

GKSS-Publikationsliste 2007 (ISI-gelistet)

Regenerative Medizin

1. Martin R. Siegert, Matthias Heuchel, Dieter Hofmann: *A generalized Direct-Particle-Deletion Scheme for the calculation of chemical potential and solubilities of small and medium sized penetrants in amorphous polymers*, Journal: J. Comput Chem 28, 877-889, (2007) **IF 4,893**
2. W. Li, C. Nesselmann, Z. Zhou, L.-L. Ong, F. Öri, G. Tang, A. Kaminski, K. Lützow, A. Lendlein, A. Liebold, et al., *Gene delivery to the heart by magnetic nanobeads*, J. Magn. Magn. Mater., 311 (1), 336-341, (2007) **IF 1,212**
3. W. Albrecht, F. Santoso, K. Lützow, T. Weigel, R. Schomäcker, A. Lendlein, *Preparation of aminated microfiltration membranes by degradable functionalization using plain PEI membranes with various morphologies* J. Memb. Sci., 292 (1-2), 145-157, (2007) **IF 3,442**
4. M. Karimi, M. Heuchel, W. Albrecht and D. Hofmann: *A lattice-fluid model for the determination of the water/polymer interaction parameter from water uptake measurements*, J. Memb. Sci, 292 (1-2), 80-91, (2007) **IF: 3,442**
5. W. Albrecht, J. Schauer, Th. Weigel, K. Richau, Th. Groth, A. Lendlein, *Modification of poly(ether imide) membranes with brominated polyvinylpyrrolidone*, J. Memb. Sci, 291 (1-2), 10-18, (2007), **IF 3,442**
6. S. Günther, C. Ruhe, MG Derikito, G. Boese, H. Sauer, M. Wartenberg: *Polyphenols prevent cell shedding from mouse mammary cancer spheroids and inhibit cancer cell invasion in confrontation cultures derived from embryonic stem cells*, Cancer Lett, 250 (1), 25-35, (2007) [Epub ahead of print on Oct.27, 2007] DOI:10.1016/j.canlet.2006.09.014 **IF 3,277**
7. M. Buggisch, B. Ateghang, C. Ruhe, C. Strobel, S. Lange, M. Wartenberg, H. Sauer: *Stimulation of ES-cell-derived cardiomyogenesis and neonatal cardiac cell proliferation by reactive oxygen species and NADPH oxidase*, J. Cell Sci, 120, 885-894, (2007), [Epub ahead of print on Feb.13, 2007] DOI:10.1242/jcs.03386 **IF 6,427**
8. S. Kelch, S. Steuer, A. Schmidt, A. Lendlein: *Shape-memory Polymer Networks from Oligo[(ϵ -hydroxycaproate)-co-glycolate]-dimethacrylates and Butylacrylate with Adjustable Hydrolytic Degradation Rate*, Biomacromolecules 8, 1018-1027 (2007) **IF 3,664**

9. K. Heilmann, T. Groth, M. Schossig, A. Lendlein, B. Micheel: *Modulation of hybridoma cell growth and antibody production by coating cell culture materials with extracellular matrix proteins*, Biochem Eng J, 35, 301-308 (2007) [Epub ahead of print on Feb. 11, 2007] DOI:10.1016/j.bej.2007.01.035 **IF 1,608**
10. Lützwow K, Klein F, Weigel T, Apostel R, Weiss A, Lendlein A., *Formation of poly(epsilon-caprolactone) scaffolds loaded with small molecules by integrated processes*, J Biomech. 40, S80-S88, (2007),) [Epub ahead of print on Apr.27, 2007] DOI:10.1016/j.jbiomech.2007.02.022 **IF 2,542**
11. M. Padmasekar, R. Nandigma, M. Wartenberg, K.-D. Schlüter, H. Sauer, *The acute phase protein α_2 -macroglobulin induces rat ventricular cardiomyocyte hypertrophy via ERK1,2 and PI3-kinase/Akt pathways*, Cardiovasc Res, 75 (1), 118-128, (2007)) [Epub ahead of print on Mar.12, 2007] DOI:10.1016/j.cardiores.2007.03.003 **IF 5,826**
12. **G. Kummerlöwe, J. Auernheimer, A. Lendlein, B. Luy, Stretched Poly(acrylonitrile) as a scalable Alignment Medium for DMSO, J Am Chem Soc, 129 (19) 6080-1 (2007) IF 7,696**
13. J. Kovacs, K. Andresen, J.R. Pauls, C. Pardo Garcia, M. Schossig, W. Bauhofer, *Analyzing the quality of carbon nanotube dispersions in polymers using scanning electron microscopy*, Carbon, 45, 1279-1288, (2007) **IF 3,884**
14. **W. Li, N. Ma, LL Ong, C. Nesselmann, C. Klopsch, Y. Ladilov, D. Furlani, C. Piechaczek, JM. Moebius, K. Lützwow, A. Lendlein, C. Stamm, RK. Li, G. Steinhoff, Bcl-2 Engineered MSCs Inhibited Apoptosis and Improved Heart Function, Stem Cells 25 (8), 2118-27 (2007) IF 7,924**
15. N. Choi, A. Lendlein, *Degradable Shape-Memory Polymer Networks from Oligo[(L-lactide)-ran-glycolide]dimethacrylates*, Soft Matter 3(7), 901-909 (2007) **IF 4,391**
16. D. Rickert, M. Scheithauer, S. Coskum, S. Kelch, A. Lendlein, R.-P. Franke: *The influence of a novel, polymeric biomaterial on the concentration of acute phase proteins in an animal model* Clinical Hemorheology and Microcirculation 36 (4), 301-311 (2007) **IF 1,242**
17. Abell, A. D.; Jones, M. A.; Neffe, A. T.; Aitken, S. G.; Cain, T. P.; Payne, R. J.; McNabb, S. B.; Coxon, J. M.; Stuart, B. G.; Pearson, D.; Lee, H. Y.-Y.; Morton, J. D, *Investigation into the P3 Binding Domain of m-Calpain Using Photoswitchable Diazo- and Triazene-dipeptide Aldehydes: New Anticataract Agents*, J. Med. Chem, 50 (12), 2916-2920, (2007), [Epub ahead of print on May 12, 2007] **IF 5,115**
18. Bellin, S. Kelch, A. Lendlein, *Dual-Shape Properties of Triple-Shape Polymer Networks with Crystallizable Network Segments and Grafted Side Chains*, J. Mater. Chem. 17, 2885 – 2891 (2007) **IF 4,287**

19. O. van den Berg, M. Schroeter, J.R. Capadona, C. Weder, *Nanocomposites based on cellulose whiskers and (semi) conducting conjugated polymers*, J. Mat. Chem. 17, 2746-2753, (2007) **IF 4,287**
20. **A.T. Neffe, M. Bilang, I. Grüneberg, B. Meyer, *Rational Optimization of the Binding Affinity of CD4 Targeting Peptidomimetics with Potential Anti HIV Activity*, J. Med. Chem. 50 (15), 3482-3488, (2007) [Epub ahead of print on June 28, 2007] IF 5,115**
21. J. D. Mendez, M. Schroeter, C. Weder, *Hyperbranched Poly(p-phenylene ethynylene)s*, Macromolecular Chemistry and Physics, 2007 [in press].DOI: 10.1002/macp.200700133C **IF 2,021**
22. Kulkarni, J. Reiche, A. Lendlein, *Hydrolytic degradation of poly(rac-lactide) and poly[(rac-lactide)-co-glycolide] at the air-water interface*, Surface and Interface Analysis 39 (9), 740-746, (2007); [Epub ahead of print on Jun 28, 2007] **IF 1,427**
23. R. Doddoli, J.C. Kirkpatrick, D. Falkenhagen, A. Lendlein (editors), *Special Issue: Proceedings of Symposium H on Nano-structured and Intelligent Bioactive Materials*, E-MRS 2005 Spring Conference, Strasbourg, France, May 29 to June 2, Biomolecular Engineering 24 (1), (2007) **IF 2,568**
24. D. Rickert, R.-P. Franke, A. Lendlein, S. Kelch, M.A. Moses, *Influence of the surface structure of a multiblock copolymer on the cellular behavior of primary cell cultures of the upper aerodigestive tract in vitro*, J Biomed Mater Res A. 83, (2), 558-569, (2007); [Epub ahead of print on Jun 19, 2007] DOI: 10.1002/jbm.a.31250 **IF 2,497**
25. D. Rickert, A. Lendlein, S. Kelch, S. Coskun, M.O. Scheithauer, *Polymere Biomaterialien in der Kopf-Hals-Chirurgie: Erste Ergebnisse der Biokompatibilitätstestung eines abbaubaren Polymers im Tiermodell*, Laryngorhinootologie 86, 507-514 (2007) DOI: 10.1055/s-2007-966091 **IF 0,400**
26. H. Grablowitz, A. Lendlein, *Synthesis and characterisation of α,ω -dihydroxy-telechelic oligo(p-dioxanone)*, J. Mater. Chem. 17, 38, 4050-4056 (2007) [Epub ahead of print on Aug 21, 2007] DOI: 10.1039/b707104c **IF 4,287**
27. Kulkarni, J. Reiche, K. Kratz, H. Kamusewitz, I. M. Sokolov and A. Lendlein, *Enzymatic chain scission kinetics of poly(-caprolactone) monolayers*. Langmuir 23 (24), 12202-12207, (2007); [Epub ahead of print on Oct. 19, 2007] DOI: 10.1021/la701523e **IF 3,902**
28. R.P. Franke, R. Fuhrmann, J.W. Park, D. Rickert, B. Hiebl, F. Jung, *The effect of radiographic contrast media on the morphology of human venous endothelial cells*, Clinical Hemorheology and Microcirculation 37, 329-338, (2007) **IF 1,242**

29. G. Boese, C. Trimpert, W. Albrecht, G. Malsch, T. Groth, A. Lendlein: *Membranes from Acrylonitrile-based Polymers for Selective Cultivation of Human Keratinocytes*, Tissue Engineering, 13 (12), 2995-3002, (2007) **IF 3,725**
30. **R. J. Capadona, O. van den Berg, L. A. Capadona, M. Schroeter, S. J. Rowan, D. J. Tyler, C. Weder, A versatile approach for the processing of polymer nanocomposites with selfassembled nanofibre templates**, Nat Nanotechnol, 2, 765-769 (2007) [Epub ahead of print on Nov. 25, 2007] DOI:10.1038/nnano.2007.379 **IF 0**
31. E.M. Jung, D.A. Clevert, A.G. Schreyer, S. Schmitt. J. Rennert, R. Kubale, S. Feuerbach, F. Jung, *Evaluation of quantitative contrast harmonic imaging to assess malignancy of liver tumors: A prospective controlled two-center study*, World J Gastroenterol, 13 (47), 6356-6364, (2007), **IF 0**
32. A. Kulkarni, J. Reiche, J. Hartmann, K. Kratz, A. Lendlein: Selective enzymatic degradation of poly(ϵ -caprolactone) containing multiblock copolymers, Europ. J. Pharmaceutics Biopharmaceutics, 68 (1), 46-56 (2008) [Epub ahead of print on Jul. 14, 2007] DOI: 10.1016/j.ejpb.2007.05.021 **IF 3,185**
33. T. Ren, T. Weigel, T. Groth, A. Lendlein, Microwave Plasma Surface Modification of Silicone elastomer with Allylamine for Improvement of Biocompatibility, Journal of Biomedical Materials Research: Part A, (2008) [Epub ahead of print on Nov. 1, 2007] DOI: 10.1002/jbm.a.31508 **IF 2,743**
34. O. Hoelck, M. Heuchel, M. Böhning, D. Hofmann, Simulation of experimentally observed dilation phenomena during integral gas sorption in glassy polymers, Journal of Polymer Science, Part B 46(1), 59-71 (2008) [Epub ahead of print on Nov 19, 2007] DOI: 10.1002/polb.21342 **IF 1,622**
35. J. Reiche, A. Kulkarni, K. Kratz, A. Lendlein, Enzymatic Monolayer Degradation Study of Multiblock Copolymers consisting of Poly(ϵ -caprolactone) and Poly(p-dioxanone) Blocks, Thin Solid Films (2007) [Epub ahead of print on Nov. 22, 2007] DOI: 10.1016/j.tsf.2007.11.053 **IF 1,666**
36. G. Artug, I. Roosmasari, K. Richau, J. Hapke, A Comprehensive Characterization of Commercial Nanofiltration Membranes, Separation Science and Technology 42 (13), 2947-2986, (2007) **IF 0,842**

