

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

AEM

Topic 1

1. Appel, F.; Heckel, T.K.; Christ, H.-J.: Electron microscope characterization of low cycle fatigue in a high-strength multiphase titanium aluminide alloy . In: International Journal of Fatigue. Vol. 32 (2010) 5, 792 - 798. (DOI: 10.1016/j.ijfatigue.2009.04.001) IF 1.602
2. Bauer, A.; Neumeier, S.; Pyczak, F.; Goeken, M.: Microstructure and creep strength of different Gamma/Gamma'-strengthened Co-base superalloy variants. In: Scripta Materialia. Vol. 63 (2010) 12, 1197 - 1200. (DOI: 10.1016/j.scriptamat.2010.08.036) IF 2.949
3. Blawert, C.; Fechner, D.; Hoeche, D.; Heitmann, V.; Dietzel, W.; Kainer, K.U.; Zivanovic, P.; Scharf, C.; Ditze, A.; Groebner, J.; Schmid-Fetzer, R.: Magnesium secondary alloys: Alloy design for magnesium alloys with improved tolerance limits against impurities. In: Corrosion Science. Vol. 52 (2010) 7, 2452 - 2468. (DOI: 10.1016/j.corsci.2010.03.035) IF 2.316
4. Bohlen, J.; Yi, S.B.; Letzig, D.; Kainer, K.U.: Effect of rare earth elements on the microstructure and texture development in magnesium-manganese alloys during extrusion. Materials Science and Engineering A. Vol. 527 (2010) 26, 7092-7098. (DOI: 10.1016/j.msea.2010.07.081) IF 1.901
5. Bystrzanowski, S.; Bartels, A.; Stark, A.; Gerling, R.; Schimansky, F.-P.; Clemens, H.: Evolution of microstructure and texture in Ti-46Al-9Nb sheet material during tensile flow at elevated temperatures. In: Intermetallics. Vol. 18 (2010) 5, 1046 - 1055. (DOI: 10.1016/j.intermet.2010.01.036) IF 2.231
6. da Conceicao, T.F.; Scharnagl, N.; Dietzel, W.; Kainer, K.U.: Corrosion Protection of Magnesium alloy AZ31 Sheets by Spin Coating Process with Poly(ether imide) [PEI]. In: Corrosion Science. Vol. 52 (2010) 6, 2066 - 2079. (DOI: 10.1016/j.corsci.2010.02.027) IF 2.316
7. da Conceicao, T.F.; Scharnagl, N.; Blawert, C.; Dietzel, W.; Kainer, K.U.: Surface modification of magnesium alloy AZ31 by hydrofluoric acid treatment and its effect on the corrosion behaviour. In: Thin Solid Films. Vol. 518 (2010) 5209 - 5218. (DOI: 10.1016/j.tsf.2010.04.114) IF 1.727
8. da Conceicao, T.F.; Scharnagl, N.; Dietzel, W.; Kainer, K.U.: On the degradation mechanisms of corrosion protective poly(ether imide) coatings on magnesium AZ31 alloy. In: Corrosion Science. Vol. 52 (2010) 10, 3155-3157. (DOI: 10.1016/j.corsci.2010.06.008) IF 2.316
9. Dietzel, W.; Pfuff, M.; Winzer, N.: Testing and Mesoscale Modelling of Hydrogen Assisted Cracking of Magnesium. In: Engineering Fracture Mechanics. Vol. 77 (2010) 2, 257 - 263. (DOI: 10.1016/j.engfracmech.2009.07.009) IF 1.447
10. Ferri, O.M.; Ebel, T.; Bormann, R.: Influence of Surface Quality and Porosity on Fatigue Behaviour of Ti-6Al-4 V Components Processed by MIM. In: Materials Science and Engineering A. Vol. 527 (2010) 7-8, 1800 - 1805. (DOI: 10.1016/j.msea.2009.11.007) IF 1.901

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

11. Feyerabend, F.; Fischer, J.; Holtz, J.; Witte, F.; Willumeit, R.; Druecker, H.; Vogt, C.; Hort, N.: Evaluation of short-term effects of rare earth and other elements used in magnesium alloys on primary cells and cell lines. In: *Acta Biomaterialia*. Vol. 6 (2010) 5, 1834 - 1842. (DOI: 10.1016/j.actbio.2009.09.024) IF 3.975
12. Fischer, J.; Prosenc, M.H.; Wolff, M.; Hort, N.; Willumeit, R.; Feyerabend, F.: Interference of magnesium corrosion with tetrazolium-based cytotoxicity assays. In: *Acta Biomaterialia*. Vol. 6 (2010) 5, 1813 - 1823. (DOI: 10.1016/j.actbio.2009.10.020) IF 3.975
13. Gabrisch, H.; Yazami, R.: Electron Diffraction Studies of LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ After Charge-Discharge Cycling. In: *Electrochemical and Solid State Letters*. Vol. 13 (2010) 7, A88 - A90. (DOI: 10.1149/1.3424884) IF 1.837
14. Ghasemi, A.; Raja, V.S.; Blawert, C.; Dietzel, W.; Kainer, K.U.: The role of anions in the formation and corrosion resistance of the plasma electrolytic oxidation coatings. In: *Surface & Coatings Technology*. Vol. 204 (2010) 9-10, 1469 - 1478. (DOI: 10.1016/j.surfcoat.2009.09.069) IF 1.793
15. Ghasemi, A.; Scharnagl, N.; Blawert, C.; Dietzel, W.; Kainer, K.U.: Influence of electrolyte constituents on corrosion behaviour of PEO coatings on magnesium alloys. In: *Surface Engineering*. Vol. 26 (2010) 5, 321 - 327. (DOI: 10.1179/026708408X344671) IF 0.432
16. Hantzsche, K.; Bohlen, J.; Wendt, J.; Kainer, K.U.; Yi, S.B.; Letzig, D.: Effect of rare earth additions on microstructure and texture development of magnesium alloy sheets. In: *Scripta Materialia*. Vol. 63 (2010) 7, 725 - 730. (DOI: 10.1016/j.scriptamat.2009.12.033) IF 2.949
17. Hort, N.; Huang, Y.; Fechner, D.; Stoermer, M.; Blawert, C.; Witte, F.; Vogt, C.; Druecker, H.; Willumeit, R.; Kainer, K.U.; Feyerabend, F.: Magnesium alloys as implant materials – Principles of property design for Mg–RE alloys. In: *Acta Biomaterialia*. Vol. 6 (2010) 5, 1714 - 1725. (DOI: 10.1016/j.actbio.2009.09.010) IF 3.975
18. Jabbar, H.; Monchoux, J.-P.; Houdelier, F.; Dolle, M.; Schimansky, F.-P.; Pyczak, F.; Thomas, M.; Couret, A.: Microstructure and mechanical properties of high niobium containing TiAl alloys elaborated by spark plasma sintering. In: *Intermetallics*. Vol. 18 (2010) 12, 2312 - 2321. (DOI: 10.1016/j.intermet.2010.07.024) IF 2.231
19. Janecek, M.; Yi, S.B.; Kral, R.; Vratna, J.; Kainer, K.U.: Texture and microstructure evolution in ultrafine-grained AZ31 processed by EX-ECAP. *Journal of Materials Science* 45 (2010) 17, 4665-4671. (DOI: 10.1007/s10853-010-4675-1) IF 1.471
20. Liang, J.; Srinivasan, P.B.; Blawert, C.; Dietzel, W.: Influence of pH on the deterioration of plasma electrolytic oxidation coated AM50 magnesium alloy in NaCl solutions. In: *Corrosion Science*. Vol. 52 (2010) 2, 540 - 547. (DOI: 10.1016/j.corsci.2009.10.011) IF 2.316
21. Liang, J.; Srinivasan, P.B.; Blawert, C.; Dietzel, W.: Influence of chloride ion concentration on the electrochemical corrosion behaviour of plasma electrolytic oxidation coated AM50 magnesium alloy. In: *Electrochimica Acta*. Vol. 55 (2010) 22, 6802 - 6811. (DOI: 10.1016/j.electacta.2010.05.087) IF 3.325
22. Maji, P.; Takas, N.J.; Misra, D.K.; Gabrisch, H.; Stokes, K.; Poudeu, P.F.P.: Effects of Rh on the thermoelectric performance of the p-type Zr_{0.5}Hf_{0.5}Co_{1-x}Rh_xSb_{0.99}Sn_{0.01} half-Heusler alloys. In: *Journal of Solid State Chemistry*. Vol. 183 (2010) 5, 1120 - 1126. (DOI: 10.1016/j.jssc.2010.03.023) IF 2.340

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

23. Mondal, A.K.; Fechner, D.; Kumar, S.; Dieringa, H.; Maier, P.; Kainer, K.U.: Interrupted creep behaviour of Mg alloys developed for powertrain applications. In: *Materials Science and Engineering A*. Vol. 527 (2010) 9, 2289 - 2296. (DOI: 10.1016/j.msea.2009.12.010) IF 1.901
24. Nwaogu, U.C.; Blawert, C.; Scharnagl, N.; Dietzel, W.; Kainer, K.U.: Effects of organic acid pickling on the corrosion resistance of magnesium alloy AZ31 sheet. In: *Corrosion Science*. Vol. 52 (2010) 6, 2143 - 2154. (DOI: 10.1016/j.corsci.2010.03.002) IF 2.316
25. Obasi, C.G.; ferry, O.M.; Ebel, T.; Bormann, R.: Influence of processing parameters on mechanical properties of Ti-6Al-4V alloy fabricated by MIM. In: *Materials Science and Engineering A*. Vol. 527 (2010) 16-17, 3929 - 3935. (DOI: 10.1016/j.msea.2010.02.070) IF 1.901
26. Peng, Q.; Huang, Y.; Zhou, L.; Hort, N.; Kainer, K.U.: Preparation and properties of high purity Mg-Y biomaterials. In: *Biomaterials*. Vol. 31 (2010) 3, 398 - 403. (DOI: 10.1016/j.biomaterials.2009.09.065) IF 7.365
27. Pokorny, M.G.; Monroe, C.A.; Beckermann, C.; Zhen, Z.; Hort, N.: Simulation of Stresses during Casting of Binary Magnesium-Aluminum Alloys. In: *Metallurgical and Materials Transactions A*. Vol. 41 (2010) 12, 3196 - 3207. (DOI: 10.1007/s11661-010-0367-3) IF 1.564
28. Prasad, Y.V.R.K.; Rao, K.P.; Hort, N.; Kainer, K.U.: Effect of thermal and mechanical treatments on the hot working response of Mg-3Sn-1Ca alloy. In: *International Journal of Materials Research*. Vol. 101 (2010) 2, 300 - 306. (DOI: 10.3139/146.110269) IF 0.862
29. Pyczak, F.; Neumeier, S.; Goeken, M.: Temperature Dependence of Element Partitioning in Rhenium and Ruthenium Bearing Nickel-Base Superalloys. In: *Materials Science and Engineering A*. Vol. 527 (2010) 29-30, 7939 - 7943. (DOI: 10.1016/j.msea.2010.08.091) IF 1.901
30. Schreckenberger, H.; Izquierdo, P.; Klose, S.G.; Blawert, C.; Heitmann, V.; Hoeche, D.; Kainer, K.U.: Vermeidung von Bimetallkorrosion – Systematische Entwicklung eines Magnesium Karosseriebauteils - Preventing galvanic corrosion – Systematic development of a magnesium car body component. In: *Materialwissenschaft und Werkstofftechnik*. Vol. 41 (2010) 10, 853 - 860. (DOI: 10.1002/mawe.201000676) IF 0.365
31. Srinivasan, P.B.; Arora, K.S.; Dietzel, W.; Pandey, S.; Schaper, M.K.: Characterisation of microstructure, mechanical properties and corrosion behaviour of an AA2219 friction stir weldment. In: *Journal of Alloys and Compounds*. Vol. 492 (2010) 1-2, 631 - 637. (DOI: 10.1016/j.jallcom.2009.11.198) IF 2.135
32. Srinivasan, P.B.; Blawert, C.; Stoermer, M.; Dietzel, W.: Characterisation of tribological and corrosion behaviour of plasma electrolytic oxidation coated AM50 magnesium alloy. In: *Surface Engineering*. Vol. 26 (2010) 5, 340 - 346. (DOI: 10.1179/174329409X379246) IF 0.432
33. Srinivasan, P.B.; Liang, J.; Balajee, R.; Blawert, C.; Stoermer, M.; Dietzel, W.: Effect of pulse frequency on the microstructure, phase composition and corrosion performance of a phosphate-based plasma electrolytic oxidation coated AM50 magnesium alloy. In: *Applied Surface Science*. Vol. 256 (2010) 12, 3928 - 3935. (DOI: 10.1016/j.apsusc.2010.01.052) IF 1.616
34. Srinivasan, P.B.; Liang, J.; Blawert, C.; Dietzel, W.: Dry sliding wear behaviour of magnesium oxide and zirconium oxide plasma electrolytic oxidation coated magnesium alloy . In: *Applied Surface Science*. Vol. 256 (2010) 10, 3265 - 3273. (DOI: 10.1016/j.apsusc.2009.12.017) IF 1.616
35. Srinivasan, P.B.; Liang, J.; Blawert, C.; Stoermer, M.; Dietzel, W.: A preliminary study of calcium containing plasma electrolytic oxidation coatings on AM50 magnesium alloy. In: *Journal of Materials Science*. Vol. 45 (2010) 5, 1406 - 1410. (DOI: 10.1007/s10853-009-4093-4) IF 1.471

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

36. Srinivasan, P.B.; Liang, J.; Blawert, C.; Stoermer, M.; Dietzel, W.: Development of decorative and corrosion resistant plasma electrolytic oxidation coatings on AM50 magnesium alloy. In: *Surface Engineering*. Vol. 26 (2010) 5, 367-370. (DOI: 10.1179/174329409X451155) IF 0.432
37. Srinivasan, P.B.; Liang, J.; Blawert, C.; Stoermer, M.; Dietzel, W.: Characterization of calcium containing plasma electrolytic oxidation coatings on AM50 magnesium alloy. In: *Applied Surface Science*. Vol. 256 (2010) 12, 4017 - 4022. (DOI: 10.1016/j.apsusc.2010.01.069) IF 1.616
38. Srinivasan, P.B.; Scharnagl, N.; Blawert, C.; Dietzel, W.: Enhanced corrosion protection of AZ31 magnesium alloy by duplex plasma electrolytic oxidation and polymer coatings. In: *Surface Engineering*. Vol. 26 (2010) 5, 354 - 360. (DOI: 10.1179/174329409X409314) IF 0.432
39. Ulacia, I.; Dudamell, N.V.; Galvez, F.; Yi, S.; Perez-Prado, M.-T.; Hurtado, I.: Mechanical behavior and microstructural evolution of a Mg AZ31 sheet at dynamic strain rates. In: *Acta Materialia* . Vol. 58 (2010) 8, 2988 - 2998. (DOI: 10.1016/j.actamat.2010.01.029) IF 3.760
40. Wolff, M.; Ebel, T.; Dahms, M.: Sintering of magnesium. In: *Advanced Engineering Materials*. Vol. 12 (2010) 9, 829-836. (DOI: 10.1002/adem.201000038) IF 1.761
41. Weidner, A.; Amberger, D.; Pyczak, F.; Schoenbauer, B.; Stanzi-Tschegg, S.; Mughrabi, H.: Fatigue damage in copper polycrystals subjected to ultrahigh-cycle fatigue below the PSB threshold . In: *International Journal of Fatigue*. Vol. 32 (2010) 6, 872 - 878. (DOI: 10.1016/j.ijfatigue.2009.04.004) IF 1.602
42. Yi, S.; Bohlen, J.; Heinemann, F.; Letzig, D.: Mechanical anisotropy and deep drawing behaviour of AZ31 and ZE10 magnesium alloy sheets. In: *Acta Materialia* . Vol. 58 (2010) 2, 592 - 605. (DOI: 10.1016/j.actamat.2009.09.038) IF 3.760
43. Yi, S.; Brokmeier, H.-G.; Letzig, D.: Microstructural evolution during the annealing of an extruded AZ31 magnesium alloy. In: *Journal of Alloys and Compounds*. Vol. 506 (2010) 1, 364 - 371. (DOI: 10.1016/j.jallcom.2010.07.008) IF 2.135
44. Zeng, R.; Han, E.; Ke, W.; Dietzel, W.; Kainer, K.U.; Atrens, A.: Influence of microstructure on tensile properties and fatigue crack growth in extruded magnesium alloy AM60. In: *International Journal of Fatigue*. Vol. 32 (2010) 2, 411 - 419. (DOI: 10.1016/j.ijfatigue.2009.07.021) IF 1.602

