani, Sh.; Graf, A.; Amati, M.; Gregoratti, L.; Hau-Riege, S. P.; Hoffmann, G.; Juha, L.; Krzywinski, J.; London, R. A.; Moeller, S.; Sinn, H.; Schorb, S.; Stoermer, M.; Tschentscher, Th.; Vorlicek, V.; Vu, H.; Bozek, J.; Bostedt, C., "Amorphous to crystalline phase transition in carbon induced by intense femtosecond x-ray free-electron laser pulses", PHYSICAL REVIEW B, 86 (2012), 024103/1-024103/7
IF 3.691
28. Gofman, Yana; Haliloglu, Turkan; Ben-Tal, Nir, "Monte Carlo simulations of peptide-membrane interactions with the MCPep web server", NUCLEIC ACIDS RESEARCH, 40 (2012), W358-W363
IF 8.026
29. Gosalawit-Utke, Rapee; Niesen, Thomas K.; Pranzas, Klaus; Saldan, Ivan; Pistidda, Claudio; Karimi, Fahim; Laipple, Daniel; Skibsted, Jorgen; Jensen, Torben R.; Klassen, Thomas; Dornheim, Martin, "2LiBH(4)-MgH2 in a Resorcinol-Furfural Carbon Aerogel Scaffold for Reversible Hydrogen Storage", JOURNAL OF PHYSICAL CHEMISTRY C, 116 (2012), 1526-1534, AEM/PNI
IF 4.805
30. Hadorn, Jason P.; Hantzsche, Kerstin; Yi, Sangbong; Bohlen, Jan; Letzig, Dietmar; Wollmershauser, James A.; Agnew, Sean R., "Role of Solute in the Texture Modification During Hot Deformation of Mg-Rare Earth Alloys", METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 43A (2012), 1347-1362, AEM/PNI
IF 1.545
31. Hammel, Joerg U.; Filatov, Maxim V.; Herzen, Julia; Beckmann, Felix; Kaandorp, Jaap A.; Nickel, Michael, "The non-hierarchical, non-uniformly branching topology of a leuconoid sponge aquiferous system revealed by 3D reconstruction and morphometrics using corrosion casting and X-ray microtomography", ACTA ZOOLOGICA, 93 (2012), 160-170
IF 1.133
32. Ivanisenko, Yu.; Skrotzki, W.; Chulist, R.; Lippmann, T.; Kurmanaeva, L., "Texture development in a nanocrystalline Pd-Au alloy studied by synchrotron radiation", SCRIPTA MATERIALIA, 66 (2012), 131-134
IF 2.699
33. Khan, S.; Wilde, F.; Beckmann, F.; Mosler, J., "Low cycle fatigue damage mechanism of the lightweight alloy Al2024", INTERNATIONAL JOURNAL OF FATIGUE, 38 (2012), 92-99, AEM/PNI
IF 1.546
34. Kleinteich, Thomas; Maddin, Hillary C.; Herzen, Julia; Beckmann, Felix; Summers, Adam P., "Is solid always best? Cranial performance in solid and fenestrated caecilian skulls", JOURNAL OF EXPERIMENTAL BIOLOGY, 215 (2012), 833-844
IF 2.996
35. Klemradt, U.; Rieger, T.; Herrmann, K.; Carmele, D.; Meyer, S.; Lippmann, T.; Stark, A.; Bleck, W., "Monitoring of Heat Treatment Processes by High Energy Synchrotron Radiation", ACTA PHYSICA POLONICA A, 121 (2012), 39, 43, 2012
IF 0.444

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

36. Kopitsa, G. P.; Baranchikov, A. E.; Ivanova, O. S.; Yapryntsev, A. D.; Grigoriev, S. V.; Pranzas, P. Klaus; Ivanov, V. K., "Effect of high intensity ultrasound on the mesostructure of hydrated zirconia", *Journal of Physics: Conference Series* 340 (2012), 012057/1-012057/11 Scopus
37. Kostov, V.; Gibmeier, J.; Wilde, F.; Staron, P.; Roessler, R.; Wanner, A., "Fast in situ phase and stress analysis during laser surface treatment: A synchrotron x-ray diffraction approach", *Review of Scientific Instruments* 83 (2012), 115101/1-115101/11 IF 1.367
38. Krywka, Christina; Neubauer, Henrike; Priebe, Marius; Salditt, Tim; Keckes, Jozef; Buffet, Adeline; Roth, Stephan Volkher; Doehrmann, Ralph; Mueller, Martin, "A two-dimensional waveguide beam for X-ray nanodiffraction", *JOURNAL OF APPLIED CRYSTALLOGRAPHY*, 45 (2012), 85-92 IF 5.152
39. Kuehl, Sebastian; Deyhle, Hans; Zimmerli, Melanie; Spagnoli, Giulio; Beckmann, Felix; Mueller, Bert; Filippi, Andreas, "Cracks in dentin and enamel after cryopreservation", *ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY*, 113 (2012), E5-E10 IF 1.457
40. Kuehnel, Susanne; Herzen, Julia; Kleinteich, Thomas; Beckmann, Felix; Kupfer, Alexander, "The female cloaca of an oviparous caecilian amphibian (Gymnophiona): functional and seasonal aspects", *ACTA ZOOLOGICA*, 93 (2012), 208-221 IF 1.133
41. Liu, Jie; Ventzke, Volker; Staron, Peter; Schell, Norbert; Kashaev, Nikolai; Huber, Norbert, "Investigation of In Situ and Conventional Post-Weld Heat Treatments on Dual-Laser-Beam-Welded γ -TiAl-Based Alloy", *Advanced Engineering Materials* (2012), 14(10), 923-927 AEM/PNI IF 1.185
42. Maawad, E.; Sano, Y.; Wagner, L.; Brokmeier, H. -G.; Genzel, Ch.; "Investigation of laser shock peening effects on residual stress state and fatigue performance of titanium alloys"; *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICRO-STRUCTURE AND PROCESSING*, 536 (2012), 82-91 IF 2.003
43. Merklinger, Elisa; Gofman, Yana; Kedrov, Alexej; Driessen, Arnold J. M.; Ben-Tal, Nir; Shai, Yechiel; Rapaport, Doron, "Membrane integration of a mitochondrial signal-anchored protein does not require additional proteinaceous factors", *BIOCHEMICAL JOURNAL*, 442 (2012), 381-389 IF 4.897
44. Michels, Andreas; Honecker, Dirk; Doebrich, Frank; Dewhurst, Charles D.; Suzuki, Kiyonori; Heinemann, Andre, "Observation of cross-shaped anisotropy in spin-resolved small-angle neutron scattering", *PHYSICAL REVIEW B*, 85 (2012), 184417 IF 3.691
45. Petrenko, V. I.; Avdeev, M. V.; Bulavin, L. A.; Vekas, L.; Rosta, L.; Garamus, V. M.; Willumeit, R.; Aksenov, V. L.; "Diagnostic and analysis of aggregation stability of magnetic fluids for biomedical applications by small-angle neutron scattering"; *Journal of Physics Conference Series*, 345 (2012), 012028 Scopus
46. Potapova, Nadya; Dyadkin, Vadim; Moskvina, Evgeniy; Eckerlebe, Helmut; Menzel, Dirk; Grigoriev, Sergey; "Magnetic ordering in bulk MnSi crystals with chemically induced negative pressure"; *PHYSICAL REVIEW B*; 86 (2012); 060406/1-060406/4 IF 3.691
47. Rangelov, Stanislav; Simon, Peter; Toncheva-Moncheva, Natalia; Dimitrov, Philip; Gajewska, Barbara; Tsvetanov, Christo B., "Nanosized colloidal particles from thermosensitive poly(methoxydiethyleneglycol methacrylate)s in aqueous media", *POLYMER BULLETIN*, 68 (2012), 2175-2185 IF 1.532

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

48. Saerbeck, T.; Loh, N.; Lott, D.; Toperverg, B. P.; Mulders, A. M.; Ali, M.; Hickey, B. J.; Stampfl, A. P. J.; Klose, F.; Stamps, R. L., "Specular and off-specular polarized neutron reflectometry of canted magnetic domains in loose spin coupled CuMn/Co multilayers", *PHYSICAL REVIEW B*, 85 (2012), 014411/1-014411/9 IF 3.691
49. Samoylenko, S. A.; S. E. Kichanov, D. P. Kozlenko, A. V. Belushkin, V. M. Haramus, E. A. Trusova, G. P. Shevchenko, V. S. Gurin, L. A. Bulavin, S. K. Rakhmanov, B. N. Savenko, "The studies of nanoparticles formed in silicate glasses doped by cerium and titanium oxides by means of small angle neutron scattering", *Journal of Physics: Conference Series*, 351 (2012), 12017, Proceedings Paper Scopus / IF 0
50. Schleede, Simone; Meinel, Felix G.; Bech, Martin; Herzen, Julia; Achterhold, Klaus; Potdevin, Guillaume; Malecki, Andreas; Adam-Neumair, Silvia; Thieme, Sven F.; Bamberg, Fabian; Nikolaou, Konstantin; Bohla, Alexander; Yildirim, Ali Oe.; Loewen, Roderick; Gifford, Martin; Ruth, Ronald; Eickelberg, Oliver; Reiser, Maximilian; Pfeiffer, Franz, "Emphysema diagnosis using X-ray dark-field imaging at a laser-driven compact synchrotron light source", *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 109 (2012), 17880-17885 IF 9.681
51. Schloffer, Martin; Iqbal, Farasat; Gabrisch, Heike; Schwaighofer, Emanuel; Schimansky, Frank-Peter; Mayer, Svea; Stark, Andreas; Lippmann, Thomas; Goeken, Mathias; Pyczak, Florian; Clemens, Helmut, "Microstructure development and hardness of a powder metallurgical multi phase gamma-TiAl based alloy", *INTERMETALLICS*, 22 (2012), 231-240, AEM/PNI IF 1.649
52. Schmidt, H.; Chakravarty, S.; Jiang, M.; Hueger, E.; Parida, P. K.; Geue, T.; Stahn, J.; Tietze, U.; Lott, D., "Grain boundary self-diffusion in Fe films with a stable nanostructure", *JOURNAL OF MATERIALS SCIENCE*, 47 (2012), 4087-4092 IF 2.015
53. Schmoelzer, Thomas; Stark, Andreas; Schwaighofer, Emanuel; Lippmann, Thomas; Mayer, Svea; Clemens, Helmut, "In Situ Synchrotron Study of B19 Phase Formation in an Intermetallic gamma-TiAl Alloy", *ADVANCED ENGINEERING MATERIALS*, 14 (2012), 445-448, AEM/PNI IF 1.185
54. Schnubel, D.; Horstmann, M.; Ventzke, V.; Riekehr, S.; Staron, P.; Fischer, T.; Huber, N., "Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating - Experimental proof of concept", *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 546 (2012), 8-14, AEM/PNI IF 2.003
55. Sharifi, P.; Eckerlebe, H.; Marlow, F., "SANS analysis of opal structures made by the capillary deposition method", *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 14 (2012), 10324-10331 IF 3.573
56. Srinivasan, Amirthalingam, Wang, Zhi, Huang, Yuanding, Beckmann, Felix, Kainer, Karl Ulrich, Hort, Norbert, "Hot Tearing Susceptibility of Magnesium-Gadolinium Binary Alloys", *TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS*, 65 (2012), SI, 701-706, PNI/AEM IF 0.205
57. Stanglmaier, S.; Hertrich, S.; Fritz, K.; Moulin, J. -F.; Haese-Seiller, M.; Raedler, J. O.; Nickel, B., "Asymmetric Distribution of Anionic Phospholipids in Supported Lipid Bilayers", *LANGMUIR*, 28 (2012), 10818-10821 IF 4.186
58. Staron, Peter, "Absorption correction of peak positions for neutron strain measurements", *JOURNAL OF PHYSICS CONFERENCE SERIES*, 340 (2012), 012104 ISI Proc. gel.