PNI

1. Akselrod, L.A.; Gordeev, G.P.; Zabenkin, V.N.; Lazebnik, I.M.; Wagner, V.; Eckerlebe, H.; Observation of chiral ordering of moments in the magnetic mesostructure of the (Pd_{0.984}Fe_{0.016})(0.95)Mn-0.05 alloy by means of polarized neutrons, *Crystallography Reports* 52 (2007), 403-406. **IF 0,358**
2. Almgren, M.; Garamus, V.M.; Asakawa, T.; Jiang, N.; Contrast Variation SANS Investigation of Composition Distributions in Mixed Surfactant Micelles, *Journal of Physical Chemistry B* 111 (2007), 7133-7141. **IF 4,115**
3. Almqvist, K.P.; Ejsing, A.M.; Bottiger J.; Chevallier, J.; Schell, N.; Martins, R. M. S.; The dependence of the nanostructure of magnetron sputtered Cu-Ag alloy films on composition and temperature, *Journal of Materials Research* 22 (2007), 1018-1023. **IF 2,354**
4. Angelov, B., Angelova, A., Garamus, V. M., Lebas, G., Lesieur, S., Ollivon, M., Funari, S. S., Willumeit, R., Couvreur P., Small-Angle Neutron and X-ray Scattering from Amphiphilic Stimuli-Responsive Diamond Type Bicontinuous Cubic Phase, *Journal of the American Chemical Society* 129 (2007), 13474-13479. **IF 7,696**
5. Avdeev M.V.; Bica D.; Vékás L.; Marinica O.; Balasoiu M.; Aksenov V.L.; Rosta L.; Garamus V.M.; Schreyer A.; On possibility of using short chain length mono-carboxylic acids for stabilization of magnetic fluids, *Journal of Magnetism and Magnetic Materials* 311 (2007), 6-9. **IF 1,212**
6. Bastardo, L. A.; Iruthayaraj, J.; Lundin, M.; Dedinaite, A.; Vareikis, A.; Makuska, R.; van der Wal, A.; Furó, I.; Garamus, V.M.; Claesson, P.; Soluble complexes in aqueous mixtures of low charge density comb polyelectrolytes and oppositely charged surfactants probed by scattering and NMR, *Journal of Colloid and Interface Science* 312 (2007), 21-33. **IF 2,233**
7. Beckers, M.; Schell, N.; Martins, R.M.S.; Muecklich, A.; Moeller, W.; Hultman, L.; Nucleation and growth of Ti₂AlN thin films deposited by reactive magnetron sputtering onto MgO(111), *Journal of Applied Physics* 102 (2007), 074916/1-074916/8. **IF 2,316**
8. Beckmann, F.; Grupp, R.; Haibel, A.; Huppmann, M.; Nöthe, M.; Pyzalla, A.; Reimers, W.; Schreyer, A.; Zettler, R.; In-situ synchrotron X-ray microtomography studies of microstructure and damage evolution in engineering materials, *Adv. Eng. Materials* 9 (2007), 939-950. **IF 1,402**
9. Berthold, A.; Haibel, A.; Brandes, N.; Kroh, L.; Gross, U.; Uharek, L.; Schubert, H.; Biocompatible porous ceramics for the cultivation of hematopoietic cells; *Journal of Materials Science: Materials in Medicine* 18 (2007), 1333-1338. **IF 1,562**

10. Bica, D.; Vékás, L.; Avdeev, M.V.; Marinica, O.; Socoliuc, V.; BalasoIU, M.; Garamus, V.M.; Sterically stabilized water based magnetic fluids: Synthesis, structure and properties, *Journal of Magnetism and Magnetic Materials* 311 (2007), 17-21. **IF 1,212**
11. **Bischof, M.; Staron, P.; Michels, A.; Granitzer, P.; Rumpf, K.; Leitner, H.; Scheu, C.; Clemens, H.; The influence of spin-misalignment scattering on the SANS data evaluation of martensitic age-hardening steels, *Acta Materialia* 55 (2007), 2637 - 2646. IF 3,549**
12. Boin, M.; Haibel, A.; Compensation of ring artefacts in synchrotron tomographic images, *Optics Express* 14 (2007), 12071-12075. **IF 4,009**
13. Brokmeier, H.-G.; Lenser, S.; Schwarzer, R.; Ventzke, V.; Riekehr, S.; Kocak, M.; Homeyer, J.; Crystallographic texture of dissimilar laser welded Al5083-Al6013 sheets, *Materials Science Forum* 539-543 (2007), 3894 - 3899. **IF 0,399**
14. Brokmeier, H.-G.; Jin, S. J.; Ventzke, V., Kocak, M.; Homeyer, J.: Phase distribution over a γ -TAB/Ti6Al4V friction weld, *Z. Kristallographie Suppl.* 26 (2007), 305-310. **IF 1,897**
15. Brokmeier, H.-G.; Yi, S. B.; Schwebke, B.; Homeyer, J.: In-situ texture analysis under applied load using high-energy X-rays, *Z. Kristallographie Suppl.* 26 (2007), 159-164. **IF 1,897**
16. Burrows, H.D.; Tapia, M.J.; Silva, C.L.; Pais, A.A.C.C.; Fonseca, S.M.; Pina, J.; de Melo, J.S.; Wang, Y.; Marques, E.F.; Knaapila, M.; Monkman, A.P.; Garamus, V.M.; Pradhan, S.; Scherf, U.; Interplay of Electrostatic and Hydrophobic Effects with Binding of Cationic Gemini Surfactants and a Conjugated Polyanion: Experimental and Molecular Modeling Studies, *Journal of Physical Chemistry B* 111 (2007), 4401-4410. **IF 4,115**
17. Feyerabend, F.; Witte, F., Kammal, M.; Willumeit, R.; Unphysiologically high magnesium concentrations support chondrocyte proliferation and redifferentiation, *Tissue Engineering* 12 (2007), 3545-3556. **IF 3,725**
18. Garbe, U.; Hofmann, M.; Brokmeier, H.-G.: Stress and local texture measurement at the materials science diffractometer STRESS-SPEC at the FRM-II, *Z. Kristallographie Suppl.* 26 (2007), 171-176. **IF 1,897**
19. Gordeev, G.; Zabenkin, V.; Axelrod, L.; Lazebnik, I.; Wagner, V.; Eckerlebe, H.; Investigation of magnetic mesostructure of (Pd_{0.984}Fe_{0.016})(0.95)Mn-0.05 alloy by polarized neutrons, *Physica B* 397 (2007), 33-35. **IF 0,872**
20. Grigoriev, S.V.; Dyadkin, V.A.; Menzel, D.; Schoenes, J.; Chetverikov, Yu.O.; Okorokov, A.I.; Eckerlebe, H.; Maleyev, S.V.; Magnetic structure of Fe_{1-x}CoxSi in a magnetic field studied via small-angle polarized neutron diffraction, *Physical Review B* 76 (2007), 224424/1-224424/10. **IF 3,107**

21. Grigoriev S.V.; Grigorieva, N.A.; Syromyatnikov A.V.; Napolskii, K.S.; Eliseev, A.A.; Lukashin, A.V.; Tretyakov, Y.D.; Eckerlebe, H.; Two-dimensional spatially ordered Al₂O₃ systems: Small-angle neutron scattering investigation, JETP Letters 85 (2007), 449-453. **IF 1,251**
22. Grigoriev S.V.; Grigorieva, N.A.; Syromyatnikov A.V.; Napolskii, K.S.; Eliseev, A.A.; Lukashin, A.V.; Tretyakov, Y.D.; Eckerlebe, H.; Spatially ordered arrays of magnetic nanowires: Polarized-neutron scattering investigation, JETP Letters 85 (2007), 605-610. **IF 1,251**
23. Grigoriev, S.V.; Maleyev, S.V.; Dyadkin, V.A.; Menzel, D.; Schoenes, J.; Eckerlebe, H.; Principal interactions in the magnetic system Fe_{1-x}CoxSi: Magnetic structure and critical temperature by neutron diffraction and SQUID measurements, Physical Review B 76 (2007), 092407/1-092407/4. **IF 3,107**
24. Grigoriev, S.; Maleyev, S.V.; Okorokov, A.I.; Chetverikov, Y.O.; Eckerlebe, H.; Field-induced reorientation of helix in MnSi near T-C, Journal of Magnetism and Magnetic Materials 310 (2007), 1599-1601. **IF 1,212**
25. Grigoriev, S.V.; Maleyev, S.V.; Okorokov, A.I.; Chetverikov, Yu.O.; Eckerlebe, H.; The magnetic structure of MnSi under an applied field, Journal of Physics 19 (2007), 145286/1-145286/6. **IF 2,038**
26. Grigoryeva, N.A.; Grigoriev, S.V.; Eckerlebe, H.; Eliseev, A.A.; Lukashin, A.V.; Napolskii, K.S.; Polarized small-angle neutron scattering study of two-dimensional spatially ordered systems of nickel nanowires, J. Appl. Cryst. 40 (2007), S 532 – S 536. **IF 2,495**
27. Grigorieva, N.A.; Grigoriev S.V.; Eckerlebe, H.; Eliseev, A.A.; Lukashin, A.V.; Vyacheslavov, A.S.; Polarized SANS study of spatially ordered magnetic nanowires, Physica B 397 (2007), 82-84. **IF 0,872**
28. Haibel, A.; Scheuerlein, C.; Synchrotron Tomography for the Study of Void Formation in Internal Tin Nb₃Sn Superconductors, IEEE Transaction on Applied Superconductivity 17 (2007), 34-39. **IF 0,717**
29. Häußler, D.; Spieker, E.; Jäger, W.; Störmer, M.; Bormann, R.; Michaelsen, C.; Wiesmann, J.; Zwicker, G.; Benbalagh, R.; André, J.-M.; Jonnard, P.; Quantitative TEM characterizations of La/B₄C and Mo/B₄C ultrathin multilayer gratings by geometric phase method, Microelectronic Engineering, 84 (2007), 454-459. **IF 1,398**
30. Halacheva, S.; Rangelov, S.; Garamus, V.M.; Structure and interactions in large compound particles formed by polyglycidol-based analogues to pluronic copolymers in aqueous solution, Macromolecules 40 (2007), 8015-8021. **IF 4,277**

31. Hopp, J.; Trieloff, M.; Buikin, A.I.; Korochantseva, E.V.; Schwarz, W.H.; Althaus, T.; Altherr, R.; Heterogeneous mantle argon isotope composition in the subcontinental lithospheric mantle beneath the Red Sea region, *Chemical Geology* 240 (2007), 36-53. **IF 2,716**
32. Höglund, C.; Beckers, M.; Schell, N.; Borany, J.v.; Birch, J.; Hultman, L.; Topotaxial growth of Ti₂AlN by solid state reaction in AlN/Ti(0001) multilayer thin films, *Applied Physics Letters* 90 (2007), 174106-1 - 174106-3. **IF 3,977**
33. Knaapila, M.; Dias, F.B.; Garamus, V.M.; Almasy, L.; Torkkeli, M.; Leppanen, K.; Galbrecht, F.; Preis, E.; Burrows, H.D.; Scherf, U.; Monkman, A.P.; Influence of Side Chain Length on the Self-Assembly of Hairy-Rod Poly(9,9-dialkylfluorene)s in the Poor Solvent Methylcyclohexane, *Macromolecules* 40 (2007), 9398-9405. **IF 4,277**
34. Kögler, R.; Mucklich, A.; Eichhorn, F.; Schell, N.; Skorupa, W.; Christensen, J. S.; Praseodymium compound formation in silicon by ion beam synthesis, *Vacuum* 81 (2007), 1318-1322. **IF 0,834**
35. Kopitsa, G.P.; Ivanov, V.K.; Grigoriev, S.V.; Meskin, P.E.; Polezhaeva, O.S.; Garamus, V.M.; Mesostructure of Xerogels of Hydrated Zirconium Dioxide, *JETP Letters* 85 (2007), 122-126. **IF 1,521**
36. Korochantseva, E.V.; Trieloff, M.; Lorenz, C.A.; Buykin, A.I.; Ivanova, M.A.; Schwarz, W.H.; Hopp, J.; Jessberger, E.K.; L-chondrite asteroid breakup tied to Ordovician meteorite shower by multiple isochron ⁴⁰Ar-³⁹Ar dating, *Meteorit. Planet. Sci.* 42 (2007), 113-130. **IF 2,524**
37. Krainova, E.A.; Avdeev, M.V.; Merkushina, K.V.; Rodionov, A.I.; Garamus, V.M.; Willumeit, R.; Structure investigations of carbon obtained from cellulose containing wastes by sulfuric carbonization, *Russian Journal of Applied Chemistry* 80 (2007), 1670-1675. **IF 0,187**
38. Leitner, H.; Clemens, H.; Akre, J.; Danoix, F.; Staron, P.; On the evolution of secondary hardening carbides in a high-speed steel characterized by APFIM and SANS, *Intern. J. Mater. Res. (formerly: Z. Metallkd.)* 98 (2007), 1093-1103. **IF 0**
39. Liss, K.-D.; Bartels, A.; Clemens, H.; Bystrzanowski, S.; Stark, A.; Buslaps, T.; Schimansky, F.-P.; Gerling, R.; Schreyer, A.; A study of recrystallization and phase transitions in intermetallic titanium aluminides by in-situ high-energy X-ray diffraction, *Materials Science Forum* 539-543 (2007), 1519 - 1524. **IF 0,399**
40. Manke, I.; Banhart J.; Haibel, A.; Rack, A.; Zabler, S.; Kardjilov, N.; Hilger, A.; Melzer, A.; Riesemeier, H.; In situ investigation of the discharge of alkaline Zn-MnO₂ batteries with synchrotron X-ray and neutron tomographies, *Applied Physics Letters* 90 (2007), 214102/1-214102/3. **IF 3,977**