Topic 2

45. Arnold, A.; Reichling, S.; Bruhns, O.T.; Mosler, J.: Efficient computation of the elastography inverse problem by combining variational mesh adaption and a clustering technique. In: *Physics in Medicine and Biology*. Vol. 55 (2010) 7, 2035. (DOI: 10.1088/0031-9155/55/7/016) IF 2.781
46. Boyce, B.L.; Lilleodden, E.T.; Li, X.: Guest Editorial: Emerging Methods in Mechanical Behavior. In: *Experimental Mechanics*. Vol. 50 (2010) 1, 3. (DOI: 10.1007/s11340-009-9279-9) IF 1.542
47. Brocks, W.; Anuschewski, P.; Scheider, I.: Ductile Tearing Resistance of Metal Sheets. In: *Engineering Failure Analysis*. Vol. 17 (2010) 3, 607 - 616. (DOI: 10.1016/j.engfailanal.2009.03.021) IF 0.945
48. Ertuerk, S.; Steglich, D.; Bohlen, J.; Letzig, D.; Brocks, W.: Modelling of thermo-mechanical Behaviour of Magnesium Alloys during Indirect Extrusion. In: *Key Engineering Materials, Advances on Hot Extrusion and Simulation of Light Alloys*. Vol. 424 (2010) 167 - 171. (DOI: 10.4028/www.scientific.net/KEM.424.167) gel. Proceeding

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

49. Falkenberg, R.; Brocks, W.; Dietzel, W.; Scheider, I.: Modelling the effect of hydrogen on ductile tearing resistance of steels. In: International Journal of Materials Research. Vol. 101 (2010) 8, 989 - 996. (DOI: 10.3139/146.110368) IF 0.862
50. Hegadekatte, V.; Hilgert, J.; Kraft, O.; Huber, N.: Multi time scale simulations for wear prediction in micro-gears. In: Wear . Vol. 268 (2010) 1-2, 316 - 324. (DOI: 10.1016/j.wear.2009.08.017) IF 1.771
51. Khan, S.; Vyshnevskyy, A.; Mosler, J.: Low cycle lifetime assessment of Al2024 alloy . In: International Journal of Fatigue. Vol. 32 (2010) 8, 1270 - 1277. (DOI: 10.1016/j.ijfatigue.2010.01.014) IF 1.602
52. Kintzel, O.; Khan, S.; Mosler, J.: A novel isotropic quasi-brittle damage model applied to LCF analyses of Al2024. In: International Journal of Fatigue. Vol. 32 (2010) 12, 1948 - 1959. (DOI: 10.1016/j.ijfatigue.2010.07.001) IF 1.602
53. Lilleodden, E.: Microcompression study of Mg (0 0 0 1) single crystal . In: Scripta Materialia. Vol. 62 (2010) 8, 532 - 535. (DOI: 10.1016/j.scriptamat.2009.12.048) IF 2.949
54. Lima, T.R.S., Martins, C.O.D, Reguly, A. and dos Santos, J.F.: An investigation on the application of a non-destructive optical strain measurement system to fracture toughness testing, Insight, Volume: 52, Issue: 5, May 2010, 255-261. IF 0.434
55. Mosler, J.; Bruhns, O.T.: On the implementation of rate-independent standard dissipative solids at finite strain – Variational constitutive updates. In: Computer Methods in Applied Mechanics and Engineering. Vol. 199 (2010) 9-12, 417 - 429. (DOI: 10.1016/j.cma.2009.07.006) IF 1.806
56. Oliveira, P.H.F.; Amancio-Filho, S.T.; dos Santos, J.F.; Hage, E.jr.: Preliminary study on the feasibility of friction spot welding in PMMA. In: Materials Letters. Vol. 64 (2010) 19, 2098 - 2101. (DOI: 10.1016/j.matlet.2010.06.050) IF 1.940
57. Rao, J., Payton, E.J., Somsen, C., Neuking, K., Eggeler, A., Kostka, A., dos Santo, J.F., Where Does the Lithium Go? A Study of the Precipitates in the Stir Zone of a Friction Stir Weld in a Li-containing 2xxx series Al Alloy, Advanced Engineering Materials 2010, 12, No. 4 IF 1.761
58. Simoes, S.; Viana, F.; Ventzke, V.; Kocak, M.; Ramos, A.S.; Vieira, M.T.; Vieira, M.F.: Diffusion bonding of TiAl using Ni/Al multilayers . In: Journal of Materials Science. Vol. 45 (2010) 16, 4351 - 4357. (DOI: 10.1007/s10853-010-4303-0) IF 1.471
59. Steglich, D.; Wafai, H.; Besson, J.: Interaction between anisotropic plastic deformation and damage evolution in Al 2198 sheet metal. In: Engineering Fracture Mechanics. Vol. 77 (2010) 17, 3501 - 3518. (DOI: 10.1016/j.engfracmech.2010.08.021) IF 1.447
60. Steglich, D.; Wafai, H.; Brocks, W.: Anisotropic Deformation and Damage in Aluminium 2198 T8 Sheets. In: International Journal of Damage Mechanics. Vol. 19 (2010) 2, 131 - 152. (DOI: 10.1177/1056789508101916) IF 1.300
61. Steiner, L.; Bouvier, V.; May, U.; Hegadekatte, V.; Huber, N.: Modelling of unlubricated oscillating sliding wear of DLC-coatings considering surface topography, oxidation and graphitisation. In: Wear . Vol. 268 (2010) 9-10, 1184 - 1194. (DOI: 10.1016/j.wear.2009.12.026) IF 1.771
62. Steiner, L.; Bouvier, V.; May, U.; Huber, N.: Simulation of friction and wear in DLC/steel contacts for different loading histories and geometries: Ball-on-plate configuration and piston–cylinder-contacts. In: Tribology International. Vol. 43 (2010) 8, 1410 - 1416. (DOI: 10.1016/j.triboint.2010.01.012) IF 1.690
63. Vaidya, M.V.; Horstmann, M.; Angamuthu, K.; Kocak, M.: Parameterabhaengige Varianz im mittleren Bereich der Ermuedungsrissoausbreitung einer Al-Legierung AA6056-T6 - Parametric (non)-variance of

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

- the mid-regime fatigue crack propagation in an aluminium alloy AA6056-T6. In: MP Materials Testing. Vol. 52 (2010) 5, 300 - 305. (DOI: sting.de/directlink.asp?MP110133) IF 0.224
64. Vaidya, W.V.; Horstmann, M.; Angamuthu, K.; Kocak, M.: Anwendung der maximalen Rissoeffnungsverschiebungswerte fuer die indirekte Risslaengenmessung bei der Ermuedungsrisssausbreitung an mittig angerissenen Zugproben der luftfahrtspezifischen Aluminiumlegierung AA6056 - Utilizing CODmax as an indirect fatigue crack length measurement parameter for M(T) specimens of an aerospace aluminium alloy AA6056. In: MP Materials Testing. Vol. 52 (2010) 11-12, 771 - 777. (DOI: ltesting.de/directlink.asp?MP110185) IF 0.224
65. Vaidya, W.V.; Horstmann, M.; Ventzke, V.; Petrovski, B.; Kocak, M.; Kocik, R.; Tempus, G.: Improving interfacial properties of a laser beam welded dissimilar joint of aluminium AA6056 and titanium Ti6Al4V for aeronautical applications. In: Journal of Materials Science. Vol. 45 (2010) 22, 6242 - 6254. (DOI: [10.1007/s10853-010-4719-6](https://doi.org/10.1007/s10853-010-4719-6)) IF 1.471
66. Ventzke, V.; Brokmeier, H.-G.; Merhof, P.; Kocak, M.: Microstructural characterization of friction welded TiAl-Ti6Al4V hybrid joints. In: Solid State Phenomena, Texture and Anisotropy of Polycrystals III. Vol. 160 (2010) 319 - 326. (DOI: [10.4028/www.scientific.net/SSP.160.319](https://doi.org/10.4028/www.scientific.net/SSP.160.319))
gel. Proceedings
67. Vyshnevskyy, A.; Khan, S.; Mosler, J.: An Investigation on Low Cycle Lifetime of Al2024 Alloy. In: Key Engineering Materials, Advances in Fracture and Damage Mechanics VIII. Vol. 417-418 (2010) 289 - 292. (DOI: [10.4028/www.scientific.net/KEM.417-418.289](https://doi.org/10.4028/www.scientific.net/KEM.417-418.289))
gel. Proceedings

Topic 3

68. Albuerne, J.; Boschetti de Fierro, A.; Abetz, V.: Modification of multiwall carbon nanotubes by grafting from controlled polymerization of styrene: Effect of the characteristics of the nanotubes. In: Journal of Polymer Science B. Vol. 48 (2010) 10, 1035 - 1046. (DOI: [10.1002/polb.21992](https://doi.org/10.1002/polb.21992)) IF 1.586
69. Beyene, H.T.; Chakravadhanula, V.S.K.; Hanisch, C.; Elbahri, M.; Strunskus, T.; Zaporozhchenko, V.; Kienle, L.; Faupel, F.: Preparation and plasmonic properties of polymer-based composites containing Ag-Au alloy nanoparticles produced by vapor phase co-deposition. In: Journal of Materials Science. Vol. 45 (2010) 21, 5865 - 5871. (DOI: [10.1007/s10853-010-4663-5](https://doi.org/10.1007/s10853-010-4663-5)) IF 1.471
70. Boesenberg, U.; Kim, J.W.; Gosslar, D.; Eigen, N.; Jensen, T.R.; Bellosta von Colbe, J.M.; Zhou, Y.; Dahms, M.; Kim, D.H.; Guenther, R.; Cho, Y.W.; Oh, K.H.; Klassen, T.; Bormann, R.; Dornheim, M.: Role of Additives in LiBH₄-MgH₂ Reactive Hydride Composite sorption reactions; in Acta Materialia, Vol. 58 (2010), 9, 3381 - 3389 IF 3.760
71. Boesenberg, U.; Ravnsbaek, D.B.; Hagemann, H.; D'Anna, V.; Minalla, C.B.; Pistidda, C.; Beek, W.van; Jensen, T.R.; Bormann, R.; Dornheim, M.: Pressure and Temperature Influence on the Desorption Pathway of the LiBH₄-MgH₂ Composite System. In: The Journal of Physical Chemistry C. Vol. 114 (2010) 35, 15212 - 15217. DOI: [10.1021/jp104814u](https://doi.org/10.1021/jp104814u) IF 4.224
72. Czaperek, M.; Zapp, P.; Bouwmeester, H.J.M.; Modigell, M.; Ebert, K.; Voigt, I.; Meulenberg, W.A.; Singheiser, L.; Stoeber, D.: Gas separation membranes for zero-emission fossil power plants: MEM-BRAIN. In: Journal of Membrane Science. Vol. 359 (2010) 1-2, 149 - 159. (DOI: [10.1016/j.memsci.2010.04.012](https://doi.org/10.1016/j.memsci.2010.04.012)) IF 3.203
73. Deprez E., Muñoz-Marquez Miguel A., Roldan Manuel A., Prestipino C., Palomares F. Javier, Bonatto Minella C., Bösenberg U., Dornheim M., Bormann R., Fernandez A., "Oxidation State and Local

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

- Structure of Ti-Based Additives in the Reactive Hydride Composite 2LiBH₄ + MgH₂"; J. Phys. Chem. C 114 (2010) 3309. IF 4.224
74. Deprez, E.; Justo, A.; Rojas, T.C.; Lopez-Cartes, C.; Bonatto Minella, C.; Boesenberg, U.; Dornheim, M.; Bormann, R.; Fernandez, A.: Microstructural study of the LiBH₄-MgH₂ reactive hydride composite with and without Ti-isopropoxide additive. In: Acta Materialia . Vol. 58 (2010) 17, 5683 - 5694. (DOI: 10.1016/j.actamat.2010.06.043) IF 3.760
75. Emmeler, T.; Heinrich, K.; Fritsch, D.; Budd, P.M.; Chaukura, N.; Ehlers, D.; Raetzke, K.; Faupel, F.: Free Volume Investigation of Polymers of Intrinsic Microporosity (PIMs): PIM-1 and PIM1 Copolymers Incorporating Ethanoanthracene Units. In: Macromolecules. Vol. 43 (2010) 14, 6075 - 6084. (DOI: 10.1021/ma1008786) IF 4.539
76. Erukhimovich, I.Y.; Belousov, M.V.; Govorun, E.N.; Abetz, V.; Tamm, M.V.: Non-Centrosymmetric Lamellar Structures in the Associating Blends of Tri- and Diblock Copolymers. In: Macromolecules. Vol. 43 (2010) 7, 3465 - 3478. (DOI: 10.1021/ma9023735) IF 4.539
77. Faupel, F.; Zaporojtchenko, V.; Strunskus, T.; Elbahri, M.: Metal-Polymer Nanocomposites for Functional Applications. In: Advanced Engineering Materials. Vol. 12 (2010) 12, 1177 - 1190. (DOI: 10.1002/adem.201000231) IF 1.761
78. Garaleh, M.; Yashiro, T.; Kricheldorf, H.R.; Simon, P.; Chatti, S.: (Co-)Polyesters Derived from Isosorbide and 1,4-Cyclohexane Dicarboxylic Acid and Succinic Acid. In: Macromolecular Chemistry and Physics. Vol. 211 (2010) 11, 1206 - 1214. (DOI: 10.1002/macp.200900656) IF 2.570
79. Garroni S., Milanese C. , Girella A., Marini A., Mulas G., Menéndez E., Pistidda C., Dornheim M. , Suriñach S., Baró M.D., "Sorptions properties of NaBH₄/MH₂ (M = Mg, Ti) powder systems", International Journal of Hydrogen Energy, 35, 11, (2010), 5434-5441. IF 3.945
80. Gedamu, D.; Jebri, S.; Schuchardt, A.; Elbahri, M.; Wille, S.; Mishra, Y.K.; Adelung, R.: Examples for the integration of self-organized nanowires for functional devices by a fracture approach. In: Physica Status Solidi B. Vol. 247 (2010) 10, 2571 - 2580. (DOI: 10.1002/pssb.201046199) IF 1.150
81. Goslawit-Utke, R.; Bellosta von Colbe, J.M.; Dornheim, M.; Jensen, T.R.; Cerenius, Y.; Bonatto Minella, C.; Peschke, M.; Bormann, R.: LiF-MgB₂ System for Reversible Hydrogen Storage. In: The Journal of Physical Chemistry C. Vol. 114 (2010) 22, 10291 - 10296. (DOI: 10.1021/jp910266m) IF 4.224
82. Homaeigohar, S.S.; Buhr, K.; Ebert, K.: Polyethersulfone electrospun nanofibrous composite membrane for liquid filtration. In: Journal of Membrane Science. Vol. 365 (2010) 1-2, 68 - 77. (DOI: 10.1016/j.memsci.2010.08.041) IF 3.203
83. Kopinke, F.-D.; Angeles-Wedler, D.; Fritsch, D.; Mackenzie, K.: Pd-Catalyzed Hydrodechlorination of Chlorinated Aromatics in Contaminated Waters - Effects of Surfactants, Organic Matter and Catalyst Protection by Silicone Coating. In: Journal of Applied Catalysis B. Vol. 96 (2010) 3-4, 323 - 328. (DOI: 10.1016/j.apcatb.2010.02.028) IF 5.252
84. Lahcini, M.; Qayouh, H.; Yashiro, T.; Simon, P.F.W.; Kricheldorf, H.R.: Syntheses of Poly(butylene succinate) by Means of Non-Toxic Catalysts. In: Journal of Macromolecular Science A. Vol. 47 (2010) 6, 503 - 509. (DOI: [10.1080/10601321003741875](https://doi.org/10.1080/10601321003741875)) IF 0.792
85. Loos, M.R.; Abetz, V.; Schulte, K.: Dissolution of MWCNTs by using polyoxadiazoles, and highly effective reinforcement of their composite films. In: Journal of Polymer Science A. Vol. 48 (2010) 22, 5172 - 5179. (DOI: [10.1002/pola.24315](https://doi.org/10.1002/pola.24315)) IF 3.971