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

59. Stepanek, Miroslav; Skvarla, Juraj; Uchman, Mariusz; Prochazka, Karel; Angelov, Borislav; Kovacik, Lubomir; Garamus, Vasil M.; Mantzaridis, Christos; Pispas, Stergios; "Wormlike core-shell nanoparticles formed by co-assembly of double hydrophilic block polyelectrolyte with oppositely charged fluorosurfactant", *SOFT MATTER* 8 (2012), 9412-9417 IF 4.390
60. Taton, Grzegorz; Rokita, Eugeniusz; Rok, Tomasz; Beckmann, Felix, "Oversampling in the computed tomography measurements applied for bone structure studies as a method of spatial resolution improvement", *Polish journal of radiology / Polish Medical Society of Radiology*, 77 (2012), 14 Scopus
61. Thomsen, M.; Poulsen, M.; Bech, M.; Velroyen, A.; Herzen, J.; Beckmann, F.; Feidenhans'l, R.; Pfeiffer, F., "Visualization of subcutaneous insulin injections by x-ray computed tomography", *PHYSICS IN MEDICINE AND BIOLOGY*, 57 (2012), 7191-7203 IF 2.829
62. Tolnai, D.; Requena, G.; Cloetens, P.; Lendvai, J.; Degischer, H. P., "Sub-micrometre holotomographic characterisation of the effects of solution heat treatment on an AlMg7.3Si3.5 alloy", *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 550 (2012), 214-221 IF 2.003
63. Tomchuk, O. V.; Avdeev, M. V.; Aksenov, V. L.; Garamus, V. M.; Bulavin, L. A.; Ivashevskaya, S. N.; Rozhkova, N. N.; Schreiber, N.; Schreiber, J., "Comparative structural characterization of the water dispersions of detonation nanodiamonds by small-angle neutron scattering", *Journal of Surface Investigation: X-Ray, Synchrotron and Neutron Techniques* 6 (2012), 821-824 IF 0.343
64. Turkevych, I.; V. Ryukhtin, V. Garamus, S. Kato, T. Takamasu, G. Kido, M. Kondo, "Studies of self-organization processes innanoporous alumina membranes by small-angle neutron scattering", *Nanotechnology*, 23 (2012), 325606/1-325606/6 IF 3.979
65. Ukleev, V. A.; Grigoryeva, N. A.; Dyadkina, E. A.; Vorobiev, A. A.; Lott, D.; Lutsev, L. V.; Stognij, A. I.; Novitskiy, N. N.; Mistonov, A. A.; Menzel, D.; Grigoriev, S. V., Magnetic properties of the SiO₂(Co)/GaAs interface: polarized neutron reflectometry and SQUID magnetometry, *Physical Review B* 86 (2012), 134424/1-134424/6 IF 3.691
66. Vaidya, W. V.; Staron, P.; Horstmann, M., "Fatigue crack propagation into the residual stress field along and perpendicular to laser beam butt-weld in aluminium alloy AA6056", *FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES*, 35 (2012), 399-411, AEM/PNI IF 0.847
67. Yang, L.; Hort, N.; Willumeit, R.; Feyerabend, F., "Effects of corrosion environment and proteins on magnesium corrosion", *CORROSION ENGINEERING, SCIENCE AND TECHNOLOGY*, 47 (2012), 335-339, AEM/PNI IF 0.658
68. Yang, Lei; Huang, Yuanding; Feyerabend, Frank; Willumeit, Regine; Kainer, Karl Ulrich; Hort, Norbert, "Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg-Dy alloys", *Journal of the Mechanical Behavior of Biomedical Materials* 13 (2012), 36-44, AEM/PNI IF 2.814
69. Yoon, Jin Yu Simon; Deyhle, Hans; Gbureck, Uwe; Vorndran, Elke; Beckmann, Felix; Mueller, Bert; "Three-dimensional morphology and mechanics of bone scaffolds fabricated by rapid prototyping"; *INTERNATIONAL JOURNAL OF MATERIALS RESEARCH* ; 103 (2012), 200-206; IF 0.830
70. Ziegler, Alexander; Schroeder, Leif; Ogurreck, Malte; Faber, Cornelius; Stach, Thomas, "Evolution of a Novel Muscle Design in Sea Urchins (Echinodermata: Echinoidea)", *PLOS ONE*, 7, (2012), e37520 IF 4.092

HZG-Publikationsliste 2012 ISI-gelistete und veröffentlichte Publikationen

Regenerative Medizin

1. Balk M., M. Behl, U. Nöchel, A. Lendlein, Shape-Memory Hydrogels with Switching Segments Based on Oligo(ϵ -pentadecalactone), *Macromol Mater Eng* 297 (12), 1184-1192 (2012)
IF 1.986
2. Bartolo L. de, A. Lendlein, D. Hofmann, A. Bader, A. de Grey, E. Curcio, E. Drioli, Bio-Hybrid Organs and Tissues for Patient Therapy: a Future Vision for 2030, *Chem. Eng. Process* 51, 79-87(2012)
IF 1.924
3. Bieback K., P. Wuchter, D. Besser, W. Franke, M. Becker, M. Ott, M. Pacher, N. Ma, C. Stamm, H. Klüter, A. Müller, A. D. Ho, Mesenchymal stromal cells (MSCs): science and friction, *J. Mol. Med.* 90 (7), 773-782 (2012)
IF 4.668
4. Braune S., G. Alagöz, B. Seifert, A. Lendlein, F. Jung, Automated image-based analysis of adherent thrombocytes on polymer surfaces, *Clin Hemorheol Microcirc.* 52, 349-355 (2012)
IF 3.398
5. Conceição T. F. da, N. Scharnagl, W. Diezel, K. U. Kainer, Controlled degradation of a magnesium alloy in simulated body fluid using hydrofluoric acid treatment followed by polyacrylonitrile coating, *Corrosion Science* 62, 83-89 (2012)
IF 3.734
6. Ekinci D., A.L. Sisson, A. Lendlein, Polyglycerol-based polymer network films for potential biomedical applications, *J. Mater Chem* 22, 21100-21109 (2012)
IF 5.968
7. Franke R.-P., R. Fuhrmann, C. Mrowietz, B. Hiebl, F. Jung, Do radiographic contrast media (Iodixanol or Iomeprol) induce a perturbation of human arterial and/or venous endothelial cells in vitro on extracellular matrix? *Clin Hemorheol Microcirc.* 50, 49-54 (2012)
IF 3.398
8. Frieß F., C. Wischke, M. Behl, A. Lendlein, Oligo(ϵ -caprolactone)-based polymer networks prepared by photocrosslinking in solution *J Appl Biomater Funct Mater* 10 (3), 273-279 (2012)
IF 0.760
9. Furlani D., P. Donndorf, I. Westien, M. Ugurlucan, E. Pittermann, W. Wang, W. Li, B. Vollmar, G. Steinhoff, A. Kaminski, N. Ma, HMGB-1 induces c-kit(+) cell microvascular rolling and adhesion via both toll-like receptor-2 and toll-like receptor-4 of endothelial cells, *J Cell Mol Med.* 16(5):1094-105 (2012).
IF 4.668
10. Gao W., Y. Feng, J. Lu, M. Khan, J. Guo, Biomimetic Surface Modification of Polycarbonateurethane Film via Phosphorylcholine-Graft for Resisting Platelet Adhesion, *Macromol Res* 20(10), 1063-1069 (2012)
IF 1.153
11. Ghobadi E., M. Heuchel, K. Kratz, A. Lendlein, Simulation of volumetric swelling of degradable poly[(rac-lactide)-co-glycolide]based polyesterurethanes containing different urethane-linkers *J Appl Biomater Funct Mater* 10 (3), 293-301 (2012)
IF 0.760
12. Ghobadi E., M. Heuchel, K. Kratz, A. Lendlein Influence of different heating regimes on the shape-recovery behavior of poly(L-lactide) in simulated thermomechanical tests *J Appl Biomater Funct Mater* 10 (3), 259-264 (2012)
IF 0.760
13. Gori T., A. Damaske, S. Muxel, M.-C. Radmacher, F. Fasola, S. Schaefer, M. Fineschi, S. Forconi, F. Jung, T. Münzel, J.D. Parker, Endothelial function and hemorheological parameters modulate coronary blood flow in patients without significant coronary artery disease, *Clin Hemorheol Microcirc.* 52, 255-266 (2012)
IF 3.398