41. Manke, I.; Hartnig, C.; Grunerbel, M.; Lehnert, W.; Kardjilov, N.; Haibel, A.; Hilger, A.; Banhart, J.; Riesemeier, H.; Investigation of water evolution and transport in fuel cells with high resolution synchrotron X-ray radiography, *Applied Physics Letters* 90 (2007), 174105/1-174105/3. **IF 3,977**
42. Martins, R.M.S.; Schell, N.; Silva, R.J.C.; Pereira, L.; Mahesh, K.K.; Braz Fernandes, F.M.; In-situ study of Ni-Ti thin film growth on a TiN intermediate layer by X-ray diffraction, *Sensors and Actuators B: Chemical* 126 (2007), 332-337. **IF 2,331**
43. Mayrhofer, P.H.; Hultman, L.; Schneider, J.M.; Staron, P.; Clemens, H.; Spinodal decomposition of cubic Ti_{1-x}Al_xN: comparison between experiments and modeling, *Intern. J. Mater. Res. (formerly: Z. Metallkd.)* 98 (2007), 1054-1059. **IF 0**
44. Meister, A.; Bastrop, M.; Koschoreck, S.; Garamus, V.M.; Sinemus, Th.; Hempel, G.; Drescher, S.; Dobner, B.; Richtering, W.; Huber, K.; Blume, A.; Structure-Property Relationship in Stimuli-Responsive Bolaamphiphile Hydrogels, *Langmuir* 23 (2007), 7715-7723. **IF 3,902**
45. Michels, A.; Vecchini, C.; Moze, O.; Suzuki, K.; Pranzas, P.K.; Kohlbrecher, J.; Weissmueller, J.; Temperature dependence of dipole-field scattering in Nanoperm, *Journal of Magnetism and Magnetic Materials* 316 (2007), 448-450. **IF 1,212**
46. Milkereit, G.; Garamus, V.M.; Gerber, S.; Willumeit, R.; Self-assembly properties of alkyloxyethyl -glycosides with different types of carbohydrate headgroups, *Langmuir* 23 (2007), 11488-11495. **IF 3,902**
47. Mueller, B.; Bernhardt, R.; Weitkamp, T.; Beckmann, F.; Braeuer, R.; Schurigt, U.; Schrott-Fischer, A.; Glueckert, R.; Ney, M.; Beleites, T.; Jolly, C.; Scharnweber, D.; Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging, *International Journal of Materials Research* 98 (2007), 1-9. **IF 0**
48. Muller, B.; Bernhardt, R.; Weitkamp, T.; Beckmann, F.; Braeuer, R.; Schurigt, U.; Schrott-Fischer, A.; Glueckert, R.; Ney, M.; Beleites, T.; Jolly, C.; Scharnweber, D.; Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging, *International Journal of Materials Research* 98 (2007), 613-621. **IF 0**
49. Napolskii, K.S.; Eliseev, A.A.; Yesin, N.V.; Lukashin, A.V.; Tretyakov, Yu.D.; Grigorieva, N.A.; Grigoriev, S.V.; Eckerlebe, H.; Ordered arrays of Ni magnetic nanowires: Synthesis and investigation, *Physica E-Low-Dimensional Systems & Nanostructures* 37 (2007), 178-183. **IF 1,084**
50. Napolskii, K.S.; Sinitskii, A.; Grigoriev, S.V.; Grigorieva, N.A.; Eckerlebe, H.; Eliseev, A.A.; Lukashin, A.V.; Tretyakov, Y.D.; Topology constrained magnetic structure of Ni photonic crystals, *Physica B* 397 (2007), 23-26. **IF 0,872**

51. Neues, F.; Goerlich, R.; Renn, J.; Beckmann, F.; Epple, M.; Skeletal deformations in medaka (*Oryzias latipes*) visualized by synchrotron radiation micro-computer tomography (SR μ CT), *Journal of Structural Biology* 160 (2007), 236-240. **IF 3,496**
52. Nöthe, M.; Schulze, M.; Grupp, R.; Kieback, B.; Haibel, A.; Investigation of sintering of spherical copper powder by micro focus computed tomography (μ CT) and synchrotron tomography; *Materials Science Forum* 539-543 (2007), 2657-2662. **IF 0,399**
53. Nöthe, M.; Schulze, M.; Grupp, R.; Kieback, B.; Haibel, A.; Banhart, J.; Analysis of Particle Rearrangement during Sintering by Micro Focus Computed Tomography (μ CT); *Materials Science Forum* 534-536 (2007). **IF 0,399**
54. Papadakis, C.M.; Ivanova, R.; Luedtke, K.; Mortensen, K.; Pranzas, P.K.; Jordan, R.; Micellar structure of amphiphilic poly(2-oxazoline) diblock copolymers, *J. Appl. Cryst.* 40 (2007), S 361 - S 362. **IF 2,495**
55. Pranzas, P.K.; Dornheim, M.; Bösenberg, U.; Ares Fernandez, J.R.; Goerigk, G.; Roth, S.V.; Gehrke, R.; Schreyer, A.: Small-angle scattering investigations of magnesium hydride used as a hydrogen storage material, *J. Appl. Cryst.* 40 (2007), S 383 - S 387. **IF 2,495**
56. Price, D.A.; Williams, S.W.; Wescott, A.; Harrison, C.J.C.; Rezai, A.; Steuer, A.; Peel, M.; Staron, P.; Kocak, M.; Distortion control in welding by mechanical tensioning, *Science and Technology of Welding and Joining* 12 (2007), 620-633. **IF 0,891**
57. Scheuerlein, C.; Di Michiel, M.; Haibel, A.; On the formation of voids in internal tin Nb₃Sn superconductors, *Applied Physics Letters* 90 (2007), 132510/1-132510/3. **IF 3,977**
58. **Skrotzki, W.; Scheerbaum, N.; Oertel, C.-G.; Brokmeier, H.-G.; Suwas, S.; Toth, L.S.: Recrystallization og high-purity aluminium during equal channel angular pressing, *Acta Materialia* 55 (2007), 2211 - 2218. IF 3,549**
59. Sommer, C.; Deen, G.R.; Pedersen, J.S.; Strunz, P.; Garamus, V.M.; Microemulsion Droplets Decorated by Brij700 Block Copolymer: Phase Behaviour and Structural Investigation by SAXS and SANS, *Langmuir* 23 (2007), 6544-6553. **IF 3,902**
60. **Staron, P.; Cihak, U.; Clemens, H.; Stockinger, M.; Bayraktar, F.S.; Kocak, M.; Schreyer, A.; Diffraction-based residual stress analysis applied to problems in the aircraft industry, *Advanced Engineering Materials* 9 (2007), 627-638. IF 1,402**

61. Störmer, M.; André, J.-M.; Michaelsen, C.; Benbalagh, R.; Jonnard, P.; X-ray scattering from etched and coated multilayer gratings, *J. Phys. D: Appl. Phys.* 40 (2007), 4253–4258. **IF 2,077**
62. Strunz, P.; Mukherji, D.; Pigozzi, G.; Gilles, R.; Geue, T.; Pranzas, K.; Characterization of core-shell nanoparticles by small angle neutron scattering, *Applied Physics A* 88 (2007), 277-284. **IF 1,739**
63. Stuhrmann, H.B.; Contrast variation in X-ray and neutron scattering, *J. Appl. Cryst.* 40 (2007), 23–27. **IF 2,495**
64. Stuhrmann, H.B.; The electron-spin-nuclear-spin interaction studied by polarized neutron scattering, *Acta Crystallographica, Section A* 63 (2007), 455-464. **IF 1,676**
65. Timchenko, A. ; Shiryayev, V.M.; Fedorova, Yu.Yu.; Kihara, H.; Kimura, K.; Willumeit, R.; Garamus, V.M.; Selivanova, O.M.; Conformation of the ribosomal protein S1 of *Thermus thermophilus* in solution under different ionic conditions, *Biofizika* 52 (2007), 216-222. **IF 0,435**
66. Timchenko, A.A.; Shiryayev, V.M.; Fedorova, Y.Y.; Kihara, H.; Kimura, K.; Willumeit, R.; Haramus, V.; Selivanova, O.M.; Conformation of *Thermus thermophilus* Ribosomal Protein S1 in Solution at Different Ionic Strengths, *Biophysics* 52 (2007), 162 - 167. **IF 0,435**
67. Toperverg, B. P.; Kampmann, R.; Lauter-Pasyuk, V. V.; Lauter, H. J.; Tietze, U.; Solina, D.; Schreyer, A.; Larmor encoding and Fourier reconstruction for wavelength dispersive reflectometry, *Physica B* 397 (2007), 141 - 143. **IF 0,872**
68. Topuz, G.; Altherr, R.; Schwarz, W.H.; Dokuz, A.; Meyer, H.-P.; Variscan amphibolite-facies metamorphic rocks from the Kurtoğlu metamorphic complex (Gümüşhane area, Eastern Pontides, Turkey), *International Journal of Earth Sciences* 96 (2007), 861-873. **IF 1,905**
69. Traiphol, R.; Sriksirin, T.; Kerdcharoen, T.; Osotchan, T.; Scharnagl, N.; Willumeit, R.; Influences of local polymer-solvent pi-pi-interaction on dynamics of phenyl ring rotation and its role on photophysics of conjugated polymer, *European Polymer Journal* 43 (2007), 478-487. **IF 2,113**
70. Vyacheslavov, A.S.; Eliseev, A.A.; Lukashin, A.V.; Tretyakov, Y.D.; Grigorieva, N.A.; Grogoriev, S.V.; Eckerlebe, H.; Ordered cobalt nanowires in mesoporous aluminosilicate, *Materials Science & Engineering C* 27 (2007), 1411-1414. **IF 1,325**
71. Willumeit, R.; Schossig, M.; Clemens, H.; Feyerabend, F.; In-vitro interactions of human chondrocytes and mesenchymal stem cells, and of mouse macrophages with phospholipid-covered metallic implant materials, *European Cells and Materials* 13 (2007), 11 - 25. **im Web of Science, kein IF**

