

# NAMES, DATES, EVENTS



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KR 10-1675255

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**Veneering ceramic for dental restorations made of yttrium-stabilized zirconium dioxide and method for applying said veneering ceramic**  
CN 103 080 033 B

Ehrt, R.; Rothe, P.; Seifert, D.; Völger, K.W.  
**Glass-ceramic (LTCC) capable of being assembled with silicon by anodic bonding**  
DE 103 51 196 B4

Endler, I.  
**Hard-coated body and method for production thereof**  
EP 1 902 155 B1

Endler, I.; Höhn, M.  
**Coated bodies made of metal, hard metal, cermet, or ceramic, and method(s) for coating of such bodies**  
DE 10 2009 046 667 B4

Endler, I.; Scholz, S.  
**Hard-material-coated bodies composed of metal, cemented hard material, cermet or ceramic and processes for producing such bodies**  
US 9,309,593 B2; RU 2 588 933 C2; CN 103 987 874 B

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**System for monitoring the condition of rotor blades at wind turbines**  
US 9,239,042

Friedrich, H.-J.; Zaruba, A.  
**Method for recovery of noble metals**  
DE 10 2006 056 017 B4

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Han, T.; Gerich, C.; Zeh, C.; Härtling, T.; Opitz, J.; Schreiber, J.; Lee, S.; Kim, K.; Baik, J.; Kim, E.  
**Prostate cancer diagnosis device using fractal dimension value**  
EP 2 699 159; DE 60 2011 025 155

Härtling, T.; Schuster, C.  
**Verfahren zur Herstellung und Überprüfung von Werkstücken und Werkstück**  
DE 10 2014 117 519 B4

Herzog, T.; Heuer, H.; Engl, G.; Kröning, M.  
**Test head for testing a work-piece having an ultrasonic transducer configuration containing a plurality of ultrasonic transducers and process for producing such a test head**  
US 9,423,382 B2

Hutzler, T.; Krell, A.  
**Transparent spinel ceramics and method for the production**

thereof  
US 9,309,156 B2

Jurk, R.; Eberstein, M.; Reinhardt, K.; Schmidt, U.  
**Method for determining the quality of electric conducting connections between front panel contacts and the semi-conducting layer in silicon wafers for photovoltaics**  
DE 10 2014 226 403 B3

Körner, S.; Eberstein, M.  
**Method for producing a silver-containing glass powder, and use of the glass powder**  
DE 10 2014 221 679 B4

Kriegel, R.; Kircheisen, R.; Ritter, K.  
**Method for the high-temperature-resistant bonding of oxygen-permeable oxide ceramics based on substituted earth-alkaline cobaltates by means of doping-supported diffusive reactive sintering**  
CN 102 574 073 B

Krüger, P.  
**Modular, imaging, large x-ray detector**  
DE 10 2007 045 799 B4

Kunz, W.; Steinborn, C.; Finaske, T.; Brückner, F.

