

INM Publikationen: 2008

- Refereed Journal Publications
- Publications in Proceedings and other Documents

Refereed Journal Publications 2008

- [1] J. Adam, R. Drumm, G. Klein, M. Veith, Milling of zirconia nanoparticles in a stirred media mill, *Journal of the American Ceramic Society* 91 (2008) 2836-2843.
- [2] M.A. Aegerter, R.M. Almeida, A. Soutar, K. Tadanaga, H. Yang, T. Watanabe, Coatings made by sol-gel and chemical nanotechnology, *Journal of Sol-Gel Science and Technology* 47 (2008) 203-236.
- [3] A. Al-Kahlout, S. Heusing, M.A. Aegerter, Brown coloring electrochromic devices, *Journal of Sol-Gel Science and Technology* 47 (2008) 215-216.
- [4] M. Ames, J. Markmann, R. Karos, A. Michels, A. Tschöpe, R. Birringer, Unraveling the nature of room temperature grain growth in nanocrystalline materials, *Acta Materialia* 56 (2008) 4255-4266.
- [5] C.O. Avellaneda, D.F. Vieira, A. Al-Kahlout, S. Heusing, E.R. Leite, A. Pawlicka, M.A. Aegerter, All solid-state electrochromic devices with gelatin-based electrolyte, *Solar Energy Materials and Solar Cells* 92 (2008) 228-233.
- [6] M.R.S. Castro, A.F. Lasagni, H.K. Schmidt, F. Mücklich, Direct laser interference patterning of multi-walled carbon nanotube-based transparent conductive coatings, *Applied Surface Science* 254 (2008) 5874-5878.
- [7] M.R.S. Castro, P.W. Oliveira, H.K. Schmidt, Enhanced mechanical and electrical properties of antimony-doped tin oxide coatings, *Semiconductor Science and Technology* 23 (2008) 035013.
- [8] M.R.S. Castro, E.D. Sam, M. Veith, P.W. Oliveira, Structure, wettability and photocatalytic activity of CO₂ laser sintered TiO₂/multi-walled carbon nanotube coatings, *Nanotechnology* 19 (2008) 105704.
- [9] M.R.S. Castro, H.K. Schmidt, Preparation and characterization of low- and high-adherent transparent multi-walled carbon nanotube thin films, *Materials Chemistry and Physics* 111 (2008) 317-321.
- [10] E.J. De Souza, M. Brinkmann, C. Mohrdieck, E. Arzt, Enhancement of capillary forces by multiple liquid bridges, *Langmuir* 24 (2008) 8813-8820.
- [11] E.J. De Souza, M. Brinkmann, C. Mohrdieck, A.J. Crosby, E. Arzt, Capillary forces between chemically different substrates, *Langmuir* 24 (2008) 10161-10168.
- [12] E.J. De Souza, L. Gao, T.J. McCarthy, E. Arzt, A.J. Crosby, Effect of contact angle hysteresis on the measurement of capillary forces, *Langmuir* 24 (2008) 1391-1396.
- [13] A. del Campo, E. Arzt, Fabrication approaches for generating complex micro-