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

14. Hiebl B., C. Müller, J. Görs, F. Jung, A. Lendlein, M. Jünger, B. Hamm, S. M. Niehues, A NiTi alloy-based cuff for external banding valvuloplasty: a six-week follow-up study in pigs. *Phlebology* 27, 337-346 (2012) [E-pub ahead of print on Dec 15 (2011)] DOI: 10.1258/phleb.2011.011035
IF 0.879
15. Hiebl B., J. Cui, K. Kratz, O. Frank, M. Schossig, K. Richau, S. Lee, F. Jung, A. Lendlein, Viability, Morphology and Function of Primary Endothelial Cells on Poly(n-Butyl Acrylate) Networks Having Elastic Moduli Comparable to Arteries, *J Biomat Sci-Polym E* 23 (7), 901-915 (2012)
IF 1.691
16. Hirano K., K. Wagner, P. Mark, E. Pittermann, R. Gäbel, D. Furlani, W. Li, B. Vollmar, T. Yamada, G. Steinhoff, N. Ma, Erythropoietin attenuates the sequels of ischaemic spinal cord injury with enhanced recruitment of CD34+ cells in mice, *J Cell Mol Med* 16 (8), 1792-1802 (2012) [E-pub ahead of print on Dec 7, 2011]
IF 4.668
17. Hoehlig K., P. Shen, V. Lampropoulou, T. Roch, B. Malissen, R. O'Connor, s. Ries, E. Hilgenberg, S. M. Anderton, S. Fillatreau, Activation of CD4⁺Foxp3⁺ regulatory T cells proceeds normally in the absence of B cells during EAE, *Eur. J. Immunol.* 42, 1164-1173 (2012) IF 5.103
18. Iqbal D., C. Melchert, M. Behl, A. Lendlein, S. Beuermann, Modeling of Free Radical Polymerization of Azobenzene-based Linear Polymers, *Mater. Res. Soc. Symp. Proc.* 1403, 131-136, mrsf11-1403-v17-51 (2012), DOI: 10.1557/opl.2012.423
ISI Proc. gel.
19. Julich-Gruner K., A. T. Neffe, A. Lendlein, Synthesis and characterization of oligo(ethylene glycol)s functionalized with desaminotyrosine or desaminotyrosyltyrosine *J Appl Biomater Funct Mater* 10 (3), 170-176 (2012)
IF 0.760
20. Jung F., C. Schulz, F. Blaschke, D. Müller, C. Mrowietz, R.P. Franke, A. Lendlein, W.-H. Schunck, Effect of cytochrome P450-dependent epoxyeicosanoids on Ristocetin-induced thrombocyte aggregation, *Clin Hemorheol Microcirc.* 52, 403-416 (2012)
IF 3.398
21. Jung F., J. Goers, T. Roch, A. Zaupa, B.F. Pierce, A.T. Neffe, A. Lendlein, Physically crosslinked gelatins functionalized with tyrosine moieties do not induce angiogenesis or thrombus formation in the developing vasculature in the avian chorioallantoic membrane, *Clin Hemorheol Microcirc.* 50, 55-63 (2012)
IF 3.398
22. Kaiser C., M. Behl, M. Schroeter, K. Kratz, A. Lendlein, Dicarboxy-telechelic Cooligomers with Sequence Structure Tunable Light Absorption, *React. Funct. Polym.*, 72, 533- 541 (2012)
IF 2.479
23. Karimi M., M. Heuchel, Th. Weigel, M. Schossig, D. Hofmann, A. Lendlein, Formation and size distribution of pores in poly(ϵ -caprolactone) foams prepared by pressure quenching using supercritical CO₂, *J Supercrit Fluids* 61, 175-190 (2012)
IF 2.860
24. Kratz K., U. Voigt, A. Lendlein, Temperature-Memory Effect of Copolyesterurethanes and their Application Potential in Minimally Invasive Medical Technologies, *Adv Funct Mater* 22(14), 3057-3065 (2012)
IF 10.179
25. Kratz K., U. Narendra Kumar, U. Nöchel, A. Lendlein, Thermal Properties and Crystallinity of Grafted Copolymer Networks containing a Crystallizable Poly(ϵ -caprolactone) Crosslinker in an aqueous environment, *Mater. Res. Soc. Symp. Proc.* 1403, 73-78, mrsf11-1403-v02-06 (2012), DOI: 10.1557/opl.2012.454
ISI Proc. gel.

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

26. Krüger A., S. Braune, K. Kratz, A. Lendlein, F. Jung, The influence of poly(n-butyl acrylate) networks on viability and function of smooth muscle cells and vascular fibroblasts, *Clin Hemorheol Microcirc.* 52, 283-294 (2012) IF 3.398
27. Lange M., S. Braune, K. Luetzow, K. Richau, N. Scharnagl, M. Weinhart, A.T. Neffe, F. Jung, R. Haag, A. Lendlein, Surface Functionalization of Poly(ether imide) Membranes with Linear, Methylated Oligoglycerols for Reducing Thrombogenicity, *Macromol Rapid Comm* 33, 1487-1492 (2012) IF 4.596
28. Leithäuser B., C. Mrowietz, J.-W. Park, F. Jung, Influence of acetylsalicylic acid (Aspirin) on cutaneous microcirculation, *Clin Hemorheol Microcirc.* 50, 25-34 (2012) IF 3.398
29. Lendlein A., B.F. Pierce, L. Ambrosio, D. Grijpma, Advanced functional polymers for medicine: Multifunctional biomaterials, *Acta Biomater* 8, 4199 (2012) IF 4.865
30. Li W., B. F. Piere, N. Scharnagl, C. Wischke, A. L. Sisson, A. Lendlein, Influence of co-monomer ratio on the chemical properties and cytotoxicity of poly[acrylonitrile-co-(N-vinylpyrrolidone)] nanoparticles, *J Appl Biomater Funct Mater* 10 (3), 308-314 (2012) IF 0.760
31. Liu X., X. Xu, X. Lin, Y. Tian, B. Ji, S. Xia, S. Xu, Q. Yin, M. Zhang, Z. Jiao, S. Wang, H. Xu, Q. Shao, PTD-hFOXP3 Protein Acts as an Immune Regulator to Convert Human CD4+CD25- T Cells to Regulatory T-Like Cells, *J. Cell Biochem* 113, 3797-3809 (2012) IF 2.838
32. Lu J., Y. Feng, B. Gao, J. Guo, Grafting of a novel phosphorylcholine-containing vinyl monomer onto poly-carbonateurethane surfaces by ultraviolet radiation grafting polymerization, *Macromol Res* 20 (7), 693-702 (2012) IF 1.153
33. Lu J., Y. Feng, B. Gao, J. Guo, Preparation and characterization of phosphorylcholine glycerinaldehyde grafted polycarbonateurethane films, *J Polym Res* 19, 9959-996 (2012) IF 1.733
34. Madbouly S., A. Lendlein, Degradable Polyurethane/Soy Protein Shape-Memory Polymer Blends Prepared Via Environmentally-Friendly Aqueous Dispersions, *Macromol Mater Eng* 297 (12), 1213-1224 (2012) IF 1.986
35. Mathew S., T. Roch, M. Frentsch, C. Wischke, A. Lendlein, Adjuvant effect of microencapsulated NOD ligands studied in a human phagocytic cell line *J Appl Biomater Funct Mater* 10 (3), 229-236 (2012) IF 0.760
36. Matschke K., M. Knaut, R. Kanig, C. Mrowietz, B. Hiebl, F. Jung, Influence of systemic hypothermia on the myocardial oxygen tension during extracorporeal circulation: Comparative study in german landrace pigs , *Clin Hemorheol Microcirc.*52, 115-122 (2012) IF 3.398
37. Matsumoto H., T. Ishiguro, Y. Konosu, M. Minagawa, A. Tanioka, K. Richau, K.I Kratz, A. Lendlein, Shape-Memory Properties of Electrospun Non-Woven Fabrics Prepared from Degradable Polyesterurethanes Containing Poly(ϵ -pentadecalactone) Hard Segments, *Eur Polym J.* 48, 1866-1874 (2012) IF 2.739
38. Mayer A., K. Kratz, B. Hiebl, A. Lendlein, F. Jung, Interaction of angiogenically stimulated intermediate CD163+ monocytes/macrophages with soft hydrophobic poly(n-butyl acrylate) networks with elastic moduli matched to that of human arteries, *Artif Organs* 36 (3), E28-E38 (2012) IF 2.000
39. Mayer A., T. Roch, K. Kratz, A. Lendlein, F. Jung, Pro-angiogenic CD14++ CD16+ CD163+ monocytes accelerate the in vitro endothelialisation of soft hydrophobic poly(n-butyl acrylate) networks, *Acta Biomaterialia* 8, 4253-4259 (2012) IF 4.865

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

40. Melchert C., M. Behl, A. Lendlein, Phase Transition Behavior of Main Chain Nematic Liquid-Crystalline Polymers Based on 2-methyl-1,4-bis[4-(4-pentenyl-oxy)benzoyl]hydroquinone and 2-*tert*-butyl-1,4-bis[4-(4-pentenyl-oxy)benzoyl]hydroquinone, *Mater. Res. Soc. Symp. Proc.* 2012, 1403, 119-124, mrsf11-1403-v08-03 (2012), DOI: 10.1557/opl.2012.369 ISI Proc. gel.
41. Melchert C., N. Yongvongsoontorn, M. Behl, A. Lendlein, Synthesis and Characterization of Telechelic Oligoethers with terminal Cinnamylidene Acetic Acid Moieties, *J Appl Biomater Funct Mater* 10 (3), 185-190 (2012) IF 0.760
42. Melchert C., U. Nöchel, M. Behl, A. Lendlein, Influence of 2-methyl-1,4-bis[4-(4-pentenyl-oxy)benzoyl]-hydroquinone and 2,6-bis[4-(4-pentenyl-oxy)-benzoyl]anthracene as Comonomers on the Thermal and Actuation Properties of Nematic Main-Chain Liquid Crystalline Elastomers based on 2-*tert*-butyl-1,4-bis[4-(4-pentenyl-oxy)benzoyl]-hydroquinone, *Macromol Mater Eng* 297 (12), 1203-1212 (2012) IF 1.986
43. Mrowietz C., R.-P. Franke, F. Jung, Influence of different radiographic contrast media on the echinocyte formation of human erythrocytes, *Clin Hemorheol Microcirc.* 50, 35-48 (2012) IF 3.398
44. Narendra Kumar U., K. Kratz, M. Behl, A. Lendlein, Shape-memory properties of magnetically active triple-shape nanocomposites based on a grafted polymer network with two crystallizable switching segments, *Express Polym Lett* 6 (1), 26-40 (2012) IF 1,769
45. Neffe A.T., B.F. Pierce, J. Blaszkiewicz, A. Lendlein, Quantifying Protein Adsorption to Physically Crosslinked Gelatin-Based Networks, *Mater. Res. Soc. Symp. Proc.* 1403, 145-150, mrsf11-1403-v05-04 (2012), DOI: 10.1557/opl.2012.476 ISI Proc. gel.
46. Pierce B. F., E. Pittermann, N. Ma, T. Gebauer, A. T. Neffe, M. Hölscher, F. Jung, A. Lendlein, Viability of Human Mesenchymal Stem Cells Seeded on Crosslinked Entropy-Elastic Gelatin-Based Hydrogels, *Macromol Biosci* 12, 312-321 (2012) IF 3.886
47. Pierce B. F., G. Tronci, M. Rößle, A.T. Neffe, F. Jung, A. Lendlein, Photocrosslinked Co-Networks from Glycidylmethacrylated Gelatin and Poly(ethylene glycol) Methacrylates *Macromol Biosci* 12, 484-493 (2012) IF 3.886
48. Pierce B.F., A.T. Neffe, A. Lendlein, Using Mass Spectrometry to Investigate the Structural Features of Photocrosslinked Co-Networks based on Gelatin and Poly(ethylene glycol) Methacrylates, *Mater. Res. Soc. Symp. Proc.* 1403, 159-164, mrsf11-1403-v03-07-kk02-07 (2012), DOI:10.1557/opl.2012.221 – CORRIGENDUM: doi: 10.1557/opl.2012.438 ISI Proc. gel.
49. Razzaq M. Y., M. Behl and A. Lendlein, Shape-Memory Properties of Nanocomposites based on Poly(ω -pentadecalactone) and Magnetic Nanoparticles, *Mater. Res. Soc. Symp. Proc.* 1403, 3-8, mrsf11-1403-v11-04 (2012), DOI:10.1557/opl.2012.222 ISI Proc. gel.
50. Razzaq M. Y., M. Behl, A. Lendlein, Magnetic Memory Effect of Nanocomposites, *Adv. Funct Mater* 22, 184-191 (2012) IF 10.179
51. Razzaq M. Y., M. Behl, A. Lendlein, Memory-Effects of Magnetic Nanocomposites, *Nanoscale*, 4 (20), 6181 - 6195 (2012) IF 5.914
52. Razzaq M. Y., M. Behl, U. Frank, J. Koetz, W. Szczerba, A. Lendlein, Oligo(ω -pentadecalactone) Decorated Magnetic Nanoparticles, *J. Mater.Chem.* 22 (18), 9237 - 9243 (2012) IF 5.968
53. Roch T., A. Krüger, K. Kratz, N. Ma, F. Jung, A. Lendlein, Immunological evaluation of polystyrene and poly(ether imide) cell culture inserts with different roughness, *Clin Hemorheol Microcirc.* 52, 375-389 (2012) IF 3.398