72. Willumeit, R.; Schuster, A.; Iliev, P.; Linser, S.; Feyerabend, F.; Phospholipids as implant coatings, *Journal of Materials Science-Materials in Medicine* 18 (2007), 367-380. **IF 1,562**
73. **Witte, F.; Feyerabend, F.; Fischer, J.; Maier, P.; Stoermer, M.; Blawert, C.; Dietzel, W.; Hort, N.; Biodegradable magnesium-hydroxyapatite metal matrix composites, *Biomaterials* 28 (2007), 2163-2174. IF 5,195**
74. Wolff, M.; Pranzas, K.; Magerl, A.; Zabel, H.; Crystallization of F68 micelles, *Superlattices and Microstructures* 41 (2007), 190-195. **IF 1,259**
75. Yi, S. B.; Brokmeier, H.-G.; Homeyer, J.: In-situ investigation of orientation changes during heating of extruded AZ31, *Materials Science Forum* 561-565 (2007), 183-186. **IF 0,399**
76. Zehbe, R.; Haibel, A.; Brochhausen, C.; Gross, U.; Kirkpatrick, C. J.; Schubert, H.; Characterization of oriented protein-ceramic and protein-polymer-composites for cartilage tissue engineering using synchrotron μ -CT; *International Journal of Materials Research* 2007/7 (2007), 562-568. **IF 0**
77. Zhou, S.Q.; Potzger, K.; Zhang, G.F.; Muecklich, A.; Eichhorn, F.; Schell, N.; Groetzschel, R.; Schmidt, B.; Skorupa, W.; Helm, M.; Fassbender, J.; Geiger, D.; Structural and magnetic properties of Mn-implanted Si, *Physical Review B* 75 (2007), 085203/1-085203/6 **IF 3,107**

MARCOPOLI

1. Aulinger, A.; Matthias, V.; Quante, M.: Introducing a partitioning mechanism for PAHs into the Community Multiscale Air Quality modelling system and its application to simulating the transport of benzo(a)pyrene over Europe. In: Journal of Applied Meteorology and Climatology. Vol. 46 Boston, MA: American Meteorological Society, (2007) 11, 1718 - 1730. (DOI: 10.1175/2007JAMC1395.1) **IF 1,736**
2. Barber, J.L.; Berger, U.; Chaemfa, C.; Huber, S.; Jahnke, A.; Temme, C.; Jones, K.C.: Analysis of per- and polyfluorinated alkyl substances in air samples from Northwest Europe. In: Journal of Environmental Monitoring. Vol. 9 Cambridge: Royal Society of Chemistry, (2007) 6, 530 - 541. (DOI: 10.1039/b701417a) **IF 1,523**
3. Beck, I.-C.; Bruhn, R.; Gandrass, J.: Bioassay-directed fractionation for analyzing estrogens in surface waters of the German Baltic Sea. In: Acta Hydrochimica et Hydrobiologica. Vol. 34 (2007) 6, 560 - 567. (DOI: 10.1002/aheh.200600654) **IF 0,632**
4. Behnert, I.; Matthias, V.; Doerffer, R.: Aerosol climatology from ground-based measurements for the southern North Sea. In: Atmospheric Research. Vol. 84 (2007) 3, 201 - 220. (DOI: 10.1016/j.atmosres.2006.05.006) **IF 1,304**
5. Brenninkmeijer, C.A.M.; Crutzen, P.; Boumard, F.; Dauer, T.; Dix, B.; Ebinghaus, R.; Filippi, D.; Fischer, H.; Franke, H.; Friess, U.; Heintzenberg, J.; Helleis, F.; Hermann, M.; Kock, H.-H.; Koepfel, C.; Lelieveld, J.; Leuenberger, M.; Martinsson, B.G.; Miemczyk, S.; Moret, H.P.; Nguyen, H.N.; Nyfeler, P.; Oram, D.; O'Sullivan, D.; Penkett, S.; Platt, U.; Pucek, M.; Ramonet, M.; Randa, B.; Reichelt, M.; Rhee, T.S.; Rohwer, J.; Rosenfeld, K.; Scharffe, D.; Schlager, H.; Schumann, U.; Slemr, F.; Sprung, D.; Stock, P.; Thaler, R.; Valentino, F.; Velthoven, P.van; Waibel, A.; Wandel, A.; Waschitschek, K.; Wiedensohler, A.; Xueref-Remy, I.; Zahn, A.; Zech, U.; Ziereis, H.: Civil Aircraft for the Regular Investigation of the Atmosphere based on an Instrumented Container: The new CARIBIC system. In: Atmospheric Chemistry and Physics . Vol. 7 Katlenburg-Lindau: EGU, (2007) 18, 4953 - 4976. **IF 4,362**
6. Dankert, H.; Horstmann, J.: A Marine Radar Wind Sensor. In: Journal of Atmospheric and Oceanic Technology. Vol. 24 Boston: AMS, (2007) 9, 1629 - 1642. (DOI: 10.1175/JTECH2083.1) **IF 1,298**
7. Deque, M.; Rowell, D.; Luethi, D.; Giorgi, F.; Christensen, J.; Rockel, B.; Jacob, D.; Kjelstroem, E.; De Castro, M.; Hurk, B.van den: An intercomparison of regional climate simulations for Europe: assessing uncertainties in model projections . In: Climatic Change. Vol. 81 Netherlands: Springer, (2007) S1, 53 - 70. (DOI: 10.1007/s10584-006-9228-x) **IF 2,459**

8. **Doerffer, R.; Schiller, H.: The MERIS Case 2 Water Algorithm. In: International Journal of Remote Sensing. Vol. 28 London: Taylor & Francis, (2007) 3-4, 517-535. (DOI: 10.1080/01431160600821127) IF 0,980**
9. Dommergue, A.; Bahlmann, E.; Ebinghaus, R.; Ferrari, C.; Boutron, C.: Laboratory simulation of Hg⁰ emissions from a snowpack. In: Analytical and Bioanalytical Chemistry. Vol. 388 Berlin / Heidelberg: Springer, (2007) 2, 319 - 327. (DOI: 10.1007/s00216-007-1186-2) **IF 2,591**
10. Ebinghaus, R.; Slemr, F.; Brenninkmeijer, C.A.M.; Velthoven, P.van; Zahn, A.; Hermann, M.; O'Sullivan, D.A.; Oram, D.E.; : Emissions of gaseous mercury from biomass burning in South America in 2005 observed during CARIBIC flights. In: Geophysical Research Letters. Vol. 34 Washington, DC: AGU, (2007) L08813. (DOI: 10.1029/2006GL028866) **IF 2,602**
11. Fernandez, J.; Montavez, J.; Saez, J.; Gonzalez-Rouco, F.; Zorita, E.: Sensitivity of the MM5 mesoscale model to physical parameterizations for regional climate studies: Annual cycle. In: Journal of Geophysical Research. Vol. 112 Washington, DC: AGU, (2007) D04101. (DOI: 10.1029/2005JD006649) **IF 2,800**
12. Fischer, E.M.; Luterbacher, J.; Zorita, E.; Tett, S.F.B.; Casty, C.; Wanner, H.: European climate response to tropical volcanic eruptions over the last half millennium. In: Geophysical Research Letters. Vol. 34 Washington, DC: AGU, (2007) L05707. (DOI: 10.1029/2006GL027992) **IF 2,602**
13. Fonfara, S.; Siebert, U.; Prange, A.: Cytokines and acute phase proteins as markers for infection in harbour porpoises (*Phocoena phocoena*). In: Marine Mammal Science. Vol. 23 Lawrence: Society Marine Mammalogy, (2007) 4, 931 - 942. (DOI: 10.1111/j.1748-7692.2007.00140.x) **IF 1,235**
14. Fonfara, S.; Siebert, U.; Prange, A.; Colijn, F.: The impact of stress on cytokine and haptoglobin mRNA expression in blood samples from harbour porpoises (*Phocoena phocoena*). In: Journal of the Marine Biological Association of the United Kingdom. Vol. 87 Cambridge : University Press , (2007) 305 - 311. (DOI: 10.1017/S0025315407055567) **IF 0,778**
15. Frank, C.; Schroeder, F.: Using sequential injection analysis to improve system and data reliability of on-line methods: Determination of ammonium and phosphate in coastal waters. In: Journal of Automated Methods and Management in Chemistry. New York: Hindawi Publishing Corporation, (2007) 49535. (DOI: 10.1155/2007/49535) **IF 0,133**
16. Friedrichs, M.A.; Dusenberry, J.A.; Anderson, L.A.; Armstrong, R.; Chai, F.; Christian, J.R.; Doney, S.C.; Dunne, J.; Fujii, M.; Hood, R.; McGillicuddy, D.; Moore, J.K.; Schartau, M.; Spitz, Y.H.; Wiggert, J.D.: Assessment of skill and portability in regional marine biogeochemical models: Role of multiple planktonic groups. In: Journal of Geophysical Research. Vol. 112 Washington, DC: AGU, (2007) C08001. (DOI: 10.1029/2006JC003852) **IF 2,8**

17. Gouirand, I.; Moberg, A.; Zorita, E.: Climate variability in Scandinavia for the past millennium simulated by an atmosphere-ocean general circulation model. In: *Tellus A*. Vol. 59 Oxford: Blackwell Munksgaard, (2007) 1, 30 - 49. **IF 2,245**
18. Gouirand, I.; Moron, V.; Zorita, E.: Teleconnections between ENSO and North Atlantic in an ECHO-G simulation of the 1000–1990 period. In: *Geophysical Research Letters*. Vol. 34 Washington, DC: AGU, (2007) L06705. (DOI: 10.1029 2006GL028852) **IF 2,602**
19. Grossmann, I.: Critical and strategic factors for scenario development and discontinuity tracing. In: *Futures*. Vol. 39 Amsterdam; Jena: Elsevier, (2007) 7, 878 - 894. (DOI: 10.1016/j.futures.2006.12.010) **IF 0,738**
20. Helmholz, H.; Ruhnau, C.; Schuett, C.; Prange, A.: Comparative study on the cell toxicity and enzymatic activity of two northern scyphozoan species *Cyanea capillata* (L.) and *Cyanea lamarckii* (Péron & Lésieur). In: *Toxicon*. Vol. 50 Oxford: Pergamon Press, (2007) 1, 53 - 64. (DOI: 10.1016/j.toxicon.2007.02.014) **IF 2,509**
21. Huenicke, B.; Zorita, E.: Trends in the amplitude of Baltic Sea level annual cycle. In: *Tellus A*. Vol. 60 Oxford: Blackwell Munksgaard, (2007) 1, 154 - 164. (DOI: 10.1111/j.1600-0870.2007.00277.x) **IF 2,245**
22. Jacob, D.; Baerring, L.; Christensen, O.B.; Christensen, J.H.; de Castro, M.; Deque, M.; Giorgi, F.; Hagemann, S.; Hirschi, M.; Jones, R.; Kjellstroem, E.; Lenderink, G.; Rockel, B.; Sanchez, E.; Schaer, C.; Seneviratne, S.; Somot, S.; Ulden, A.van; Hurk, B.van den: An inter-comparison of regional climate models for Europe: model performance in present-day climate . In: *Climatic Change*. Vol. 81 Netherlands: Springer, (2007) S1, 31 - 52. (DOI: 10.1007/s10584-006-9213-4) **IF 2,459**
23. Jahnke, A.; Ahrens, L.; Ebinghaus, R.; Berger, U.; Barber, J.L.; Temme, C.: An improved method for the analysis of volatile polyfluorinated alkyl substances in environmental air samples. In: *Analytical and Bioanalytical Chemistry*. Vol. 387 Berlin / Heidelberg: Springer, (2007) 3, 965 - 975. (DOI: 10.1007/s00216-006-1008-y) **IF 2,591**
24. **Jahnke, A.; Ahrens, L.; Ebinghaus, R.; Temme, C.: Urban versus remote air concentrations of fluorotelomer alcohols and other polyfluorinated alkyl substances in Germany. In: *Environmental Science and Technology*. Vol. 41 Washington, DC: ACS, (2007) 3, 745 - 752. (DOI: 10.1021/es0619861) IF 4,040**
25. Jahnke, A.; Berger, U.; Ebinghaus, R.; Temme, C.: Latitudinal gradient of airborne polyfluorinated alkyl substances in the marine atmosphere between Germany and South Africa (53°N-33°S). In: *Environmental Science and Technology*. Vol. 41 Washington, DC: ACS, (2007) 9, 3055 - 3061. (DOI: 10.1021/es062389h) **IF 4,040**

