

Adlmann F.A., Busch S., Vacaliuc B., Nelson A., Ankner J.F., Browning J.F., Parizzi A., Bilheux J.-K., Halbert C.E., Korolkovas A., Wolff M., Normalization of stroboscopic neutron scattering experiments, *Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms* 434 (2018) 61, doi: 10.1016/j.nimb.2018.08.030

Agha, Nezha Ahmad; Liu, Zhidan; Feyerabend, Frank; Willumeit-Roemer, Regine; Gasharova, Billiana; Heidrich, Stefanie; Mihailova, Boriana, The effect of osteoblasts on the surface oxidation processes of biodegradable Mg and Mg-Ag alloys studied by synchrotron IR microspectroscopy, *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS* 91 (2018) 659, doi: 10.1016/j.msec.2018.06.001

Al-Hamdany, Nowfal; Brokmeier, Heinz-Guenter; Gan, Weimin, Crystallographic texture and lattice strain evolution during tensile load of swaged brass, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING* 711 (2018) 149, doi: 10.1016/j.msea.2017.11.047

Al-Hamdany, Nowfal; Brokmeier, Heinz-Guenter; Salih, Mohammed; Zhong, Zhengye; Schwebke, Bernd; Schell, Norbert; Gan, Weimin, Crystallographic texture gradient along the wall thickness of an SF-copper tube, *MATERIALS CHARACTERIZATION* 139 (2018) 125, doi: 10.1016/j.matchar.2018.02.042

Ali Solimani, Michael Schütze, Andreas Stark, Mathias C. Galetz, Nitrogen transport through thermally grown chromia scales: An in-situ synchrotron X-ray diffraction and thermal analysis study, *Corrosion Science* 145 (2018) 180, doi: 10.1016/j.corsci.2018.10.007

Allain, S.Y.P., Gaudez, S., Geandier, G., Hell, J.-C., Gouné, M., Danoix, F., Soler, M., Aoued, S., Poulon-Quintin, A., Internal stresses and carbon enrichment in austenite of quenching and partitioning steels from high energy x-ray diffraction experiments, *Materials Science and Engineering A* 710 (2018) 245, doi: 10.1016/j.msea.2017.10.105

Altynbaev, E.; Siegfried, S. -A.; Strauss, P.; Menzel, D.; Heinemann, A.; Fomicheva, L.; Tsvyashchenko, A.; Grigoriev, S., Magnetic structure in Mn_{1-x}CoxGe compounds, *PHYSICAL REVIEW B* 97 (14) (2018), doi: 10.1103/PhysRevB.97.144411

Angelova, Angelina; Drechsler, Markus; Garamus, Vasil M.; Angelov, Borislav, Liquid Crystalline Nanostructures as PEGylated Reservoirs of Omega-3 Polyunsaturated Fatty Acids: Structural Insights toward Delivery Formulations against Neurodegenerative Disorders, *ACS OMEGA* 3 (3) (2018) 3235, doi: 10.1021/acsomega.7b01935

Appel F., Paul J.D.H., Staron P., Oehring M., Kolednik O., Predan J., Fischer F.D., The effect of residual stresses and strain reversal on the fracture toughness of TiAl alloys, *Materials Science and Engineering A* 709 (2018) 17, doi: 10.1016/j.msea.2017.10.010

Bachmaier, A., Rathmayr, G.B., Schmauch, J., Schell, N., Stark, A., de Jonge, N., and Pippan, R., High strength nanocrystalline Cu-Co alloys with high tensile ductility, *Journal of Materials Research* (2018) 1, doi: 10.1557/jmr.2018.185

Barriobero-Vila, Pere; Gussone, Joachim; Kelm, Klemens; Haubrich, Jan; Stark, Andreas; Schell, Norbert; Requena, Guillermo, An in situ investigation of the deformation mechanisms in a beta-quenched Ti-5Al-5V-5Mo-3Cr alloy, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING* 717 (2018) 134, doi: 10.1016/j.msea.2018.01.077

Barriobero-Vila, Pere; Gussone, Joachim; Stark, Andreas; Schell, Norbert; Haubrich, Jan; Requena, Guillermo, Peritectic titanium alloys for 3D printing, *NATURE COMMUNICATIONS* 9 (2018) 3426, doi: 10.1038/s41467-018-05819-9

Bartosik M., Böhm H.J., Krywka C., Zhang Z.L., Mayrhofer P.H., Influence of phase transformation on the damage tolerance of Ti-Al-N coatings, *Vacuum* 155 (2018) 153, doi: 10.1016/j.vacuum.2018.06.001

Biessmann, Lorenz; Kreuzer, Lucas Philipp; Widmann, Tobias; Hohn, Nuri; Moulin, Jean-Francois; Mueller-Buschbaum, Peter, Monitoring the Swelling Behavior of PEDOT:PSS Electrodes under High Humidity Conditions, *ACS APPLIED MATERIALS & INTERFACES* 10 (11) (2018) 9865, doi: 10.1021/acsami.8b00446

Bjoerk, Emma M.; Makie, Peter; Rogstrom, Lina; Atakan, Aylin; Schell, Norbert; Oder, Magnus, Formation of block-copolymer-templated mesoporous silica, *JOURNAL OF COLLOID AND INTERFACE SCIENCE* 521 (2018) 183, doi: 10.1016/j.jcis.2018.03.032

Bugelnig K., Germann H., Steffens T., Plank B., Wilde F., Boller E., Requena G., Optimized segmentation of the 3D microstructure in cast Al-Si piston alloys [Optimierte Segmentierung der 3D Mikrostruktur in gegossenen Al-Si Kolbenlegierungen], *Praktische Metallographie/Practical Metallography* 55 (4) (2018) 223, doi: 10.3139/147.110509

Bugelnig K., Sket F., Germann H., Steffens T., Koos R., Wilde F., Boller E., Requena G., Influence of 3D connectivity of rigid phases on damage evolution during tensile deformation of an AlSi12Cu4Ni2 piston alloy, *Materials Science and Engineering A* 709 (2018) 193, doi: 10.1016/j.msea.2017.10.035

Canzari M., Di Carlo M., Khokhriakov I., Poppi S., Dolci M., Smareglia R., A GUI prototype for SKA1 TM services: Compliance with user-centered design approach, *Proceedings of SPIE - The International Society for Optical Engineering* 10707 (2018) 107072P, doi: 10.1117/12.2313276

Chulist, R., Prokopowicz, M., Maziarz, W., Ostachowski, P., and Schell, N., Effect of heat treatment on the precipitation hardening in FeNiCoAlTaB shape memory alloys, *International Journal of Materials Research* 109 (2018) E1, doi: 10.3139/146.111688