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

54. Roch T., J. Cui, K. Kratz, A. Lendlein, F. Jung, Immuno-compatibility of soft hydrophobic poly(n-butyl acrylate) networks with elastic moduli for regeneration of functional tissues, *Clin Hemorheol Microcirc.* 50, 131-142 (2012) IF 3.398
55. Rüder C., T. Sauter, K. Kratz, J. Peter, F. Jung, A. Lendlein, D. Zohlnhöfer, Smooth muscle and endothelial cell behaviour on degradable copolyetheresterurethane films, *Clin Hemorheol Microcirc.* 52, 313-323 (2012) IF 3.398
56. Rüder C., T. Sauter, T. Becker, K. Kratz, B. Hiebl, F. Jung, A. Lendlein, D. Zohlnhöfer, Viability, proliferation and adhesion of smooth muscle cells and human umbilical vein endothelial cells on electrospun polymeric scaffolds, *Clin Hemorheol Microcirc.* 50, 101-112 (2012) IF 3.398
57. Ruesten-Lange M. v., K. Luetzow, A. T. Neffe, A. Lendlein, Characterization of Oligo(ethylene glycol) and Oligoglycerol functionalized Poly(ether imide) by Angle-dependent X-ray Photoelectron Spectroscopy *J Appl Biomater Funct Mater* 10 (3), 215-222 (2012) IF 0.760
58. Santan H. D., A. T. Neffe, S. Kamlage, A. Lendlein, Thermal Gelation and Stability of Pectin Grafted with PEPE, *Mater. Res. Soc. Symp. Proc.* 1403, 151-158, mrsf11-1403-v17-05 (2012), DOI: 10.1557/opl.2012.703 ISI Proc. gel.
59. Sauter T., K. Lützwow, M. Schossig, H. Kosmella, T. Weigel, K. Kratz, A. Lendlein, Shape-Memory Properties of Polyetherurethane Foams Prepared by Thermally Induced Phase Separation, *Adv. Eng Mater* 14 (9), 818-824 (2012) IF 1.185
60. Sauter T., K. Kratz, A. Lendlein, Shape-Memory Properties of Electrospun Non-wovens Prepared from Amorphous Polyetherurethanes Under Stress-free and Constant Strain Conditions, *Mater. Res. Soc. Symp. Proc.* 1403, 105-112, mrsf11-1403-v13-07 (2012), DOI:10.1557/opl.2012.251 ISI Proc. gel.
61. Scharnagl N., B. Hiebl, K. Trescher, M. Zierke, M. Behl, K. Kratz, F. Jung, A. Lendlein, Behaviour of fibroblasts on water born acrylonitrile-based copolymers containing different cationic and anionic moieties, *Clin Hemorheol Microcirc.* 52, 295-311(2012) IF 3.398
62. Schneider T., B. Kohl, T. Sauter, K. Kratz, A. Lendlein, W. Ertel, G. Schulze-Tanzil, Influence of fiber orientation in electrospun polymer scaffolds on viability, adhesion and differentiation of articular chondrocytes, *Clin Hemorheol Microcirc.* 52, 325-336 (2012) IF 3.398
63. Schroeter M., M. Behl, C. Weder, A. Lendlein, Synthesis and Characterization of Poly(p-phenylene ethynylene)s with nitroxyl radical endgroups, *Mater. Res. Soc. Symp. Proc.* 1403, 223-228, mrsf11-1403-v18-03 (2012), DOI: 10.1557/ opl. 2012.424 ISI Proc. gel.
64. Schulz C., M. Lange, A. Krüger, A. Lendlein, F. Jung, Viability and function of primary human endothelial cells on smooth poly(ether imide) films, *Clin Hemorheol Microcirc.* 52, 267-282 (2012) IF 3.398
65. Sisson A. L., A. Lendlein, Advances in actively moving polymers, *Macromol Mater Eng* 297 (12), 1135-1137, (2012) IF 1.986
66. Su Y., Q. Zhao, J. Sun, J. Wu, Synthesis and Characterizations of Biodegradable Macroporous Cryogels crosslinked by Chitosan Oligosaccharide-graft-Acrylic Acid, *Soft Matter*, 8, 4382-4389 (2012) IF 4.390
67. Tartivel L., M. Behl, M. Schroeter, A. Lendlein, Hydrogels Networks Based on ABA Triblock Copolymers *J Appl Biomater Funct Mater* 10 (3), 243-248 (2012) IF 0.760

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

68. Trescher K., N. Scharnagl, K.I Kratz, T. Roch, A. Lendlein, F. Jung, Adherence and viability of primary human keratinocytes and primary human dermal fibroblasts on acrylonitrile-based copolymers with different concentrations of positively charged functional groups, *Clin Hemorheol Microcirc.* 52, 391-401 (2012) IF 3.398
69. Trescher K., T. Roch, J. Cui, K. Kratz, M. Jünger, A. Lendlein, F. Jung, Behaviour of primary human keratinocytes and fibroblasts on soft poly (n-butyl acrylate) networks with tailored mechanical properties, Conference: 39th Annual Meeting of the Arbeitsgemeinschaft-Dermatologische-Forschung (ADF), Marburg, Germany, MAR 01-03, 2012, *Experimental Dermatology* 21 (3), e8-e8 (2012) ISI Proc. gel.
70. Tripodo G., C. Wischke, A. Lendlein, Design of semi-interpenetrating networks based on poly(ethyl-2-cyanoacrylate) and oligo(ethylene glycol) diglycidyl ether, *Mater. Res. Soc. Symp. Proc.* 1403, 21-26, mrsf11-1403-v12-23 (2012), DOI:10.1557/opl.2012.223 ISI Proc. gel.
71. Tzoneva R., B. Seifert, M. Behl, A. Lendlein, Elastic multiblock copolymers for vascular regeneration: protein adsorption and hemocompatibility, *Clin Hemorheol Microcirc.* 52, 337-348 (2012) IF 3.398
72. Wang H., Y. Feng, B. An, W. Zhang, M. Sun, Z. Fang, W. Yuan. M. Khan, Fabrication of PU/PEGMA crosslinked hybrid scaffolds by in situ UV photopolymerization favoring human endothelial cells growth for vascular tissue engineering, *J. Mater Sci Mater Med.* 23, 1499-1510 (2012) IF 2.316
73. Wang H., Y. Feng, H. Zhao, R. Xiao, J. Lu, L. Zhang, J. Guo, Electrospun Hemocompatible PU/Gelatin-Heparin Nanofibrous Bilayer Scaffolds as Potential Artificial Blood Vessels, *Macromol Res* 20 (4), 347-350 (2012) IF 1.153
74. Wang L., M. Heuchel, L. Fang, K. Kratz, A. Lendlein, The Influence of a Polyester Coating on Magnetic Nanoparticles on the Magnetic Heating Behavior of Shape-Memory Polymer Based Composites Thereof *J Appl Biomater Funct Mater* 10 (3), 203-209 (2012) IF 0.760
75. Wang W., N. Ma, K. Kratz, X. Xu, Z. Li, T. Roch, K. Bieback, F. Jung, A. Lendlein, The influence of polymer scaffolds on cellular behaviour of bone marrow derived human mesenchymal stem cells, *Clin Hemorheol Microcirc.* 52, 357-373 (2012) IF 3.398
76. Wischke C., S. Mathew, T. Roch, M. Frentsch, A. Lendlein, Potential of NOD receptor ligands as immunomodulators in particulate vaccine carriers, *J. Control Release* 164, 299-306 (2012) IF 6.499
77. Wischke C., S. Steuer, A. Lendlein, Determining loading kinetics of drug releasing degradable shape-memory polymers. *Mater. Res. Soc. Symp. Proc.* 2012, 1403, 207-212, mrsf11-1403-v14-03 (2012), DOI:10.1557/opl.2012.224 ISI Proc. gel.
78. Xu X, Stockhammer F, Schmitt A, Casalegno-Garduno R, Enders A, Mani J, Classen CF, Linnebacher M, Freund M, Schmitt M. Therapeutical doses of temozolomide do not impair the function of dendritic cells and CD8+ T cells. *Int J Oncol.* 40 (3), 764-772 (2012) IF 2.399
79. Xu X., F. Stockhammer, M. Schmitt, Cellular-based immunotherapies for patients with glioblastoma multiforme, *Clin Dev Immunol*, Article ID 764213, 15 pages (2012) IF 1.838
80. Yang D., Y. Feng, M. Behl, A. Lendlein, H. Zhao, M. Khan, J. Guo, Biomimetic Hemo-compatible Surfaces of Polyurethane by Grafting Copolymer Brushes of Poly(ethylene glycol) and Poly(phosphorylcholine methacrylate), *Mater. Res. Soc. Symp. Proc.* 1403, 171-176, mrsf11-1403-v12-46 (2012), DOI: 10.1557/opl.2012.702 ISI Proc. gel.

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

81. Yang K.K., J. Zotzmann, A. Lendlein, M. Behl, Synthesis and Characterization of Hydroxy-telechelic Four-arm Star-shaped Oligo(tetrahydrofuran), Their Crosslinking, and Thermomechanical Investigation of the Polymer Network, Mater. Res. Soc. Symp. Proc. 2012, 1403, 41-46, mrsf11-1403-v02-04 (2012), DOI: 10.1557/opl.2012.453 ISI Proc. gel.
82. Yoshikawa H.Y., J. Cui, K. Kratz, T. Matsuzaki, S. Nakabayashi, A. Marx, U. Engel, A. Lendlein, M. Tanaka, Quantitative Evaluation of Adhesion of Osteosarcoma Cells to Hydrophobic Polymer Substrate with Tunable Elasticity, J. Phys Chem B 116 (28), 8024-8030 (2012) IF 3.696
83. Zhang Y., W. Li, L. Ou, W. Wang, E. Delyagina, C. Lux, H. Sorg, K. Riehemann, G. Steinhoff, N. Ma, Targeted Delivery of Human VEGF Gene via Complexes of Magnetic Nanoparticle-Adenoviral Vectors Enhanced Cardiac Regeneration, Plos One 7 (7), e39490 (2012) IF 4.092
84. Zotzmann J., M. Behl, A. Lendlein, Triple-Shape Effect of Copolymer Networks Based on Poly(ω -pentadecalactone) and Poly(ϵ -caprolactone) Segments Applying a Programming Procedure with an Adjusted Temperature Profile, Mater. Res. Soc. Symp. Proc. 1403, 85-90, mrsf11-1403-v12-49 (2012), DOI:10.1557/opl.2012.250 ISI Proc. gel.