- and nanopatterns on polymeric surfaces, *Chemical Reviews* 108 (2008) 911-945.
- [14] W. Delb, D.J. Strauss, Y.F. Low, H. Seidler, A. Rheinschmitt, T. Wobrock, R. D'Amelio, Alterations in event related potentials (ERP) associated with tinnitus distress and attention *Applied Psychophysiology and Biofeedback* 33 (2008) 211-221.
- [15] J.K. Deuschle, G. Buerki, H.M. Deuschle, S. Enders, J. Michler, E. Arzt, In situ indentation testing of elastomers, *Acta Materialia* 56 (2008) 4390-4401.
- [16] V. Dhayal, R. Bohra, M. Nagar, A. Kaushik, S. Mathur, S. Barth, Low-temperature sol-gel transformation of methyl silicon precursors to silica-based hybrid materials, *Applied Organometallic Chemistry* 22 (2008) 629-636.
- [17] T. Filleter, K.V. Emtsev, T. Seyller, R. Bennewitz, Local work function measurements of epitaxial graphene, *Applied Physics Letters* 93 (2008) 133117.
- [18] C.P. Frick, B.G. Clark, S. Orso, A.S. Schneider, E. Arzt, Size effect on strength and strain hardening of [111] nickel sub-micron compression pillars, *Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing* 489 (2008) 319-329.
- [19] C.P. Frick, B.G. Clark, S. Orso, P. Sonnweber-Ribic, E. Arzt, Orientation-independent pseudoelasticity in small-scale NiTi compression pillars, *Scripta Materialia* 59 (2008) 7-10.
- [20] P.A. Gruber, J. Böhm, F. Onuseit, A. Wanner, R. Spolenak, E. Arzt, Size effects on yield strength and strain hardening for ultra-thin Cu films with and without passivation: A study by synchrotron and bulge test techniques, *Acta Materialia* 56 (2008) 2318-2335.
- [21] P.A. Gruber, S. Olliges, E. Arzt, R. Spolenak, Temperature dependence of mechanical properties in ultrathin Au films with and without passivation, *Journal of Materials Research* 23 (2008) 2406-2419.
- [22] P.A. Gruber, C. Solenthaler, E. Arzt, R. Spolenak, Strong single-crystalline Au films tested by a new synchrotron technique, *Acta Materialia* 56 (2008) 1876-1889.
- [23] F. Guyon, A. Hameau, A. Khatyr, M. Knorr, H. Amrouche, D. Fortin, P.D. Harvey, C. Strohmam, A.L. Ndiaye, V. Huch, M. Veith, N. Avarvari, Syntheses, structures, and photophysical properties of mono- and dinuclear sulfur-rich gold(I) complexes, *Inorganic Chemistry* 47 (2008) 7483-7492.
- [24] F. Hernandez-Ramirez, J.D. Prades, A. Tarancon, S. Barth, O. Casals, R. Jimenez-Diaz, E. Pellicer, J. Rodriguez, J.R. Morante, M.A. Juli, S. Mathur, A. Romano-Rodriguez, Insight into the role of oxygen diffusion in the sensing mechanisms of SnO₂ nanowires, *Advanced Functional Materials* 18 (2008) 2990-2994.

- [25] S. Heusing, M.A. Aegerter, Blue and grey coloring electrochromic devices, *Journal of Sol-Gel Science and Technology* 47 (2008) 214-215.
- [26] G. Huber, S. Orso, R. Spolenak, U.G.K. Wegst, S. Enders, S.N. Gorb, E. Arzt, Mechanical properties of a single gecko seta, *International Journal of Materials Research* 99 (2008) 1113-1118.
- [27] V. Huch, R. Kumar, S. Mathur, R. Ratnani, *Trans-dichlorodioxobis(triphenylphosphate)molybdenum(VI)*, $\text{MoO}_2\text{Cl}_2[\text{OP}(\text{OPh})_3]_2$, *Journal of Chemical Crystallography* 38 (2008) 605-608.
- [28] L. Jiang, M.T. Perez-Prado, P.A. Gruber, E. Arzt, O.A. Ruano, M.E. Kassner, Texture, microstructure and mechanical properties of equiaxed ultrafine-grained Zr fabricated by accumulative roll bonding, *Acta Materialia* 56 (2008) 1228-1242.
- [29] V. Kozhukharov, S. Kozhukharov, G. Tsaneva, J. Gerwann, M. Schem, T. Schmidt, M. Veith, Investigation on the corrosion protection ability of nanocomposite hybrid coatings, *Bulgarian Chemical Communications* 40 (2008) 310-317.
- [30] C. Kuemin, T. Kraus, H. Wolf, N.D. Spencer, Matrix effects on the surface plasmon resonance of dry supported gold nanocrystals, *Optics Letters* 33 (2008) 806-808.
- [31] A. Kurz, M.A. Aegerter, Novel transparent conducting sol-gel oxide coatings, *Thin Solid Films* 516 (2008) 4513-4518.
- [32] M. Legros, G. Dehm, E. Arzt, T.J. Balk, Observation of giant diffusivity along dislocation cores, *Science* 319 (2008) 1646-1649.
- [33] E.J. Lima, A.D. Arelaro, H.R. Rechenberg, E.L. Duarte, R. Itri, C. Cavelius, H. Shen, S. Mathur, G.F. Goya, Magnetic characterization of ferrihydrite nanoparticles synthesized by hydrolysis of metal-organic precursor, *Physica B: Condensed Matter* 403 (2008) 4156-4159.
- [34] E.J. Lima, T.B. Martins, H.R. Rechenberg, G.F. Goya, C. Cavelius, R. Rapalaviciute, H. Shen, S. Mathur, Numerical simulation of magnetic interactions in polycrystalline YFeO_3 , *Journal of Magnetism and Magnetic Materials* 320 (2008) 622-629.
- [35] H. Lin, P.W. Oliveira, M. Veith, Ionic liquid as additive to increase sensitivity, resolution, and diffraction efficiency of photopolymerizable hologram material, *Applied Physics Letters* 93 (2008) 141101.
- [36] S. Lu, H.K. Schmidt, Photoluminescence and XPS analyses of Mn^{2+} doped ZnS nanocrystals embedded in sol-gel derived hybrid coatings, *Materials Research Bulletin* 43 (2008) 583-589.
- [37] W. Lu, H.K. Schmidt, Lyothermal synthesis of nanocrystalline BaSnO_3 powders,