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Method for producing ceramic fibre composites DE 10 2015 205 595 B3	Trofimenko, N.; Sauchuk, V.; Kusnezoff, M.; Lucke, K.; Michaelis, A.; Brandner, M.; Schmid, J.; Venskutonis, A. <b>Layer structure and use thereof to form a ceramic layer structure between an interconnect and a cathode of a high-temperature fuel cell</b> US 9,337,497 B2; EP 2 676 318 B1; CN 103 403 938 B; JP 600 444 8 B2	ing radiography and tomography in additive manufacturing <b>Krüger, P.; Schulze, M.; Hillmann, S.</b> A method to evaluate images of fibrous tissues based on eddy current measurements	Trofimenko, N.; Lucke, K.; Kusnezoff, M. <b>Past-like composition and method for production of three-dimensional structures or structure elements on substrate surfaces</b>
Lausch, H.; Brand, M.; Andrä, W.; Werner, C. <b>Arrangement for non-contact defined movement of at least one magnetic body</b> EP 2 023 814 B1	Zeh, C.; Härtling, T. <b>Verfahren zur Markierung von Werkstücken und Werkstück</b> DE 10 2015 107 744 B3	Kusnezoff, M.; Dietrich, S. <b>Gas-sensitive sensor-element</b>	Vogel, A.; Pippardt, U.; Hoffmann, R.; Jäger, B. <b>Method for dry coating of supports</b>
Lausch, H.; Brand, M.; Werner, C. <b>Arrangement for the touchless generation of defined mechanical, electrical and magnetic impulses</b> EP 2 367 478 B1	Meier, K.; Röllig, M.; Schingale, A.; Ochs, M. <b>Verbindungstechnologie für mehrlagige Leiterplatten</b>	Rebenklau, L.; Wodtke, A.; Augsburg, K.; Irrgang, K.; Lippmann, L.; Bechtold, F.; Köhler, P. <b>Ring-shaped sealing element with integrated thermo-elements</b>	Wolter, M.; Schilm, J.; Nikolowski, K.; Kusnezoff, M. <b>Composite-cathode layer arrangement for lithium based, solid state body batteries and method for its production</b>
Lausch, H.; Wätzig, K.; Kinski, I. <b>Electromagnetic radiation in the UV wavelength range emitting body, method for irradiation with this body and use of the body</b> DE 10 2015 102 427 B3	Adler, J.; Standke, G.; Haase, D. <b>Zirconium oxide ceramic, cellular material from this and method for production of zirconium oxide ceramic</b>	Reichel, U.; Kemnitz, E.; Krahl, T. <b>Method for producing poly-crystalline transparent shaped parts</b>	Wolter, M.; Schilm, J.; Nikolowski, K.; Kusnezoff, M.; Partsch, U.; Freytag, C. <b>Method for production of an electrochemical cell and an electrochemical cell produced with this method</b>
Lüthardt, F.; Adler, J. <b>Method and device for continuous generation of foams</b> DE 10 2010 039 322 B4	Cikalova, U.; Bendjus, B.; Schott, C.; Steinboecker, J. <b>Laseroptisches Sensorsystem zur nichtinvasiven Biomassecharakterisierung in biotechnologischen Prozessen</b>	Richter, H.; Simon, A.; Jüttke, Y.; Schwieger, W.; Schülein, M.; Lüdke, D.; Reif, B. <b>Permeation membrane und method for production a permeation membrane</b>	Zeh, C.; Härtling, T. <b>Manufacturing method for sensing element and sensor device</b>
Nicolai, J.; Bendjus, B.; Cikalova, U.; Schreiber, J. <b>Method for the contactless, destruction-free determination of inhomogeneities and/or defects on surfaces of components or samples</b> DE 10 2014 224 852 B4	Friedrich, H.-J.; Hielscher, M.; Hinrichs, T.; Rott, H.-J. <b>Method for treatment of geothermal fluids or formation waters by continuous electrochemical separation of reducible metal-ions or metalloide-ions from the delivery stream</b>	Scheithauer, U.; Aneziris, C. <b>Particle from a refractory ceramic material for influencing the damage tolerance of high temperature materials and method for its production</b>	Ziesche, S.; Ihle, M.; Hirsch, O.; Tuor, A. <b>Manufacturing method for sensing element and sensor device</b>
Opitz, J.; Pohl, A.; Schreiber, J.; Quenzel, P.; Boschke, E.; Bley, T.; Pässler, S.; Vonau, W.; Mertig, M.; Lange, A.; Rohayem, J.; Lapina, V. <b>Method and device for detecting an analyte in a sample by means of surface-plasmon resonance (SPR) and electrochemical impedance spectroscopy (EIS)</b> EP 2 594 525 B1	Gluch, J.; Kopycinska-Müller, M.; Rabe, U.; Köhler, B. <b>Procedure for calibration of AFM tip for quantitative determination of indentation modulus of materials on nanoscale</b>	Scheithauer, U.; Aneziris, C. <b>Particle from a refractory ceramic material for influencing the crack formation in high temperature materials and method for its production</b>	Ziesche, S.; Lenz, C.; Kuipers, W.; Deilmann, M. <b>Device for detection of organic compounds</b>
Räthel, J.; Herrmann, M.; Weise, B. <b>Plunger tool for spark-plasma sintering or field activated sintering</b> DE 10 2011 105 413 B4	Goldberg, A.; Partsch, U.; Ziesche, S. <b>Valve from a ceramic material and method for its production</b>	Scheunert, G.; Härtling, T.; Wucherer, R. <b>Berechnungsindex-Sensor auf Basis plasmatischer Substrate für Flüssigkeiten im Automotivbereich zur Echtzeitsteuerung eines Regelkreises</b>	<b>Books and periodical contributions</b>