26. Jahnke, A.; Huber, S.; Temme, C.; Kylin, H.; Berger, U.: Development and application of a simplified sampling method for volatile polyfluorinated alkyl substances in indoor and environmental air. In: *Journal of Chromatography A*. Vol. 1164 (2007) 1-2, 1 - 9. (DOI: 10.1016/j.chroma.2007.06.068) **IF 3,554**
27. Jung, M.; Vetter, M.; Herold, M.; Chrukina, G.; Reichstein, M.; Zaehle, S.; Cias, P.; Viovy, N.; Bondeau, A.; Chen, Y.; Trusilova, K.; Feser, F.; Heimann, M.: Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. In: *Global Biogeochemical Cycles*. Vol. 21 Washington, DC: AGU, (2007) GB4021. (DOI: 10.1029/2006GB002915) **IF 3,796**
28. **Lanuru, M.; Riethmueller, R.; Bernem, K.-H.van; Heymann, K.: The effect of bedforms (crest and trough systems) on sediment erodibility on a back-barrier tidal flat of the East Frisian Wadden Sea, Germany. In: *Estuarine, Coastal and Shelf Science*. Vol. 72 (2007) 4, 603 - 617. (DOI: 10.1016/j.ecss.2006.11.009) IF 1,733**
29. Lehnert, K.; Fonfara, S.; Wohlsein, P.; Siebert, U.: Whale lice (*Isocyamus delphinii*) on a harbour porpoise (*Phocoena phocoena*) from German waters. In: *The Veterinary Record*. Vol. 161 London: British Veterinary Association, (2007) 526 - 528. **IF 1,168**
30. Lindberg, S.; Bullock, R.; Ebinghaus, R.; Engstrom, D.; Feng, X.; Fitzgerald, W.; Pirrone, N.; Prestbo, E.; Seigneur, C.: A synthesis of progress and uncertainties in attributing the sources of mercury in deposition. In: *Ambio*. Vol. 36 Stockholm: Royal Swedish Academy of Sciences, (2007) 1, 19 - 32. (DOI: 10.1579/0044-7447(2007)36[19:ASOPAU]2.0.CO;2) **IF 1,433**
31. Matulla, C., Schoener, W.; Alexandersson, H.; Storch, H.v.; Wang, X.L.: European storminess: late nineteenth century to present. In: *Climate Dynamics*. Berlin / Heidelberg: Springer, (2007) (DOI: 10.1007/s00382-007-0333-y) **IF 3,344**
32. Matulla, C.; Zhang, X.; Wang, X.L.; Wang, J.; Zorita, E.; Wagner, S.; Storch, H.v.: Influence of similarity measures on the performance of the analog method for downscaling daily precipitation. In: *Climate Dynamics*. Vol. 30 Berlin / Heidelberg: Springer, (2007) 2-3, 133 - 144. (DOI: 10.1007/s00382-007-0277-2) **IF 3,344**
33. Onken, R.; Alvarez, A.; Fernandez, V.; Vizoso, G.; Basterretxea, G.; Tintore, J.; Haley, P.; Nacini, E.: A forecast experiment in the Balearic Sea. In: *Journal of Marine Systems*. (2007) (DOI: 10.1016/j.jmarsys.2007.05.008) **IF 1,447**
34. Onken, R.; Callies, U.; Vaessen, B.; Riethmueller, R.: Indirect determination of the heat budget of tidal flats. In: *Continental Shelf Research*. Vol. 27 (2007) 12, 1656 - 1676. (DOI: 10.1016/j.csr.2007.01.029) **IF 2,030**

35. Petersen, W., Wehde, H.; Krasemann, H.; Colijn, F.; Schroeder, F.: FerryBox and MERIS – Assessment of coastal and shelf sea ecosystems by combining in situ and remotely sensed data. In: Estuarine, Coastal and Shelf Science. (2007) (DOI: 10.1016/j.ecss.2007.09.023) **IF 1,733**
36. Rockel, B.; Woth, K.: Extremes of near-surface wind speed over Europe and their future changes as estimated from an ensemble of RCM simulations . In: Climatic Change. Vol. 81 Netherlands: Springer, 2007. S1, 267 - 280. (DOI: 10.1007/s10584-006-9227-y) **IF 2,479**
37. Roettgers, R.; Doerffer, R.: Measurements of optical absorption by chromophoric dissolved organic matter using a point-source integrating-cavity absorption meter. In: Limnology and Oceanography: Methods. Vol. 5 Waco, TX: ASLO, (2007) 126 - 135. **IF 2,322**
38. Roettgers, R.; Haese, C.; Doerffer, R.: Determination of the particulate absorption of microalgae using a point-source integrating-cavity absorption meter: verification with a photometric technique. In: Limnology and Oceanography: Methods. Vol. 5 Waco, TX: ASLO, (2007) 1, 1 - 12. **IF 2,322**
39. Sassen, K.; Wang, L.; Starr, D.O.; Comstock, J.M.; Quante, M.; : A Midlatitude Cirrus Cloud Climatology from the Facility for Atmospheric Remote Sensing. Part V: Cloud Structural Properties. In: Journal of the Atmospheric Sciences. Vol. 64 Boston: AMS, (2007) 7, 2483 - 2501. (DOI: 10.1175/JAS3949.1) **IF 2,163**
40. Schartau, M.; Engel, A.; Schroeter, J.; Thoms, S.; Voelker, C.; Wolf-Gladrow, D.: Modelling carbon overconsumption and the formation of extracellular particulate organic carbon. In: Biogeosciences. Vol. 4 Katlenburg-Lindau : Copernicus, (2007) 4, 433 - 454. (DOI: ciencias.net/4/433/2007/bg-4-433-2007.html) **IF 2,125**
41. Schiller, H.: Model inversion by parameter fit using NN emulating the forward model - Evaluation of indirect measurements. In: Neural networks. Vol. 20 (2007) 4, 479 - 483. (DOI: 10.1016/j.neunet.2007.04.022) **IF 2,000**
42. Schiller, H.; Schoenfeld, W.; Krasemann, H.; Schiller, K. : Novelty Detection – Recognition and Evaluation of Exceptional Water Reflectance Spectra. In: Environmental Monitoring and Assessment. Vol. 132 Netherlands: Springer, (2007) 1-3, 339 - 350. (DOI: 10.1007/s10661-006-9538-5) **IF 0,793**
43. Soerensen, K.; Grung, M.; Roettgers, R.: An intercomparison of in vitro chlorophyll a determinations for MERIS level 2 data validation. In: International Journal of Remote Sensing. Vol. 28 London: Taylor & Francis, (2007) 3-4, 537 - 554. (DOI: 10.1080/01431160600815533) **IF 0,980**
44. Sokolova, E.; Dethloff, K.; Rinke, A.; Benkel, A.: Planetary and synoptic scale adjustment of the Arctic atmosphere to sea ice cover changes. In: Geophysical

- Research Letters. Vol. 34 Washington, DC: AGU, (2007) 17, L17816. (DOI: 10.1029/2007GL030218) **IF 2,602**
45. Sonne, C.; Fonfara, S.; Dietz, R.; Kirkegaard, M.; Letcher, R.J.; Shahmiri, S.; Andersen, S.; Moeller, P.: Multiple Cytokine and Acute-Phase Protein Gene Transcription in West Greenland Sledge Dogs (*Canis familiaris*) Dietary Exposed to Organic Environmental Pollutants. In: Archives of Environmental Contamination and Toxicology. Vol. 53 New York, NY ; Berlin ; Heidelberg: Springer, (2007) 1, 110 - 118. (DOI: 10.1007/s00244-006-0135-y) **IF 1,419**
 46. Storch, H.v.: From Beaufort to Bjerknes and Beyond (Buchbesprechung). In: Meteorologische Zeitschrift. Vol. 16 Stuttgart: Borntraeger, (2007) 235. **IF 1,007**
 47. Takle, E.S.; Roads, J.; Rockel, B.; Gutowski, W.J.; Arritt, R.W.; Meinke, I.; Jones, C.G.; Zadra, A.: Transferability intercomparison: An opportunity for new insight on the global water cycle and energy budget. In: Bulletin of the American Meteorological Society. Vol. 88 Boston, MA: AMS, (2007) 3, 375 - 384. (DOI: 10.1175/BAMS-88-3-375) **IF 3,728**
 48. Temme, C.; Blanchard, P.; Steffen, A.; Banic, C.; Beauchamp, S.; Poissant, L.; Tordon, R.; Wiens, B.: Trend, seasonal and multivariatenext term analysis study of total gaseous mercury data from the Canadian atmospheric mercury measurement network (CAMNet). In: Atmospheric Environment . Vol. 41 (2007) 26, 5423 - 5441. (DOI: 10.1016/j.atmosenv.2007.02.021) **IF 2,630**
 49. Tian, T.; Fiksen, O.; Folkvord, A.: Estimating larval fish growth under size-dependent mortality: a numerical analysis of bias. In: Canadian Journal of Fisheries and Aquatic Sciences. Vol. 64 Ottawa: NRC Research Press, (2007) 3, 554 - 562. (DOI: 10.1139/F07-031) **IF 1,882**
 50. Waengberg, I.; Munthe, J.; Berg, T.; Ebinghaus, R.; Kock, H.H.; Temme, C.; Bieber, E.; Spain, G.; Stolk, A.: Trends in Air Concentrations and Deposition of Mercury in the Coastal Environment of the North Sea Area. In: Atmospheric Environment . Vol. 41 (2007) 12, 2612 - 2619. (DOI: 10.1016/j.atmosenv.2006.11.024) **IF 2,630**
 51. Wagner, S.; Widmann, M.; Jones, J.; Haberzettl, T.; Luecke, A.; Mayr, C.; Ohlendorf, C.; Schaebitz, F.; Zolitschka, B.: Transient simulations, empirical reconstructions and forcing mechanisms for the Mid-holocene hydrological climate in southern Patagonia. In: Climate Dynamics. Vol. 29 Berlin / Heidelberg: Springer, (2007) 4, 333 - 355. (DOI: 10.1007/s00382-007-0229-x) **IF 3,344**
 52. Weisse, R.; Guenther, H.: Wave climate and long-term changes for the Southern North Sea obtained from a high-resolution hindcast 1958-2002. In: Ocean Dynamics. Vol. 57 Berlin / Heidelberg: Springer, (2007) 3, 161 - 172. (DOI: 10.1007/s10236-006-0094-x) **IF 1,165**

53. Wen, Z.; Niemeyer, B.: Evaluation of two different Concanavalin A affinity adsorbents for the adsorption of glucose oxidase. In: *Journal of Chromatography B*. Vol. 857 (2007) 1, 149 - 157. (DOI: 10.1016/j.jchromb.2007.07.020) **IF 2,647**
54. Wichard, T.; Gerecht, A.; Boersma, M.; Poulet, S.A.; Wiltshire, K.H.; Pohnert, G.: Lipid and fatty acid composition of Diatoms revisited: Rapid wound activated change of food quality parameters influences herbivore success. In: *ChemBioChem - A European Journal of Chemical Biology*. Vol. 8 Weinheim: Wiley, (2007) 10, 1146 - 1153. (DOI: 10.1002/cbic.200700053) **IF 4,1**
55. Xie, Z.; Ebinghaus, R.; Lohmann, R.; Heemken, O.; Caba, A.; Puettmann, W.: Trace determination of the flame retardant tetrabromobisphenol A in the atmosphere by gas chromatography-mass spectrometry. In: *Analytica Chimica Acta*. Vol. 584 (2007) 2, 333 - 342. (DOI: 10.1016/j.aca.2006.10.062) **IF 2,894**
56. Xie, Z.; Ebinghaus, R.; Temme, C.; Heemken, O.; Ruck, W.: Air-sea exchange fluxes of synthetic polycyclic musks in the North Sea and the Arctic. In: *Environmental Science and Technology*. Vol. 41 Washington, DC: ACS, (2007) 16, 5654 - 5659. (DOI: 10.1021/es0704434) **IF 4,040**
57. Xie, Z.; Ebinghaus, R.; Temme, C.; Lohmann, R.; Caba, A.; Ruck, W.: Occurrence and Air-Sea Exchange of Phthalates in the Arctic. In: *Environmental Science and Technology*. Vol. 41 Washington, DC: ACS, (2007) 13, 4555 - 4560. (DOI: 10.1021/es0630240) **IF 4,040**
58. Zeng, F.; Cui, K.; Xie, Z.; Liu, M.; Li, Y.; Lin, Y.; Zeng, Z.; Li, F.: Occurrence of phthalate esters in water and sediment of urban lakes in a subtropical city, Guangzhou, South China. In: *Environment International*. (2007) (DOI: 10.1016/j.envint.2007.09.002) **IF 2,626**
59. Boersma, M; Malzahn, AM; Greve, W; Javidpour, J. 2007. The first occurrence of the ctenophore *Mnemiopsis leidyi* in the North Sea. *HELGOLAND MARINE RESEARCH* 61 (2): 153-155. Author Full Name(s): Boersma, Maarten; Malzahn, Arne M.; Greve, Wulf; Javidpour, Jamileh ISSN: 1438-387X **IF 1,176**
60. Fain, X; Grangeon, S; Bahlmann, E; Fritsche, J; Obrist, D; Dommergue, A; Ferrari, CP; Cairns, W; Ebinghaus, R; Barbante, C; Cescon, P; Boutron, C. 2007. Diurnal production of gaseous mercury in the alpine snowpack before snowmelt. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES* 112 (D21): doi:. Author Full Name(s): Fain, Xavier; Grangeon, Sylvain; Bahlmann, Enno; Fritsche, Johannes; Obrist, Daniel; Dommergue, Aurelien; Ferrari, Christophe P.; Cairns, Warren; Ebinghaus, Ralf; Barbante, Carlo; Cescon, Paolo; Boutron, Claude ISSN: 0148-0227 **IF 2,800**
61. Hegerl, GC; Crowley, TJ; Allen, M; Hyde, WT; Pollack, HN; Smerdon, J; Zorita, E. 2007. Detection of human influence on a new, validated 1500-year temperature reconstruction. *JOURNAL OF CLIMATE* 20 (4): 650-666. Author Full Name(s): Hegerl, Gabriele C.; Crowley, Thomas J.; Allen, Myles; Hyde,