Ceramics International 34 (2008) 645-649.

- [38] W. Lu, H.K. Schmidt, Synthesis of tin oxide hydrate ($\text{SnO}_2 \cdot x\text{H}_2\text{O}$) gel and its effects on the hydrothermal preparation of BaSnO_3 powders, *Advanced Powder Technology* 19 (2008) 1-12.
- [39] S. Mathur, S. Barth, One-dimensional semiconductor nanostructures: Growth, characterization and device applications, *Zeitschrift für Physikalische Chemie* 222 (2008) 307-317.
- [40] S. Mathur, S. Barth, U. Werner, F. Hernandez-Ramirez, A. Romano-Rodriguez, Chemical vapor growth of one-dimensional magnetite nanostructures, *Advanced Materials* 20 (2008) 1550-1554.
- [41] S. Mathur, T. Rügamer, N. Donia, H. Shen, Functional metal oxide coatings by molecule-based thermal and plasma chemical vapor deposition techniques, *Journal of Nanoscience and Nanotechnology* 8 (2008) 2597-2603.
- [42] R.M. McMeeking, E. Arzt, A.G. Evans, Defect dependent adhesion of fibrillar surfaces, *Journal of Adhesion* 84 (2008) 675-681.
- [43] M.T. Northen, C. Greiner, E. Arzt, K.L. Turner, A gecko-inspired reversible adhesive, *Advanced Materials* 20 (2008) 3905-3909.
- [44] C. Piana, S. Toegel, I. Güll, S. Gerbes, H. Viernstein, M. Wirth, F. Gabor, Growth surface-induced gene and protein expression patterns in Caco-2 cells, *Acta Biomaterialia* 4 (2008) 1819-1826.
- [45] C. Piana, M. Wirth, S. Gerbes, H. Viernstein, F. Gabor, S. Toegel, Validation of reference genes for qPCR studies on Caco-2 cell differentiation, *European Journal of Pharmaceutics and Biopharmaceutics* 69 (2008) 1187-1192.
- [46] J.D. Prades, R. Jimenez-Diaz, F. Hernandez-Ramirez, S. Barth, A. Cirera, A. Romano-Rodriguez, S. Mathur, J.R. Morante, Ultralow power consumption gas sensors based on self-heated individual nanowires, *Applied Physics Letters* 93 (2008) 123110.
- [47] J.D. Prades, R. Jimenez-Diaz, F. Hernandez-Ramirez, L. Fernandez-Romero, T. Andreu, A. Cirera, A. Romano-Rodriguez, A. Cornet, J.R. Morante, S. Barth, S. Mathur, Toward a systematic understanding of photodetectors based on individual metal oxide nanowires, *Journal of Physical Chemistry C* 112 (2008) 14639-14644.
- [48] S. Promnimit, C. Cavelius, S. Mathur, J. Dutta, Growth of gold/zinc sulphide multilayer films using layer-by-layer assembly of colloidal nanoparticles, *Physica E: Low-dimensional Systems and Nanostructures* 41 (2008) 285-291.
- [49] J. Pütz, M.A. Aegerter, Direct gravure printing of indium tin oxide nanoparticle patterns on polymer foils, *Thin Solid Films* 516 (2008) 4495-4501.