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

86. Lozano, G.A.; Na Ranong, C.; Bellostá von Colbe, J.M.; Bormann, R.; Fieg, G.; Hapke, J.; Dornheim, M.: Empirical kinetic model of sodium alanate reacting system (I). Hydrogen absorption. In: International Journal of Hydrogen Energy. Vol. 35 (2010) 13, 6763 - 6772. (DOI: [10.1016/j.ijhydene.2010.04.080](https://doi.org/10.1016/j.ijhydene.2010.04.080)) IF 3.945
87. Lozano, G.A.; Na Ranong, C.; Bellostá von Colbe, J.M.; Bormann, R.; Fieg, G.; Hapke, J.; Dornheim, M.: Empirical kinetic model of sodium alanate reacting system (II). Hydrogen desorption. In: International Journal of Hydrogen Energy. Vol. 35 (2010) 14, 7539 - 7546. (DOI: [10.1016/j.ijhydene.2010.04.142](https://doi.org/10.1016/j.ijhydene.2010.04.142)) IF 3.945
88. Maab, H.; Pereira Nunes, S.: Modified SPEEK membranes for direct ethanol fuel cell. In: Journal of Power Sources. Vol. 195 (2010) 13, 4036 - 4042. (DOI: [10.1016/j.jpowsour.2010.01.005](https://doi.org/10.1016/j.jpowsour.2010.01.005)) IF 3.792
89. Miletic, N.; Abetz, V.; Ebert, K.; Loos, K.: Immobilization of Candida antarctica lipase B on Polystyrene Nanoparticles. In: Macromolecular Rapid Communications. Vol. 31 (2010) 1, 71 - 74. (DOI: [10.1002/marc.200900497](https://doi.org/10.1002/marc.200900497)) IF 4.263
90. Munirasu, S.; Albuérne, J.; Boschetti de Fierro, A.; Abetz, V.: Functionalization of Carbon Materials using Diels-Alder Reaction. In: Macromolecular Rapid Communications. Vol. 31 (2010) 6, 574 - 579. (DOI: [10.1002/marc.200900751](https://doi.org/10.1002/marc.200900751)) IF 4.263
91. Nielsen Thomas K., Bösenberg Ulrike, Gosalawit Rapee, Dornheim Martin, Cerenius Yngve, Besenbacher Flemming, Jensen Torben R., "A Reversible Nanoconfined Chemical Reaction", ACS Nano, 2010, 4 (7), pp 3903–3908, DOI: [10.1021/nn1006946](https://doi.org/10.1021/nn1006946) IF 7.493
92. Pistidda C. , Garroni S., Dolci F., Bardají E. G., Khandelwal A., Nolis P., Dornheim M. , Gosalawit R., Jensen T., Cerenius Y., Suriñach S., Baró M. D., Lohstroh W. , Fichtner M., "Synthesis of amorphous Mg(BH₄)₂ from MgB₂ and H₂ at room temperature", Journal of Alloys and Compounds, 508, (1), (2010) 212-215. IF 2.135
93. Ponce, M.L.; Roeder, J.; Gomes, D.; Pereira Nunes, S.: Stability of sulfonated polytriazole and polyoxadiazole membranes. In: Asia-Pacific Journal of Chemical Engineering. Vol. 5 (2010) 1, 235 - 241. (DOI: [10.1002/apj.370](https://doi.org/10.1002/apj.370)) IF 0.432
94. Shishatskiy, S.; Pauls, J.; Pereira Nunes, S.; Peinemann, K.-V.: Quaternary ammonium membrane materials for CO₂ separation. In: Journal of Membrane Science. Vol. 359 (2010) 1-2, 44 - 53. (DOI: [10.1016/j.memsci.2009.09.006](https://doi.org/10.1016/j.memsci.2009.09.006)) IF 3.203
95. Xu, P.; Ji, X.; Qi, J.; Yang, H.; Zheng, W.; Abetz, V.; Jiang, S.; Shen, J.: Patterned Carbon Nanotubes Fabricated by the Combination of Microcontact Printing and Diblock Copolymer Micelles . In: Journal of Nanoscience and Nanotechnology. Vol. 10 (2010) 1, 508 - 513. (DOI: [10.1166/jnn.2009.1587](https://doi.org/10.1166/jnn.2009.1587)) IF 1.435
96. Xu, P.; Ji, X.; Yang, H.; Qi, J.; Zheng, W.; Abetz, V.; Jiang, S.; Shen, J.: Controllable fabrication of carbon nanotubes on catalysts derived from PS-b-P2VP block copolymer template and in situ synthesis of carbon nanotubes/Au nanoparticles composite materials. In: Materials Chemistry and Physics. Vol. 119 (2010) 1-2, 249 - 253. (DOI: [10.1016/j.matchemphys.2009.08.062](https://doi.org/10.1016/j.matchemphys.2009.08.062)) IF 2.015
97. Yave, W.; Car, A.; Funari, S.S.; Pereira Nunes, S.; Peinemann, K.-V.: CO₂-Philic Polymer Membrane with Extremely High Separation Performance. In: Macromolecules. Vol. 43 (2010) 1, 326 - 333. (DOI: [10.1021/ma901950u](https://doi.org/10.1021/ma901950u)) IF 4.539
98. Yave, W.; Car, A.; Wind, J.; Peinemann, K.-V.: Nanometric thin film membranes manufactured on square meter scale: ultra-thin films for CO₂ capture. In: Nanotechnology. Vol. 21 (2010) 39, 395301. (DOI: [10.1088/0957-4484/21/39/395301](https://doi.org/10.1088/0957-4484/21/39/395301)) IF 3.137

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

99. Yave, W.; Szymczyk, A.; Yave, N.; Roslaniec, Z.: Design, synthesis, characterization and optimization of PTT-Beta-PEO copolymers: A new membrane material for CO₂ separation. In: Journal of Membrane Science. Vol. 362 (2010) 1-2, 407 - 416. (DOI: 10.1016/j.memsci.2010.06.060) IF 3.203

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

PNI

1. Ali, S. R.; Janjua, M. B.; Fecioru-Morariu, M.; Lott, D.; Smits, C. J. P.; Guentherodt, G.; Role of interface alloying in the exchange bias of Fe/Cr bilayers, *Physical Review B* 82 (2010), 020402. IF: 3.475
2. Almgren, M.; Garamus, V. M.; Nordstierna, L.; Blin, J.-L.; Stébé, M.-J.; Non-ideal mixed micelles of fluorinated and hydrogenous surfactants in aqueous solution. NMR and SANS studies of anionic and non-ionic systems, *Langmuir*, 26 (2010) 5355–5363. IF 3.898
3. Avdeev, M.V.; Feoktystov, A.V.; Kopcansky, P.; Lancz, G.; Garamus, V.I M.; Willumeit, R.; Timko, M.; Koneracka, M.; Zavisova, V.; Tomasovicova, N.; Jurikova, A.; Csach, K.; Bulavin, L.A.; Structure of water-based ferrofluids with sodium oleate and polyethylene glycol stabilization by small-angle neutron scattering: contrast-variation experiments, *JOURNAL OF APPLIED CRYSTALLOGRAPHY* 43 (2010), 959-969. IF 3.018
4. Avdeev, M. V.; Mucha, B.; Lamszus, K.; Vekas, L.; Garamus, V. M.; Feoktystov, A. V.; Marinica, O.; Turcu, R.; Willumeit, R.; Structure and in Vitro Biological Testing of Water-Based Ferrofluids Stabilized by Monocarboxylic Acids, *Langmuir* 26 (2010), 8503-8509. IF 3.898
5. Baranchikov, A. E.; Ivanov, V. K.; Kopitsa, G. P.; Grigoriev, S. V.; Pranzas, P. K.; Specific features of the mesostructure of amorphous iron(III) hydroxide xerogels synthesized in an ultrasonic field, *Physics of the Solid State* 52 (5) (2010), 979-984. IF 0.721
6. Beausir, B.; Scharnweber, J.; Jaschinski, J.; Brokmeier, H. -G.; Oertel, C. -G.; Skrotzki, W.; Plastic anisotropy of ultrafine grained aluminium alloys produced by accumulative roll bonding, *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 527(13-14) (2010), 3271-3278. IF 1.901
7. Belushkin, A. V.; Kichanov, S. E.; Kozlenko, D. P.; Lukin, E. V.; Savenko, B. N.; Rakhmanov, S. K.; Shevchenko, G. P.; Gurin, V. S.; Malashkevich, G. E.; Haramus, V.; Pogoreliy, D. K.; Podurets, K. M.; Investigation of the structural aspects in the formation of optical properties of the GeO₂-Eu₂O₃-Ag nanosystem, *Physics of the Solid State* 52 (7) (2010), 1366-1371. IF 0.721
8. Chakravarty, S.; Tietze, U.; Lott, D.; Horisberger, M.; Stahn, J.; Lalla, N. P.; Schmidt, H.; Self-diffusion in Magnetron-Sputtered Nanocrystalline Fe Films, *Journal of Nano Research* 11 (2010), 13-18. IF 0.571
9. Chalupsky, J.; Krzywinski, J.; Juha, L.; Hajkova, V.; Cihelka, J.; Burian, T.; Vysin, L.; Gaudin, J.; Gleeson, A.; Jurek, M.; Khorsand, A. R.; Klinger, D.; Wabnitz, H.; Sobierajski, R.; Stoermer, M.; Tiedtke, K.; Toleikis, S.; Spot size characterization of focused non-Gaussian X-ray laser beams, *OPTICS EXPRESS* 18 (26) (2010), 27836-27845 IF: 3,278
10. Chang, H.; Zheng, M.Y.; Wu, K.; Gan, W.M.; Tong, L.B.; Brokmeier, H.G.; Microstructure and mechanical properties of the accumulative roll bonded (ARBed) pure magnesium sheet; *MATERIALS SCIENCE AND ENGINEERING A* 527 (2010), 7176 - 7183. IF 1.901
11. Chulist, R.; Oertel, C.-G.; Skrotzki, W.; Lippmann, T.: Direction of modulation during twin boundary motion. *Scripta Materialia* 62 (2010), 235 - 237. (DOI: 10.1016/j.scriptamat.2009.11.004) IF: 2,949
12. Chulist, R.; Skrotzki, W.; Oertel, C.-G.; Boehm, A.; Lippmann, T.; Rybacki, E.: Microstructure and texture in Ni₅₀Mn₂₉Ga₂₁ deformed by high-pressure torsion. *Scripta Materialia*. 62 (2010) 9, 650 - 653. IF: 2,949

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

13. Deng, K. K.; Wu, K.; Wang, X. J.; Wu, Y. W.; Hu, X. S.; Zheng, M. Y.; Gan, W. M.; Brokmeier, H. G.; Microstructure evolution and mechanical properties of a particulate reinforced magnesium matrix composites forged at elevated temperatures, *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 527(6) (2010), 1630-1635 IF 1.901
14. Dorosz, J.; Gofman, Y.; Kolusheva, S.; Otzen, D.; Ben-Tal, N.; Nielsen, N.C.; Jelinek, R.; Membrane Interactions of Novicidin, a Novel Antimicrobial Peptide: Phosphatidylglycerol Promotes Bilayer Insertion, *JOURNAL OF PHYSICAL CHEMISTRY B* 114 (2010), 11053-11060. IF 3.471
15. Eidenberger, E.; Schober, M.; Schmölder, T.; Stergar, E.; Staron, P.; Leitner, H.; Clemens, H.; Analysis of the multi-stage phase separation reaction in Fe-25at%Co-9at%Mo, *Physica Status Solidi A: Applications and Materials Science* 207(10) (2010), 2238 - 2246. IF 1.228
16. Eidenberger, E.; Schober, M.; Staron, P.; Caliskanoglu, D.; Leitner, H.; Clemens, H., Spinodal decomposition in Fe-25 at%Co-9 at%Mo, *Intermetallics* 18(11) (2010), 2128-2135. IF: 2,231
17. Eidenberger, E.; Schober, M.; Stergar, E.; Leitner, H.; Staron, P.; Clemens, H.; Precipitation Behavior of Fe-25 At. Pct Co-9 At. Pct Mo Investigated by In-Situ Small-Angle Neutron Scattering and Complementary Methods, *Metallurgical and Materials Transactions A – Physical Metallurgy and Materials Science* 41A (2010), 1230-1234. IF 1.564
18. Fally, M.; Klepp, J.; Tomita, Y.; Nakamura, T.; Pruner, C.; Ellabban, M. A.; Rupp, R. A.; Bichler, M.; Drevensek Olenik, I.; Kohlbrecher, J.; Eckerlebe, H.; Lemmel, H.; Rauch, H.; Neutron Optical Beam Splitter from Holographically Structured Nanoparticle-Polymer Composites, *Physical Review Letters* 105 (2010), 123904. (DOI: 10.1103/PhysRevLett.105.123904) IF: 7.328
19. Feyerabend, F.; Fischer, J.; Holtz, J.; Witte, F.; Willumeit, R.; Druecker, H.; Vogt, C.; Hort, N.; Evaluation of short-term effects of rare earth and other elements used in magnesium alloys on primary cells and cell lines, *Acta Biomaterialia* 6 (2010), 1834-1842. IF: 3,975
20. Fischer, J.; Prose, M. H.; Wolff, M.; Hort, N.; Willumeit, R.; Feyerabend, F.; Interference of magnesium corrosion with tetrazolium-based cytotoxicity assays, *Acta Biomaterialia* 6 (2010), 1813-1823. IF: 3,975
21. Gan, W.M.; Maawad, E.; Chang, H., Fan, G. D.; Randau, C.; Zheng, M. Y.; Wu, K.; Brokmeier, H. -G.; Effect of texture on damping behaviour in an AZ80 alloy, *Texture and Anisotropy of Polycrystals III* 160 (2010), 117-121. gel. Proceeding
22. Glueckert, R.; Rask-Andersen, H.; Sergi, C.; Schmutzhard, J.; Mueller, B.; Beckmann, F.; Rittinger, O.; Hoefsloot, L. H.; Schrott-Fischer, A.; Janecke, A. R.; Histology and Synchrotron Radiation-Based Microtomography of the Inner Ear in a Molecularly Confirmed Case of CHARGE Syndrome, *American Journal of Medical Genetics Part A* 152A (2010), 665-673. IF 2.404
23. Gofman, Y.; Linser, S.; Rzeszutek, A.; Shental-Bechor, D.; Funari, S. S.; Ben-Tal, N.; Willumeit, R.; Interaction of an Antimicrobial Peptide with Membranes: Experiments and Simulations with NKCS, *Journal of Physical Chemistry B* 114 (2010), 4230-4237. IF 3.471
24. Grigoriev, S. V.; Chernyshov, D.; Dyadkin, V. A.; Dmitriev, V.; Moskvina, E. V.; Lamago, D.; Wolf, Th.; Menzel, D.; Schoenes, J.; Maleyev, S. V.; Eckerlebe, H.; Interplay between crystalline chirality and magnetic structure in Mn_{1-x}Fe_xSi, *Physical Review B* 81 (1) (2010), 012408/1-012408/4. IF: 3.475
25. Grigoriev, S.V.; Lott, D.; Chetverikov, Y.O.; Grunwald, A.T.D.; Ward, R.C.C.; Schreyer, A.; Interplay of RKKY, Zeeman, and Dzyaloshinskii-Moriya interactions and the nonzero average spin chirality in Dy/Y multilayer structures, *Physical Review B* 82 (19) (2010), 195432. IF: 3.475