Chulist, R.; Czerny, M.; Panigrahi, A.; Zehetbauer, M.; Schell, N.; Skrotzki, W., Texture and microstructure of HPT-processed Fe-based shape memory alloys, *IOP Conference Series: Materials Science and Engineering* 375 (1) (2018) 12006, doi: 10.1088/1757-899X/375/1/012006

Čobanov I., Šarac B., Medoš Ž., Vraneš M., Gadžurić S., Zec N., Bešter-Rogač M., Effect of cationic structure of surface active ionic liquids on their micellization: A thermodynamic study, *Journal of Molecular Liquids* 271 (2018) 437, doi: 10.1016/j.molliq.2018.08.152

Dixneit, J., Vollert, F., Kromm, A., Gibmeier, J., Hannemann, A., Fischer, T., and Kannengiesser, T., In situ analysis of the strain evolution during welding using low transformation temperature filler materials, *Science and Technology of Welding and Joining* 24 3 (2018) 243, doi: 10.1080/13621718.2018.1525150

dos Santos, J. F.; Staron, P.; Fischer, T.; Robson, J. D.; Kostka, A.; Colegrove, P.; Wang, H.; Hilgert, J.; Bergmann, L.; Huetsch, L. L.; Huber, N.; Schreyer, A., Understanding precipitate evolution during friction stir welding of Al-Zn-Mg-Cu alloy through in-situ measurement coupled with simulation, *ACTA MATERIALIA* 148 (2018) 163, doi: 10.1016/j.actamat.2018.01.020

Dovzhenko G., Hanke S., Staron P., Maawad E., Schreyer A., Horstmann M., Residual stresses and fatigue crack growth in friction surfacing coated Ti-6Al-4V sheets, *Journal of Materials Processing Technology* 262 (2018) 104, doi: 10.1016/j.jmatprotec.2018.06.029

Drescher, Simon; Otto, Christian; Mueller, Sindy; Garamus, Vasil M.; Garvey, Christopher J.; Gruenert, Susanne; Lischka, Anke; Meister, Annette; Blume, Alfred; Dobner, Bodo, Impact of Headgroup Asymmetry and Protonation State on the Aggregation Behavior of a New Type of Glycerol Diether Bolalipid, *LANGMUIR* 34 (14) (2018) 4360, doi: 10.1021/acs.langmuir.8b00527

Drexler, A.; Oberwinkler, B.; Primig, S.; Turk, C.; Povoden-Karadeniz, E.; Heinemann, A.; Ecker, W.; Stockinger, M., Experimental and numerical investigations of the gamma "and gamma' precipitation kinetics in Alloy 718, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING* 723 (2018) 314, doi: 10.1016/j.msea.2018.03.013

Engelkes, Karolin; Friedrich, Frank; Hammel, Joerg U.; Haas, Alexander, A simple setup for episcopic microtomy and a digital image processing workflow to acquire high-quality volume data and 3D surface models of small vertebrates, *ZOOMORPHOLOGY* 137 (1) (2018) 213, doi: 10.1007/s00435-017-0386-3

Erdely P., Staron P., Maawad E., Schell N., Clemens H., Mayer S., Lattice and phase strain evolution during tensile loading of an intermetallic multi-phase γ -TiAl based alloy, *Acta Materialia* 158 (2018) 193, doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050880762&doi=10.1016%2fj.actamat.2018.07.062&partnerID=40&md5=d5e783721a65acb8530e2c04be95f008>

Ezzeldin Metwalli, Maximilian V. Kaepfel, Simon J. Schaper, Armin Kriele, Ralph Gilles, Konstantinos N. Raftopoulos and Peter Müller-Buschbaum, Conductivity and Morphology Correlations of Ionic-Liquid/Lithium-Salt/Block Copolymer Nanostructured Hybrid Electrolytes, *ACS Applied Energy Materials* 2018-1 (2018) 666, doi: 10.1021/acsaem.7b00173

Freund, Lisa P.; Stark, Andreas; Kirchmayer, Andreas; Schell, Norbert; Pyczak, Florian; Goeken, Mathias; Neumeier, Steffen, The Effect of a Grain Boundary Pinning B2 Phase on Polycrystalline Co-Based Superalloys with Reduced Density, *METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE* 49A (9) (2018) 4070, doi: 10.1007/s11661-018-4757-2

Freund, Lisa P.; Stark, Andreas; Pyczak, Florian; Schell, Norbert; Goeken, Mathias; Neumeier, Steffen, The grain boundary pinning effect of the mu phase in an advanced polycrystalline gamma/gamma' Co-base superalloy, *JOURNAL OF ALLOYS AND COMPOUNDS* 753 (2018) 333, doi: 10.1016/j.jallcom.2018.04.204

Furlan, K.P.; Larsson, E.; Diaz, A.; Holler, M.; Krekeler, T.; Ritter, M.; Petrov, A.Y.; Eich, M.; Blick, R.; Schneider, G.A.; Greving, I.; Zierold, R.; Janssen, R., Dataset of ptychographic X-ray computed tomography of inverse opal photonic crystals produced by atomic layer deposition, *Data in Brief* 21 (2018) 1924, doi: 10.1016/j.dib.2018.10.076

Furlan, K.P.; Larsson, E.; Diaz, A.; Holler, M.; Krekeler, T.; Ritter, M.; Petrov, A.Y.; Eich, M.; Blick, R.; Schneider, G.A.; Greving, I.; Zierold, R.; Janssen, R., Photonic materials for high-temperature applications: Synthesis and characterization by X-ray ptychographic tomography, *Applied Materials Today* 13 (2018) 359, doi: 10.1016/j.apmt.2018.10.002

Gancarz, Tomasz; Bobrowski, Piotr; Pawlak, Sylwia; Schell, Norbert; Chulist, Robert; Janik, Katarzyna, Wetting of Sn-Zn-Ga and Sn-Zn-Na Alloys on Al and Ni Substrate, JOURNAL OF ELECTRONIC MATERIALS 47 (1) (2018) 49, doi: 10.1007/s11664-017-5791-3

Garces, G.; Medina, J.; Perez, P.; Mathis, K.; Horvath, K.; Stark, A.; Schell, N.; Adeva, P., Influence of quasicrystal I-phase on twinning of extruded Mg-Zn-Y alloys under compression, ACTA MATERIALIA 151 (2018) 271, doi: 10.1016/j.actamat.2018.03.060

Ghosh, Atasi; Brokmeier, Heinz-Guenter; Al-Hamdany, Nowfal; Sinha, Subhasis; Schell, Norbert; Gurao, Nilesh, A synchrotron X-ray and electron backscatter diffraction based investigation on deformation and failure micro-mechanisms of monotonic and cyclic loading in titanium, MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 726 (2018) 143, doi: 10.1016/j.msea.2018.04.036