- [50] J. Pütz, M.A. Aegerter, Sol-gel coatings on thin glasses, *Journal of Sol-Gel Science and Technology* 47 (2008) 226-227.
- [51] J. Pütz, M.A. Aegerter, Improvement of surface roughness and electrical properties of sputtered ITO electrodes with a thin sol-gel film, *Journal of Sol-Gel Science and Technology* 47 (2008) 227-228.
- [52] J. Pütz, M.A. Aegerter, Wet chemical deposition of transparent conducting coatings in glass tubes, *Journal of Sol-Gel Science and Technology* 47 (2008) 228-230.
- [53] J. Pütz, S. Heusing, M.A. Aegerter, Gravure printing of nanoparticulate coatings for display application, *Journal of Sol-Gel Science and Technology* 47 (2008) 230-231.
- [54] S. Ren, W. Kochanek, H. Bolz, M. Wittmar, I. Grobelsek, M. Veith, Combinatorial preparation of solid-state materials by injection moulding, *Journal of the European Ceramic Society* 28 (2008) 3005-3010.
- [55] N. Sharma, V. Sharma, M. Nagar, R. Bohra, A. Kaushik, S. Mathur, S. Barth, Glycol modified cis-diisopropoxy-bis (N-phenylsalicylideneiminato)zirconium(IV): syntheses, characterization and low temperature transformation to nanocrystalline zirconia, *Journal of Coordination Chemistry* 61 (2008) 2234-2245.
- [56] A.V. Spuskanyuk, R.M. McMeeking, V.S. Deshpande, E. Arzt, The effect of shape on the adhesion of fibrillar surfaces, *Acta Biomaterialia* 4 (2008) 1669-1676.
- [57] P. Stegmaier, J.M. Alonso, A. del Campo, Photoresponsive surfaces with two independent wavelength-selective functional levels, *Langmuir* 24 (2008) 11872-11879.
- [58] M. Veith, Precursorchemistry with metalalkoxides and their use for nano-scaled materials, *Zeitschrift für Physikalische Chemie* 222 (2008) 287-305.
- [59] M. Veith, New synthetic routes to nano-composites with ceramic particles, using lanthanide compounds, *Journal of Sol-Gel Science and Technology* 46 (2008) 291-298.
- [60] M. Veith, A. Altherr, M. Klook, Geräte und Anlagen für neue Lacke mit nanoskaligem Zirkondioxid, *Chemie Ingenieur Technik* 80 (2008) 1705-1710.
- [61] M. Veith, C. Belot, L. Guyard, V. Huch, M. Knorr, M. Zimmer, Synthesis and crystal structure investigations of trivalent rare earth (Y^{3+} , Nd^{3+} , Er^{3+}) thienyl-substituted methoxides, *European Journal of Inorganic Chemistry* (2008) 2397-2406.
- [62] M. Veith, A.L. Ndiaye, V. Huch, H. Cui, C. Wickleder, Luminescent study on Nd^{3+} complexes containing carboxylate-dithiolene and akoxide-dithiolene ligands, *Zeitschrift für Anorganische und Allgemeine Chemie* 634 (2008) 2551-2556.

- [63] M. Veith, C. Petersen, O.C. Aktas, W. Metzger, M. Oberringer, T. Pohlemann, M. Müller, S. Gerbes, Chemical vapour deposition of aluminium based micro- and nanostructured surfaces for biological applications, *Materials Letters* 62 (2008) 3842-3845.
- [64] M. Veith, H. Smail, V. Huch, Reactivity of $[(\text{Ph}_2\text{Si})_2\text{O}_3]_4[\text{Al}(\text{OH})_4]$ and $[(\text{Ph}_2\text{Si})_2\text{O}_3]_4[\text{Al}(\text{OLi})_4]$ towards NaOEt and LiOH. Synthesis of new twelve-membered alumopolysiloxane rings, *Zeitschrift für Anorganische und Allgemeine Chemie* 634 (2008) 2867-2872.
- [65] M. Veith, E.A. Sow, U. Werner, C. Petersen, O.C. Aktas, The transformation of core/shell aluminium/alumina nanoparticles into nanowires, *European Journal of Inorganic Chemistry* 2008 (2008) 5181-5184.
- [66] M. Veith, K. Valtchev, V. Huch, Tetraalkoxyaluminates of nickel(II), copper(II), and copper(I), *Inorganic Chemistry* 47 (2008) 1204-1217.
- [67] M. Zaiser, J. Schwerdtfeger, A.S. Schneider, C.P. Frick, B.G. Clark, P.A. Gruber, E. Arzt, Strain bursts in plastically deforming molybdenum micro- and nanopillars, *Philosophical Magazine* 88 (2008) 3861-3874.