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

26. Grigoriev, S. V.; Maleyev, S. V.; Moskvina, E. V.; Dyadkin, V. A.; Fouquet, P.; Eckerlebe, H.; Crossover behavior of critical helix fluctuations in MnSi, *Physical Review B* 81 (14) (2010), 144413. IF: 3.475
27. Grigoriev, S. V.; Syromyatnikov, A. V.; Chumakov, A. P.; Grigoryeva, N. A.; Napolskii, K. S.; Roslyakov, I. V.; Eliseev, A. A.; Petukhov, A. V.; Eckerlebe, H.; Nanostructures: Scattering beyond the Born approximation, *Physical Review B* 81 (12) (2010), 125405. IF: 3.475
28. Grigoriev, S. V.; Chumakov, A. P.; Syromyatnikov, A. V.; Grigorieva, N. A.; Okorokov, A. I.; Napolskii, K. S.; Roslyakov, I. V.; Eliseev, A. A.; Lukashin, A. V.; Eckerlebe, H.; Magnetic properties of a two-dimensional spatially ordered array of nickel nanowires, *Physics of the Solid State* 52 (5) (2010), 1080-1086. IF 0.721
29. Grigoriev, S. V.; Dyadkin, V. A.; Maleyev, S. V.; Menzel, D.; Schoenes, J.; Lamago, D.; Moskvina, E. V.; Eckerlebe, H.; Noncentrosymmetric cubic helical ferromagnets Mn_{1-y} Fe (y) Si and Fe_{1-x} Co (x) Si, *Physics of the Solid State* 52 (5) (2010), 907-913. IF 0.721
30. Grigoriev, S. V.; Piyadov, V. V.; Okorokov, A. I.; Eckerlebe, H.; Investigation of three-particle spin correlations during critical scattering of polarized neutrons from a nickel single crystal, *Physics of the Solid State* 52 (5) (2010), 948-951. IF 0.721
31. Gruenwald, A. T. D., Wildes, A. R.; Schmidt, W.; Tartakovskaya, E. V.; Kwo, J.; Majkrzak, C.; Ward, R. C. C.; Schreyer, A.; Magnetic excitations in Dy/Y superlattices as seen via inelastic neutron scattering, *Physical Review B* 82 (1), 014426/1 - 014426/6. IF: 3.475
32. Gruenwald, A. T. D., Wildes, A. R.; Schmidt, W.; Tartakovskaya, E. V.; Nowak, G.; Theis-Broehl, K.; Schreyer, A.; Neutron scattering measurements of magnetic excitations in Gd/Y superlattices, *Applied Physics Letters* 96 (19), 192505/1 - 192505/3. IF: 3.554
33. Haibel, A.; Beckmann, F.; Dose, T.; Herzen, J.; Ogurreck, M.; Mueller, M.; Schreyer, A.; Latest developments in microtomography and nanotomography at PETRA III, *Powder Diffraction* 25 (2) (2010), 161-164. IF 0.512
34. Haibel, A.; Manke, I.; Melzer, A.; Banhart, J.; In Situ Microtomographic Monitoring of Discharging Processes in Alkaline Cells, *JOURNAL OF THE ELECTROCHEMICAL SOCIETY* 157 (2010), A387-A391. IF: 2,241
35. Halacheva, S.; Rangelov, S.; Tsvetanov, C.; Haramus, V.: Aqueous Solution Properties of Polyglycidol-Based Analogues of Pluronic Copolymers. Influence of the Poly(propylene oxide) Block Molar Mass. *Macromolecules* 43 (2010), 772 - 781. (DOI: 10.1021/ma902150t) IF: 4.539
36. He, L.; Wang, H.; Haramus, V.M.; Hanley, T.; Lensch, M.; Gabius, H.-J.; Fee, C.J.; Middelberg, A.; Analysis of MonoPEGylated Human Galectin-2 by Small-Angle X-ray and Neutron Scattering: Concentration Dependence of PEG Conformation in the Conjugate, *Biomacromolecules* 11 (12) (2010), 3504 - 3510. (DOI: 10.1021/bm100999a) IF 4.502
37. Hort, N.; Huang, Y.; Fechner, D.; Stoermer, M.; Blawert, C.; Witte, F.; Vogt, C.; Druecker, H.; Willumeit, R.; Kainer, K. U.; Feyerabend, F.; Magnesium alloys as implant materials - Principles of property design for Mg-RE alloys, *Acta Biomaterialia* 6 (2010), 1714-1725. IF 3.975
38. Ivanisenko, Y.; Skrotzki, W.; Chulist, R.; Lippmann, T.; Yang, K.; Kurmanaeva, L.; Fecht, H. -J.; Information on deformation mechanisms in nanocrystalline Pd-10% Au inferred from texture analysis, *Journal of Materials Science* 45 (17) (2010), 4571-4577. IF 1.471
39. Ivanov, V. K.; Kopitsa, G. P.; Sharikov, F. Y.; Baranchikov, A. Y.; Shaporev, A. S.; Grigoriev, S. V.; Pranzas, P. K.; Ultrasound-induced changes in mesostructure of amorphous iron (III) hydroxide

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

- xerogels: A small-angle neutron scattering study, *Physical Review B* 81 (2010), 174201/1-174201/9. IF: 3.475
40. Ivanov, V. K.; Kopitsa, G. P.; Grigoriev, S. V.; Polezhaeva, O. S.; Garamus, V. M.; Investigation of the evolution of the hydrated zirconia mesostructure at different stages of heat treatment, *Physics of the solid state* 52 (2010), 957-963. IF 0.721
41. Ivanov, V. K.; Kopitsa, G. P.; Baranchikov, A. E.; Grigoriev, S. V.; Haramus, V. M.; Evolution of Composition and Fractal Structure of Hydrous Zirconia Xerogels during Thermal Annealing; *Russian Journal of Inorganic Chemistry* 55 (2) (2010), 155-161. IF 0.370
42. Jayaganthan, R; Brokmeier, H.-G.; Schwebke, B.; Panigrahi, S. K.; Microstructure and texture evolution in cryorolled Al 7075 alloy, *Journal of Alloys and Compounds* 496 (2010), 183-188. IF 2.135
43. Kaune, G.; Haese-Seiller, M.; Kampmann, R.; Moulin, J.-F.; Zhong, Q; Mueller-Buschbaum, P.; TOF-GISANS Investigation of Polymer Infiltration in Mesoporous TiO₂ Films for Photovoltaic Applications, *Journal of Polymer Science Part B – Polymer Physics* 48 (14) (2010), 1628-1635. IF 1.586
44. Kent, B.; Garvey, C.J.; Lenne, T.; Porcar, L.; Haramus, V.M.; Bryant, G.: Measurement of glucose exclusion from the fully hydrated DOPE inverse hexagonal phase. *Soft Matter*. Vol. 6 (2010) 6, 1197 - 1202. IF: 4,869
45. King, A.; Herbig, M.; Ludwig, W.; Reischig, P.; Lauridsen, E.M.; Marrow, T.; Buffière, J.Y.; Non-destructive analysis of micro texture and grain boundary character from X-ray diffraction contrast tomography, *Nuclear Instruments and Methods in Physics Research B* 268 (2010), 291–296. (Doi:10.1016/j.nimb.2009.07.020) IF: 1.156
46. Knaapila, M.; Evans, R.C.; Gutacker, A.; Haramus, V.M.; Torkkeli, M.; Adamczyk, S.; Forster, M.; Scherf, U.; Burrows, H.D.: Solvent Dependent Assembly of a Polyfluorene–Polythiophene “Rod–Rod” Block Copolyelectrolyte: Influence on Photophysical Properties. *Langmuir*. Vol. 26 (2010) 7, 5056 - 5066. IF: 3,898
47. Knaapila, M.; Evans, R. C.; Garamus, V. M.; Almásy, L.; Székely, N. K.; Gutacker, A.; Scherf, U.; Burrows, H. D.; Structure and “Surfactochromic” Properties of Conjugated Polyelectrolyte (CPE): Surfactant Complexes between a Cationic Polythiophene and SDS in Water, *Langmuir* 26 (2010), 15634–15643. IF 3.898
48. Kyzyma, O. A.; Korobov, M. V.; Avdeev, M. V.; Garamus, V. M.; Petrenko, V. I.; Aksenov, V. L.; Bulavin, L. A.; Solvatochromism and Fullerene Cluster Formation in C₆₀/N-methyl-2-pyrrolidone, *Fullerenes, Nanotubes and Carbon Nanostructures* 18 (2010), 458 – 461. IF 0.710
49. Kyzyma, O. A.; Korobov, M. V.; Avdeev, M. V.; Garamus, V. M.; Snegir, S. V.; Petrenko, V. I.; Aksenov, V. L.; Bulavin, L. A.; Aggregate development in C-60/N-methyl-2-pyrrolidone solution and its mixture with water as revealed by extraction and mass spectroscopy, *Chemical Physics Letters* 493 (1-3) (2010), 103-106. IF 2.291
50. Lancz, G.; Avdeev, M. V.; Petrenko, V. I.; Garamus, V. M.; Koneracká, M.; Kopcanský, P.; SANS study of poly(ethylene glycol) solutions in D₂O, *Acta Physica Polonica A* 118 (2010), 980-982. IF 0.433
51. Maawad, E; Brokmeier, H. -G.; Hofmann, M.; Genzel, Ch.; Wagner, L.; Stress distribution in mechanically surface treated Ti-2.5Cu determined by combining energy-dispersive synchrotron and neutron diffraction, *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 527 (21-22) (2010), 5745-5749. IF 1.901
52. Maawad, E.; Brokmeier, H.-G.; Wagner, L.; Texture Gradients in Shot Peened Ti-2.5Cu, *Texture and Anisotropy of Polycrystals III* 160 (2010), 141-146. gel. Proceeding

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

53. Martins, R. M. S.; Schell, N.; von Borany, J.; Mahesh, K. K.; Silva, R. J. C.; Braz Fernandes, F. M.; Structural evolution of magnetron sputtered shape memory alloy Ni-Ti films, *Vacuum* 84 (7) (2010), 913-919. IF 0.975
54. Martins, R.M.S., Schell, N., Reuther, H., Pereira, L., Mahesh, K.K., Silva, R.J.C., and Braz Fernandes F.M.; Texture development, microstructure and phase transformation. characteristics of sputtered Ni-Ti shape memory alloy films on TiN<111>, *Thin Solid Films* 519 (1) (2010), 122 – 128. IF 1.727
55. Meister, A.; Drescher, S.; Karlsson, G.; Hause, G.; Baumeister, U.; Hempel, G.; Haramus, V.M.; Dobner, B.; Blume, A.: Formation of square lamellae by self-assembly of long-chain bolaphospholipids in water. *Soft Matter* 6 (2010), 1317 - 1324. (IF: 4,869) IF 4.869
56. Ogurreck, M.; Mueller, M.: Analytical description of the scattering of cellulose nanocrystals in tracheid wood cells. *Journal of Applied Crystallography*. 43 (2010), 256 - 263. IF: 3,018
57. Petrenko, V. I.; Aksenov, V. L.; Avdeev, M. V.; Bulavin, L. A.; Rosta, L.); Vekas, L.; Garamus, V. M.; Willumeit, R.; Analysis of the structure of aqueous ferrofluids by the small-angle neutron scattering method, *Physics of the solid state* 52 (2010), 974-978. IF 0.721
58. Petrenko, V.I.; Avdeev, M.V.; Garamus, V.M.; Bulavin, L. A.; Aksenov, V. L.; Rosta, L.; Micelle formation in aqueous solutions of dodecylbenzene sulfonic acid studied by small-angle neutron scattering, *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS* 369 (1-3) (2010), 160-164. IF 1.988
59. Petrov, D.; Angelov, B.; Preparation and characterisation of NdAlO₃ nanocrystals by modified sol-gel method, *Journal of Sol-Gel Science and Technology* (2010), 53(2), 227-231. IF 1.393
60. Pohl, H.; Wipfler, B.; Grimaldi, D.; Beckmann, F.; Beutel, R. G.; Reconstructing the anatomy of the 42-million-year-old fossil *Mengea tertiaria* (Insecta, Strepsiptera), *Naturwissenschaften* 97 (2010), 855-859. IF: 2,316
61. Regelsberger, J.; Schmidt, T.; Busse, B.; Herzen, J.; Tsokos, M.; Amling, M.; Beckmann, F.; Synchrotron-microcomputed tomography studies of normal and pathological cranial sutures: further insight Laboratory investigation, *Journal of Neurosurgery-Pediatrics* 5 (2010), 238 - 242. IF 0,171
62. Ritzoulis, C.; Strobl, M.; Panayiotou, C.; Choinka, G.; Tsiptsias, C.; Vasiliadou, C.; Vasilakos, V.; Beckmann, F.; Herzen, J.; Donath, T.; Ultra-small angle neutron scattering and X-ray tomography studies of caseinate-hydroxyapatite microporous materials, *Materials Chemistry and Physics* 123 (2010), 77-82. IF: 2,015
63. Saerbeck, T.; Klose, F.; Lott, D.; Mankey, G.J.; Lu, Z.; LeClair, P.R.; Schmidt, W.; Stampfl, A.P.J.; Danilkin, S.; Yethiraj, M.; Schreyer, A.; Artificially modulated chemical order in thin films: A different approach to create ferro/antiferromagnetic interfaces, *Physical Review B* 82 (13) (2010), 134409/1-134409/5. IF: 3.475
64. Scharnweber, J.; Skrotzki, W.; Oertel, C.G.; Brokmeier, H.G.; Hoppel, H.W.; Topic, I.; Jaschinski, J.; Texture, Microstructure and Mechanical Properties of Ultrafine Grained Aluminum Produced by Accumulative Roll Bonding, *Advanced Engineering Materials* 12 (10) (2010), 989 – 994. IF 1.761
65. Schnitzer, R.; Zickler, G. A.; Lach, E.; Clemens, H.; Zinner, S.; Lippmann, T.; Leitner, H.; Influence of reverted austenite on static and dynamic mechanical properties of a PH 13-8 Mo maraging steel, *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 527 (7-8) (2010), 2065-2070. IF 1.901