Ghosh, P., Kormout, K., Todt, J., Lienert, U., Keckes, J., and Pippan, R., An investigation on shear banding and crystallographic texture of Ag-Cu alloys deformed by high-pressure torsion, Proceedings of the Institution of Mechanical Engineers C 233 3 (2018) 794, doi: 10.1177/0954406218761508

Ghosh, P., Kormout, K.S., Lienert U., Keckes, J., and Pippan, R., Deformation characteristics of ultrafine grained and nanocrystalline iron and pearlitic steel – an in situ synchrotron investigation, Acta Materialia 160 (2018) 22, doi: 10.1016/j.actamat.2018.08.036

Graef, Florian; Richtert, Robert; Fetz, Verena; Murgia, Xabier; De Rossi, Chiara; Schneider-Daum, Nicole; Allegretta, Giuseppe; Elgaher, Walid; Hauipenthal, Joerg; Empting, Martin; Beckmann, Felix; BroEnstrup, Mark; Hartmann, Rolf; Gordon, Sarah; Lehr, Claus-Michael, In Vitro Model of the Gram-Negative Bacterial Cell Envelope for Investigation of Anti-Infective Permeation Kinetics, ACS INFECTIOUS DISEASES 4 (8) (2018) 1188, doi: 10.1021/acsinfecdis.7b00165

Grigoriev, S. V.; Altynbaev, E. V.; Siegfried, S. -A.; Pschenichnyi, K. A.; Menzel, D.; Heinemann, A.; Chaboussant, G., Spin-wave stiffness in the Dzyaloshinskii-Moriya helimagnets Mn_{1-x}Fe_xSi, PHYSICAL REVIEW B 97 (2) (2018), doi: 10.1103/PhysRevB.97.024409

Grigoriev, S. V.; Altynbaev, E. V.; Siegfried, S. -A.; Pshenichnyi, K. A.; Honnecker, D.; Heinemann, A.; Tsvyashchenko, A. V., Spin-wave dynamics in Mn-doped FeGe helimagnet: Small-angle neutron scattering study, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 459 (2018) 159, doi: 10.1016/j.jmmm.2017.11.050

Grigoriev, S. V.; Pshenichnyi, K. A.; Altynbaev, E. V.; Siegfried, S. -A.; Heinemann, A.; Honnecker, D.; Menzel, D., On the Measurement of the Stiffness of Spin Waves in the Fe_{0.75}Co_{0.25}Si Helimagnet by the Small-Angle Neutron Scattering Method, JETP LETTERS 107 (10) (2018) 640, doi: 10.1134/S0021364018100107

Gvaramia, Manuchar; Mangiapia, Gaetano; Falus, Peter; Ohl, Michael; Holderer, Olaf; Frielinghaus, Henrich, Capillary condensation and gelling of microemulsions with clay additives, JOURNAL OF COLLOID AND INTERFACE SCIENCE 525 (2018) 161, doi: 10.1016/j.jcis.2018.04.032

Ha C., Yi S., Bohlen J., Zhou X., Brokmeier H.-G., Schell N., Letzig D., Kainer K.U., Deformation and recrystallization mechanisms and their influence on the microstructure development of rare earth containing magnesium sheets, Minerals, Metals and Materials Series Part F7 (2018) 209, doi: 10.1007/978-3-319-72332-7_33

Hanke, S.; Staron, P.; Fischer, T.; Fitseva, V.; dos Santos, J. F., A method for the in-situ study of solid-state joining techniques using synchrotron radiation - observation of phase transformations in Ti-

6A1-4V after friction surfacing, SURFACE & COATINGS TECHNOLOGY 335 (2018) 355, doi: 10.1016/j.surfcoat.2017.12.049

Haubrich, Jan; Loebbecke, Miriam; Watermeyer, Philipp; Wilde, Fabian; Requena, Guillermo; da Silva, Julio, Buried interfaces - A systematic study to characterize an adhesive interface at multiple scales, APPLIED SURFACE SCIENCE 433 (2018) 546, doi: 10.1016/j.apsusc.2017.10.015

Hauschildt, K., Stark, A., Burmester, H., Tietze, U., Schell, N., Müller, M., and Pyczak, F., Phase transformations in the brazing joint during transient liquid phase bonding process of a α -TiAl alloy studied with in situ high-energy x-ray diffraction, Materials Science Forum 941 (2018) 943, doi: 10.4028/www.scientific.net/MSF.941.943

Hehn, Lorenz; Gradl, Regine; Voss, Andrej; Günther, Benedikt; Dierolf, Martin; Jud, Christoph; Willer, Konstantin; Allner, Sebastian; Hammel, Jörg U.; Hessler, Roland; Morgan, Kaye S.; Herzen, Julia; Hemmert, Werner; Pfeiffer, Franz, Propagation-based phase-contrast tomography of a guinea pig inner ear with cochlear implant using a model-based iterative reconstruction algorithm, Biomedical Optics Express 9 (11) (2018) 5330, doi: 10.1364/BOE.9.005330

Heike Gabrisch, Tobias Krekeler, Uwe Lorenz, Marcus Willi Rackel, Martin Ritter, Florian Pyczak, Andreas Stark, Elemental Segregation and O-Phase Formation in a Gamma-TiAl Alloy, Materials Science Forum 941 (2018) 741, doi: 10.4028/www.scientific.net/MSF.941.741

Herrnring, J., Staron, P., Kashaev, N., and Klusemann, B., Multiscale process simulation of residual stress fields of laser beam welded precipitation hardened AA6082, Materialia 3 (2018) 243, doi: 10.1016/j.mtla.2018.08.010

Hua Ke, Zhang Yudong, Gan Weimin, Kou Hongchao, Li Jinshan, Esling Claude, Correlation between imposed deformation and transformation lattice strain on α variant selection in a metastable β -Ti alloy under isothermal compression, Acta Materialia 161 (2018) 150, doi: 10.1016/j.actamat.2018.09.022

Huang Z., Wang L., Zhou B., Fischer T., Yi S., Zeng X., Observation of non-basal slip in Mg-Y by in situ three-dimensional X-ray diffraction, Scripta Materialia 143 (2018) 44, doi: 10.1016/j.scriptamat.2017.09.011

Huang, Meng; Xu, Chao; Fan, Guohua; Maawad, Emad; Gan, Weimin; Geng, Lin; Lin, Fengxiang; Tang, Guangze; Wu, Hao; Du, Yan; Li, Danyang; Miao, Kesong; Zhang, Tongtong; Yang, Xuesong; Xia, Yiping; Cao, Guojian; Kang, Huijun; Wang, Tongmin; Xiao, Tiqiao; Xie, Honglan, Role of layered structure in ductility improvement of layered Ti-Al metal composite, ACTA MATERIALIA 153 (2018) 235, doi: 10.1016/j.actamat.2018.05.005