Publications in Proceedings and other Documents 2008

- [1] J. Adam, M. Aslan, R. Drumm, M. Veith, Mechanisms of bonding effected by nanoparticles in zirconia coatings applied by spraying of suspensions, Annual Report, Jahresbericht 2007 - INM Leibniz-Institut für Neue Materialien (2008) 60-68.
- [2] M. Amlung, P.W. Oliveira, Sauber und sicher - Neue Schutzschichten für Glas und Stahl, *Glaswelt*, 2008, pp. 50.
- [3] E. Arzt, A. Del Campo, Bio-inspired adhesion devices, in: K.L. Turner, L.C. Spangler (Eds.), *Solid-state sensors, actuators, and microsystems workshop 2008*, Transducer Research Foundation, Hilton-Head Island <South Carolina>, 2008, pp. 26-27.
- [4] S. Barth, S. Mathur, F. Hernandez-Ramirez, A. Romano-Rodriguez, One-dimensional oxide nanostructures: Growth, applications and devices, Annual Report, Jahresbericht 2007 - INM Leibniz-Institut für Neue Materialien (2008) 52-60.
- [5] M. Bender, R. Drumm, J. Adam, A. Jakob, R. Lemor, M. Veith, Preparation of acoustic lenses by mechanochemical synthesis and electrophoretic deposition of lead zirconium titanate (PZT) films, Annual Report, Jahresbericht 2007 - INM Leibniz-Institut für Neue Materialien (2008) 68-75.

- [6] M. Busse, Y.F. Low, F.I. Corona-Strauss, W. Delb, D.J. Strauss, Neurofeedback by neural correlates of auditory selective attention as possible application for tinnitus therapies, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : "Personalized Healthcare through Technology", August 20-24, 2008, Vancouver <Canada>, 2008, pp. 5136-5139.
- [7] F.I. Corona-Strauss, W. Delb, M. Bloching, D.J. Strauss, On the single sweep processing of auditory brainstem responses: Click vs. chirp stimulations and active vs. passive electrodes, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : "Personalized Healthcare through Technology", August 20-24, 2008, Vancouver <Canada>, 2008, pp. 4166-4169.
- [8] J. Flackus, M. Geerkens, Technologietransfer auf Augenhöhe. Forschungsinstitute bauen Brücken zwischen Grundlagenforschung und industrieller Anwendung, Empowering Nano, 2008, pp. 23-25.
- [9] S. Gerbes, S. Brück, Zahnoberflächenversiegelung mit einer antiadhäsiven Nanokompositbeschichtung, Leibniz-Institut für Neue Materialien (INM) gGmbH, Saarbrücken, 2008, pp. 57 S.
- [10] A.R. Harris, K. Schwerdtfeger, D.J. Strauss, Optimized shift-invariant wavelet packet feature extraction for electroencephalographic evoked responses, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : "Personalized Healthcare through Technology", August 20-24, 2008, Vancouver <Canada>, 2008, pp. 2685-2688.
- [11] A.R. Harris, D.J. Strauss, Adaptive frame decomposition in slow wave cortical responses to transcranial magnetic stimulation, in: B.-Y. Liao (Ed.), Proceedings of the Third International Conference on Intelligent Information Hiding and Multimedia Signal Processing of the IEEE (IIHMSP), Kaohsiung City <Taiwan>, 2008, pp. 201-204.
- [12] S. Heusing, P.W. Oliveira, E. Kraker, A. Haase, C. Palfinger, M. Veith, Development of printed ITO coatings on PET and PEN foil for flexible organic photodiodes, in: P.L. Heremans, M. Muccini, E.A. Meulenkamp (Eds.), Organic Optoelectronics and Photonics III, SPIE, Strasbourg <France>, 2008, pp. 69992I.
- [13] M.H. Jilavi, P.W. Oliveira, E.D. Sam, U. Werner, M. Veith, An overview for production and characterization of reflective and antireflective multilayer coatings by sol gel method on glass, sapphire, quartz and plastic foils, 4. Thüringer Grenz- und Oberflächentage & 1. Thüringer Kolloquium "Dünne Schichten in der Optik", Jena, 2008, pp. 45-50.
- [14] S. Kozukharov, G. Tsaneva, V. Kozhukharov, J. Gerwann, M. Schem, T. Schmidt, M. Veith, Corrosion protection properties of composite hybrid coatings with involved nanoparticles of zirconia and ceria, Journal of the University of Chemical Technology and Metallurgy 43 (2008) 73-80.