- William T.; Pollack, Henry N.; Smerdon, Jason; Zorita, Eduardo ISSN: 0894-8755 **IF 3,419**
62. Konidala, P; Niemeyer, B. 2007. Molecular dynamics simulations of pea (*Pisum sativum*) lectin structure with octyl glucoside detergents: The ligand interactions and dynamics. *BIOPHYSICAL CHEMISTRY* 128 (2-3): 215-230. Author Full Name(s): Konidala, Praveen; Niemeyer, Bernd ISSN: 0301-4622 **IF 1,784**
63. Kuttel, M; Luterbacher, J; Zorita, E; Xoplaki, E; Riedwyl, N; Wanner, H. 2007. Testing a European winter surface temperature reconstruction in a surrogate climate. *GEOPHYSICAL RESEARCH LETTERS* 34 (7): doi: Author Full Name(s): Kuettel, M.; Luterbacher, J.; Zorita, E.; Xoplaki, E.; Riedwyl, N.; Wanner, H. ISSN: 0094-8276 **IF 2,602**
64. Liu, X; Wirtz, KW. 2007. Consensus building in oil spill response planning using a fuzzy comprehensive evaluation. *COASTAL MANAGEMENT* 35 (2-3): 195-210. Author Full Name(s): Liu, X.; Wirtz, K. W. ISSN: 0892-0753 **IF 0,738**
65. Liu, X; Wirtz, KW. 2007. Decision making of oil spill contingency options with fuzzy comprehensive evaluation. *WATER RESOURCES MANAGEMENT* 21 (4): 663-676. Author Full Name(s): Liu, X.; Wirtz, K. W. ISSN: 0920-4741 **IF 0,615**
66. Mahlke, IT; Thiesen, PH; Niemeyer, B. 2007. Chemical indices and methods of multivariate statistics as a tool for odor classification. *ENVIRONMENTAL SCIENCE & TECHNOLOGY* 41 (7): 2414-2421. Author Full Name(s): Mahlke, Ingo T.; Thiesen, Peter H.; Niemeyer, Bernd ISSN: 0013-936X **IF 4,040**
67. Malzahn, AM; Aberle, N; Clemmesen, C. 2007. Nutrient limitation of primary producers affects planktivorous fish condition. *LIMNOLOGY AND OCEANOGRAPHY* 52 (5): 2062-2071. Author Full Name(s): Malzahn, Arne Michael; Aberle, Nicole; Clemmesen, Catriona ISSN: 0024-3590 **IF 3,287**
68. Malzahn, AM; Boersma, M. 2007. Year-to-year variation in larval fish assemblages of the Southern North Sea. *HELGOLAND MARINE RESEARCH* 61 (2): 117-126. Author Full Name(s): Malzahn, Arne M.; Boersma, Maarten ISSN: 1438-387X **IF 1,176**
69. Malzahn, AM; Clemmesen, C; Wiltshire, KH; Laakmann, S; Boersma, M. 2007. Comparative nutritional condition of larval dab *Limanda limanda* and lesser sandeel *Ammodytes marinus* in a highly variable environment. *MARINE ECOLOGY-PROGRESS SERIES* 334: 205-212. Author Full Name(s): Malzahn, Arne Michael; Clemmesen, Catriona; Wiltshire, Karen Helen; Laakmann, Silke; Boersma, Maarten ISSN: 0171-8630 **IF 2,286**
70. Matulla, C; Schmutz, S; Melcher, A; Gerersdorfer, T; Haas, P. 2007. Assessing the impact of a downscaled climate change simulation on the fish fauna in an Inner-Alpine River. *INTERNATIONAL JOURNAL OF*

- BIOMETEOROLOGY 52 (2): 127-137. Author Full Name(s): Matulla, C.; Schmutz, S.; Melcher, A.; Gerersdorfer, T.; Haas, P. ISSN: 0020-7128 **IF 3,344**
71. Meinke, I; Roads, J; Kanamitsu, M. 2007. Evaluation of RSM-simulated precipitation during CEOP. JOURNAL OF THE METEOROLOGICAL SOCIETY OF JAPAN 85A: 145-166. Author Full Name(s): Meinke, I.; Roads, J.; Kanamitsu, M. ISSN: 0026-1165 **IF 0,797**
72. Rottgers, R. 2007. Comparison of different variable chlorophyll a fluorescence techniques to determine photosynthetic parameters of natural phytoplankton. DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS 54 (3): 437-451. Author Full Name(s): Roettgers, Ruediger ISSN: 0967-0637 **IF 2,214**
73. Ryaboshapko, A; Bullock, OR; Christensen, J; Cohen, M; Dastoor, A; Ilyin, I; Petersen, G; Syrakov, D; Travnikov, O; Artz, RS; Davignon, D; Draxler, RR; Munthe, J; Pacyna, J. 2007. Intercomparison study of atmospheric mercury models: 2. Modelling results vs. long-term observations and comparison of country deposition budgets. SCIENCE OF THE TOTAL ENVIRONMENT 377 (2-3): 319-333. Author Full Name(s): Ryaboshapko, Alexey; Bullock, O. Russell, Jr.; Christensen, Jesper; Cohen, Mark; Dastoor, Ashu; Ilyin, Ilia; Petersen, Gerhard; Syrakov, Dimiter; Travnikov, Oleg; Artz, Richard S.; Davignon, Didier; Draxler, Roland R.; Munthe, John; Pacyna, Jozef ISSN: 0048-9697 **IF 2,359**
74. Ryaboshapko, A; Bullock, OR; Christensen, J; Cohen, M; Dastoor, A; Ilyin, I; Petersen, G; Syrakov, D; Artz, RS; Davignon, D; Draxler, RR; Munthe, J. 2007. Intercomparison study of atmospheric mercury models: 1. Comparison of models with short-term measurements. SCIENCE OF THE TOTAL ENVIRONMENT 376 (1-3): 228-240. Author Full Name(s): Ryaboshapko, Alexey; Bullock, O. Russell, Jr.; Christensen, Jesper; Cohen, Mark; Dastoor, Ashu; Ilyin, Ilia; Petersen, Gerhard; Syrakov, Dimiter; Artz, Richard S.; Davignon, Didier; Draxler, Roland R.; Munthe, John ISSN: 0048-9697 **IF 2,359**
75. Seidendorf, B; Boersma, M; Schwenk, K. 2007. Evolutionary stoichiometry: The role of food quality for clonal differentiation and hybrid maintenance in a Daphnia species complex. LIMNOLOGY AND OCEANOGRAPHY 52 (1): 385-394. Author Full Name(s): Seidendorf, Bernd; Boersma, Maarten; Schwenk, Klaus ISSN: 0024-3590 **IF 3,287**
76. Wirtz, KW; Baumberger, N; Adam, S; Liu, X. 2007. Oil spill impact minimization under uncertainty: Evaluating contingency simulations of the Prestige accident. ECOLOGICAL ECONOMICS 61 (2-3): 417-428. Author Full Name(s): Wirtz, Kai W.; Baumberger, Nick; Adam, Susanne; Liu, Xin ISSN: 0921-8009 **IF 1,223**
77. Zorita, E; Gonzalez-Rouco, F; von Storch, H. 2007. Comments on "testing the fidelity of methods used in proxy-based reconstructions of past climate".

- JOURNAL OF CLIMATE 20 (14): 3693-3698. Author Full Name(s): Zorita, Eduardo; Gonzalez-Rouco, Fidel; von Storch, Hans ISSN: 0894-8755 **IF 3,419**
78. Bhend, J; Storch, H. Consistency of observed winter precipitation trends in northern Europe with regional climate change projections. CLIMATE DYNAMICS, 2007 ISSN: 0930-7575 **IF 3,344**
79. Schroeder, T; Behnert, I; Schaale, M; Fischer, J; Doerffer, R. 2007. Atmospheric correction algorithm for MERIS above case-2 waters. INTERNATIONAL JOURNAL OF REMOTE SENSING 28 (7-8): 1469-1486. Author Full Name(s) Schroeder, Th.; Behnert, I.; Schaale, M.; Fischer, J.; Doerffer, R. ISSN: 0143-1161 **IF 0,980**
80. Arndt, S., Brumsack, H.-J., Wirtz, K.W., Regnier, P.: Diagenesis in deep-seated Cretaceous black shales: Inverse modeling and transient model simulations. Geochimica et Cosmochimica Acta, 71 (15) A37-A37. **IF 3,751**

AEM

Topic 1: Light-Weight Structural Materials

1. Dieringa H., Kainer K.U.; Magnesium – der Zukunftswerkstoff für die Automobilindustrie?; Materialwissenschaft und Werkstofftechnik 38 2 (2007) 91-96. **IF 0,264**
2. Arunachaleswaran A., Pereira I.M., Dieringa H., Huang Y., Hort N., Dhindaw B.K., Kainer K.U.: Creep behavior of AE42 based hybrid composites; Mat. Sci. Eng. A460-461 (2007) 268-276. **IF 1,490**
3. Kannan M. B., Dietzel W., Zeng R., Zettler R., dos Santos J.F.: A study on the SCC susceptibility of friction stir welded AZ31 Mg sheet; Mat. Sci. Eng. A460-461 (2007) 243-250. **IF 1,490**
4. Kannan M.B., Dietzel W., Blawert C., Riekehr S., Kocak M.: Stress corrosion cracking behavior of Nd:YAG laser butt welded AZ31 Mg sheet; Mat. Sci. Eng. 444 1-2 (2007) 220-226. **IF 1,49**
5. Meza Garcia E., Dobron P., Bohlen J., Letzig D., Chmelik F., Lukac P., Kainer K. U.: Deformation mechanisms in an AZ31 cast magnesium alloy as investigated by acoustic emission technique; Mat. Sci. Eng. A462 1-2 (2007) 297-301. **IF 1,490**
6. Dobron P., Bohlen J. Chmelik F., Lukac P., Letzig D., Kainer K. U.: Acoustic emission during stress relaxation of pure magnesium and AZ magnesium alloys; Mat. Sci. Eng. A462 1-2 (2007) 307-310. **IF 1,490**
7. Bohlen J., Dobroň P., Swiostek J., Letzig D., Chmelík F, Lukáč P., Kainer K.U., On the influence of the grain size and solute content on the AE response of magnesium alloys tested in tension and compression; Mat Sci. Eng. A462 1-2 (2007) 302-306. **IF 1,490**
8. Svoboda M., Pahutova M., Kucharova K., Sklenicka V., Kainer K.U.: Microstructure and creep behaviour of magnesium hybrid composites; Mat. Sci. Eng. A462 1-2 (2007) 220-224. **IF 1,490**
9. Trojanova Z., Lukac P., Kainer K.U.: Stress relaxation in AX41 magnesium alloy studied at elevated temperatures; Adv. Eng. Mat. 9 5 (2007) 370-374. **IF 1,402**
10. Arunachaleswaran A., Dhindaw B.K., Dieringa H., Hort N., Kainer K.U.: Microstructure characterization and creep properties of AE42 based hybrid composites prepared by squeeze casting process; Trans. Indian Inst. Met. 60 2-3 (2007) 87-91. **IF 0,078**