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

PACES

1. Albrecht, Frauke; Weisse, Ralf; Pressure effects on past regional sea level trends and variability in the German Bight; OCEAN DYNAMICS; 62; 8; 1169; 1186; 2012 IF 1.774
2. Barcikowska, M.; Feser, F.; Storch, H.v.; Usability of best track data in climate statistics in the western North Pacific; MONTHLY WEATHER REVIEW; 140; 9; 2818; 2830; 2012 IF 2.688
3. Barkhordarian, A.; Storch, H.V. & Bhend, J.; The expectation of future precipitation change over the mediterranean regions from what we observe.; CLIMATE DYNAMICS; 1; 20; 2012 IF 4.602
4. Barkhordarian, A.; Storch, H.V.; Zorrita, E.; Anthropogenic forcing is a plausible explanation for the observed surface specific humidity trends over the Mediterranean are; GEOPHYSICAL RESEARCH LETTERS; 39; L19706; 2012 IF 3.792
5. Barkhordarian, Armineh; Bhend, Jonas; von Storch, Hans; Consistency of observed near surface temperature trends with climate change projections over the Mediterranean region; CLIMATE DYNAMICS; 38; 41191; 1695; 1702; 2012 IF 4.602
6. Barkhordarian, Armineh; Investigating the influence of anthropogenic forcing on observed mean and extreme sea level pressure trends over the Mediterranean Region.; Scientific World Journal; 2012; ; 525303; 525303; 2012 IF -
7. Benskin, Jonathan P.; Ahrens, Lutz; Muir, Derek C. G.; Scott, Brian F.; Spencer, Christine; Rosenberg, Bruno; Tomy, Gregg; Kylin, Henrik; Lohmann, Rainer; Martin, Jonathan W.; Manufacturing Origin of Perfluorooctanoate (PFOA) in Atlantic and Canadian Arctic Seawater; ENVIRONMENTAL SCIENCE & TECHNOLOGY; 46; 2; 677; 685; 2012 IF 5.228
8. Bieser, Johannes; Aulinger, Armin; Matthias, Volker; Quante, Markus; Impact of Emission Reductions between 1980 and 2020 on Atmospheric Benzo[a]pyrene Concentrations over Europe; WATER AIR AND SOIL POLLUTION; 223; 3; 1393; 1414; 2012 IF 1.625
9. Bollmann, Ulla E.; Moeler, Axel; Xie, Zhiyong; Ebinghaus, Ralf; Einax, Juergen W.; Occurrence and fate of organophosphorus flame retardants and plasticizers in coastal and marine surface waters; WATER RESEARCH; 46; 2; 531; 538; 2012 IF 4.865
10. Brunke, E.-G.; Ebinghaus, R.; Kock, H.H.; Labuschagne, C.; Slemr, F.; Emission of mercury in southern Africa derived from long-term observations at Cape Point, South Africa; ATMOSPHERIC CHEMISTRY AND PHYSICS; 12; 16; 7465; 7474; 2012 IF 5.520
11. Busch, Malte; La Notte, Alessandra; Laporte, Valerie; Erhard, Markus; Potentials of quantitative and qualitative approaches to assessing ecosystem services; ECOLOGICAL INDICATORS; 21; ; 89; 103; 2012 IF 2.695
12. Cai, Minghong; Ma, Yuxin; Xie, Zhiyong; Zhong, Guangcai; Moeller, Axel; Yang, Haizhen; Sturm, Renate; He, Jianfeng; Ebinghaus, Ralf; Meng, Xiang-Zhou; Distribution and air-sea exchange of organochlorine pesticides in the North Pacific and the Arctic; JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES; 117; 2012 IF 3.021
13. Cai, Minghong; Xie, Zhiyong; Moeller, Axel; Yin, Zhigao; Huang, Peng; Cai, Minggang; Yang, Haizhen; Sturm, Renate; He, Jianfeng; Ebinghaus, Ralf; Polyfluorinated compounds in the atmosphere along a cruise pathway from the Japan Sea to the Arctic Ocean; CHEMOSPHERE; 87; 9; 989; 997; 2012 IF 3.206

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

14. Cai, Minghong; Yang, Haizhen; Xie, Zhiyong; Zhao, Zhen; Wang, Feng; Lu, Zhibo; Sturm, Renate; Ebinghaus, Ralf; Per- and polyfluoroalkyl substances in snow, lake, surface runoff water and coastal seawater in Fildes Peninsula, King George Island, Antarctica; *JOURNAL OF HAZARDOUS MATERIALS*; 209; ; 335; 342; 2012 IF 4.173
15. Cai, Minghong; Zhao, Zhen; Yang, Haizhen; Yin, Zhigao; Hong, Qingquan; Sturm, Renate; Ebinghaus, Ralf; Ahrens, Lutz; Cai, Minggang; He, Jianfeng; Xie, Zhiyong; Spatial distribution of per- and polyfluoroalkyl compounds in coastal waters from the East to South China Sea; *ENVIRONMENTAL POLLUTION*; 161; ; 162; 169; 2012 IF 3.746
16. Cai, Minghong; Zhao, Zhen; Yin, Zhigao; Ahrens, Lutz; Huang, Peng; Cai, Minggang; Yang, Haizhen; He, Jianfeng; Sturm, Renate; Ebinghaus, Ralf; Xie, Zhiyong; Occurrence of Perfluoroalkyl Compounds in Surface Waters from the North Pacific to the Arctic Ocean; *ENVIRONMENTAL SCIENCE & TECHNOLOGY*; 46; 2; 661; 668; 2012 IF 5.228
17. Cavicchia, L. & Storch, H.v.; The simulation of medicanes in a high-resolution regional climate model; *CLIMATE DYNAMICS*; 39; 9-10; 2012 IF 4.602
18. Chen, Fei; Geyer, Beate; Zahn, Matthias; von Storch, Hans; Toward a Multi-Decadal Climatology of North Pacific Polar Lows Employing Dynamical Downscaling; *TERRESTRIAL ATMOSPHERIC AND OCEANIC SCIENCES*; 23; 3; 291; 301; 2012 IF 0.883
19. Daenke, K.; Moneta, A.; Veuger, B.; Soetaert, K.; Middelburg, J.J.; Balance of assimilative and dissimilative nitrogen processes in a diatom-rich tidal flat sediment; *BIOGEOSCIENCES*; 9; 10; 4059; 4070; 2012 IF 3.859
20. Deek, Astrid; Emeis, Kay; van Beusekom, Justus; Nitrogen removal in coastal sediments of the German Wadden Sea; *BIOGEOCHEMISTRY*; 108; 40969; 467; 483; 2012 IF 3.069
21. Dickey, T.; Banner, M. L.; Bhandari, P.; Boyd, T.; Carvalho, L.; Chang, G.; Chao, Y.; Czerski, H.; Darecki, M.; Dong, C.; Farmer, D.; Freeman, S.; Gemmrich, J.; Gernez, P.; Hall-Patch, N.; Holt, B.; Jiang, S.; Jones, C.; Kattawar, G.; LeBel, D.; Lenain, L.; Lewis, M.; Liu, Y.; Logan, L.; Manov, D.; Melville, W. K.; Moline, M. A.; Morison, R.; Nencioli, F.; Pegau, W. S.; Reineman, B.; Robbins, I.; Roettgers, R.; Schultz, H.; Shen, L.; Shinki, M.; Slivkoff, M.; Sokolski, M.; Spada, F.; Statom, N.; Stramski, D.; Sutherland, P.; Twardowski, M.; Vagle, S.; Van Dommelen, R.; Voss, K.; Washburn, L.; Wei, J.; Wijesekera, H.; Wurl, O.; Yang, D.; Yildiz, S.; You, Y.; Yue, D. K. P.; Zaneveld, R.; Zappa, C. J.; Introduction to special section on Recent Advances in the Study of Optical Variability in the Near-Surface and Upper Ocean; *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*; 117; 2012 IF 3.021
22. Dorado Liñan, I.; Büntgen, U.; González-Rouco, F.; Zorita, E.; Montávez, J.P.; Gomez-Navarro, J.J.; Gutiérrez, E.; Estimating 750 years of temperature variations and uncertainties in the pyrenees by tree-ring reconstructions and climate simulations; *CLIMATE OF THE PAST*; 8; 3; 919; 933; 2012 IF 3.509
23. Dreyer, A.; Thuens, S.; Kirchgeorg, T.; Radke, M.; Ombrotrophic Peat Bogs Are Not Suited as Natural Archives To Investigate the Historical Atmospheric Deposition of Perfluoroalkyl Substances; *ENVIRONMENTAL SCIENCE AND TECHNOLOGY*; 46; 14; 7512; 7519; 2012 IF 5.228
24. Esnaola, G.; Saenz, J.; Zorita, E.; Lazure, P.; Ganzedo, U.; Fontan, A.; Ibarra-Berastegi, G.; Ezcurra, A.; Coupled air-sea interaction patterns and surface heat-flux feedback in the Bay of Biscay; *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*; 117; 2012 IF 3.021