- [15] H. Lin, P.W. Oliveira, M. Veith, Ionic liquids in photopolymerizable hologram materials, 4. Thüringer Grenz- und Oberflächentage & 1. Thüringer Kolloquium "Dünne Schichten in der Optik", Jena, 2008, pp. 288-289.
- [16] Y.F. Low, H. Argstatter, H.V. Bolay, D.J. Strauss, Evaluation of a compact tinnitus therapy by electrophysiological tinnitus decompensation measures, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : "Personalized Healthcare through Technology", August 20-24, 2008, Vancouver <Canada>, 2008, pp. 5132-5135.
- [17] M. Mariam, W. Delb, F.I. Corona-Strauss, M. Bloching, D.J. Strauss, Extraction of habituation correlates in single sweeps sequences of auditory evoked late potentials using time-scale coherence: Objective detection of uncomfortable loudness level, in: A. Hierlemann (Ed.), Proceedings of the Sixth IASTED International Conference on Biomedical Engineering, Innsbruck, 2008, pp. 83-87.
- [18] S. Mathur, S. Barth, F. Hernandez-Ramirez, A. Romano-Rodriguez, J.D. Prades, One-dimensional oxide nanostructures: Growth, applications and devices, MST news, 2008, pp. 6-9.
- [19] S. Mathur, E. Hemmer, S. Barth, J. Altmayer, N. Donia, I. Kumakiri, N. Lecerf, R. Bredesen, Microporous ZrO₂ membrane preparation by liquid-injection MOCVD, in: S. Mathur, J. Salem (Eds.), Nanostructured materials and nanotechnology, Proceedings of 31st International Conference on Advanced Ceramics and Composites, Daytona Beach <Florida, USA>, 2008, pp. 165-173.
- [20] S. Mathur, M. Singh, Ceramic Engineering and Science Proceedings: Preface, in: S. Mathur, J. Salem (Eds.), Nanostructured materials and nanotechnology, Proceedings of 31st International Conference on Advanced Ceramics and Composites, Daytona Beach <Florida, USA>, 2008, pp. IX-X.
- [21] K. Moh, S. Schumacher, M. Veith, Wet chemical syntheses of Ag-nanoparticles, Annual Report, Jahresbericht 2007 - INM Leibniz-Institut für Neue Materialien (2008) 75-79.
- [22] I. Mustaffa, C. Trenado, K. Schwerdtfeger, D.J. Strauss, Evoked response denoising using nonlinear diffusion filtering of single-trial matrix representations, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : "Personalized Healthcare through Technology", August 20-24, 2008, Vancouver <Canada>, 2008, pp. 3999-4002.
- [23] M. Quilitz, S. Heusing, P.W. Oliveira, Strom in unsichtbaren Leitern, Empowering Nano, 2008, pp. 20-22.
- [24] M. Quilitz, M. Schubert, M. Veith, Chemische Nanotechnologie. Anwendungen in industriellen Beschichtungen, nanoworld, 2008, pp. 38-40.