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

66. Schober, M.; Eidenberger, E.; Leitner, H.; Staron, P.; Reith, D.; Podloucky, R.; A critical consideration of magnetism and composition of (bcc) Cu precipitates in (bcc) Fe, *Applied Physics A – Materials Science & Processing* 99 (2010), 697-704. IF 1.595
67. Schober, M.; Eidenberger, E.; Staron, P.; Leitner, H.; Critical Consideration of Precipitate Analysis of Fe-1 at.% Cu Using Atom Probe and Small-Angle Neutron Scattering, *Microscopy and Microanalysis* 17(1) (2011), 26-33. IF 3,035
68. Schober, M.; Lerchbacher, Ch.; Eidenberger, E.; Staron, P.; Clemens, H.; Leitner, H.; Precipitation behavior of intermetallic NiAl particles in Fe-6 at.%Al-4 at.%Ni analyzed by SANS and 3DAP, *Intermetallics* 18 (2010), 1553-1559. IF: 2,231
69. Schulz, G.; Weitkamp, T.; Zanette, I.; Pfeiffer, F.; Beckmann, F.; David, C.; Rutishauser, S.; Reznikova, E.; Muller, B.; High-resolution tomographic imaging of a human cerebellum: comparison of absorption and grating-based phase contrast, *Journal of the Royal Society Interface* 7 (53), 1665 – 1676. IF 4.241
70. Siemes, H.; Rybacki, E.; Kunze, K.; Klingenberg, B.; Naumann, M.; Brokmeier, H.G.; Jansen, E.; Development of Microstructure and Texture of Hematite Ores Deformed to Large Strain in Torsion: Can Texture Identify the Prevailing Strength and Creep Mechanisms During Deformation?, *Advanced Engineering Materials* 12 (10) (2010), 1003 – 1007. IF 1.761
71. Skrotzki, W.; Scharnweber, J.; Oertel, C.-G.; Hoeppe, H. W.; Topic, I.; Brokmeier, H. -G.; Jaschinski, J.; Plastic anisotropy of ultrafine grained Al alloy AA6016 produced by accumulative roll bonding, *Texture and Anisotropy of Polycrystals III* 160 (2010), 171-176. gel. Proceeding
72. Sonderegger, B.; Kozeschnik, E.; Leitner, H.; Clemens, H.; Svoboda, J.; Fischer, F.D.; Staron, P.: Kinetics of Precipitation in a Complex Hot-work Tool Steel. *Steel Research International*. Vol. 81 (2010) 1, 64 - 73. IF: 0,313
73. Soppa, Ewa; Nellesen, Jens; Romanova, Varvara; Fischer, Gottfried; Crostack, Horst-Artur; Beckmann, Felix; Impact of 3D-model thickness on FE-simulations of microstructure, *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 527A(3) (2010), 802-811. IF 1.901
74. Tie, D.; Feyerabend, F.; Hort, N.; Willumeit, R.; Hoeche, D.: XPS studies of magnesium surfaces after exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution and Simulated Body Fluid, *Advanced Engineering Materials* 12 (2010), B699 - B704. (DOI: 10.1002/adem.201080070) IF 1.761
75. Timm, C.; Hoernle, K.; Werner, R.; Hauff, F.; van den Bogaard, P.; White, J.; Mortimer, N.; Garbe-Schönberg, D.; Temporal and geochemical evolution of the Cenozoic intraplate volcanism of Zealandia, *Earth-Science Reviews* 98 (2010) 38–64. (IF: 6.942) IF 6.942
76. Ulbricht, A.; Heintze, C.; Bergner, F.; Eckerlebe, H.; SANS investigation of a neutron-irradiated Fe-9at%Cr alloy, *Journal of Nuclear Materials* 407 (2010), 29-33. IF 1.933
77. Ventzke, V.; Brokmeier, H.-G.; Merhof, P.; Kocak, M.: Microstructural characterization of friction welded TiAl-Ti6Al4V hybrid joints. *Texture and Anisotropy of Polycrystals III* 160 (2010) 319 - 326. gel. Proceeding
78. Vogtt, K.; Jeworrek, Ch.; Garamus, V. M.; Winter, R.; Microdomains in Lipid Vesicles: Structure and Distribution Assessed by Small-Angle Neutron Scattering, *Journal of Physical Chemistry B*, 114 (2010) 5643–5648. IF 3.471

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

79. Witte, F.; Fischer, J.; Nellesen, J.; Vogt, C.; Vogt, J.; Donath, T.; Beckmann, F.; In vivo corrosion and corrosion protection of magnesium alloy LAE442, *Acta Biomaterialia* 6 (2010), 1792-1799. IF: 3,975
80. Wu, K.; Chang, H.; Maawad, E.; Gan, W. M.; Brokmeier, H. G.; Zheng, M. Y.; Microstructure and mechanical properties of the Mg/Al laminated composite fabricated by accumulative roll bonding (ARB), *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 527 (13-14) (2010), 3073-3078. IF 1.901
81. Yi, S.; Brokmeier, H.-G.; Letzig, D.; Microstructural evolution during the annealing of an extruded AZ31 magnesium alloy, *JOURNAL OF ALLOYS AND COMPOUNDS* 506 (1) (2010), 364 – 371. (DOI: 10.1016/j.jallcom.2010.07.008) IF 2.135
82. Zavisova, V.; Koneracka, M.; Muckova, M.; Lazova, J.; Jurikova, A.; Lancz, G.; Tomasovicova, N.; Timko, M.; Kovac, J.; Vavra, I.; Fabian, M.; Feoktystov, A.V.; Haramus, V.M.; Avdeev, M.V.; Kopcansky, P.: Magnetic fluid containing poly(ethylene glycol) with moderate anticancer activity. *Journal of Magnetism and Magnetic Materials*. (2010), (DOI: 10.1016/j.jmmm.2010.11.060) IF 1.204
83. Zehbe, R.; Haibel, A.; Riesemeier, H.; Gross, U.; Kirkpatrick, C.J.; Schubert, H.; Brockhausen, C.: Going beyond Histology: Synchrotron CT as a Complementary Methodology for Biological Tissue Characterization. *Journal of the Royal Society Interface* 7 (2010), 49 - 59. (DOI: 10.1098/rsif.2008.0539). IF 4.241
84. Ziegler, A.; Ogurreck, M.; Steinke, T.; Beckmann, F.; Prohaska, S.; Ziegler, A.; Opportunities and challenges for digital morphology, *Biology Direct* 5 (2010), 45. IF 3.322
85. Zou, A.; Liu, J.; Haramus, V.M.; Yang, Y.; Willumeit, R.; Mu, B.: Micellization Activity of the Natural Lipopeptide [Glu1, Asp5] Surfactin-C15 in Aqueous Solution. *The Journal of Physical Chemistry B*. Vol. 114 (2010) 8, 2712 - 2718. IF: 3,471
86. Zou, A.; Liu, J.; Haramus, V.M.; Zheng, K.; Willumeit, R.; Mu, B.: Interaction between the Natural Lipopeptide [Glu1, Asp5] Surfactin-C15 and Hemoglobin in Aqueous Solution. *Biomacromolecules*. Vol. 11 (2010) 3, 593 - 599. IF: 4,502
87. Zehbe, R.; Haibel, A.; Riesemeier, H.; Gross, U.; Kirkpatrick, C. J.; Schubert, H.; Brochhausen, C.; Going beyond Histology. Synchrotron μ CT as a Methodology for Biological Tissue Characterization: From Tissue Morphology to Individual Cells, *Journal of the Royal Society Interface* 7 (42) (2010), 49-59. IF 4.241
88. Zurbitu, J.; Santamarta, R.; Picornell, C.; Gan, W.M.; Brokmeier, H.G.; Aurrekoetxea, J.; Impact fatigue behavior of superelastic NiTi shape memory alloy wires, *Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing* 528 (2) (2010), 764- 769. IF 1.901

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

Regenerative Medizin

1. Bahramsoltani M., W. de Spiegelaere, P. Janczyk, P. Cornillie, B. Hiebl, J. Plendl, *Quantitation of angiogenesis in vitro induced by VEGF-A and FGF-2 in two different human endothelial cultures – an all-in-one assay*, Clin. Hemorheol. Microcirc 46, 189–202 (2010) IF 1,780
2. Behl M., A. Lendlein, *Triple-shape Polymers*, J. Mater Chem 20, 3335-3345 (2010) [E-pub ahead of print on March 5, 2010] DOI: 10.1039/b922992b IF 4,795
3. Behl M., J. Zotzmann, A. Lendlein, *Shape-Memory Polymers and Shape-Changing Polymers*, Adv. Polym. Sci. 226, 1-40 (2010) [Epub ahead of print on November 5, 2009] DOI: 10.1007/978-3-642-12359-7_26 IF 4,600
4. Behl M., M. Razzaq, A. Lendlein, *Multifunctional Shape-memory Polymers*, Adv. Mater. 22, 3388–3410 (2010) [E-pub ahead of print on June 23, 2010] DOI: 10.1002/adma.200904447 IF 8,379
5. Boehning M., M.; O. Hoelck, M. Heuchel, D. Hofmann, *Characterization of Gas Sorption in Glassy Polymers Combining Experimental and Molecular Modeling Techniques*. In: Spring 2008 ACS, National Meeting PMSE. New Orleans, LA (USA), 06.-10.04.2008, 2008. ISI Proc. gel.
6. Braune S., M. Lange, K. Richau, K. Lützwow, T. Weigel, F. Jung, A. Lendlein, *Interaction of thrombocytes with poly(ether imide): The influence of processing*, Clin. Hemorheol. Microcirc 46, 239–250 (2010) IF 1,780
7. Cui J., K. Kratz, B. Hiebl, A. Lendlein, *Adjusting shape-memory properties of amorphous polyether urethanes and radio-opaque composites thereof by variation of physical parameters during programming*, Smart Matter Struct 19 (2010) 065019 [E-pub ahead of print on May 4, 2010] DOI: 10.1088/0964-1726/19/6/065019 IF 1,749
8. Cui J., K. Trescher, K. Kratz, F. Jung, B. Hiebl, A. Lendlein, *Melt-processable hydrophobic acrylonitrile-based copolymer systems with adjustable elastic properties designed for biomedical applications*, Clin. Hemorheol. Microcirc 45 (2-4), 401-411 (2010) IF 1,780
9. da Conceicao T.F., N. Scharnagl, W. Dietzel, K.U. Kainer, *On the degradation mechanism of corrosion protective poly(ether imide) coatings on magnesium AZ31 alloy*, Corros Sci 52 (10), 3155-3157 (2010) IF 2,316
10. da Conceicao TF., N. Scharnagl, C. Blawert, W. Dietzel, K.U. Kainer, *Corrosion protection of magnesium alloy AZ31 sheets by spin coating process with poly(ether imide) [PEI]*, Corros Sci 52 (6), 2066-2079 (2010) IF 2,316
11. Feng Y., J. Lu, M. Behl, A. Lendlein, *Progress Depsipeptide-based Biomaterials*, Macromol. Biosci. 10 (9), 1008-1021 (2010) [E-pub ahead of print on July 8, 2010], DOI: 10.1002/mabi.201000076 IF 3,108
12. Franke R.P., A. Minkow, B. Hiebl, R. Fuhrmann, C. Mrowietz, F. Jung, *Embedding of radiographic media molecules in the membrane of erythrocytes*, Clin. Hemorheol. Microcirc 46, 225–232 (2010) IF 1,780
13. Franke R.-P., R. Fuhrmann, C. Mrowietz, D. Rickert, B. Hiebl, F. Jung, *Reduced diagnostic value of lactate dehydrogenase (LDH) in the presence of radiographic contrast media*, Clin. Hemorheol. Microcirc 45 (2-4), 123-130 (2010) IF 1,780

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

14. Furlani D., W.Z. Li, L. Wang, E. Pittermann, P. Mark, E. Delyagina, K. Luetzow, A. Lendlein, G. Steinhoff, N. Ma, *Abnormal Cells Appeared in Early Passage Cultured Mesenchymal Stem Cells Show Aberrant Genotype, Karyotype and Metabolism*, Conference Information: 12th Annual Meeting of the American Society of Gene Therapy, MAY 27-30, 2009 San Diego, CA, Molecular Therapy, 17 (1), S135-S135 (2009) ISI Proc. gel.
15. Ganesan R., K. Kratz, A. Lendlein, *Multicomponent protein patterning of material surfaces*, J Mater Chem 20 (35) 7322-7331(2010) [E-pub ahead of print on July 22, 2010] DOI: 10.1039/b926690a IF 4,795
16. Heuchel M., J. Cui, K. Kratz, H.-J. Kosmella, A. Lendlein, *Relaxation based modeling of tunable shape recovery kinetics observed under isothermal conditions for amorphous shape-memory polymers*, Polymer 51, 6212-6218 (2010) [E-pub ahead of print on November 2 (2010)] DOI: 10.1016/j.polymer.2010.10.051 IF 3,573
17. Hiebl B., C. Mrowietz, J. Goers, M. Bahramsoltani, J. Plendl, K. Kratz, A. Lendlein, F. Jung, *In vivo evaluation of the angiogenic effects of the multiblock copolymer PDC using the hen's egg chorioallantoic membrane test*, Clin. Hemorheol. Microcirc 46, 233–238 (2010) IF 1,780
18. Hiebl B., C. Mrowietz, K. Ploetze, K. Matschke, F. Jung, *Critical hematocrit and oxygen partial pressure in the beating heart of pigs*, Microvasc Res (2010) [E-pub ahead of print on August 13 (2010)] DOI: 10.1016/j.mvr.2010.06.002 IF 3,075
19. Hiebl B., F. Jung, M. Schossig, N. Scharnagl, C. Mrowietz, S. Niehues, *In vitro evaluation of a nitinol based vein cuff for external valvuloplasty*, Clin. Hemorheol. Microcirc 45 (2-4), 347-358 (2010) IF 1,780
20. Hiebl B., K. Lützwow, M. Lange, F. Jung, B. Seifert, F. Klein, T. Weigel, K. Kratz, A. Lendlein, *Cytocompatibility testings using cell culture modules fabricated from specific candidate biomaterials using injection molding*, J Biotechnol 148, 76–82 (2010) [Epub ahead of print on Jan. 21, 2010] DOI: 10.1016/j.jbiotec.2010.01.006 IF 2,881
21. Hiebl B., R. Fuhrmann, F. Jung, K. Kratz, A. Lendlein, RP Franke, *Degradation of and angiogenesis around multiblock copolymers containing poly(p-dioxanone)- and poly(□-caprolactone)-segments subcutaneously implanted in the rat neck*, Clin. Hemorheol. Microcirc 45 (2-4), 117-122 (2010)IF 1,780
22. Hiebl B., S. Bog, C. Mrowietz, M. Jünger, F. Jung, A. Lendlein, R.-P. Franke, *Influence of VEGF stimulated human macrophages on the proliferation of dermal microvascular endothelial cells: Coculture experiments*, Clin. Hemorheol. Microcirc 46, 211–216 (2010) IF 1,780
23. Hodson D. J., M. L. Janas, A. Galloway, S. E. Bell, S. Andrews, C. M. Li, R. Pannell, C. W. Siebel, H. R. MacDonald, K. De Keersmaecker, A. A. Ferrando, G. Grütz, M; Turner, *Deletion of the RNA-binding proteins ZFP36L1 and ZFP36L2 leads to perturbed thymic development and T lymphoblastic leukemia*, Nat. Immunol. 11 (8), 717-724 (2010) IF 26,000
24. Hofmann D., M. Entrialgo, J. Reiche, K. Kratz, A. Lendlein, *Molecular Modeling and experimental investigation of hydrolytically degradable polymeric biomaterials*, Advances in Science and Technology, 76, 16-24 (2010), Conference Information: 5th Forum on new Materials Part E., JUN 6-18, 2010 Montecatini Terme, Italy, Doi:10.4028/www.scientific.net/AST.76.16 ISI Proc. gel.
25. Jung F., C. Wischke, A. Lendlein, *Degradable, Multifunctional Cardiovascular Implants: Challenges and Hurdles*, MRS Bull 35 (8), 607-613 (2010) IF 6,330
26. Jung F., *From hemorheology to microcirculation and regenerative medicine: Fåhræus Lecture 2009*, Clin. Hemorheol. Microcirc 45, 79-99 (2010) IF1,780