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

25. Esper, J.; Frank, D.C.; Timonen, M.; Zorita, E.; Wilson, R.J.S.; Luterbacher, J.; Holzkaemper, S.; Fischer, N.; Wagner, S.; Nievergelt, D.; Verstege, A.; Buentgen, U.; Orbital forcing of tree-ring data; NATURE CLIMATE CHANGE; 2; ; 862; 866; 2012 IF -
26. Fenoglio-Marc, L.; Rietbroek, R.; Grayek, S. et al; Water mass variation in the Mediterranean and Black Seas; JOURNAL OF GEODYNAMICS; 59; SI; 168; 182; 2012 IF 2.007
27. Feser, Frauke; Barcikowska, Monika; The influence of spectral nudging on typhoon formation in regional climate models; ENVIRONMENTAL RESEARCH LETTERS; 7; 1; 2012 IF 3.631
28. Frommel, Andrea Y.; Maneja, Rommel; Lowe, David; Malzahn, Arne M.; Geffen, Audrey J.; Folkvord, Arild; Piatkowski, Uwe; Reusch, Thorsten B. H.; Clemmesen, Catriona; Severe tissue damage in Atlantic cod larvae under increasing ocean acidification; NATURE CLIMATE CHANGE; 2; 1; 42; 46; 2012 IF -
29. Gao, Hang; Matyka, Maciej; Liu, Bo; Khalili, Arzhang; Kostka, Joel E.; Collins, Gavin; Jansen, Stefan; Holtappels, Moritz; Jensen, Marlene M.; Badewien, Thomas H.; Beck, Melanie; Grunwald, Maik; de Beer, Dirk; Lavik, Gaute; Kuypers, Marcel M. M.; Intensive and extensive nitrogen loss from intertidal permeable sediments of the Wadden Sea; LIMNOLOGY AND OCEANOGRAPHY; 57; 1; 185; 198; 2012 IF 3.416
30. Gómez_Navarro, J.J.; Montvez, J.P., Jerez, S.; Jiménez-Guerrero, P. & Zorita, E.; What is the role of the observational dataset in the evaluation and scoring of climate models?; GEOPHYSICAL RESEARCH LETTERS; 39; 24; 2012 IF 3.792
31. Gomez-Navarro, J. J.; Montavez, J. P.; Jimenez-Guerrero, P.; Jerez, S.; Lorente-Plazas, R.; Gonzalez-Rouco, J. F.; Zorita, E.; Internal and external variability in regional simulations of the Iberian Peninsula climate over the last millennium; CLIMATE OF THE PAST; 8; 1; 25; 36; 2012 IF 3.509
32. Grebe, Mechthild; Proefrock, Daniel; Kakuschke, Antje; del Castillo Busto, M. Estella; Montes-Bayon, Maria; Sanz-Medel, Alfredo; Broekaert, Jose A. C.; Prange, Andreas; Comparison of different methods for the absolute quantification of harbour seal transferrin glycoforms using HPLC-ICP-MS; JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY; 27; 3; 440; 448; 2012 IF 3.220
33. Gustafsson, Bo G.; Schenk, F.; Blencckner, Th.; et al; Reconstructing the Development of Baltic Sea Eutrophication 1850-2006; AMBIO; 41; 6 SI; 534; 548; 2012 IF 2.025
34. Han, S.; Baschecky, B. & Gerla, M.; Extended abstract: Ocean-TUNE UCLA testbed for subsurface current mapping; Paper presented at the PROCEEDINGS OF THE 7th ACM International Conference on Unterwater Networks and Systems, WUWNet; 2012 ISI gel. Proc.
35. He, Yunchang; Stonev, Emil V.; Yakushev, Evgeniy; Staneva, Joanna; Black Sea biogeochemistry: Response to decadal atmospheric variability during 1960-2000 inferred from numerical modeling; MARINE ENVIRONMENTAL RESEARCH; 77; ; 90; 102; 2012 IF 2.276
36. Helmholtz, Heike; Wiebring, Annika; Lassen, Stephan; Ruhnau, Christiane; Schuett, Christian; Prange, Andreas; Cnidom analysis combined with an in vitro evaluation of the lytic, cyto- and neurotoxic potential of *Cyanea capillata* (Cnidaria: Scyphozoa); SCIENTIA MARINA; 76; 2; 339; 348; 2012 IF 1.278
37. Hemer, Mark A.; Wang, Xiaolan L.; Weisse, Ralf; Swail, Val R.; Advancing Wind-Waves Climate Science The COWCLIP Project; BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY; 93; 6; 791; 796; 2012 IF 6.026

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

38. Hieronymi, M.; Macjke, A.; On the influence of wind and waves on underwater irradiance fluctuations; OCEAN SCIENCE; 8; 4; 455; 471; 2012 IF 2.293
39. Hoffmann, Peter; Krueger, Oliver; Schluenzen, K. Heinke; A statistical model for the urban heat island and its application to a climate change scenario; INTERNATIONAL JOURNAL OF CLIMATOLOGY; 32; 8; 1238; 1248; 2012 IF 2.906
40. Huber, Sandra; Ahrens, Lutz; Bardsen, Bard-Jorgen; Siebert, Ursula; Bustnes, Jan Ove; Vikingsson, Gisli A.; Ebinghaus, Ralf; Herzke, Dorte; Temporal trends and spatial differences of perfluoroalkylated substances in livers of harbor porpoise (*Phocoena phocoena*) populations from Northern Europe, 1991-2008; SCIENCE OF THE TOTAL ENVIRONMENT; 419; 6; 216; 224; 2012 IF 3.286
41. Ibrahiim, B.; Polcher, J.; Karambiri, H.; Rockel, B.; Characterization of the rainy season in Burkina Faso and its representation by regional climate models; CLIMATE DYNAMICS; 39; 6; 1287; 1302; 2012 IF 4.602
42. Kowalski, Nicole; Dellwig, Olaf; Beck, Melanie; Grunwald, Maik; Duerselen, Claus-Dieter; Badewien, Thomas H.; Brumsack, Hans-Juergen; van Beusekom, Justus E. E.; Boettcher, Michael E.; A comparative study of manganese dynamics in the water column and sediments of intertidal systems of the North Sea; ESTUARINE COASTAL AND SHELF SCIENCE; 100; 3; 17; 2012 IF 2.247
43. Krauss, W. & Storch, H.v.; Climate Science in a postnormal context; EOS; 93; 10; 110; 2012 Scopus
44. Krauss, W.; Schaefer, M.S.; Storch, H.v.; Introduction: Postnormal Science and Climate Research; NATURE AND CULTURE; 7; 2; 121; 132; 2012 IF 0.700
45. Krauss, W.; Storch, H.v.; Post-normal Practices between Climate Service and Local Knowledge; NATURE AND CULTURE; 7; 2; 213; 230; 2012 IF 0.700
46. Krueger, Oliver; von Storch, Hans; The Informational Value of Pressure-Based Single-Station Proxies for Storm Activity; JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY; 29; 4; 569; 580; 2012 IF 2.255
47. Langmann, Baerbel; Folch, Arnau; Hensch, Martin; Matthias, Volker; Volcanic ash over Europe during the eruption of Eyjafjallajokull on Iceland, April-May 2010; ATMOSPHERIC ENVIRONMENT; 48; ; 1; 8; 2012 IF 3.465
48. Lassen, Stephan; Wiebring, Annika; Helmholtz, Heike; Ruhnau, Christiane; Prange, Andreas; Isolation of a Na-v channel blocking polypeptide from *Cyanea capillata* medusae - A neurotoxin contained in fishing tentacle isorhizas; TOXICON; 59; 6; 610; 616; 2012 IF 2.508
49. Linan, I. Dorado; Buentgen, U.; Gonzalez-Rouco, F.; Zorita, E.; Montavez, J. P.; Gomez-Navarro, J. J.; Brunet, M.; Heinrich, I.; Helle, G.; Gutierrez, E.; Estimating 750 years of temperature variations and uncertainties in the Pyrenees by tree-ring reconstructions and climate simulations; CLIMATE OF THE PAST; 8; 3; 919; 933; 2012 IF 3.509
50. Lindenberg, Janna; Mengelkamp, Heinz-Theo; Rosenhagen, Gudrun; Representativity of near surface wind measurements from coastal stations at the German Bight; METEOROLOGISCHE ZEITSCHRIFT; 21; 1; 99; 106; 2012 IF 1.336

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

51. Lu, Xi; Soomere, Tarmo; Stanev, Emil V.; Murawski, Jens; Identification of the environmentally safe fairway in the South-Western Baltic Sea and Kattegat; OCEAN DYNAMICS; 62; 6; 815; 829; 2012 IF 1.774
52. Malzahn; A.M. & Boersma, M.; Effects of poor food quality on copepod growth are dose dependent and non-reversible; OIKOS; 121; 9; 1408; 1416; 2012 Scopus
53. Matthias, Volker; Aulinger, Armin; Bieser, Johannes; Cuesta, Juan; Geyer, Beate; Langmann, Baerbel; Serikov, Ilya; Mattis, Ina; Minikin, Andreas; Mona, Lucia; Quante, Markus; Schumann, Ulrich; Weinzierl, Bernadett; The ash dispersion over Europe during the Eyjafjallajökull eruption - Comparison of CMAQ simulations to remote sensing and air-borne in-situ observations; ATMOSPHERIC ENVIRONMENT; 48; ; 184; 194; 2012 IF 3.465
54. Matulla, C.; Hofstaetter, M.; Auer, I.; Boehm, R.; Maugeri, M.; von Storch, H.; Krueger, O.; Storminess in northern Italy and the Adriatic Sea reaching back to 1760; PHYSICS AND CHEMISTRY OF THE EARTH; 40-41; ; 80; 85; 2012 IF 1.110
55. Meier, H.E.M.; Andersson, H.C.; Arheimer, B. ; Blenckner, T.; Chubarenko, B.; Donnelly, C.; Zorita, E.; Comparing reconstructed past variations and future projections of the Baltic Sea ecosystem - first results from multi-model ensemble simulations; ENVIRONMENTAL RESEARCH LETTERS; 7; 3; 2012 IF 3.631
56. Meunier, C.L.; Haafke, J.; Oppermann, B; et al.; Dynamic stoichiometric response to food quality fluctuations in the heterotrophic dinoflagellate *Oxyrrhis marina*; MARINE BIOLOGY; 159; 10; 2241; 2248; 2012 IF 2.276
57. Meunier, Cedric Leo; Hantzsch, Florian M.; Cunha-Dupont, Alessandra O.; Haafke, Julia; Oppermann, Bettina; Malzahn, Arne M.; Boersma, Maarten; Intraspecific selectivity, compensatory feeding and flexible homeostasis in the phagotrophic flagellate *Oxyrrhis marina*: three ways to handle food quality fluctuations; HYDROBIOLOGIA; 680; 1; 53; 62; 2012 IF 1.748
58. Meyer, S.; Caldarone, E. M.; Chicharo, M. A.; Clemmesen, C.; Faria, A. M.; Faulk, C.; Folkvord, A.; Holt, G. J.; Hoie, H.; Kanstinger, P.; Malzahn, A.; Moran, D.; Peterleit, C.; Stottrup, J. G.; Peck, M. A.; On the edge of death: Rates of decline and lower thresholds of biochemical condition in food-deprived fish larvae and juveniles; JOURNAL OF MARINE SYSTEMS; 93; ; 11; 24; 2012 IF 2.126
59. Mizerkowski, Byanka Damian; Machado, Eunice da Costa; Brandini, Nilva; Nazario, Mariana Gallucci; Bonfim, Kleber Vieira; ENVIRONMENTAL WATER QUALITY ASSESSMENT IN GUARATUBA BAY, STATE OF PARANA, SOUTHERN BRAZIL; BRAZILIAN JOURNAL OF OCEANOGRAPHY; 60; 2; 109; 115; 2012 IF 0.390
60. Moeller, Axel; Sturm, Renate; Xie, Zhiyong; Cai, Minghong; He, Jianfeng; Ebinghaus, Ralf; Organophosphorus Flame Retardants and Plasticizers in Airborne Particles over the Northern Pacific and Indian Ocean toward the Polar Regions: Evidence for Global Occurrence; ENVIRONMENTAL SCIENCE & TECHNOLOGY; 46; 6; 3127; 3134; 2012 IF 5.228
61. Moeller, Axel; Xie, Zhiyong; Caba, Armando; Sturm, Renate; Ebinghaus, Ralf; Occurrence and air-seawater exchange of brominated flame retardants and Dechlorane Plus in the North Sea; ATMOSPHERIC ENVIRONMENT; 46; 346; 353; 2012 IF 3.465
62. Moeller, Axel; Xie, Zhiyong; Cai, Minghong; Sturm, Renate; Ebinghaus, Ralf; Brominated Flame Retardants and Dechlorane Plus in the Marine Atmosphere from Southeast Asia toward Antarctica; ENVIRONMENTAL SCIENCE & TECHNOLOGY; 46; 6; 3141; 3148; 2012 IF 5.228