- [25] M. Quilitz, M. Schubert, M. Veith, Neue Entwicklungen der chemischen Nanotechnologie. Innovative Schichtsysteme, JOT - Journal für Oberflächentechnik 48 (2008) 8-10.
- [26] A. Ramachandran, W. Poppendieck, K.P. Koch, N. Donia, S. Mathur, Investigations on the stability of platinum nanostructures on implantable microelectrodes - A first approach, in: S. Mathur, J. Salem (Eds.), Nanostructured materials and nanotechnology, Proceedings of 31st International Conference on Advanced Ceramics and Composites, Daytona Beach <Florida, USA>, 2008, pp. 65-72.
- [27] P. Rogin, J. Hartmann, K. Schmitt, P.W. Oliveira, M. Veith, Thermische Verdichtung von niedrig schmelzenden Glasfilmen auf Polyimidfolie, 82. Glastechnische Tagung, Hameln, 2008, pp. CD-ROM.
- [28] A. Romano-Rodriguez, F. Hernandez-Ramirez, R. Jimenez-Diaz, O. Casals, J.R. Morante, J.D. Prades, S. Barth, S. Mathur, Gas sensing devices based on 1D metal-oxide nanostructures: Fabrication, testing and device integration, 213th ECS Meeting, Phoenix <Arizona, USA>, 2008, pp. 700.
- [29] A. Romano-Rodriguez, F. Hernandez-Ramirez, R. Jimenez-Diaz, O. Casals, A. Tarancon, J.R. Morante, J.D. Prades, S. Barth, S. Mathur, M.A. Juli, A. Helwig, J. Spannhake, G. Müller, Portable bottom-up gas sensor based on the integration of individual SnO₂ nanowires with microhotplates, 213th ECS Meeting, Phoenix <Arizona, USA>, 2008, pp. 1198.
- [30] A. Romano-Rodriguez, F. Hernandez-Ramirez, R. Jimenez-Diaz, J.D. Prades, O. Casals, S. Barth, S. Mathur, Gas sensing devices based on 1D Metal-oxide nanostructures: Fabrication, testing and device integration, in: D. Misra (Ed.), Dielectrics for nanosystems 3: materials science, processing, reliability, and manufacturing, Phoenix <Arizona, USA>, 2008, pp. 57-64.
- [31] A. Romano-Rodriguez, F. Hernandez-Ramirez, J.D. Prades, A. Tarancon, O. Casals, R. Jimenez-Diaz, M.A. Juli, J.R. Morante, S. Barth, S. Mathur, A. Helwig, J. Spannhake, G. Mueller, Bottom-up fabrication of individual SnO₂ nanowires-based gas sensors on suspended micromembranes, Microelectromechanical Systems - Materials and Devices. 2007 MRS Fall Meeting, Materials Research Society, San Francisco <Calif., USA>, 2008, pp. 291-296.
- [32] M. Schem, T. Schmidt, H. Caparrotti, M. Aslan, M. Wittmar, M. Veith, The use of Al₂O₃-micro containers for storage of corrosion inhibitors, Managing corrosion for sustainability : EUROCORR 2008, the European Corrosion Congress, Edinburgh <UK>, 2008, pp. 50.
- [33] M. Schubert, Die Veredelung des Edlen. Materialoptimierung mit Hilfe von Nanotechnologie, medAmbiente 2 (2008) 32-33.
- [34] M. Schubert, Alle Jahre am INM - Sommerschule Chemische Nanotechnologie, nanotechnologie aktuell, 2008, pp. 76-79.

- [35] M. Schubert, Mit Mikro und Nano zu neuen Technologien, MiNaT Journal, 2008, pp. 3.
- [36] C. Trenado, L. Haab, D.J. Strauss, An integrative multiscale modeling approach for the study of tinnitus decompensation neural correlates, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : "Personalized Healthcare through Technology", August 20-24, 2008, Vancouver <Canada>, 2008, pp. 2473-2476.
- [37] C. Trenado, D.J. Strauss, M. Wittmar, Hybrid multiscale modeling of corrosion nanoinhibitors transport, 2. Europäische COMSOL Conference, Hannover, 2008, pp. CD-ROM.
- [38] G. Tsaneva, V. Kozhukharov, S. Kozukharov, M. Ivanova, J. Gerwann, M. Schem, T. Schmidt, Functional nanocomposite coatings for corrosion protection of aluminum alloy and steel, Journal of the University of Chemical Technology and Metallurgy 43 (2008) 231-238.
- [39] M. Veith, Vorwort, in: S. Leydecker (Ed.), Nanomaterialien in Architektur, Innenarchitektur und Design, Birkhäuser, Basel, 2008, pp. 10-11.
- [40] M. Veith, Flexible organic photodiodes with transparent electrodes fabricated by wet chemical deposition methods : Projekt FLEX-OPTEC ; Teilvorhaben: Entwicklung von Zinn-dotierten Indiumoxid (ITO) Schichten mit nasschemischen Beschichtungsmethoden auf flexiblen Kunststoffsubstraten für organische Photodiode, Leibniz-Institut für Neue Materialien (INM) gGmbH, Saarbrücken, 2008, pp. 42 S.
- [41] R. Würz, A. Eicke, O. Yazdani-Assl, F. Händel, E. Häberle, Diffusions- und Isolationsbarrieren für flexible Cu(In,Ga)Se₂-Dünnschichtsolarzellen auf unlegiertem Stahlsubstrat, 4. Thüringer Grenz- und Oberflächentage & 1. Thüringer Kolloquium "Dünne Schichten in der Optik", Jena, 2008, pp. 40-44.