Huang, Y.; Xu, Y.; You, S.; Gan, W.; Kainer, K.U.; Hort, N., Strengthening and ductilizing of magnesium alloying with heavy rare earth elements, MATEC Web of Conferences 188 (2018) "Article number 03021", doi: 10.1051/mateconf/201818803021

Imke Greving, Silja Flenner, Emanuel Larsson¹, Malte Storm, Fabian Wilde, Erica Lilleodden, Thomas Dose, Hilmar Burmester, Lars Lottermoser, Christian David and Felix Beckmann, Full-Field Hard X-Ray Microscope Designed for Materials Science Applications, Microscopy and Microanalysis 24 (S2) (2018) 228

J. Gamcova, J.; Milkovic, O.; Nemeth, D.; Mohatny, G.; Michalik, S.; Wehrs, J.; Bednarcik, J.; Krywka, C.; Breguet, J.M.; Michler, J.; Sovak, P.; Franz H., Comparison Study of Internal Stress Measured by

Diffraction Mapping and Calculation Using FEM, *Key Engineering Materials* 784 (2018) 120, doi: <https://doi.org/10.4028/www.scientific.net/KEM.784.120>

Jahn, Henry; Oliveira, Ivo De Sena; Gross, Vladimir; Martin, Christine; Hipp, Alexander; Mayer, Georg; Hammel, Joerg U., Evaluation of contrasting techniques for X-ray imaging of velvet worms (*Onychophora*), *JOURNAL OF MICROSCOPY* 270 (3) (2018) 343, doi: 10.1111/jmi.12688

Jiao Z., Peterkin S., Felix L., Liang R., Oliveira J.P., Schell N., Scotchmer N., Toyserkani E., Zhou Y., Surface Modification of 304 Stainless Steel by Electro-Spark Deposition, *Journal of Materials Engineering and Performance* 27 (9) (2018) 4799, doi: 10.1007/s11665-018-3579-0

Josts, Inokentij; Nitsche, Julius; Maric, Selma; Mertens, Haydyn D.; Moulin, Martine; Haertlein, Michael; Prevost, Sylvain; Svergun, Dmitri I.; Busch, Sebastian; Forsyth, V. Trevor; Tidow, Henning, Conformational States of ABC Transporter MsbA in a Lipid Environment Investigated by Small-Angle Scattering Using Stealth Carrier Nanodiscs, *STRUCTURE* 26 (8) (2018) 1072, doi: 10.1016/j.str.2018.05.007

Karge, L.; Lang, D.; Schatte, J.; Gilles, R.; Busch, S.; Leibenguth, P.; Clemens, H.; Petry, W., Characterization of anisotropic pores and spatially oriented precipitates in sintered Mo-base alloys using small-angle neutron scattering, *Journal of applied crystallography* 51(6) 1706 (2018), doi: 10.1107/S1600576718014474

Karge, Lukas; Gilles, Ralph; Mukherji, Debashis; Stark, Andreas; Beran, Premek; Schell, Norbert; Hofmann, Michael; Strunz, Pavel; Haeusler, Johannes; Roesler, Joachim, Creep deformation of Co-Re-Ta-C alloys with varying C content-investigated in-situ by simultaneous synchrotron radiation diffraction, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING* 719 (2018) 124, doi: 10.1016/j.msea.2018.02.009

Karimi, Fahim; Riglos, Maria V. C.; Santoru, Antonio; Hoell, Armin; Raghuwanshi, Vikram S.; Milanese, Chiara; Bergemann, Nils; Pistidda, Claudio; Nolis, Pau; Baro, Maria D.; Gizer, Goekhan; Thi-Thu Le; Pranzas, P. Klaus; Dornheim, Martin; Klassen, Thomas; Schreyer, Andreas; Puzskiel, Julian, In Situ Formation of TiB₂ Nanoparticles for Enhanced Dehydrogenation/Hydrogenation Reaction Kinetics of LiBH₄-MgH₂ as a Reversible Solid-State Hydrogen Storage Composite System, *JOURNAL OF PHYSICAL CHEMISTRY C* 122 (22) (2018) 11671, doi: 10.1021/acs.jpcc.8b02258

Keller, S.; Chupakhin, S.; Staron, P.; Maawad, E.; Kashaev, N.; Klusemann, B., Experimental and numerical investigation of residual stresses in laser shock peened AA2198, *JOURNAL OF MATERIALS PROCESSING TECHNOLOGY* 255 (2018) 294, doi: 10.1016/j.jmatprotec.2017.11.023

Kiefer, D.; Gibmeier, J.; Beckmann, F., Fast Temporal and Spatial Resolved Stress Analysis at Laser Surface Line Hardening of Steel AISI 4140, *MECHANICAL STRESS EVALUATION BY NEUTRON AND SYNCHROTRON RADIATION, MECA SENS* 2017 4 (2018) 91, doi: 10.21741/9781945291678-14

Kliauga, A. M.; Sordi, V. L.; De Vincentis, N.S.; Bolmaro, R.E.; Schell, N.; Brokmeier, H.G., Severe Plastic Deformation by Equal Channel Angular Pressing and Rolling: The Influence of the Deformation Path on Strain Distribution, *Advanced Engineering Materials* 20 (4) (2018) 1700055, doi: 10.1002/adem.201700055

Kormout, K., Ghosh, P., Bachmaier, A., Hohenwarter, A., and Pippan, R., Effect of processing temperature on the microstructural characteristics of Cu-Ag nanocomposites: from supersaturation to complete phase decomposition, *Acta Materialia* 154 (2018) 33, doi: 10.1016/j.actamat.2018.05.010

Lan B., Ben Britton T., Jun T.-S., Gan W., Hofmann M., Dunne F.P.E., Lowe M.J.S., Direct volumetric measurement of crystallographic texture using acoustic waves, *Acta Materialia* 159 (2018) 384, doi: 10.1016/j.actamat.2018.08.037

Lan B., Carpenter M.A., Gan W., Hofmann M., Dunne F.P.E., Lowe M.J.S., Rapid measurement of volumetric texture using resonant ultrasound spectroscopy, *Scripta Materialia* 157 (2018) 44, doi: 10.1016/j.scriptamat.2018.07.029

Larsson, E.; Gürsoy, D., De Carlo, F.; Lilleodden, E.; Storm, M.; Wilde, F.; Hu, K.; Müller, M.; Greving, I., Nanoporous gold: a hierarchical and multiscale 3D test pattern for characterizing X-ray nanotomography systems, *Journal of Synchrotron Radiation* 26 1 (2018) 194, doi: 10.1107/S1600577518015242