11. Kumar S., Dieringa H., Kainer K.U.: Thermal cycling behaviour of the magnesium alloy based hybrid composites in the transverse direction; Mat. Sci. Eng. 454-455 (2007) 367-370. **IF 1,490**
12. Gonzalez-Martinez R., Göken J., Letzig D., Steinhoff K., Kainer K.U.: Influence of aging on damping of the magnesium-aluminium-zinc series; J Alloys Comp. 437 1-2 (2007) 127-132. **IF 1,250**
13. **Bohlen J., Nürnberg M. R., Senn J. W., Letzig D., Agnew S.: The texture and anisotropy of magnesium-zinc-rare earth alloy sheets; Acta Mat. 55 6 (2007) 2101-2112. IF 3,549**
14. Blawert C., Heitmann V., Dietzel W., Nykyforchyn H.M., Klappiv M.D.: Influence of electrolyte on corrosion properties of plasma electrolytic conversion coated magnesium alloys; Surf. Coat. Techn. 201 21 (2007) 8709-8714. **IF 1,559**
15. Kannan M.B., Dietzel W., Raman R.K.S., Lyon P.: Hydrogen induced cracking in magnesium alloy under cathodic polarisation; Scr. Mat: 57 7 (2007) 579-581. **IF 2,161**
16. Winzer N., Atrens A., Dietzel W., Song G., Kainer K.U.: Evaluation of the delayed hydride cracking mechanisms for transgranular stress corrosion cracking of magnesium alloys; Mat. Sci. Eng. 466 1-2 (2007) 18-31. **IF 3,164**
17. Kannan M.B., Dietzel W., Zeng R., Zettler R., dos Santos J.F.: A study on the SCC susceptibility of friction stir welded AZ31 Mg sheet; Mat. Sci. Eng. 460-461 (2007) 243-250. **IF 1,490**
18. Bohne Y., Manova D., Blawert C., Störmer M., Dietzel W., Mändl S.: Influence of ion energy on morphology and corrosion properties of Mg alloys formed by energetic PVD process; Nuclear Instruments and Methods in Physics Research B; 257 1-2 (2007) 392-396. **IF 0,946**
19. Srinivasan P.B., Dietzel W., Zettler R., dos Santos J., Sivan V.: Effects of inhibitors on corrosion behaviour of dissimilar aluminium alloy friction stir weldment; Corrosion Engineering Science and Technology 42 2 (2007) 161-167. **IF 0,553**
20. Atrens A., Dietzel W.: The negative difference effect and unipositive Mg⁺; Adv. Eng. Mat. 9 4 (2007) 292-297. **IF 1,402**
21. Winzer N., Atrens A., Dietzel W., Song G., Kainer K.U.: Comparison of the linearly increasing stress test and the constant extension rate test in the evaluation of transgranular stress corrosion cracking in magnesium; Mat. Sci. Eng. 472 1-2 (2007) 97-106. **IF 1,490**

22. Song G., Zheng X., Blawert C., Dietzel W.: Nafion/polypyrrole and Nafion/DMSO organic coatings for magnesium protection; J. Mat. Sci. Techn. 23 1 (2007) 139-141. **IF 0,384**
23. Bohne Y., Blawert C., Dietzel W., Maendl S.: Formation and corrosion properties of Mg-Ti alloys prepared by physical vapour deposition; Plasma Processes and Polymers 4 S1 (2007) 584-587. **IF 2,298**
24. Traiphol R., Srihirin T., Kerdcharoen T., Osotchan T., Scharnagel N., Willumeit R.: Influence of local polymer-solvent p-p-interaction on dynamics of phenyl ring rotation and its role on photophysics of conjugated polymer; European Polymer Journal 43 2 (2007) 478-487. **IF 2,113**
25. Beals R., Tissington C., Zhang X., Kainer K.U., Petrillo J., Verbrugge M., Pekguleryuz M.: Magnesium global development: Outcomes from the TMS 2007 annual meeting; JOM 59 8 (2007) 39-42. **IF 0,887**
26. Zeng R., Chen J., Ke W., Han E., Dietzel W.: PH value in simulated occluded corrosion cell for magnesium alloys; Trans of Nonferrous Metals Soc. China 17 (2007) s194-s197. **IF 0,264**
27. Winzer N., Atrons A., Dietzel W., Song G., Kainer K.U.: Magnesium stress corrosion cracking; Trans of Nonferrous Soc. China 17 (2007) s150-s155. **IF 0,264**
28. Störmer M., Blawert C., Hagen H., Heitmann V., Dietzel W.: Structure and corrosion of magnetron sputtered pure Mg films on silicon substrates; Plasma Processes and Polymers 4 S1 s557-s561. **IF 2,298**
29. Witte F., Feyerabend F., Maier P., Fischer J., Störmer M., Blawert C., Dietzel W., Hort N.: Biodegradable magnesium-hydroxyapatite metal matrix composites; Biomaterials 28 13 (2007) 2163-2174. **IF 5,196**
30. Zeng R., Chen J., Dietzel W., Hort N., Kainer K.U.: Electrochemical behaviour of magnesium alloys in simulated body fluids; Trans of Nonferrous Metals Soc. China 17 (2007) s166-s170. **IF 0,264**

Topic 2: Mechanics and Joining of Light weight Structural Materials

31. Kabir, R.; Cornec, A.; Brocks, W.: Simulation of quasi-brittle fracture of lamellar GammaTiAl using the cohesive model and a stochastic approach. In: Computational Materials Science. Vol. 39 (2007) 1, 75 - 84. (DOI: 10.1016/j.commatsci.2006.03.028) **IF 1,104**
32. Steglich, D.; Brocks, W.; Heerens, J.; Pardoën, T.: Anisotropic ductile fracture of Al 2024 alloys. In: Engineering Fracture Mechanics. (2007) (DOI: 10.1016/j.engfracmech.2007.04.008) **IF 1,390**

33. **Graff, S.; Brocks, W.; Steglich, D.: Yielding of Magnesium: From Single Crystal to Polycrystalline Aggregates. In: International Journal of Plasticity. Vol. 23 (2007) 12, 1957 - 1978. (DOI: 10.1016/j.ijplas.2007.07.009) IF 4,113**
34. Werwer, M.; Kabir, R.; Cornec, A.; Schwalbe, K.-H.: Fracture in lamellar TiAl simulated with the Cohesive Model. In: Engineering Fracture Mechanics. Vol. 74 (2007) 16, 2615 - 2638. (DOI: 10.1016/j.engfracmech.2006.09.022) **IF 1,390**
35. Graff, S.; Steglich, D.; Brocks, W.: Forming of Magnesium - Crystal Plasticity and Plastic Potentials. In: Advanced Engineering Materials. Vol. 9 Weinheim: Wiley, (2007) 9, 803 - 806. (DOI: 10.1002/adem.200700162) **IF 1,402**
36. Scheider, I.; Pfuff, M.; Dietzel, W.: Simulation of hydrogen assisted stress corrosion cracking using the cohesive model. In: Engineering Fracture Mechanics. (2007) (DOI: 10.1016/j.engfracmech.2007.10.002) **IF 1,390**
37. Vilaca, P.; Quintino, L.; dos Santos, J.; Zettler, R.; Sheikhi, S.: Quality assessment of friction stir welded joints via an analytical thermal model, iSTIR. In: Materials Science and Engineering A. Vol. 445-446 (2007) 501 - 508. (DOI: 10.1016/j.msea. 2006.09.091) **IF 1,490**
38. Pinheiro, G.A.; Olea, C.A.W.; dos Santos, J.F.; Kainer, K.U.: Microstructural and Mechanical Behavior of Friction Welds in a High Creep Resistance Magnesium Alloy. In: Advanced Engineering Materials. Vol. 9 Weinheim: Wiley, (2007) 9, 757 - 763. (DOI: 10.1002/adem.200700159) **IF 1,402**
39. Sheikhi, S.; dos Santos, J.: Effect of process parameter on mechanical properties of friction stir welded tailored blanks from aluminium alloy 6181-T4. In: Science and Technology of Welding and Joining. Vol. 12 (2007), 4, 161 - 167 **IF 0,891**
40. Dogan, B.; Ceyhan, U.; Petrovski, B.: High Temperature Crack Initiation and Defect Assessment of P22 Steel Weldments using Time Dependent Failure Assessment Method. In: Engineering Fracture Mechanics. Vol. 74 (2007) 6, 839 - 852. (DOI: 10.1016/j.engfracmech.2006.08.018) **IF 1,390**
41. Alexandrov, S.; Kocak, M.: Limit load analysis of strength undermatched welded T-joints under bending. In: Fatigue and Fracture of Engineering Materials and Structures. Vol. 30 Oxford: Blackwell, (2007) 4, 351 - 355. (DOI: 10.1111/j.1460-2695.2007.01115.x) **IF 0,756**
42. Sakintuna, B.; Darkrim, F.; Hirscher, M.; Dogan, B.: Metal Hydride Materials for Solid Hydrogen Storage: A Review. In: International Journal of Hydrogen Energy. Vol. 32 (2007) 9, 1121 - 1140. (DOI: 10.1016/j.ijhydene.2006.11.022) **IF 2,612**

43. Daneshpour, S.; Riekehr, S.; Kocak, M.; Ventzke, V.; Koruk, A.I.: Failure behaviour of laser spot welds of TRIP800 steel sheets under coach–peel loading. In: Science and Technology of Welding and Joining. Vol. 12 London: Maney, (2007) 6, 508 - 515. (DOI: 10.1179/174329307X213855) **IF 0,891**
44. Cam, G.; Kocak, M.: Microstructural and mechanical characterization of electron beam welded Al-alloy 7020. In: Journal of Materials Science. Vol. 42 Netherlands: Springer, (2007) 17, 7154 - 7161. (DOI: 10.1007/s10853-007-1604-z) **IF 0,999**
45. Zerbst, U.; Heinimann, M.; Dalle Donne, C.; Steglich, D.: Fracture and damage mechanics modelling of thin-walled structures – An overview. In: Engineering Fracture Mechanics. (2007) (DOI: 10.1016/j.engfracmech.2007.10.005) **IF 1,390**
46. Madia, M.; Baretta, S.; Zerbst, U.: An investigation on the influence of rotary bending and press fitting on stress intensity factors and fatigue crack growth in railway axles. In: Engineering Fracture Mechanics. (2007) (DOI: 10.1016/j.engfracmech.2007.08.015) **IF 1,390**
47. Zerbst, U., Vormwald, M. und Schödel, M.: Ermüdungsrissausbreitung. Materialprüfung 49 (2007), 70-80 **IF 0,154**

Topic 3: Functionalised Materials

48. Alvarez-Gallego, Y.; Pereira Nunes, S.; Lozano, A.E. ; de la Campa, J.G.; de Abajo, J.: Synthesis and Properties of Novel Polyimides Bearing Sulfonated Benzimidazole Pendant Groups. In: Macromolecular Rapid Communications. Vol. 28 (2007) 5, 616 – 622. (DOI: 10.1002/marc.200600700) **IF 3,164**
49. Bengtson, G.; Panek, D.; Fritsch, D.: Hydrogenation of acetophenone in a pervaporative catalytic membrane reactor with online mass spectrometric monitoring. In: Journal of Membrane Science. Vol. 293 Amsterdam: Elsevier, (2007) 1-2, 29 - 35. (DOI: 10.1016/j.memsci.2007.01.031) **IF 3,442**
50. Boschetti de Fierro, A.; Fierro, D.; Albuerno, J.; Funari, S.S.; Abetz, V.: Thermal Monitoring of Morphology in Triblock Terpolymers with Crystallizable Blocks. In: Journal of Polymer Science B. Vol. 45 (2007) 23, 3197 - 3206. (DOI: 10.1002/polb.21318) **IF 1,622**
51. Boschetti de Fierro, A.; Mueller, A.; Abetz, V.: Synthesis and characterization of novel linear PB-b-PS-b-PEO and PE-b-PS-b-PEO triblock terpolymers. In: Macromolecules. Vol. 40 Washington, DC: ACS, (2007) 4, 1290 - 1298. (DOI: 10.1021/ma0625713) **IF 4,277**