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

63. Prigge, Enno; Malzahn, Arne M.; Zumholz, Karsten; Hanel, Reinhold; Dietary effects on fatty acid composition in muscle tissue of juvenile European eel, *Anguilla anguilla* (L.); HELGOLAND MARINE RESEARCH; 66; 1; 51; 61; 2012 IF 1.281
64. Proefrock, Daniel; Prange, Andreas; Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) for Quantitative Analysis in Environmental and Life Sciences: A Review of Challenges, Solutions, and Trends; APPLIED SPECTROSCOPY; 66; 8; 843; 868; 2012 IF 1.663
65. Puls, W.; Bernem, K.-H. v.; Eppel, D.; Kapitza, H.; Pleskachevsky, A.; Riethmüller, R.; Vaessen, B.; Prediction of benthic community structure from environmental variables in a soft-sediment tidal basin (North Sea); HELGOLAND MARINE RESEARCH; 66; 6; 345; 361; 2012 IF 1.281
66. Ratter, B.M.W.; Gee, K.; Heimat - A German concept of regional perception and identity as a basis for coastal management in the Wadden Sea; OCEAN AND COASTAL MANAGEMENT ; 68; SI; 127; 137; 2012 IF 1.333
67. Ratter, Beate M. W.; Philipp, Katharina H. I.; von Storch, Hans; Between hype and decline: recent trends in public perception of climate change; ENVIRONMENTAL SCIENCE & POLICY; 18; 3; 8; 2012 IF 3.024
68. Rauthe-Schoech, A.; Weigelt, A.; Hermann, M.; Martinsson, B. G.; Baker, A. K.; Heue, K. -P.; Brenninkmeijer, C. A. M.; Zahn, A.; Scharffe, D.; Eckhardt, S.; Stohl, A.; van Velthoven, P. F. J.; CARIBIC aircraft measurements of Eyjafjallajökull volcanic clouds in April/May 2010; ATMOSPHERIC CHEMISTRY AND PHYSICS; 12; 2; 879; 902; 2012 IF 5.520
69. Reckermann, M.; Special Issue: ECOSUPPORT - Different Ecosystem Drivers Under Future Climate Scenarios in the Baltic Sea; AMBIO; 41; 6 SI; 527; 528; 2012 IF 2.025
70. Roeder, Karin; Hantzsch, Florian Matthias; Gebuehr, Christina; Miene, Claudia; Helbig, Tina; Krock, Bernd; Hoppenrath, Mona; Luckas, Bernd; Gerdt, Gunnar; Effects of salinity, temperature and nutrients on growth, cellular characteristics and yessotoxin production of *Protoceratium reticulatum*; HARMFUL ALGAE; 15; ; 59; 70; 2012 IF 3.038
71. Roesner, R.; Mueller-navarra, D.; Zorita, E.; Trend analysis of weekly temperatures and oxygen concentrations during summer stratification in Lake Plüsee: A long-term study. LIMNOLOGY AND OCEANOGRAPHY, 57, 5, 1478-1491, 2012 IF 3.416
72. Roettgers, R.; Koch, B.P.; Spectroscopic detection of an ubiquitous dissolved pigment degradation product in subsurface waters of the global ocean; BIOGEOSCIENCES; 9; 7; 2585; 2596; 2012 IF 3.859
73. Roettgers, Ruediger; Gehnke, Steffen; Measurement of light absorption by aquatic particles: improvement of the quantitative filter technique by use of an integrating sphere approach; APPLIED OPTICS; 51; 9; 1336; 1351; 2012 IF 1.748
74. Schenk, F.; Zorita, E.; ; Reconstruction of high resolution atmospheric fields for Northern Europe using analog-upscaling; CLIMATE OF THE PAST; 8; 5; 1681; 1703; 2012 IF 3.509
75. Schlueter, Merja H.; Kraberg, Alexandra; Wiltshire, Karen H.; Long-term changes in the seasonality of selected diatoms related to grazers and environmental conditions; JOURNAL OF SEA RESEARCH; 67; 1; 91; 97; 2012 IF 2.598
76. Schoo, Katherina L.; Aberle, Nicole; Malzahn, Arne M.; Boersma, Maarten; Food Quality Affects Secondary Consumers Even at Low Quantities: An Experimental Test with Larval European Lobster; PLOS ONE; 7; 3; ; ; 2012 IF 4.092

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

77. Sheppard, C. R. C.; Atweberhan, M.; Bowen, B. W.; Carr, P.; Chen, C. A.; Clubbe, C.; Craig, M. T.; Ebinghaus, R.; Eble, J.; Fitzsimmons, N.; Gaither, M. R.; Gan, C-H.; Gollock, M.; Guzman, N.; Graham, N. A. J.; Harris, A.; Jones, R.; Keshavmurthy, S.; Koldewey, H.; Lundin, C. G.; Mortimer, J. A.; Obura, D.; Pfeiffer, M.; Price, A. R. G.; Purkis, S.; Raines, P.; Readman, J. W.; Riegl, B.; Rogers, A.; Schleyer, M.; Seaward, M. R. D.; Sheppard, A. L. S.; Tamelander, J.; Turner, J. R.; Visram, S.; Vogler, C.; Vogt, S.; Wolschke, H.; Yang, J. M-C.; Yang, S-Y.; Yesson, C.; Reefs and islands of the Chagos Archipelago, Indian Ocean: why it is the world's largest no-take marine protected area; *AQUATIC CONSERVATION-MARINE AND FRESHWATER ECOSYSTEMS*; 22; 2; 232; 261; 2012 IF 1.929
78. Smetacek, Victor; Klaas, Christine; Strass, Volker H.; Assmy, Philipp; Montresor, Marina; Cisewski, Boris; Savoye, Nicolas; Webb, Adrian; d'Ovidio, Francesco; Arrieta, Jesus M.; Bathmann, Ulrich; Bellerby, Richard; Berg, Gry Mine; Croot, Peter; Gonzalez, Santiago; Henjes, Joachim; Herndl, Gerhard J.; Hoffmann, Linn J.; Leach, Harry; Losch, Martin; Mills, Matthew M.; Neill, Craig; Peeken, Ilka; Roettgers, Ruediger; Sachs, Oliver; Sauter, Eberhard; Schmidt, Maike M.; Schwarz, Jill; Terbrueggen, Anja; Wolf-Gladrow, Dieter; Deep carbon export from a Southern Ocean iron-fertilized diatom bloom; *NATURE*; 487; 7407; 313; 319; 2012 IF 36.280
79. Soerensen, A.L.; Jacob, D.J.; Streets, D.G.; Witt, M.L.I.; Ebinghaus, R.; Mason, R.P.; Andersson, M.; Sunderland, E.M.; Multi-decadal decline of mercury in the North Atlantic atmosphere explained by changing subsurface concentrations; *GEOPHYSICAL RESEARCH LETTERS*; 39; I21810; 2012 IF 3.792
80. Solazzo, Efisio; Bianconi, Roberto; Pirovano, Guido; Matthias, Volker; Vautard, Robert; Moran, Michael D.; Appel, K. Wyatt; Bessagnet, Bertrand; Brandt, Jorgen; Christensen, Jesper H.; Chemel, Charles; Coll, Isabelle; Ferreira, Joana; Forkel, Renate; Francis, Xavier V.; Grell, Georg; Grossi, Paola; Hansen, Ayoe B.; Miranda, Ana Isabel; Nopmongcol, Uarporn; Prank, Marje; Sartelet, Karine N.; Schaap, Martijn; Silver, Jeremy D.; Sokhi, Ranjeet S.; Vira, Julius; Werhahn, Johannes; Wolke, Ralf; Yarwood, Greg; Zhang, Junhua; Rao, S. Trivikrama; Galmarini, Stefano; Operational model evaluation for particulate matter in Europe and North America in the context of AQMEII; *ATMOSPHERIC ENVIRONMENT*; 53; ; 75; 92; 2012 IF 3.465
81. Soomere, T.; Weisse, R.; Behrens, A.; Wave climate in the Arkona Basin, the Baltic Sea; *OCEAN SCIENCE*; 8; 2; 287; 300; 2012 IF 2.293
82. Sperling, M.; Giebel, H.-A.; Rind, B.; Grayek, S.; Staneva, J.; Stanev, E.V.; Simon, M.; Differential effects of hydrographic and biogeochemical properties on the SAR11 clade and Roseobacter RCA cluster in the North Sea; *AQUATIC MICROBIAL ECOLOGY*; 67; 1; 25; 34; 2012 IF 2.393
83. Stanev, Emil Vassilev; Kandilarov, Rostislav; Sediment dynamics in the Black Sea: numerical modelling and remote sensing observations; *OCEAN DYNAMICS*; 62; 4; 533; 553; 2012 IF 1.774
84. Storch, H.v. & Zwiers, F.; Strategies to deliver information on regional climate changes to communities; *EOS*; 93; 23; 220; ; 2012 Scopus
85. Swaney, D. P.; Humborg, C.; Emeis, K.; Kannen, A.; Silvert, W.; Tett, P.; Pastres, R.; Solidoro, C.; Yamamuro, M.; Henocque, Y.; Nicholls, R.; Five critical questions of scale for the coastal zone; *ESTUARINE COASTAL AND SHELF SCIENCE*; 96; ; 9; 21; 2012 IF 2.247