Lazurenko, D.V., Bataev, I.A., Mali, V.I., Jorge Jr., A.M., Stark, A., Pyczak, F., Ogneva, T.S., and Maliutina, I.N., Synthesis of metal-intermetallic laminate (MIL) composites with modified Al₃Ti structure and in situ synchrotron X-ray diffraction analysis of sintering process, *Materials and Design* 151 (2018) 8, doi: 10.1016/j.matdes.2018.04.038

Le, Thi-Thu; Pistidda, Claudio; Puszkiel, Julian; Castro Riglos, Maria Victoria; Karimi, Fahim; Skibsted, Jorgen; GharibDoust, SeyedHosein Payandeh; Richter, Bo; Emmler, Thomas; Milanese, Chiara; Santoru, Antonio; Hoell, Armin; Krumrey, Michael; Gericke, Eike; Akiba, Etsuo; Jensen, Torben R.; Klassen, Thomas; Dornheim, Martin, Design of a Nanometric AlTi Additive for MgB₂-Based Reactive Hydride Composites with Superior Kinetic Properties, *JOURNAL OF PHYSICAL CHEMISTRY C* 122 (14) (2018) 7642, doi: 10.1021/acs.jpcc.8b01850

Li Y., Zhao D., Liu J., Qian S., Li Z., Gan W., Chen X., Energy-Efficient Elastocaloric Cooling by Flexibly and Reversibly Transferring Interface in Magnetic Shape-Memory Alloys, *ACS Applied Materials and Interfaces* 10 (30) (2018) 25438, doi: 10.1021/acsami.8b07703

Li, X. H.; Saal, P.; Gan, W. M.; Hoelzel, M.; Volk, W.; Petry, W.; Hofmann, M., Strain-Induced Martensitic Transformation Kinetic in Austempered Ductile Iron (ADI), *METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE* 49A (1) (2018) 94, doi: 10.1007/s11661-017-4420-3

Li, Xiaoran; Garamus, Vasil M.; Li, Na; Gong, Yabin; Zhe, Zhe; Tian, Zhenfen; Zou, Aihua, Preparation and characterization of a pH-responsive mesoporous silica nanoparticle dual-modified with biopolymers, *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS* 548 (2018) 61, doi: 10.1016/j.colsurfa.2018.03.047

Li, Yuzhi; Pyczak, Florian; Paul, Jonathan; Oehring, Michael; Lorenz, Uwe; Yao, Zekun; Ning, Yongquan, Rafting of gamma' precipitates in a Co-9Al-9W superalloy during compressive creep, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING* 719 (2018) 43, doi: 10.1016/j.msea.2018.02.017

Liu, X.; Beausir, B.; Zhang, Y.; Gan, W.; Yuan, H.; Yu, F.; Esling, C.; Zhao, X.; Zuo, L., Heat-treatment induced defect formation in α -Al matrix in Sr-modified eutectic Al-Si alloy, *Journal of alloys and compounds* 730, 208 (2018), doi: 10.1016/j.jallcom.2017.09.324

Lu, Xiaopeng; Blawert, Carsten; Tolnai, Domonkos; Subroto, Tungky; Kainer, Karl Ulrich; Zhang, Tao; Wang, Fuhui; Zheludkevich, Mikhail L., 3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography, *CORROSION SCIENCE* 139 (2018) 395, doi: 10.1016/j.corsci.2018.05.019

Makhotkin, Igor A.; Sobierajski, Ryszard; Chalupsky, Jaromir; Tiedtke, Kai; de Vries, Gosse; Stoermer, Michael; Scholze, Frank; Siewert, Frank; van de Kruijs, Robbert W. E.; Milov, Igor; Louis, Eric; Jacyna, Iwanna; Jurek, Marek; Klinger, Dorota; Nittler, Laurent; Syryanny, Yevgen; Juha, Libor; Hajkova, Vera; Vozda, Vojtech; Burian, Tomas; Saksl, Karel; Faatz, Bart; Keitel, Barbara; Ploenjes, Elke; Schreiber, Siegfried; Toilekis, Sven; Loch, Rolf; Hermann, Martin; Strobel, Sebastian; Nienhuys, Han-Kwang; Gwalt, Grzegorz; Mey, Tobias; Enkisch, Hartmut, Experimental study of EUV mirror radiation damage resistance under long-term free-electron laser exposures below the single-shot damage threshold, *JOURNAL OF SYNCHROTRON RADIATION* 25 (2018) 77, doi: 10.1107/S1600577517017362

Márkus, O.; Greving, I.; Kornemann, E; Storm, M.; Beckmann, F.; Mohr, J.; Last, A., Optimizing illumination for full field imaging at high brilliance hard X-ray synchrotron sources, *Optics Express* 26 (23) (2018) 30435, doi: 10.1364/OE.26.030435

Maury, N., Denand, B., Dehmas, M., Archambeau-Mirguet, C., Delfosse, J., and Aeby-Gautier, E., Influence of the ageing conditions and the initial microstructure on the precipitation of α phase in Ti-17 alloy, *Journal of Alloys and Compounds* 763 (2018) 446, doi: 10.1016/j.jallcom.2018.04.302

Medina, J.; Perez, P.; Garces, G.; Stark, A.; Schell, N.; Adeva, P., High-strength Mg-6Zn-1Y-1Ca (wt%) alloy containing quasicrystalline I-phase processed by a powder metallurgy route, *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING* 715 (2018) 92, doi: 10.1016/j.msea.2017.12.111

Milov, Igor; Makhotkin, Igor A.; Sobierajski, Ryszard; Medvedev, Nikita; Lipp, Vladimir; Chalupsky, Jaromir; Sturm, Jacobus M.; Tiedtke, Kai; de Vries, Gosse; Stoermer, Michael; Siewert, Frank; van de Kruijs, Robbert; Louis, Eric; Jacyna, Iwanna; Jurek, Marek; Juha, Libor; Hajkova, Vera; Vozda, Vojtech; Burian, Tomas; Saksl, Karel; Faatz, Bart; Keitel, Barbara; Ploenjes, Elke; Schreiber, Siegfried; Toilekis, Sven; Loch, Rolf; Hermann, Martin; Strobel, Sebastian; Nienhuys, Han-Kwang; Gwalt, Grzegorz; Mey, Tobias; Enkisch, Hartmut; Bijkerk, Fred, Mechanism of single-shot damage of Ru thin films irradiated by femtosecond extreme UV free-electron laser, *OPTICS EXPRESS* 26 (15) (2018) 19665, doi: 10.1364/OE.26.019665