52. Boschetti de Fierro, A.; Spindler, L.; Reiter, G.; Olmos, D.; Magonov, S.; Abetz, V.: Thin Film Morphology in Triblock Terpolymers with One and Two Crystallizable Blocks. In: *Macromolecules*. Vol. 40 Washington, DC: ACS, (2007) 15, 5487 - 5496. (DOI: 10.1021/ma0703812) **IF 4,277**

53. Brandao, L.; Fritsch, D.; Mendes, A.M.; Madeira, L.M.: Propylene hydrogenation in a continuous polymeric catalytic membrane reactor. In: *Industrial & Engineering Chemistry Research*. Vol. 46 Washington, DC: American Chemical Society, (2007) 16, 5278 - 5285. (DOI: 10.1021/ie0614879) **IF 1,518**

54. Brandao, L.; Fritsch, D.; Mendes, A.M.; Madeira, L.M.: Propyne Hydrogenation Kinetics over Surfactant-Stabilized Palladium Nanoclusters. In: *Industrial & Engineering Chemistry Research*. Vol. 46 Washington, DC: ACS, (2007) 2, 377 - 384. (DOI: 10.1021/ie0602761) **IF 1,518**

55. Buntkowsky, G.; Breitzke, H.; Adamczyk, A.; Roelofs, F.; Emmler, T.; Gedat, E.; Gruenberg, B.; Xu, Y.; Limbach, H.-H.; Shenederovich, I.; Vyalikh, A.; Findenegg, G.: Structural and dynamical properties of guest molecules confined in mesoporous silica materials revealed by NMR. In: *Physical Chemistry Chemical Physics*. Vol. 9 Cambridge: The Royal Society of Chemistry, (2007) 4843 - 4853. (DOI: 10.1039/b707322d) **IF 2,892**

56. de Miranda, R.L.; Kruse, J.; Raetzke, K.; Faupel, F.; Fritsch, D.; Abetz, V.; Budd, P.M.; Selbie, J.D.; McKeown, N.B.; Ghanem, B.S.: Unusual temperature dependence of the positron lifetime in a polymer of intrinsic microporosity. In: *Physica Status Solidi / Rapid Research Letters*. Vol. 1 Weinheim: Wiley, (2007) 5, 190 - 192. (DOI: 10.1002/pssr.200701116) **kein IF**

57. Diaz, A.M.; Zolotukhin, M.G.; fomine, S.; Salcedo, R.; Manero, O.; Cedillo, G.; Velasco, V.M.; Guzman, M.T.; Fritsch, D.; Khalizov, A.F.: A Novel, One-Pot Synthesis of Novel 3F, 5F, and 8F Aromatic Polymers. In: *Macromolecular Rapid Communications*. Vol. 28 (2007) 2, 183 - 187. (DOI: 10.1002/marc.200600656) **IF 3,164**

58. Gomes, D.; Roeder, J.; Ponce, M.L.; Pereira Nunes, S.: Characterization of Partially Sulfonated Polyoxadiazoles and Oxadiazole-triazole Copolymers. In: *Journal of Membrane Science*. Vol. 295 Amsterdam: Elsevier, (2007) 1-2, 121 - 129. (DOI: 10.1016/j.memsci.2007.02.046) **IF 3,442**

59. Gosalawit, R.; Chirachanchai, S.; Shishatskiy, S.; Nunes, S. P.: Krytox-Montmorillonite-Nafion nanocomposite membrane for effective methanol crossover reduction in DMFCs. In: *Solid State Ionics* (2007), 178(29-30), 1627-1635. **IF 2,190**

60. Lorenzo, A.T.; Arnal, M.L.; Mueller, A.J.; Boschetti de Fierro, A.; Abetz, V.: Nucleation and Isothermal Crystallization of the Polyethylene Block within Diblock Copolymers Containing Polystyrene and Poly(ethylene-alt-propylene). In: *Macromolecules*. Vol. 40 Washington, DC: ACS, (2007) 14, 5023 - 5037. (DOI: 10.1021/ma070252l) **IF 4,277**
61. Lutter, S.; Tiersch, B.; Koetz, J.; Boschetti de Fierro, A.; Abetz, V.: Covalently closed microemulsions in presence of triblock terpolymers. In: *Journal of Colloid and Interface Science*. Vol. 311 (2007) 2, 447 - 455. (DOI: 10.1016/j.jcis.2007.03.034) **IF 2,233**
62. **Peinemann, K.-V.; Abetz, V.; Simon, P.: Asymmetric superstructure in a block copolymer via phase separation. In: *Nature Materials*. Vol. 6 Basingstoke: Nature Publishing Group, (2007) 992 - 996. (DOI: 10.1038/nmat2038) IF 19,194**
63. Qiu, J.; Zheng, J.M.; Peinemann, K.-V.: Gas Transport Properties of Poly(trimethylsilylpropyne) and Ethylcellulose Filled with Different Molecular Weight Trimethylsilylsaccharides: Impact on Fractional Free Volume and Chain Mobility. In: *Macromolecules*. Vol. 40 Washington, DC: ACS, (2007) 9, 3213 - 3222. (DOI: 10.1021/ma0614794) **IF 4,277**
64. Roeder, J.; Gomes, D.; Ponce, M.L.; Abetz, V.; Pereira Nunes, S.: Protonation of Sulfonated Poly(4,4'-diphenylether-1,3,4-oxadiazole) Membranes. In: *Macromolecular Chemistry and Physics*. Vol. 208 (2007) 467 - 473. (DOI: 10.1002/macp.200600515) **IF 2,021**
65. Ruckdaeschel, H.; Sandler, J.K.W.; Altstaedt, V.; Schmalz, H.; Abetz, V.; Mueller, A.H.E.: Toughening of immiscible PPE/SAN blends by triblock terpolymers. In: *Polymer*. Vol. 48 (2007) 9, 2700 - 2719. (DOI: 10.1016/j.polymer.2007.03.005) **IF 2,773**
66. Silva, V. S.; Silva, V. B.; Mendes, A.; Madeira, L. M.; Silva, H.; Michaelmann, J.; Ruffmann, B.; Nunes, S. P.: Pre-treatment Effect on the Sulfonated Poly(ether ether ketone) Membrane Transport Properties and Direct Methanol Fuel Cell Performance. In: *Separation Science and Technology* (2007), 42(13), 2909-2925. **IF 0,824**
67. Walther, A.; Andre, X.; Drechsler, M.; Abetz, V.; Mueller, A.H.E.: Janus Discs. In: *Journal of the American Chemical Society*. Vol. 129 Washington, DC: ACS, (2007) 19, 6187 - 6198. (DOI: 10.1021/ja068153v) **IF 7,696**
68. Yave, W.; Peinemann, K.-V.; Shishatskiy, S.; Khotimskiy, V.; Chirkova, M.; Matson, S.; Litvinova, E.; Lecerf, N.: Synthesis, Characterization, and Membrane Properties of Poly(1-trimethylgermyl-1-propyne) and Its Nanocomposite with TiO₂. In: *Macromolecules*. Vol. 40 Washington, DC: ACS, (2007) 25, 8991 - 8998. (DOI: 10.1021/ma0714518) **IF 4,277**

69. Yave, W.; Shishatskiy, S.; Abetz, V.; Matson, S.; Litvinova, E.; Khotimskiy, V.; Peinemann, K.-V.: A Novel Poly(4-methyl-2-pentyne)/TiO₂ Hybrid Nanocomposite Membrane for Natural Gas Conditioning: Butane/Methane Separation. In: *Macromolecular Chemistry and Physics*. Vol. 208 (2007) 22, 2412 - 2418. (DOI: 10.1002/macp.200700399) **IF 2,021**
70. Zolotukhin, M.G.; Fomine, S.; Lazo, L.M.; Hernandez, M.del C.G.; Guzman-Gutierrez, M.T.; Ruiz-Trevino, A.; Fritsch, D.; Cuellas, D.C.; Fernandez-G.; J.M.: A Novel Approach to the Synthesis of High Performance and Functional Polymers. In: *High Performance Polymers*. Vol. 19 London: SAGE Publications, (2007) 5, 638 - 648. (DOI: 10.1177/0954008307081204) **IF 0,699**
71. Borgschulte, A.; Boesenberg, U.; Barkhordarian, G.; Dornheim, M.; Bormann, R.: Enhanced hydrogen sorption kinetics of magnesium by destabilized MgH₂. In: *Catalysis Today*. Vol. 120 (2007) 3-4, 262 - 269. <http://dx.doi.org/10.1016/j.cattod.2006.09.031> <http://dvsun3.gkss.de/journals/2006/Borgschulte-cattod.pdf> **IF 2,148**
72. **Ulrike Bösenberg, Stefania Doppiu, Lene Mosegaard, Gagik Barkhordarian, Nico Eigen, Andreas Borgschulte, Torben R. Jensen, Yngve Cerenius, Oliver Gutfleisch, Thomas Klassen, Martin Dornheim, Rüdiger Bormann, "Hydrogen Sorption Properties of MgH₂-LiBH₄ Composites", *Acta Materialia* 55 (2007) 3951–3958, <http://dx.doi.org/10.1016/j.actamat.2007.03.010> **IF 3,549****
73. Nico Eigen, Claude Keller, Martin Dornheim, Thomas Klassen, Rüdiger Bormann, Industrial production of light metal hydrides for hydrogen storage, *Scripta Materialia* 56 (2007) 847-851 <http://dx.doi.org/10.1016/j.scriptamat.2007.01.024> <http://dvsun3.gkss.de/journals/2007/Eigen-scriptmat.pdf> **IF 2,161**
74. Nico Eigen, Mirko Kunowsky, Thomas Klassen and Rüdiger Bormann, Synthesis of NaAlH₄-based hydrogen storage material using milling under low pressure hydrogen atmosphere, *J. Alloys Comp.* 430 (2007) 350-355 <http://dx.doi.org/10.1016/j.jallcom.2006.05.025> <http://dvsun3.gkss.de/journals/2007/Eigen-journalalloyscomp.pdf> **IF 1,250**
75. Gagik Barkhordarian, Thomas Klassen, Martin Dornheim and Rüdiger Bormann, "Unexpected kinetic effect of MgB₂ in reactive hydride composites containing complex borohydrides", *Journal of Alloys and Compounds*, Volume 440, Issues 1-2, 16 August 2007, Pages L18-L21, <http://dx.doi.org/10.1016/j.jallcom.2006.09.048> **IF 1,250**
76. M. Dornheim, S. Doppiu, G. Barkhordarian, U. Boesenberg, T. Klassen, O. Gutfleisch, R. Bormann, "Hydrogen Storage in Magnesium-Based Hydrides and Hydride Composites", *Viewpoint Set on Mg-based hydrogen storage materials*, *Scripta Materialia*, Volume 56, Issue 10, May 2007,

Pages 841-846, <http://dx.doi.org/10.1016/j.scriptamat.2007.01.003> **IF 2,161**

77. Mosegaard, L.; Moeller, B.; Joergensen, J.-E.; Boesenberg, U.; Dornheim, M.; Hanson, J.C.; Cerenius, Y.; Jakobsen, H.J.; Besenbacher, F.; Jensen, T.R.: Intermediate phases observed during decomposition of LiBH₄. In: Journal of Alloys and Compounds 446–447 (2007) 301–305 <http://dx.doi.org/10.1016/j.jallcom.2007.03.057> **IF 1,370**
78. Aguey-Zinsou, K.-F.; Ares Fernandez, J.; Dornheim, M.; Bormann, R.: Effect of Nb₂O₅ on MgH₂ properties during mechanical milling. In: International Journal of Hydrogen Energy. Vol. 32 (2007) 13, 2400 - 2407. <http://dx.doi.org/10.1016/j.ijhydene.2006.10.068> **IF 2,612**
79. Pranzas, P.K.; Dornheim, M.; Boesenberg, U.; Ares Fernandez, J.R.; Goerigk, G.; Roth, S.V.; Gehrke, R.; Schreyer, A.: Small-angle scattering investigations of magnesium hydride used as a hydrogen storage material. In: Journal of Applied Crystallography. Vol. 40 Oxford: Blackwell, (2007) S1, S 383 - S 387. <http://dx.doi.org/10.1107/S0021889807008023> **IF 2,495**