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

27. Kommareddy K. P., C. Lange, M. Rumpler, J. W. C. Dunlop, I. Manjubala, J. Cui, K. Kratz, A. Lendlein, P. Fratzl, *Two stages in three-dimensional in vitro growth of tissue generated by osteoblastlike Cells*, *Biointerphases* 5 (2), 45-52 (2010) IF 2,480
28. Kumar U. Narendra, K. Kratz, W. Wagermaier, M. Behl, A. Lendlein, *Non-contact actuation of triple-shape effect in multiphase polymer network nanocomposites in alternating magnetic field*, *J. Mater Chem* 20, 3404-3415 (2010) [E-pub ahead of print on Feb. 22, 2010] DOI: 10.1039/b923000aIF 4,795
29. Kummerlöwe G., M. Behl, A. Lendlein, B. Luy, *Artifact-free measurement of residual dipolar couplings in DMSO by the use of cross-linked perdeuterated poly(acrylonitrile) as alignment medium*, *Chem. Commun.* 46, 8273-8275 (2010), [E-pub ahead of print on September 30 (2010)] DOI: 10.1039/C0CC02730H IF 5,504
30. Leithäuser B., F. Jung, J.-W. Park, *Rheological and hemostasiological aspects of thrombus formation in the left atrial appendage in atrial fibrillation? A new strategy for prevention of cardioembolic stroke*. *Clin. Hemorheol. Microcirc* 45 (2-4), 311-323 (2010) IF 1,780
31. Lendlein A., M. Behl, B. Hiebl, C. Wischke: *Shape-memory polymers as a technology platform for biomedical applications*, *Expert Rev Med Devic* 7(3), 357-379 (2010) IF 1,725
32. Lendlein A., M. Behl, S. Kamlage, *The Nature of the Thermal Transition Influences the Shape-Memory Behavior of Polymer Networks* in *Advances in Regenerative Medicine: Role of Nanotechnology, and Engineering Principles*, edited by V. Prasad Shastri, G. Altankov, A. Lendlein, NATO Science for Peace and Security Series A: Chemistry and Biology 131-156 (2010), Springer, Dordrecht, DOI: 10.1007/978-90-481-8790-4, Zusage von Springer, dass es aufgenommen wird ISI Proc. gel.
33. Lendlein A., M. Rehahn, M. R. Buchmeiser, R. Haag, *Polymers in biomedicine and electronics*, *Macromol. Rapid Comm.* 31 (17), 1487-1491 (2010) [E-pub ahead of print on August 23, 2010], DOI: 10.1002/marc.201000426 IF 2,480
34. Lendlein A., P. Shastri, *Stimuli-sensitive Polymers*, *Adv. Mater.* 22, 3344-3347 (2010) [E-pub ahead of print on Aug 4, 2010], DOI: 10.1002/adma.201002520 IF 8,379
35. Lendlein A., *Polymers in Biomedicine*, *Macromol. Biosci.* 10 (9), 993-997 (2010) [E-pub ahead of print on August 26, 2010], DOI: 10.1002/mabi.201000300 IF 3,108
36. Lendlein A., *Progress in actively moving polymers*, *J. Mater. Chem.* 20, 3332-3334 (2010) [E-pub ahead of print on March 26, 2010] DOI: 10.1039/c004361n IF 4,795
37. Madbouly S. A., A. Lendlein, *Shape-Memory Polymer Composites*, *Adv. Polym. Sci.* 226, 41-95 (2010) [Epub ahead of print on Dec 18, 2009] DOI: 10.1007/978-3-642-12359-7_28 IF 4,600
38. Mayer A., S. Lee, F. Jung, G. Grütz, A. Lendlein, B. Hiebl, *CD14⁺, CD163⁺ IL-10⁺ monocytes/macrophages Pro-angiogenic and non pro-inflammatory isolation, enrichment and long-term secretion profile*, *Clin. Hemorheol. Microcirc* 46, 217-223 (2010) IF 1,780
39. Neffe A. T., G. Tronci, A. Altheheld, A. Lendlein, *Controlled change of mechanical properties during hydrolytic degradation of polyether urethane networks*, *Macromol. Chem. Phys.* 211, 182-194 (2010) [Epub ahead of print on Dec 23, 2009] DOI: 10.1002/macp.200900441 IF 2,570
40. Neffe A., A. Zaupa, B. Pierce, D. Hofmann, A. Lendlein, *Knowledge-based tailoring of gelatin-based materials by functionalization with tyrosine-derived groups*, *Macromol. Rapid Comm.* 31(17), 1534-1539 (2010) [E-pub ahead of print on Aug 3, 2010], DOI: 10.1002/marc.201000274 IF 4,263

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

41. Neves P., V. Lampropoulou, E. Calderon-Gomet, T. Roch, U. Stervbo, P. Shen, A.A. Kühl, C. Loddenkemper, M. Haury, S.A. Nedospasov, S.H. Kaufmann, U. Steinhoff, D.P. Calado, S. Fillatreau, *Signaling via the MyD88 Adaptor Protein in B Cells Suppresses Protective Immunity during Salmonella typhimurium Infection*, Immunity 33, 777-790 (2010) [E-pub ahead of print on November 18 (2010)] DOI: 10.1016/j.immuni.2010.10.016 IF 20,589
42. Ong L. L., W. Z. Li, J. K. Oldigs, A. Kaminski, B. Gerstmayer, C. Piechaczek, W. Wagner, R. K. Li, N. Ma, G. Steinhoff, *Hypoxic/Normoxic Preconditioning Increases Endothelial Differentiation Potential of Human Bone Marrow CD133+Cells*, Tissue Eng. Part C-Methods 16 (5), 1069-1081 (2010) IF 4,582
43. Papp I., C. Sieben, A.L. Sisson, A. Herrmann, R. Haag, *Inhibition of influenza virus activity by newly designed multivalent glycoarchitectures*, J Control Release 148 (1), e114-e115 (2010) Antrag auf Aufnahme des einzelnen abstracts aus TOP500-Journal gestellt IF 5,690
44. Prasad Shastri V., A. Lendlein, *Engineering Materials for Regenerative Medicine*, MRS Bull 35 (8), 571-575 (2010) IF 6,330
45. Rickert D., R. Fuhrmann, B. Hiebl, A. Lendlein, R.-P. Franke, *Results of Biocompatibility Testing of Novel, Multifunctional Polymeric Implant Materials In-Vitro and In-Vivo* in *Advances in Regenerative Medicine: Role of Nanotechnology, and Engineering Principles*, edited by V. Prasad Shastri, G. Altankov, A. Lendlein, NATO Science for Peace and Security Series A: Chemistry and Biology 285-300 (2010), Springer, Dordrecht, DOI: 10.1007/978-90-481-8790-4 , Zusage von Springer, dass es aufgenommen wird ISI Proc. gel.
46. Rodriguez-Valverde M. A., F. J. M. Ruiz-Cabello, P. M. Gea-Jodar, H. Kamusewitz, M. A. Cabrerizo-Vilchez, *A new model to estimate the Young contact angle from contact angle hysteresis measurements*, Colloid Surface. A 365 (1-3), 21-27 (2010) IF 1,988
47. Sabat J. R., G. Grütz, K. Warszawska, S. Kirsch, E. Witte, K. Wolk, J. Reginat, *Biology of interleukin-10*, Cytokine Growth F. R. 21, 331 – 344 (2010) IF 6,489
48. Scharnagl N., A. Lendlein, R. Haag, G. Oenbrink, *Polymers in Biomedicine and Electronics*, Nachr Chem 58 (12), 1307- 1308 (2010) DOI: 10.1002/nadc.201190000 diese ganze Dezember-Ausgabe ist noch nicht im Web zu finden IF 0,133
49. Scharnagl N., S. Lee, B. Hiebl, A. Sisson, A. Lendlein, *Design principles for polymers as substratum for adherent cells*, J. Mater Chem. 20 (40), 8789-8802 (2010) [E-pub ahead of print on August 24 (2010)] doi:10.1039/C0JM00997K IF 4,795
50. Sisson A., R. Haag, *Polyglycerol nanogels: highly functional scaffolds for biomedical applications*, Soft Matter 6 (20), 4968- 4975 (2010) IF 4,869
51. Steinhilber D., A. L. Sisson, D. Mangoldt, T. Welker, K. Licha, R. Haag, *Synthesis, reductive cleavage, and cellular interaction studies of biodegradable, polyglycerol nanogels*, Adv. Funct. Mater. 20 (23), 4133-4138 (2010) [E-pub ahead of print on September 27 (2010)] DOI: 10.1002/adfm.201000410 IF 6,990
52. Tronci G., A.T. Neffe, B.F. Pierce, A. Lendlein, *An entropy–elastic gelatin-based hydrogel system*, J. Mater Chem. 20(40), 8875-8884 (2010) [E-pub ahead of print on August 10, 2010] DOI: 10.1039/C0JM00883D IF 4,795
53. Wagermaier W., K. Kratz, M. Heuchel, A. Lendlein, *Characterization Methods for Shape-Memory Polymers*, Adv. Polym. Sci. 226, 97-145 (2010) [Epub ahead of print on November 27, 2009] DOI: 10.1007/978-3-642-12359-7_25 IF 4,600

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

54. Wagermaier W., T. Zander, D. Hofmann, K. Kratz, U. Narendra Kumar, A. Lendlein, *In-situ x-ray scattering studies of poly(epsilon-caprolactone) networks with grafted poly(ethylene glycol) chains to investigate structural changes during dual- and triple shape effect*, *Macromol. Rapid Comm.* 31(17), 1546-1553 (2010) [E-pub ahead of print on July 8, 2010], DOI: 10.1002/marc.201000122 IF 4,263
55. Wang W.W., W.Z. Li, L. Ong, K. Luetzow, A. Lendlein, D. Furlani, R. Gaebel, D.L. Kong, J. Wang, G. Steinhoff, N. Ma, *Fibronectin Films-Mediated SDF-1 Gene Release Recruits Stem Cells*, Conference Information: 12th Annual Meeting of the American Society of Gene Therapy, MAY 27-30, 2009 San Diego, CA, *Molecular Therapy*, 17 (1), S269-S269 (2009) ISI Proc. gel.
56. Wischke C., A. Lendlein, *Shape-Memory Polymers as Drug Carriers—A Multifunctional System*, *PharmRes* 27 (4), 527 (2010) [Epub ahead of print on February 3, 2010], DOI: 10.1007/s11095-010-0062-5 IF 3,277
57. Wischke C., A. T. Neffe, S. Steuer, E. Engelhardt, A. Lendlein, *AB-polymer networks with cooligoester- and poly(n-butyl acrylate)-segments as multifunctional matrix for controlled drug release*, *Macromol. Biosci.* 10 (9), 1063-1072 (2010) [E-pub ahead of print on July 8, 2010], DOI: 10.1002/mabi.201000089 IF 3,108
58. Wischke C., A.T. Neffe, A. Lendlein, *Controlled Drug Release from Biodegradable Shape-Memory Polymers* *Adv. Polym. Sci.* 226, 177-205 (2010) [Epub ahead of print on Dec 18, 2009] DOI: 10.1007/978-3-642-12359-7_29 IF 4,600
59. Wischke C., A.T. Neffe, S. Steuer, A. Lendlein, *Comparing techniques for drug loading of shape-memory polymer networks—effect on their functionalities*, *Eur. J. Pharm. Sci.* 41, 136–147 (2010) [E-pub ahead of print on June 11, 2010] DOI: 10.1016/j.ejps.2010.06.003 IF 2,608
60. Wischke C., Y. Zhang, S. Mittal, S. P. Schwendeman, *Development of PLGA-based injectable delivery systems for hydrophobic fenretinide*, *Pharm. Res. – Dorddr.* 27 (10), 2063-2074 (2010) IF 3,933
61. Zotzmann J., M. Behl, D. Hofmann, A. Lendlein, *Reversible Triple-Shape Effect of Polymer Networks Containing Polypentadecalactone- and Poly(ε caprolactone)-Segments*, *Adv. Mater.* 22, 3424–3429 (2010) [E-pub ahead of print on April 19, 2010] DOI: 10.1002/adma.200904202 IF 8.379
62. Zotzmann J., M. Behl, Y. Feng, A. Lendlein, *Copolymer networks based on poly(□-pentadecalactone) and Poly(□-caprolactone)segments as a versatile triple-shape polymer system*, *Adv. Funct. Mater.* 20 (20), 3583-3594 (2010) [E-pub ahead of print on August 26 (2010)] DOI: 10.1002/adfm.201000478 IF 6,990

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

PACES

1. Ahrens, L.; Ebinghaus, R.: Spatial distribution of polyfluoroalkyl compounds in dab (*Limanda limanda*) bile fluids from Iceland and the North Sea. In: *Marine Pollution Bulletin*. Vol. 60 (2010) 1, 145 - 148. (DOI: 10.1016/j.marpolbul.2009.10.007) IF 2.630
2. Ahrens, L.; Gerwinski, W.; Theobald, N.; Ebinghaus, R.: Sources of polyfluoroalkyl compounds in the North Sea, Baltic Sea and Norwegian Sea: Evidence from their spatial distribution in surface water. In: *Marine Pollution Bulletin*. Vol. 60 (2010) 2, 255 - 260. (DOI: 10.1016/j.marpolbul.2009.09.013) IF 2.630
3. Ahrens, L.; Taniyasu, S.; Yeung, L.W.Y.; Yamashita, N.; Lam, P.K.S.; Ebinghaus, R.: Distribution of polyfluoroalkyl compounds in water, suspended particulate matter and sediment from Tokyo Bay, Japan. In: *Chemosphere*. Vol. 79 (2010) 3, 266 - 272. (DOI: 10.1016/j.chemosphere.2010.01.045) IF 3.253
4. Ahrens, L.; Xie, Z.; Ebinghaus, R.: Distribution of perfluoroalkyl compounds in seawater from Northern Europe, Atlantic Ocean, and Southern Ocean. In: *Chemosphere*. Vol. 78 (2010) 8, 1011 - 1016. (DOI: 10.1016/j.chemosphere.2009.11.038) IF 3.253
5. Ahrens, L.; Ebinghaus, R. 2010. Spatial distribution of polyfluoroalkyl compounds in dab (*Limanda limanda*) bile fluids from Iceland and the North Sea. *MARINE POLLUTION BULLETIN* 60 (1): 145-148. ISSN: 0025-326X DOI: 10.1016/j.marpolbul.2009.10.007 IF 2.630
6. Ahrens, L.; Maruszczak, N.; Rubarth, J.; Dommergue, A.; Nedjai, R.; Ferrari, C.; Ebinghaus, R. 2010. Distribution of perfluoroalkyl compounds and mercury in fish liver from high-mountain lakes in France originating from atmospheric deposition. *ENVIRONMENTAL CHEMISTRY* 7 (5): 422-428. ISSN: 1448-2517 DOI: 10.1071/EN10025 IF 1.850
7. Andersen, T.J.; Lanuru, M.; Bernem, K.-H.van; Pejrup, M.; Riethmueller, R.: Erodibility of a mixed mudflat dominated by microphytobenthos and *Cerastoderma edule*, East Frisian Wadden Sea, Germany. In: *Estuarine, Coastal and Shelf Science*. Vol. 87 (2010) 2, 197 - 206. (DOI: 10.1016/j.ecss.2009.10.014) IF 1.970
8. Bahlmann, E.; Bernasconi, SM; Bouillon, S; Houtekamer, M; Korntheuer, M; Langenberg, F; Mayr, C; Metzke, M; Middelburg, JJ; Nagel, B; Struck, U; Voss, M; Emeis, KC. 2010. Performance evaluation of nitrogen isotope ratio determination in marine and lacustrine sediments: An inter-laboratory comparison. *ORGANIC GEOCHEMISTRY* 41 (1): 3-12, presented at *European-Geosciences-Union Topical Meeting on Application of Stable Isotopes in Biogeosciences* in Vienna, AUSTRIA, 2008. ISSN: 0146-6380 DOI: 10.1016/j.orggeochem.2009.05.008 IF 2.149
9. Barth, A.; Alvera-Azcarate, A.; Gurgel, K.-W.; Staneva, J.; Port, A.; Beckers, J.-M.; Stanev, E.V.: Ensemble perturbation smoother for optimizing tidal boundary conditions by assimilation of High-Frequency radar surface currents – application to the German Bight. In: *Ocean Science*. Vol. 6 (2010) 1, 161 - 178. (DOI: 10.5194/os-6-161-2010) IF 0.937
10. Beuvier, J; Sevault, F; Herrmann, M; Kontoyiannis, H; Ludwig, W; Rixen, M; Stanev, E; Beranger, K; Somot, S. 2010. Modeling the Mediterranean Sea interannual variability during 1961-2000: Focus on the Eastern Mediterranean Transient. *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS* 115: art. no.-C08017. ISSN: 0148-0227 DOI: 10.1029/2009JC005950 IF 3.082
11. Brandt, G; Wirtz, KW. 2010. Interannual variability of alongshore spring bloom dynamics in a coastal sea caused by the differential influence of hydrodynamics and light climate. *BIOGEOSCIENCES* 7 (1): 371-386. ISSN: 1726-4170 IF 3.246