Mo Fangjie, Wu Erdong, Zhang Changsheng, Wang hong, Zhong Zhengye, Zhang Jian, Chen bo, Hofmann Michael, Gan Weimin, Sun Guangai, Correlation Between the Microstructural Defects and Residual Stress in a Single Crystal Nickel-Based Superalloy During Different Creep Stages, *Metals and Materials International* 24 (5) (2018) 1002, doi: 10.1007/s12540-018-0106-7

Mueller, Martin, Investigating individual wood cell wall layers with X-ray micro and nano beams, *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* 255 (2018), doi:

Mueller, T., Grimwood, J., Bachmaier, A., and Pippan, R., Electrodeposition of Fe-C alloys from citrate baths: structure, mechanical properties, and thermal stability, *Metals* 8 5 (2018) 363, doi: 10.3390/met8050363

Nagorna, T.V.; Kuzmenko, M.O.; Kyzyma, O.A.; Chudoba, D.; Nagorny, A.V.; Tropin, T.V.; Garamus, V.M.; Jazdzewska, M.; Bulavin, L.A., Structural reorganization of fullerene C70 in N-methyl-2-pyrrolidone/toluene mixtures, *Journal of Molecular Liquids* 272 (2018) 948, doi: 10.1016/j.molliq.2018.10.110

Nagorna, T.V.; Kyzyma, O.A.; Bulavin, L.A.; Chudoba, D.; Garamus, V.M.; Avdeev, M.V.; Aksenov, V.L., Specifics of C60 Fullerene Cluster Formation in a Solvent Mixture of Toluene and N-Methyl-2-Pyrrolidone, *Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques* 12 5 (2018) 872, doi: 10.1134/S1027451018050063

Neves, F.; Stark, A.; Schell, N.; Mendes, M. J.; Aguas, H.; Fortunato, E.; Martins, R.; Correia, J. B.; Joyce, A., Investigation of single phase $\text{Cu}_2\text{ZnSn}_x\text{Sb}_{1-x}\text{S}_4$ compounds processed by mechanochemical synthesis, *PHYSICAL REVIEW MATERIALS* 2 (7) (2018) 75404, doi: 10.1103/PhysRevMaterials.2.075404

Nitsche, J.; Josts, I.; Heidemann, J.; Mertens, H. D.; Maric, S.; Moulin, M.; Haertlein, M.; Busch, S.; Forsyth, V. T.; Svergun, D. I.; Uetrecht, C.; Tidow, H., Structural basis for activation of plasma-membrane Ca^{2+} -ATPase by calmodulin, *Communications biology* 1(1), 206 (2018), doi: 10.1038/s42003-018-0203-7

Oliveira, J. P.; Cavaleiro, A. J.; Schell, N.; Stark, Andreas; Miranda, R. M.; Ocana, J. L.; Braz Fernandes, F. M., Effects of laser processing on the transformation characteristics of NiTi: A contribute to additive manufacturing, *SCRIPTA MATERIALIA* 152 (2018) 122, doi: 10.1016/j.scriptamat.2018.04.024

Petrenko, V. I.; Artykulnyi, O. P.; Bulavin, L. A.; Almasy, L.; Garamus, V. M.; Ivankov, O. I.; Grigoryeva, N. A.; Vekas, L.; Kopcansky, P.; Avdeev, M. V., On the impact of surfactant type on the structure of aqueous ferrofluids., *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS* 541 (2018) 222, doi: 10.1016/j.colsurfa.2017.03.054

Petrenko, V. I.; Nagorny, A. V.; Gapon, I. V.; Vekas, L.; Garamus, V. M.; Almasy, L.; Feoktystov, A. V.; Avdeev, M. V., Magnetic Fluids: Structural Aspects by Scattering Techniques, *MODERN PROBLEMS OF MOLECULAR PHYSICS* 197 (2018) 205, doi: 10.1007/978-3-319-61109-9_10

Philipp Marzak, Jeongsik Yun, Albrecht Dorsel, Armin Kriele, Ralph Gilles, Oliver Schneider, Aliaksandr S. Bandarenka, Electrodeposited $\text{Na}_2\text{Ni}[\text{Fe}(\text{CN})_6]$ Thin-Film Cathodes Exposed to Simulated Aqueous Na-Ion Battery Conditions, *The Journal of Physical Chemistry Part C* (122) (2018) 8760, doi: 10.1021/acs.jpcc.8b00395

Proes, F.; Eichenseer, C.; Hintze, W.; Schell, N.; Leahy, W.; M'Saoubi, R.; Sattel, S., In situ analysis of PCBN cutting tool materials during thermo-mechanical loading using synchrotron radiation, *PRODUCTION ENGINEERING-RESEARCH AND DEVELOPMENT* 12 (03/04) (2018) 535, doi: 10.1007/s11740-018-0791-6

Prudnikava, Alena; Tamashevich, Yegor; Yanushkevich, Kazimir; Noei, Heshmat; Lott, Dieter; Stierle, Andreas; Foster, Brian, Toward Optimization of Centrifugal Barrel Polishing Procedure for Treatment of Niobium Cavities, *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY* 28 (4) (2018) 3500105, doi: 10.1109/TASC.2018.2791641

Reisinger, S.; Kozeschnik, E.; Ressel, G.; Keckes, J.; Stark, A.; Marsoner, S.; Ebner, R., Strain energy contributions on the bainitic phase transformation in a CrMoV steel during continuous cooling, *MATERIALS & DESIGN* 155 (2018) 475, doi: 10.1016/j.matdes.2018.06.014

Ren, Z.; Cornelius, T.W.; Leclere, C; Davydok, A.; Micha, J.-S.; Robach, O.; Richter G.; Thomas, O., Plasticity in inhomogeneously strained Au nanowires studied by Laue microdiffraction, *MRS Advances* 3 (39) (2018) 2331, doi: 10.1557/adv.2018.465

Ren, Z.; Cornelius, T.W.; Leclere, C; Davydok, A.; Micha, J.-S.; Robach, O.; Richter G.; Thomas, O., Three-point bending behavior of a Au nanowire studied by in-situ Laue micro-diffraction, *Journal of Applied Physics* 124 (28) (2018) 185104-1, doi: 10.1063/1.5054068

Rosalie, J., Ghosh, P., Guo, J., Renk, O., and Zhang, Z., Microstructural and texture evolution of copper-(chromium, molybdenum, tungsten) composites deformed by high-pressure-torsion, *International Journal of Refractory Metals & Hard Materials* 75 (2018) 137, doi: 10.1016/j.ijrmhm.2018.04.008