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

86. Teeling, Hanno; Fuchs, Bernhard M.; Becher, Doerte; Klockow, Christine; Gardebrecht, Antje; Bennke, Christin M.; Kassabgy, Mariette; Huang, Sixing; Mann, Alexander J.; Waldmann, Jost; Weber, Marc; Klindworth, Anna; Otto, Andreas; Lange, Jana; Bernhardt, Joerg; Reinsch, Christine; Hecker, Michael; Peplies, Joerg; Bockelmann, Frank D.; Callies, Ulrich; Gerdts, Gunnar; Wichels, Antje; Wiltshire, Karen H.; Gloeckner, Frank Oliver; Schweder, Thomas; Amann, Rudolf; Substrate-Controlled Succession of Marine Bacterioplankton Populations Induced by a Phytoplankton Bloom; SCIENCE; 336; 6081; 608; 611; 2012 IF 31.201
87. Tilstone, Gavin H.; Peters, Steef W. M.; van der Woerd, Hendrik Jan; Eleveld, Marieke A.; Ruddick, Kevin; Schoenfeld, Wolfgang; Krasemann, Hajo; Martinez-Vicente, Victor; Blondeau-Patissier, David; Roettgers, Ruediger; Sorensen, Kai; Jorgensen, Peter V.; Shutler, Jamie D.; Variability in specific-absorption properties and their use in a semi-analytical ocean colour algorithm for MERIS in North Sea and Western English Channel Coastal Waters; REMOTE SENSING OF ENVIRONMENT; 118; 320; 338; 2012 IF 4.574
88. van Beusekom, J.E.E. & de Jonge, V.N.; Dissolved organic phosphorus: An indicator of organic matter turnover?; ESTUARINE, COASTAL AND SHELF SCIENCE ; 108; ; 29; 36; 2012 IF 2.247
89. van Beusekom, J.E.E.; Buschbaum, Ch.; Reise, K.; Wadden Sea tidal basins and the mediating role of the North Sea in ecological processes: scaling up of management?; OCEAN AND COASTAL MANAGEMENT ; 68; SI; 69; 78; 2012 IF 1.333
90. Varma, V.; Prange, M.; Merkel, U.; Kleinen, T.; Lohmann, G.; Pfeiffer, M.; Renssen, H.; Wagner, A.; Wagner, S.; Schulz, M.; Holocene evolution of the Southern Hemisphere westerly winds in transient simulations with global climate models; CLIMATE OF THE PAST; 8; 2; 391; 402; 2012 IF 3.509
91. Vautard, Robert; Moran, Michael D.; Solazzo, Efisio; Gilliam, Robert C.; Matthias, Volker; Bianconi, Roberto; Chemel, Charles; Ferreira, Joana; Geyer, Beate; Hansen, Ayoe B.; Jericevic, Amela; Prank, Marje; Segers, Arjo; Silver, Jeremy D.; Werhahn, Johannes; Wolke, Ralf; Rao, S. T.; Galmarini, Stefano; Evaluation of the meteorological forcing used for the Air Quality Model Evaluation International Initiative (AQMEII) air quality simulations; ATMOSPHERIC ENVIRONMENT; 53; ; 15; 37; 2012 IF 3.465
92. Wagner, S.; Fast, I.; Kapar, F.; Comparison of 20th century and pre-industrial climate over South America in regional model simulations; CLIMATE OF THE PAST; 8; 5; 1599; 1620; 2012 IF 3.509
93. Weichselgartner, J. & Marandino, C.A.; Priority knowledge for marine environments: Challenges at the science-society nexus; CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY; 4; 3; 323; 330; 2012 IF 2.438
94. Weise, R.; Storch, H.V.; Niemeyer, H.D.; Knaack, H.; ; Changing North Sea storm surge climate: An increasing hazard?; OCEAN & COASTAL MANGEMENT; 68; ; 58; 68; 2012 IF 1.333
95. Wirtz, Kai W.; Intermittency in processing explains the diversity and shape of functional grazing responses; OECOLOGIA; 169; 4; 879; 894; 2012 IF 3.412
96. Wirtz, Kai W.; Who is eating whom? Morphology and feeding type determine the size relation between planktonic predators and their ideal prey; MARINE ECOLOGY-PROGRESS SERIES; 445; ; 1; 12; 2012 IF 2.711
97. Xia, Lan; Zahn, Matthias; Hodges, Kevin I.; Feser, Frauke; Von Storch, Hans; A comparison of two identification and tracking methods for polar lows; TELLUS SERIES A-DYNAMIC METEOROLOGY AND OCEANOGRAPHY; 64; ; 1; 11; 2012 IF 2.136

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

98. Yang, H.; Dobbie, S.; Mace, G. G.; Ross, A.; Quante, M.; GEWEX Cloud System Study (GCSS) cirrus cloud working group: development of an observation-based case study for model evaluation; GEOSCIENTIFIC MODEL DEVELOPMENT; 5; 3; 829; 843; 2012 IF 3.237
99. Zhao, Zhen; Xie, Zhiyong; Moller, Axel; Sturm, Renate; Tang, Jianhui; Zhang, Gan; Ebinghaus, Ralf; Distribution and long-range transport of polyfluoroalkyl substances in the Arctic, Atlantic Ocean and Antarctic coast.; ENVIRONMENTAL POLLUTION; 170; ; 71; 7; 2012 IF 3.746
100. Zhong, G.; Xie, Z.; Moeller, A.; Halsall, C.; Caba, A.; Sturm, R.; Tang, J.; Zhang, G.; Ebinghaus, R.; Currently used pesticides, hexachlorobenzene and hexachlorocyclohexanes in the air and seawater of the German Bight (North Sea); ENVIRONMENTAL CHEMISTRY; 9; 4; 405; 414; 2012 IF 2.570
101. Zhong, Guangcai; Xie, Zhiyong; Cai, Minghong; Moeller, Axel; Sturm, Renate; Tang, Jianhui; Zhang, Gan; He, Jianfeng; Ebinghaus, Ralf; Distribution and Air-Sea Exchange of Current-Use Pesticides (CUPs) from East Asia to the High Arctic Ocean; ENVIRONMENTAL SCIENCE & TECHNOLOGY; 46; 1; 259; 267; 2012 IF 5.228

HZG-Publikationsliste 2012

ISI-gelistete und veröffentlichte Publikationen

CSC

1. Beig, G., S. Fadnavis, H. Schmidt, G. P. Brasseur: Inter-comparison of 11-year solar cycle response in mesospheric ozone and temperature obtained by HALOE satellite data and HAMMONIA model, *Journal of Geophysical Research*, 117, 2012 IF 3.021
2. Brunsmeier, A. und Groth, M. (2012): Den globalen Waldschutz finanzieren. Stand und Entwicklung des Klimaschutzprogramms REDD+. *GAIA* 21/3 (2012): 181-184. Scopus
3. Dubois, C., Somot, S., Calmanti, S., Carillo, A., Déqué, M., Dell'Aquila, A., Elizalde, A., Gualdi, S., Jacob, D., L'Hévéder, B., Li, L., Oddo, P., Sannino, G., Scoccimarro, E. & Sevault, F. (2012): Future projections of the surface heat and water budgets of the Mediterranean Sea in an ensemble of coupled atmosphere-ocean regional climate models, *Climate Dynamics*, vol. 39, no. 7-8, pp. 1859-1884. DOI: 10.1007/s00382-011-1261-4 (Received: 20 June 2011 / Accepted: 1 December 2011 / Published online: 23 December 2011. Published Oct 2012) IF 4.602
4. Hoyos, I., Baquero-Bernal, A., Jacob, D. and Rodríguez, B.A. (2012): Variability of extreme events in the Colombian Pacific and Caribbean catchment basins, *Climate Dynamics*, pp. 1-19. online-first, DOI: 10.1007/s00382-012-1487-9 in press (Received: 9 February 2012 / Accepted: 7 August 2012) IF 4.602
5. Hueging, H., Haas, R., Born, K, Jacob, D. and Pinto, J.(2012): Regional changes in wind energy potential over Europe using regional climate model ensemble projections. *J. Appl. Meteor. Climatol. Journal of Applied Meteorology and Climatology* 2012 ; e-View doi: <http://dx.doi.org/10.1175/JAMC-D-12-086.1> IF 1.799
6. Jacob, D., Elizalde, A., Haensler, A., Hagemann, S., Kumar, P., Podzun, R., Rechid, D., Remedio, A.R., Saeed, F., Sieck, K., Teichmann, C., and Wilhelm, C. (2012): Assessing the Transferability of the Regional Climate Model REMO to Different COordinated Regional Climate Downscaling EXperiment (CORDEX) Regions. *Atmosphere* 2012, 3(1), 181-199; doi:10.3390/atmos3010181 Scopus
7. Kotlarski, S., Hagemann, S., Krahe, P., Podzun, R. and Jacob, D. (2012): The Elbe river flooding 2002 as seen by an extended regional climate model, *Journal of Hydrology*, vol. 472-473, pp. 169-183, online first, DOI: 10.1016/j.jhydrol.2012.09.020. (Received 25 November 2011, Received in revised form 7 June 2012, Accepted 8 September 2012, Available online 23 September 2012) IF 2.656
8. Kumar, R., Naja, M., Pfister, G. G., Barth, M. C., Brasseur, G. P.: Simulations over South Asia using the Weather Research and Forecasting model with Chemistry (WRF-Chem): set-up and meteorological evaluation. *Geosci. Model Dev.*, 5, 321-343, 2012 IF 3.237
9. Markantonis V., V. Meyer, R. Schwarze: Valuating the intangible effects of natural hazards – review and analysis of the costing methods. *Natural Hazards Earth Syst. Sci.*; 12, 1366-1640, 2012 IF 1.983
10. Mathison, C., Wiltshire, A., Dimri, A.P., Falloon, P., Jacob, D., Kumar, P., Moors, E., Ridley, J., Siderius, C., Stoffel, M. and Yasunari, T. (2012): Regional projections of North Indian climate for adaptation studies, *Science of the Total Environment*, . DOI: 10.1016/j.scitotenv.2012.04.066 in press (Received 6 March 2012, Received in revised form 25 April 2012, Accepted 25 April 2012, Available online xxxx) IF 3.286
11. Nikulin G., and Coauthors (amongst others A. Hänsler), 2012: Precipitation Climatology in an Ensemble of CORDEX-Africa Regional Climate Simulations. *J. Climate*, 25, 6057–6078. doi: <http://dx.doi.org/10.1175/JCLI-D-11-00375.1> IF 4.097

HZG-Publikationsliste 2012
ISI-gelistete und veröffentlichte Publikationen

12. Ordóñez, C., J.-F. Lamarque, S. Tilmes, D. E. Kinnison, E. L. Atlas, D. R. Blake, G. Sousa Santos, G. Brasseur, A. Saiz-Lopez: Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources. *Atmos. Chem. Phys.* 12, 1423-1447, 2012 IF 5.520
13. Raschky, P.A., Schwarze, R., Schwindt, M., Zahn, F.: Uncertainty of Governmental Relief and the Crowding out of Flood Insurance. *Environmental and Resource Economics*. 2012 IF 1.523
14. Saeed F., S. Hagemann, S. Saeed, D. Jacob: Influence of mid-latitude circulation on upper Indus basin precipitation: the explicit role of irrigation. *Climate Dynamics*. 2012 IF 4.602
15. Saiz-Lopez, A., Lamarque, J.-F., Kinnison, D. E., Tilmes, S., Ordóñez, C., Orlando, J. J., Conley, A. J., Plane, J. M. C., Mahajan, A. S., Sousa Santos, G., Atlas, E. L., Blake, D. R., Sander, S. P., Schauffler, S., Thompson, A. M., Brasseur, G.: Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. *Atmos. Chem. Phys.* 12, 3939-3949, 2012 IF 5.520
16. Schwarze, R.: Insurance Law and Economics Research for Natural Hazard Management in a Changing Climate. *The Geneva Papers*. 37, 201-205, 2012 IF 0.533
17. Schwerdtner Máñez K., S. Husain, S. C.A. Ferse, M. Máñez Costa: Water scarcity in the Spermonde Archipelago, Sulawesi, Indonesia: Past, present and future. *Environmental Science & Policy*. 23, 74-84, 2012 IF 3.024
18. Weber, T. and J. Quaas, 2012: Incorporating the subgrid-scale variability of clouds in the autoconversion parameterization using a PDF-scheme, *J. Adv. Model. Earth Syst.*, 4, M11003, doi:10.1029/2012MS000156 Scopus