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

12. Bray, D.: The scientific consensus of climate change revisited. In: Environmental Science & Policy. Vol. 13 (2010) 5, 340 - 350. (DOI: 10.1016/j.envsci.2010.04.001) IF 2.322
13. Brazdil, R.; Dobrovolny, P.; Luterbacher, J.; Moberg, A.; Pfister, C.; Wheeler, D.; Zorita, E.: European climate of the past 500 years: new challenges for historical climatology . In: Climatic Change. Vol. 101 (2010) 1-2, 7 - 40. (DOI: 10.1007/s10584-009-9783-z) IF 3.635
14. Brummer, B; Muller, G; Klepp, C; Spreen, G; Romeiser, R; Horstmann, J. 2010. Characteristics and impact of a gale-force storm field over the Norwegian Sea. *TELLUS SERIES A-DYNAMIC METEOROLOGY AND OCEANOGRAPHY* 62 (4): 481-496. ISSN: 0280-6495 DOI: 10.1111/j.1600-0870.2010.00448.x IF 2.214
15. Brunke, E.-G.; Labuschagne, C.; Ebinghaus, R.; Kock, H.H.; Slemr, F.: Gaseous elemental mercury depletion events observed at Cape Point during 2007–2008. In: Atmospheric Chemistry and Physics. Vol. 10 (2010) 3, 1121 - 1131. (DOI: 10.5194/acp-10-1121-2010) IF 4.881
16. Buerk, D.; Klaucke, I.; Sahling, H.; Weinrebe, W.: Morpho-acoustic variability of cold seeps on the continental slope offshore Nicaragua: Result of fluid flow interaction with sedimentary processes. In: Marine Geology. Vol. 275 (2010) 1-4, 53 - 65. (DOI: 10.1016/j.margeo.2010.04.007) IF 2.521
17. Busch, J.; Ahrens, L.; Xie, Z.; Sturm, R.; Ebinghaus, R.: Polyfluoroalkyl compounds in the East Greenland Arctic Ocean. In: Journal of Environmental Monitoring. Vol. 12 (2010) 1242 - 1246. (DOI: 10.1039/c002242j) IF 2.225
18. Busch, J; Ahrens, L; Sturm, R; Ebinghaus, R. 2010. Polyfluoroalkyl compounds in landfill leachates. *ENVIRONMENTAL POLLUTION* 158 (5): 1467-1471. ISSN: 0269-7491 DOI: 10.1016/j.envpol.2009.12.031 IF 3.426
19. Chapelle, A; Labry, C; Sourisseau, M; Lebreton, C; Youenou, A; Crassous, MP. 2010. Alexandrium minutum growth controlled by phosphorus An applied model. *JOURNAL OF MARINE SYSTEMS* 83 (3-4): 181-191, Sp. Iss. SI. ISSN: 0924-7963 DOI: 10.1016/j.jmarsys.2010.05.012 IF 2.238
20. Chen, F; Du, Y; Yan, L; Wang, DX; Shi, P. 2010. Response of upper ocean currents to typhoons at two ADCP moorings west of the Luzon Strait. *CHINESE JOURNAL OF OCEANOLOGY AND LIMNOLOGY* 28 (5): 1002-1011. ISSN: 0254-4059 DOI: 10.1007/s00343-010-0025-z IF -
21. Dahnke, K; Emeis, K; Johannsen, A; Nagel, B. 2010. Stable isotope composition and turnover of nitrate in the German Bight. *MARINE ECOLOGY-PROGRESS SERIES* 408: 7-U26. ISSN: 0171-8630 DOI: 10.3354/meps08558 IF 2.519
22. De La Rocha, CL; Terbruggen, A; Volker, C; Hohn, S. 2010. Response to and recovery from nitrogen and silicon starvation in *Thalassiosira weissflogii*: growth rates, nutrient uptake and C, Si and N content per cell. *MARINE ECOLOGY-PROGRESS SERIES* 412: 57-68. ISSN: 0171-8630 DOI: 10.3354/meps08701 IF 2.519
23. Diercks, S; Gescher, C; Metfies, K; Medlin, LK. 2010. Evaluation of locked nucleic acids for signal enhancement of oligonucleotide probes for microalgae immobilised on solid surfaces (vol 21, pg 657, 2009). *JOURNAL OF APPLIED PHYCOLOGY* 22 (6): 813-813. ISSN: 0921-8971 DOI: 10.1007/s10811-010-9612-9 IF 1.018
24. Dobrynin, M.; Gayer, G.; Pleskachevsky, A.; Guenther, H.: Effect of waves and currents on the dynamics and seasonal variations of suspended particulate matter in the North Sea. In: Journal of Marine Systems. Vol. 82 (2010) 1-2, 1 - 20. (DOI: 10.1016/j.jmarsys.2010.02.012) IF 2.238

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

25. Dommergue, A.; Sprovieri, F.; Pirrone, N.; Ebinghaus, R.; Brooks, S.; Courteaud, J.; Ferrari, C.: Overview of mercury measurements in the Antarctic troposphere. In: *Atmospheric Chemistry and Physics*. Vol. 10 (2010) 7, 3309 - 3319. (DOI: 10.5194/acp-10-3309-2010) IF 4.881
26. Dreyer, A.; Matthias, V.; Weinberg, I.; Ebinghaus, R.: Wet deposition of poly- and perfluorinated compounds in Northern Germany. In: *Environmental Pollution*. Vol. 158 (2010) 5, 1221 - 1227. (DOI: 10.1016/j.envpol.2010.01.030) IF 3.426
27. Dreyer, A.; Shoeib, M.; Fiedler, S.; Barber, J.; Harner, T.; Schramm, K.-W.; Jones, K.; Ebinghaus, R.: Field intercomparison on the determination of volatile and semivolatile polyfluorinated compounds in air. In: *Environmental Chemistry*. Vol. 7 (2010) 4, 350 - 358. (DOI: 10.1071/EN10053) IF 1.850
28. Emeis, KC; Mara, P; Schlarbaum, T; Mobius, J; Dahnke, K; Struck, U; Mihalopoulos, N; Krom, M. 2010. External N inputs and internal N cycling traced by isotope ratios of nitrate, dissolved reduced nitrogen, and particulate nitrogen in the eastern Mediterranean Sea. *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES* 115: art. no.-G04041. ISSN: 0148-0227 DOI: 10.1029/2009JG001214 IF 3.082
29. Frank, C.; Schroeder, F.; Petersen, W.: FerryBox: Using Automated Water Measurement Systems to Monitor Water Quality: Perspectives for the Yangtze River and Three Gorges Dam. In: *Journal of Earth Science*. Vol. 21 (2010) 6, 861 - 869. (DOI: 10.1007/s12583-010-0138-5) IF -
30. Frank, C; Schroeder, F; Petersen, W. 2010. FerryBox: Using automated water measurement systems to monitor water quality: Perspectives for the Yangtze river and Three Gorges Dam. *JOURNAL OF EARTH SCIENCE* 21 (6): 861-869. ISSN: 1674-487X DOI: 10.1007/s12583-010-0138-5 IF -
31. Gaillard, M.-J.; Sugita, S.; Mazier, F.; Trondman, A.-K.; Brostroem, A.; Hickler, T.; Kaplan, J.O.; Kjellstroem, E.; Kokfelt, U.; Kunes, P.; Lemmen, C.; Miller, P.; Olofsson, J.; Poska, A.; Rundgren, M.; Smith, G.; Standberg, G.; Fyfe, R.; Nielsen, A.B.; Alenius, T.; Balakauskas, L.; Barnekow, L.; Birks, H.J. B.; Bjune, A.; Bjoerkman, L.; Giesecke, T.; Hjelle, K.; Kalnina, L.; Kangur, M.; Knaap, W.O.van der; Koff, T.; Lageras, P.; Latalowa, M.; Leydet, M.; Lechterbeck, J.; Lindblad, M.; Odgaard, B.; Peglar, S.; Segerstroem, U.; Stedingk, H.von; Seppae, H.: Holocene land-cover reconstructions for studies on land cover-climate feedbacks. In: *Climate of the Past*. Vol. 6 (2010) 4, 483 - 499. (DOI: 10.5194/cp-6-483-2010) IF 3.826
32. Gayer, G.; Leschka, S.; Noehren, I.; Larsen, O.; Guenther, H.: Tsunami inundation modelling based on detailed roughness maps of densely populated areas. In: *Natural Hazards and Earth System Sciences*. Vol. 10 (2010) 8, 1679 - 1687. (DOI: 10.5194/nhess-10-1679-2010) IF 1.357
33. Gee, K.: Offshore wind power development as affected by seascape values on the German North Sea coast. In: *Land Use Policy*. Vol. 27 (2010) 2, 185 - 194. (DOI: 10.1016/j.landusepol.2009.05.003) IF 2.355
34. Gee, K.; Burkhard, B.: Cultural ecosystem services in the context of offshore wind farming: A case study from the west coast of Schleswig-Holstein. In: *Ecological Complexity*. Vol. 7 (2010) 3, 349 - 358. (DOI: 10.1016/j.ecocom.2010.02.008) IF 2.040
35. Grayek, S.; Stanev, E.V.; Kandilarov, R.: On the response of Black Sea level to external forcing: altimeter data and numerical modelling. In: *Ocean Dynamics*. Vol. 60 (2010) 1, 123 - 140. (DOI: 10.1007/s10236-009-0249-7) IF 1.612

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

36. Grebe, M.; Proefrock, D.; Kakuschke, A.; Broekaert, J.A.C.; Prange, A.: Metallomics approach for the identification of the iron transport protein transferrin in the blood of harbour seals (*Phoca vitulina*). In: *Metallomics*. Vol. 2 (2010) 10, 683 - 693. (DOI: 10.1039/C0MT00009D) IF -
37. Grunwald, M.; Dellwig, O.; Kohlmeier, C.; Badewien, T.H.; Beck, M.; Kotzur, S.; Kowalski, N.; Liebezeit, G.; Brumsack, H.-J.: Nutrient dynamics in a back barrier tidal basin of the Southern North Sea: Time-series, model simulations, and budget estimates. In: *Journal of Sea Research*. Vol. 64 (2010) 3, 199 -212. (DOI: 10.1016/j.seares.2010.02.008) IF 1.803
38. Hantzsche, FM; Boersma, M. 2010. Dietary-induced responses in the phagotrophic flagellate *Oxyrrhis marina*. *MARINE BIOLOGY* 157 (7): 1641-1651. ISSN: 0025-3162 DOI: 10.1007/s00227-010-1437-1 IF 1.999
39. Helmholtz, H.: Selective toxin–lipid membrane interactions of natural, haemolytic Scyphozoan toxins analyzed by surface plasmon resonance. In: *Biochimica et Biophysica Acta: Biomembranes*. Vol. 1798 (2010) 10, 1944 - 1952. (DOI: 10.1016/j.bbamem.2010.06.014) IF 3.998
40. Helmholtz, H.; Johnston, B.D.; Ruhnau, C.; Prange, A.: Gill cell toxicity of northern boreal scyphomedusae *Cyanea capillata* and *Aurelia aurita* measured by an in vitro cell assay. In: *Hydrobiologia*. Vol. 645 (2010) 1, 223 - 234. (DOI: 10.1007/s10750-010-0216-9) IF 1.754
41. Holstein, JM; Wirtz, KW. 2010. Organic matter accumulation and degradation in subsurface coastal sediments: a model-based comparison of rapid sedimentation and aquifer transport. *BIOGEOSCIENCES* 7 (11): 3741-3753 IF: 3,246
42. Huenicke, B.: Contribution of regional climate drivers to future winter sea-level changes in the Baltic Sea estimated by statistical methods and simulations of climate models. In: *International Journal of Earth Sciences*. Vol. 99 (2010) 8, 1721 - 1730. (DOI: 10.1007/s00531-009-0470-0) IF 2.445
43. Hulme, M.; Zorita, E.; Stocker, T.; Price, J.; Christy, J.: IPCC: cherish it, tweak it or scrap it?. In: *Nature*. Vol. 463 (2010) 730 - 732. (DOI: 10.1038/463730a) IF 34.480
44. Kakuschke, A.; Erbsloeh, H.-B.; Griesel, S.; Prange, A.: Acute phase protein haptoglobin in blood plasma samples of harbour seals (*Phoca vitulina*) of the Wadden Sea and of the isle Helgoland. In: *Comparative Biochemistry and Physiology, Part B*. Vol. 155 (2010) 1, 67 - 71. (DOI: 10.1016/j.cbpb.2009.10.002) IF 1.607
45. Kakuschke, A; Valentine-Thon, E; Griesel, S; Gandrass, J; Luzardo, OP; Boada, LD; Pena, MZ; Gonzalez, MA; Grebe, M; Proefrock, D; Erbsloeh, HB; Kramer, K; Fonfara, S; Prange, A. 2010. First health and pollution study on harbor seals (*Phoca vitulina*) living in the German Elbe estuary. *MARINE POLLUTION BULLETIN* 60 (11): 2079-2086. ISSN: 0025-326X DOI: 10.1016/j.marpolbul.2010.07.011 IF 2.630
46. Kirchgeorg, T.; Weinberg, I.; Dreyer, A.; Ebinghaus, R.: Perfluorinated compounds in marine surface waters: data from the Baltic Sea and methodological challenges for future studies. In: *Environmental Chemistry*. Vol. 7 (2010) 5, 429 - 434. (DOI: 10.1071/EN10039) IF 1.850
47. Knote, C.; Heinemann, G.; Rockel, B.: Changes in weather extremes: Assessment of return values using high resolution climate simulations at convection-resolving scale. In: *Meteorologische Zeitschrift*. Vol. 19 (2010) 1, 11 - 23. (DOI: 10.1127/0941-2948/2010/0424) IF 1.097