Rossi, B.; Bottari, C.; Comez, L.; Corezzi, S.; Paolantoni, M.; Gessini, A.; Masciovecchio, C.; Mele, A.; Punta, C.; Melone, L.; Fiorati, A.; Radulescu, A.; Mangiapia, G.; Paciaroni, A., Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques, *Journal of molecular liquids* 271, 738 (2018), doi: 10.1016/j.molliq.2018.08.141

Rouijaa, M.; Kampmann, R.; Saroun, J.; Fenske, J.; Beran, P.; Mueller, M.; Lukas, P.; Schreyer, A., Beam modulation: A novel ToF-technique for high resolution diffraction at the Beamline for European Materials Engineering Research (BEER), *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT* 889 (2018) 7, doi: 10.1016/j.nima.2017.12.083

Sadowski, Eva-Maria; Hammel, Jörg U.; Denk, Thomas, Synchrotron X-ray imaging of a dichasium cupule of *Castanopsis* from Eocene Baltic amber, *American Journal of Botany* 105 (12) (2018) 2025, doi: 10.1002/ajb2.1202

Safiulina, I. A.; Altynbaev, E. V.; Iashina, E. G.; Heinemann, A.; Fomicheva, L. N.; Tsvyashchenko, A. V.; Grigoriev, S. V., Investigation of the Mesostructure of Transition-Metal Monogermanides Synthesized under Pressure, *PHYSICS OF THE SOLID STATE* 60 (4) (2018) 751, doi: 10.1134/S1063783418040273

Santoru, Antonio; Pistidda, Claudio; Brighi, Matteo; Chierotti, Michele R.; Heere, Michael; Karimi, Fahim; Cao, Hujun; Capurso, Giovanni; Chudhary, Anna-Lisa; Gizer, Goekhan; Garroni, Sebastiano; Sorby, Magnus H.; Hauback, Bjorn C.; Cerny, Radovan; Klassen, Thomas; Dornheim, Martin, Insights into the Rb-Mg-N-H System: an Ordered Mixed Amide/Imide Phase and a Disordered Amide/Hydride Solid Solution, *INORGANIC CHEMISTRY* 57 (6) (2018) 3197, doi: 10.1021/acs.inorgchem.7b03232

Schaarschuch, Rolf; Oertel, Carl-Georg; Cao, Guanghui; Freudenberger, Jens; Brokmeier, Heinz-Guenther; Skrotzki, Werner, Deformation mechanisms of nil temperature ductile polycrystalline B2 intermetallic compound YAg, *ACTA MATERIALIA* 151 (2018) 149, doi: 10.1016/j.actamat.2018.03.064

Schmutzler, Tilo; Schindler, Torben; Schmiele, Martin; Appavou, Marie-Sousai; Lages, Sebastian; Kriele, Armin; Gilles, Ralph; Unruh, Tobias, The influence of n-hexanol on the morphology and composition of CTAB micelles, *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS* 543 (2018) 56, doi: 10.1016/j.colsurfa.2017.12.039

Schneemann, Andreas; Vervoorts, Pia; Hante, Inke; Tu, Min; Wannapaiboon, Suttipong; Sternemann, Christian; Paulus, Michael; Wieland, D. C. Florian; Henke, Sebastian; Fischer, Roland A., Different Breathing Mechanisms in Flexible Pillared-Layered Metal-Organic Frameworks: Impact of the Metal Center, *CHEMISTRY OF MATERIALS* 30 (5) (2018) 1667, doi: 10.1021/acs.chemmater.7b05052

Schuh B., Völker B., Todt J., Schell N., Perrière L., Li J., Couzinié J.P., Hohenwarter A., Thermodynamic instability of a nanocrystalline, single-phase TiZrNbHfTa alloy and its impact on the mechanical properties, *Acta Materialia* 142 (2018) 201, doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030658123&doi=10.1016%2fj.actamat.2017.09.035&partnerID=40&md5=d7687617a9f7e4cfdb0e215d120abc74>

Schuh, Benjamin; Voelker, Bernhard; Todt, Juraj; Kormout, Karoline S.; Schell, Norbert; Hohenwarter, Anton, Influence of Annealing on Microstructure and Mechanical Properties of a Nanocrystalline CrCoNi Medium-Entropy Alloy, *MATERIALS* 11 (5) (2018) 662-1, doi: 10.3390/ma11050662

Serge Gavras, Ricardo H. Buzolin, Tungky Subroto, Andreas Stark, Domonkos Tolnai, The effect of Zn content on the mechanical properties of Mg-4Nd-xZn alloys (x = 0; 3; 5 and 8 wt.%), *Materials* 11 (2018) 1103, doi: 10.3390/ma11071103

Shula, TN; Serdechnova, M.; Lamanka, S.V.; Wieland, D.C.F.; Lapko, K.N.; Zheludkevish, M.L., Chelating agent-assisted in situ LDH growth on the surface of magnesium alloy, *SCIENTIFIC REPORTS* 8 (2018) 16409, doi: 10.1038/s41598-018-34751-7

Silja Flenner, Emanuel Larsson, Kaline Furlan, Daniel Laipple, Malte Storm, Fabian Wilde, Robert Blick, Gerold A. Schneider, Robert Zierold, Rolf Janssen, Christian David, Felix Beckmann, Martin Müller and Imke Greving, Nanotomography of inverse photonic crystals using Zernike Phase contrast, *Microscopy and Microanalysis* 24 (S2) (2018) 148

Solis, C.; Munke, J.; Bergner, M.; Kriele, A.; Muehlbauer, M. J.; Cheptiakov, D. V.; Gehrman, B.; Roesler, J.; Gilles, R., In Situ Characterization at Elevated Temperatures of a New Ni-Based Superalloy VDM-780 Premium, *METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE* 49A (9) (2018) 4373, doi: 10.1007/s11661-018-4761-6

Stoermer, Michael; Siewert, Frank; Horstmann, Christian; Buchheim, Jana; Gwalt, Grzegorz, Coatings for FEL optics: preparation and characterization of B4C and Pt, *JOURNAL OF SYNCHROTRON RADIATION* 25 (2018) 116, doi: 10.1107/S1600577517016095

Tian, Zhenfen; Liu, Jianwen; Li, Na; Garamus, Vasil M.; Zou, Aihua, Hyaluronic acid-coated liposome for active targeting on CD44 expressing tumors, *JOURNAL OF NANOPARTICLE RESEARCH* 20 (9) (2018), doi: 10.1007/s11051-018-4324-1

Todt, J.; Keckes, J.; Winter, G.; Staron, P.; Hohenwarter, A., Gradient residual strain and stress distributions in a high pressure torsion deformed iron disk revealed by high energy X-ray diffraction, *SCRIPTA MATERIALIA* 146 (2018) 178, doi: 10.1016/j.scriptamat.2017.11.037