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

48. Langer, V.; Dreyer, A.; Ebinghaus, R.: Polyfluorinated Compounds in Residential and Nonresidential Indoor Air. In: *Environmental Science and Technology*. Vol. 44 (2010) 21, 8075 - 8081. (DOI: 10.1021/es102384z) IF 1.417
49. Lassen, S.; Helmholz, H.; Ruhnau, C.; Prange, A.: Characterisation of neurotoxic polypeptides from *Cyanea capillata medusae* (Scyphozoa). In: *Hydrobiologia*. Vol. 645 (2010) 1, 213 - 221. (DOI: 10.1007/s10750-010-0215-x) IF 1.754
50. Lemmen, C. 2009. World distribution of land cover changes during Pre- and Protohistoric Times and estimation of induced carbon releases. *GEOMORPHOLOGIE-RELIEF PROCESSUS ENVIRONNEMENT* (4): 303-312. ISSN: 1266-5304 IF 0.282
51. Li, X.; Koenig, T.; Schulz-Stellenfleth, J.; Lehner, S.: Validation and intercomparison of ocean wave spectra inversion schemes using ASAR wave mode data. In: *International Journal of Remote Sensing*. Vol. 31 (2010) 17-18, 4969 - 4993. (DOI: 10.1080/01431161.2010.485222) IF 1.089
52. Liu, X.; Wirtz, K.W.: Managing coastal area resources by stated choice experiments. In: *Estuarine, Coastal and Shelf Science*. Vol. 86 (2010) 3, 512 - 517. (DOI: 10.1016/j.ecss.2009.02.020) IF 1.970
53. Luterbacher, J.; Koenig, S.J.; Franke, J.; Schrier, G.van der; Zorita, E.; Moberg, A.; Jakobeit, J.; Della-Marta, P.M.; Kuettel, M.; Xoplaki, E.; Wheeler, D.; Rutishauser, T.; Stoessel, M.; Wanner, H.; Brazdil, R.; Dobrovolny, P.; Camuffo, D.; Bertolin, C.; Engelen, A.van; Gonzalez-Rouco, F.J.; Wilson, R.; Pfister, C.; Limanowka, D.; Nordli, O.; Leijonhufvud, L.; Soederberg, J.; Allan, R.; Barriendos, M.; Glaser, R.; Riemann, D.; Hao, Z.; Zerefos, C.S.: Circulation dynamics and its influence on European and Mediterranean January–April climate over the past half millennium: results and insights from instrumental data, documentary evidence and coupled climate models. In: *Climatic Change*. Vol. 101 (2010) 1-2, 201 - 234. (DOI: 10.1007/s10584-009-9782-0) IF 3.635
54. Marxen, K; Vanselow, KH; Hintze, R; Lippemeier, S; Ruser, A; Egge, B; Colijn, F; Hansen, UP. 2010. Comparison of two different modes of UV-B irradiation on synthesis of some cellular substances in the cyanobacterium *Synechocystis* sp PCC6803. *JOURNAL OF APPLIED PHYCOLOGY* 22 (6): 677-690. ISSN: 0921-8971 DOI: 10.1007/s10811-010-9507-9 IF 1.018
55. Matthias, V.; Bewersdorf, I.; Aulinger, A.; Quante, M.: The contribution of ship emissions to air pollution in the North Sea regions. In: *Environmental Pollution*. Vol. 158 (2010) 6, 2241 - 2250. (DOI: 10.1016/j.envpol.2010.02.013) IF 3.426
56. Moeller, A.; Ahrens, L.; Sturm, R.; Westerveld, J.; Wielen, F.van der; Ebinghaus, R.; de Voogt, P.: Distribution and sources of polyfluoroalkyl substances (PFAS) in the River Rhine watershed . In: *Environmental Pollution*. Vol. 158 (2010) 10, 3243 - 3250. (DOI: 10.1016/j.envpol.2010.07.019) IF 3.426
57. Moeller, A.; Xie, Z.; Sturm, R.; Ebinghaus, R.: Large-Scale Distribution of Dechlorane Plus in Air and Seawater from the Arctic to Antarctica. In: *Environmental Science and Technology*. Vol. 44 (2010) 23, 8977 - 8982. (DOI: 10.1021/es103047n) IF 1.417
58. Onken, R.; Garbe, H.; Schroeder, S.; Janik, M.: A new instrument for sediment temperature measurements. In: *Journal of Marine Science and Technology*. Vol. 15 (2010) 4, 427 - 433. (DOI: 10.1007/s00773-010-0096-8) IF 0.361
59. Onken, R.; Riethmueller, R.: Determination of the freshwater budget of tidal flats from measurements near a tidal inlet. In: *Continental Shelf Research*. Vol. 30 (2010) 8, 924 - 933. (DOI: 10.1016/j.csr.2010.02.004) IF 2.183

HZG-Publikationsliste 2010

ISI-gelistete und veröffentlichte Publikationen

60. Patsch, J; Serna, A; Dahnke, K; Schlarbaum, T; Johannsen, A; Emeis, KC. 2010. Nitrogen cycling in the German Bight (SE North Sea) - Clues from modelling stable nitrogen isotopes. *CONTINENTAL SHELF RESEARCH* 30 (2): 203-213. ISSN: 0278-4343 DOI: 10.1016/j.csr.2009.11.003 IF 2.183
61. Proefrock, D.: Progress and possible applications of miniaturised separation techniques and elemental mass spectrometry for quantitative, heteroatom-tagged proteomics. In: *Analytical and Bioanalytical Chemistry*. Vol. 398 (2010) 6, 2383 - 2401. (DOI: 10.1007/s00216-010-3901-7) IF 3.480
62. Proemmel, K.; Geyer, B.; Jones, J.M.; Widmann, M.: Evaluation of the skill and added value of a reanalysis-driven regional simulation for Alpine temperature. In: *International Journal of Climatology*. Vol. 30 (2010) 5, 760 - 773. (DOI: 10.1002/joc.1916) IF 2.347
63. Profrock, D. 2010. Hyphenation of capillary-LC with ICP-MS and parallel on-line micro fraction collection for MALDI-TOF-TOF analysis-complementary tools for protein phosphorylation analysis. *JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY* 25 (3): 334-344. ISSN: 0267-9477 DOI: 10.1039/b921145d IF 3.435
64. Rockel, B.; Arritt, R.; Rummukainen, M.; Hense, A.: Editorial: The 2nd Lund Regional-scale Climate Modelling Workshop. In: *Meteorologische Zeitschrift*. Vol. 19 (2010) 3, 223 - 224. (DOI: 10.1127/0941-2948/2010/0462) IF 1.097
65. Schartau, M.; Landry, M.R.; Armstrong, R.A.: Density estimation of plankton size spectra: A reanalysis of IronEx II data. In: *Journal of Plankton Research*. Vol. 32 (2010) 8, 1167 - 1184. (DOI: 10.1093/plankt/fbq072) IF 1.612
66. Schlarbaum, T.; Daehnke, K.; Emeis, K.: Turnover of combined dissolved organic nitrogen and ammonium in the Elbe estuary/NW Europe: Results of nitrogen isotope investigations. In: *Marine Chemistry*. Vol. 119 (2010) 1-4, 91 - 107. (DOI: 10.1016/j.marchem.2009.12.007) IF 2.726
67. Schlueter, M.H.; Merico, A.; Reginatto, M.; Boersma, M.; Wiltshire, K.H.; Greve, W.: Phenological shifts of three interacting zooplankton groups in relation to climate change. In: *Global Change Biology*. Vol. 16 (2010) 11, 3144 - 3153. (DOI: 10.1111/j.1365-2486.2010.02246.x) IF 5.561
68. Schoo, KL; Aberle, N; Malzahn, AM; Boersma, M. 2010. Does the nutrient stoichiometry of primary producers affect the secondary consumer *Pleurobrachia pileus*?. *AQUATIC ECOLOGY* 44 (1): 233-242. ISSN: 1386-2588 DOI: 10.1007/s10452-009-9265-4 IF 1.549
69. Schulz-Stellenfleth, J.; Stanev, E.V.: Statistical assessment of ocean observing networks – A study of water level measurements in the German Bight . In: *Ocean Modelling*. Vol. 33 (2010) 3-4, 270 - 282. (DOI: 10.1016/j.ocemod.2010.03.001) IF 2.236
70. Serna, A; Patsch, J; Dahnke, K; Wiesner, MG; Hass, HC; Zeiler, M; Hebbeln, D; Emeis, KC. 2010. History of anthropogenic nitrogen input to the German Bight/SE North Sea as reflected by nitrogen isotopes in surface sediments, sediment cores and hindcast models. *CONTINENTAL SHELF RESEARCH* 30 (15): 1626-1638. ISSN: 0278-4343 DOI: 10.1016/j.csr.2010.06.010 IF 2.183
71. Signell, R.; Chiggiato, J.; Horstmann, J.; Doyle, J.; Pullen, J.; Askari, F.: High-Resolution mapping of Bora winds in the Northern Adriatic Sea using synthetic aperture radar. In: *Journal of Geophysical Research*. Vol. 115 (2010) C04020. (DOI: 10.1029/2009JC005524) IF 3.082
72. Sprovieri, F.; Pirrone, N.; Ebinghaus, R.; Kock, H.H.; Dommergue, A.: A review of worldwide atmospheric mercury measurements. In: *Atmospheric Chemistry and Physics*. Vol. 10 (2010) 17, 8245-8265. (DOI: 10.5194/acp-10-8245-2010) IF 4.881

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

73. Sprovieri, F.; Pirrone, N.; Ebinghaus, R.; Kock, H.H.; Dommergue, A.: Corrigendum to "A review of worldwide atmospheric mercury measurements" published in *Atmos. Chem. Phys.*, 10, 8245-8265, 2010. In: *Atmospheric Chemistry and Physics*. Vol. 10 (2010) 17, 8531. (DOI: 10.5194/acp-10-8531-2010) IF 4.881
74. Staneva, J.; Kourafalou, V.; Tsiaras, K.: Seasonal and Interannual Variability of the North-Western Black Sea Ecosystem. In: *Terrestrial, Atmospheric and Oceanic Sciences: TAO*. Vol. 21 (2010) 1, (DOI: 10.3319/TAO.2009.06.08.03 (IWNOP) IF 0.643
75. Storch, H.v.: The Lysenko Effect: The Politics of Science (Buchbesprechung). In: *Nature*. Vol. 466 (2010) 564. (DOI: 10.1038/466563a) IF 34.480
76. Sturm, R.; Ahrens, L.: Trends of polyfluoroalkyl compounds in marine biota and in humans. In: *Environmental Chemistry*. Vol. 7 (2010) 6, 457 - 484. (DOI: 10.1071/EN10072) IF 1.850
77. Tol, R.S.J.; Wagner, S.: Climate change and violent conflict in Europe over the last millennium. In: *Climatic Change*. Vol. 99 (2010) 1-2, 65 - 79. (DOI: 10.1007/s10584-009-9659-2) IF 3.635
78. von Storch, H. 2010. Solar. *NATURE* 464 (7293): 1283-1283. ISSN: 0028-0836 DOI: 10.1038/4641283a IF 34.480
79. von Storch, H; Allen, M. 2010. Climate e-mails: man's mark is clear in thermometer record. *NATURE* 463 (7277): 25-25. ISSN: 0028-0836 DOI: 10.1038/463025a IF 34.480
80. Weichselgartner, J.; Kasperson, R.: Barriers in the science-policy-practice interface: Toward a knowledge-action-system in global environmental change research. In: *Global Environmental Change*. Vol. 20 (2010) 2, 266 - 277. (DOI: 10.1016/j.gloenvcha.2009. 11.006) IF 3.340
81. Widmann, M; Goosse, H; van der Schrier, G; Schnur, R; Barkmeijer, J. 2010. Using data assimilation to study extratropical Northern Hemisphere climate over the last millennium. *CLIMATE OF THE PAST* 6 (5): 627-644. ISSN: 1814-9324 DOI: 10.5194/cp-6-627-2010 IF 3.826
82. Wiebring, A.; Helmholtz, H.; Lassen, S.; Prange, A.; Jarms, G.: Separation and analysis of different types of nematocysts from *Cyanea capillata* (L.) medusae. In: *Hydrobiologia*. Vol. 645 (2010) 1, 203 - 212. (DOI: 10.1007/s10750-010-0227-6) IF 1.754
83. Wiebring, A.; Helmholtz, H.; Soetje, I.; Lassen, S.; Prange, A.; Tiemann, H.: A New Method for the Separation of Different Types of Nematocysts from Scyphozoa and Investigation of Proteinaceous Toxins Utilizing Laser Catapulting and Subsequent Mass Spectrometry. In: *Marine Biotechnology*. Vol. 12 (2010) 3, 308 - 317. (DOI: 10.1007/s10126-010-9261-7) IF 2.587
84. Wiltshire, K.H.; Kraberg, A.; Bartsch, I.; Boersma, M.; Franke, H.-D.; Freund, J.; Gebuehr, C.; Gerdt, G.; Stockmann, K.; Wichels, A.: Helgoland Roads, North Sea: 45 Years of Change. In: *Estuaries and Coasts*. Vol. 33 (2010) 2, 295 - 310. (DOI: 10.1007/s12237-009-9228-y) IF 1.554

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

85. Winterfeldt, J.; Andersson, A.; Klepp, C.; Bakan, S.; Weisse, R.: Comparison of HOAPS, QuikSCAT, and Buoy Wind Speed in the Eastern North Atlantic and the North Sea. In: IEEE Transactions on Geoscience and Remote Sensing. Vol. 48 (2010) 1, 338 - 348. (DOI: 10.1109/TGRS.2009.2023982)
IF 2.234
86. Wirtz, K.W.; Lohmann, G.; Bernhardt, K.; Lemmen, C.: Mid-Holocene regional reorganization of climate variability: Analyses of proxy data in the frequency domain. In: Palaeogeography, Palaeoclimatology, Palaeoecology. Vol. 298 (2010) 3-4, 189 - 200. (DOI: 10.1016/j.palaeo.2010.09.019)
IF 2.646
87. Wirtz, K.W.; Pahlow, M.: Dynamic chlorophyll and nitrogen:carbon regulation in algae optimizes instantaneous growth rate. In: Marine Ecology - Progress Series. Vol. 402 (2010) 81 - 96. (DOI: 10.3354/meps08333)
IF 2.519
88. Zahn, M; von Storch, H. 2010. Decreased frequency of North Atlantic polar lows associated with future climate warming. *NATURE* 467 (7313): 309-312. Author Full Name(s): Zahn, Matthias; von Storch, Hans ISSN: 0028-0836 DOI: 10.1038/nature09388
IF 34.480
89. Zorita, E.; Moberg, A.; Leijonhufvud, L.; Wilson, R.; Brazdil, R.; Dobrovolny, P.; Luterbacher, J.; Boehm, R.; Pfister, C.; Riemann, D.; Glaser, R.; Soederberg, J.; Gonzalez-Rouco, F.: European temperature records of the past five centuries based on documentary/instrumental information compared to climate simulations. In: Climatic Change. Vol. 101 (2010) 1-2, 143 - 168. (DOI: 10.1007/s10584-010-9824-7)
IF 3.635

HZG-Publikationsliste 2010
ISI-gelistete und veröffentlichte Publikationen

CSC

1. Daniell, K, Máñez Costa, M, Ferrand, N., Kingsborough A.B, Coad, P. and I. Ribanova, (accepted 2010 by Regional Environmental Change –online first October 2010): Aiding multi-level decision-making processes for climate change mitigation and adaptation. doi: 10.1007/s10113-010-0162-0 (URL: <http://www.springerlink.com/content/11061q0510v18386/>) IF 1.29
2. Elmer, F., A.H. Thielen, I. Pech, H. Kreibich (2010): Influence of flood frequency on residential building losses. – Nat. Hazards Earth Syst. Sci. 10: 2145–2159. IF: 1.357.
3. Fischer-Bruns, I., J. Feichter, S. Kloster and A. Schneidereit (2010): How present aerosol pollution from North America impacts North Atlantic climate. Tellus, A, Vol. 62 (4), doi: 10.1111/j.1660-0870.2010.00446.x IF 2.214
4. Máñez Costa, M, Moors, E. and E. Fraser (accepted December 2010 by Ecology and Society): Socio-economics, Policy or Climate Change?: What is Driving Vulnerability in Southern Portugal?. Ecology and Society 16 (1) 28. IF 3.204
5. Máñez Costa, M. (2010): A participatory framework for conservation payments. - Land Use Policy 28(2):423-433. IF 2.355
6. Merz B., H. Kreibich, R. Schwarze and A. Thielen (2010): Review article "Assessment of economic flood damage". Nat. Hazards Earth Syst. Sci., 10, 1697-1724, 2010, www.nat-hazardsearth-syst-sci.net/10/1697/2010/, doi:10.5194/nhess-10-1697-2010. IF 1.357
7. Nobre, C. G.P. Brasseur, M.A. Shapiro, M. Lahsen, G. Brunet, A. J. Busalacchi, K. Hibbard, S. Seitzinger, K. Noone, and J.P. Ometto (2010): Addressing the Complexity of the Earth System. Bull. Amer. Meteor. Soc., 91, 1389–1396. doi: 10.1175/2010BAMS3012.1. IF 6.123
8. Shapiro, Melvyn, G.P. Brasseur, and Coauthors (2010): An Earth system prediction initiative for the 21st century, Bull. Amer. Meteor. Soc., 91, 1377–1388. doi: 10.1175/2010 BAMS 2944.1. IF 6.123
9. Schmidt, H., G.P. Brasseur, and M.A. Giorgetta (2010). The solar cycle signal in a general circulation and chemistry model with internally generated QBO, J. Geophys. Res. 115, doi:10.1029/2009JD012542. IF 3.082
10. Tie, X., G. Brasseur and Z. Ying (2010): Impact of model resolution on chemical ozone formation in Mexico City; application of the WRF-Chem model. Atmos. Chem. Phys., 10, 8983–8995, 2010, doi:10.5194/acp-10-8983-2010. IF 4.881