Tolnai D., Subroto T., Gavras S., Buzolin R., Stark A., Schell N., Hort N., Phase formation during solidification of Mg-Nd-Zn alloys: An in situ synchrotron radiation diffraction study, *Materials* 11 (9) (2018) 1637, doi: 10.3390/ma11091637

Ulman, Kanchan; Busch, Sebastian; Hassanali, Ali A., Quantum mechanical effects in zwitterionic amino acids: The case of proline, hydroxyproline, and alanine in water, *JOURNAL OF CHEMICAL PHYSICS* 148 (22) (2018), doi: 10.1063/1.5008665

Ulrich, C., Martin, S., Schimpf, C, Stark, A., Schell, N., and Rafaja, D., Deformation mechanisms in metastable austenitic TRIP/TWIP steels under compressive load studied by in situ synchrotron radiation diffraction, *Advanced Engineering Materials* (2018) 1801101-1, doi: 10.1002/adem.201801101

Vasilescu C., Latikka M., Knudsen K.D., Garamus V.M., Socoliuc V., Turcu R., Tombácz E., Susan-Resiga D., Ras R.H.A., Vékás L., High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties, *Soft Matter* 14 (32) (2018) 6648, doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051868836&doi=10.1039%2fc7sm02417g&partnerID=40&md5=c6f2b584a156339c5660f62f8ceff7b7>

Wagner F.E., Gebhard R., Gan W., Hofmann M., The metallurgical texture of gold artefacts found at the Bronze Age rampart of Bernstorf (Bavaria) studied by neutron diffraction, *Journal of Archaeological Science: Reports* 20 (2018) 338, doi: 10.1016/j.jasrep.2018.05.005

Wang, Weijia; Song, Lin; Magerl, David; Gonzalez, Daniel Mosegui; Koerstgens, Volker; Philipp, Martine; Moulin, Jean-Francois; Mueller-Buschbaum, Peter, Influence of Solvent Additive 1,8-Octanedithiol on P3HT:PCBM Solar Cells, *ADVANCED FUNCTIONAL MATERIALS* 28 (20) (2018), doi: 10.1002/adfm.201800209

Willumeit-Römer R., Moosmann J., Zeller-Plumhoff B., Florian Wieland D.C., Krüger D., Wiese B., Wennerberg A., Peruzzi N., Galli S., Beckmann F., Hammel J.U., Visualization of implant failure by synchrotron tomography, *Minerals, Metals and Materials Series Part F12* (2018) 275, doi: 10.1007/978-3-319-72526-0_25

Yang, J. J.; Blawert, C.; Lamaka, S. V.; Yasakau, K. A.; Wang, L.; Laipple, D.; Schieda, M.; Di, S. C.; Zheludkevich, M. L., Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution, *Corrosion Science* 142 (2018) 222, doi: 10.1016/j.corsci.2018.07.027

Yang, Y.; Bruns, S.; Rogowska, M.; Hakim, S. S.; Hammel, J. U.; Stipp, S. L. S.; Sorensen, H. O., Retraction of the dissolution front in natural porous media, *SCIENTIFIC REPORTS* 8 (2018) 5693, doi: 10.1038/s41598-018-23823-3

Yang, Y.; Hakim, S. S.; Bruns, S.; Rogowska, M.; Boehnert, S.; Hammel, J. U.; Stipp, S. L. S.; Sorensen, H. O., Direct Observation of Coupled Geochemical and Geomechanical Impacts on Chalk Microstructure Evolution under Elevated CO₂ Pressure, *ACS EARTH AND SPACE CHEMISTRY* 2 (6) (2018) 618, doi: 10.1021/acsearthspacechem.8b00013

Yang, Ying; Cheng, Jiagao; Garamus, Vasil M.; Li, Na; Zou, Aihua, Preparation of an Environmentally Friendly Formulation of the Insecticide Nicotine Hydrochloride through Encapsulation in Chitosan/Tripolyphosphate Nanoparticles, *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY* 66 (5) (2018) 1067, doi: 10.1021/acs.jafc.7b04147

Zaloga, Jan; Feoktystov, Artem; Garamus, Vasil M.; Karawacka, Weronika; Ioffe, Alexander; Brueckel, Thomas; Tietze, Rainer; Alexiou, Christoph; Lyer, Stefan, Studies on the adsorption and desorption of mitoxantrone to lauric acid/albumin coated iron oxide nanoparticles, *COLLOIDS AND SURFACES B-BIOINTERFACES* 161 (2018) 18, doi: 10.1016/j.colsurfb.2017.09.057

Zec N., Idrissi A., Bešter-Rogač M., Vraneš M., Gadžurić S., Insights into interactions between 1-butyl-3-methylimidazolium dicyanamide and molecular solvents: γ -valerolactone γ -butyrolactone and propylene carbonate. Volumetric properties and MD simulations, *Journal of Molecular Liquids* 268 (2018) 481

Zeller-Plumhoff, Berit; Helmholz, Heike; Feyerabend, Frank; Dose, Thomas; Wilde, Fabian; Hipp, Alexander; Beckmann, Felix; Willumeit-Roemer, Regine; Hammel, Joerg U., Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SR μ CT, *MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION* 69 (3) (2018) 298, doi: 10.1002/maco.201709514

Zhang, Xiaohan; Niebuur, Bart-Jan; Chytil, Petr; Etrych, Tomas; Filippov, Sergey K.; Kikhney, Alexey; Wieland, D. C. Florian; Svergun, Dmitri I.; Papadakis, Christine M., Macromolecular pHMA-Based Nanoparticles with Cholesterol for Solid Tumor Targeting: Behavior in HSA Protein Environment, *BIOMACROMOLECULES* 19 (2) (2018) 470, doi: 10.1021/acs.biomac.7b01579

Zinth, Veronika; von Lueders, Christian; Wilhelm, Joern; Erhard, Simon V.; Hofmann, Michael; Seidlmayer, Stefan; Rebelo-Kommeier, Joana; Gan, Weimin; Jossen, Andreas; Gilles, Ralph, Inhomogeneity and relaxation phenomena in the graphite anode of a lithium-ion battery probed by

in situ neutron diffraction (vol 361, pg 54, 2017), JOURNAL OF POWER SOURCES 377 (2018) 189, doi: 10.1016/j.jpowsour.2017.11.095

Zou, Aihua; Yang, Ying; Cheng, Jiagao; Garamus, Vasil M.; Li, Na, Construction and Characterization of a Novel Sustained-Release Delivery System for Hydrophobic Pesticides Using Biodegradable Polydopamine-Based Microcapsules, JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY 66 (25) (2018) 6262, doi: 10.1021/acs.jafc.8b00877