Reichel, U.; Ludwig, H.; Kemnitz, E. <b>Alpha-Al<sub>2</sub>O<sub>3</sub>- Sintering material, method for producing a high-density and very finely crystalline molded body made of said material, and use thereof</b> DE 10 2009 035 501 B4; EP 2 462 080 B1	Grund, M.; Weidl, R.; Schulz, M. <b>Sodium ions conducting membrane based on sodium-beta-aluminate system and method for its production</b>	Schulze, E. <b>Bifunctional polyacrylamide-free flocculation agents and method for its production</b>	Adler, J.; Kriegel, R.; Petasch, U.; Richter, H.; Voigt, I.; Weyd, M. <b>Keramik für Filtrationsanwendungen</b> Keramische Zeitschrift 68(2016), Nr.3, p.172–178
Stelter, M.; Partsch, U.; Rabbow, T.; Schöne, J.; Goldberg, A.; Wolter, M. <b>Contact element for contacting of an electrical power generating electrochemical cell and method for its producing</b> DE 10 2009 037 144 B4	Härtling, T. <b>Verfahren zur Rückverfolgung der Temperaturhistorie von Produkten und Baugruppen</b>	Schwarzer, E.; Kelemen, M.; Scheithauer, U.; Moritz, T.; Markova, D. <b>Ceramic suspension</b>	Ahlhelm, M. <b>Gefrierschäume – Entwicklung von zellulären Strukturen für vielfältige Anwendungen</b> Stuttgart: Fraunhofer Verlag, 2016, 191 p. (Zugl.: Clausthal, TU, Diss., 2015) (Kompetenzen in Keramik. Schriftenreihe, 32) ISBN 978-3-8396-0977-4
Stelter, M.; Partsch, U.; Rabbow, T.; Schöne, J.; Goldberg, A.; Wolter, M. <b>Contact element for current consumption and current output in electrical power generating electrochemical cell</b> DE 10 2009 037 147 B4	Hofacker, M.; Kiesel, L. <b>Extrusion method and devise for extrusion for production of a ceramic tube with sealed bottom</b>	Schwarzer, E.; Moritz, T. <b>Mouldable ceramic and/or powder-metallurgical green tapes and method for moulding this ceramic and/or powder-metallurgical green tapes</b>	Ahlhelm, M.; Günther, P.; Scheithauer, U.; Schwarzer, E.; Günther, A.; Slawik, T.; Moritz, T.; Michaelis, A. <b>Innovative and novel manufacturing methods of ceramics and metal-ceramic composites for biomedical applications</b> Journal of the European Ceramic Society 36(2016), Nr.12, p.2883–2888
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Weil, M.; Meißner, T.; Springer, A.; Bundschuh, M.; Hübler, L.; Schulz, R.; Duis, K. Oxidized carbo-iron causes reduced reproduction and lower tolerance of juveniles in the amphipod <i>Hyalella azteca</i> Aquatic Toxicology 181(2016), p.94–103	Adler, J. et al. <b>Effect of membranes in exhaust particulate filtration</b> Presentation (author)	Eberstein, M. et al. Ceramic functional inks for high definition 3D printed electronics Presentation (author)	Metasch, R. et al. Messverfahren zur thermo-mechanischen Charakterisierung von Werkstoffen der Hochtemperatur-AVT Presentation (author)
Weiser, M.; Schulze, C.; Schneider, M.; Michaelis, A. Platinum electrodeposition from a dinitrosulfatoplatinate(II) electrolyte Applied Surface Science 390(2016), p.333–338	Bienert, C. et al. <b>CFY-Stack Technology for SOEC applications</b> Presentation (author)	<b>15th International Nanotechnology Exhibition &amp; Conference – nano tech 2016</b> , Tokyo, 27.–29.1.2016	Röllig, M. et al. Schnelle Beanspruchungsanalyse von elektronischen Motorsteuerungen unter Vibrationslast als Unterstützung im Designprozess Presentation (author)
Winkin, N.; Gierth, U.; Mokwa, W.; Schneider, M. Nanomaterial-modified flexible micro-electrode array by electro-phoretic deposition of carbon nanotubes Journal of Biochips & Tissue Chips 6(2016), Nr.1, Art. 1000115, 6 p.	Gaczynski, P.; Harpf, A. et al. High-temperature 57Fe Mössbauer study of mixed ionic-electronic conducting $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$ Presentation (co-author)	Eberstein, M. High performance thick film pastes for AlN, $\text{Si}_3\text{N}_4$ , and warpage free LTCC Presentation (author)	Schwarz, R. et al. Langzeitstabile und robuste Kapselung von Elektronikbaugruppen für Unterwasseranwendungen Presentation (author)
Wolf, A.; Härtling, T.; Hinrichs, D.; Dorfs, D. <b>Synthesis of plasmonic <math>\text{Cu}_{2-x}\text{Se}</math>@ZnS Core@Shell nanoparticles</b> ChemPhysChem 17(2016), Nr.5, p.717–723	Hennicke, J. et al. <b>Combining flash sintering/sinter-forging with hybrid FAST/SPS technology for oxide and non-oxide materials</b> Presentation (author)	<b>23. Seminar des Arbeitskreises "Elektrochemie in Sachsen"</b> , Dresden, 5.2.2016	<b>Fraunhofer-Forschungsmanager-Prädikatsprogramm</b> , Dresden, 17.02.2016
Wollbrink, A.; Volgmann, K.; Koch, J.A.; Kanthasamy, K.; Tegenkamp, C.; Li, Y.; Richter, H.R.; Kämnick, S.; Steinbach, F.; Feldhoff, A.; Caro, J. Amorphous, turbostratic and crystalline carbon membranes with hydrogen selectivity Carbon 106(2016), p.93–105	Hennicke, J. et al. <b>Enhancements on FAST sintering systems promote transfer from the lab to industrial applications</b> Presentation (author)	Liebmann, T. et al. <b>Mikroelektrochemische Untersuchungen an AA2024</b> Presentation (author)	Michaelis, A. Innovationsmanagement bei Fraunhofer mit Beispielen aus der Praxis Presentation (author)
Wuchrer, R.; Amrehn, S.; Liu, L.; Wagner, T.; Härtling, T. <b>A compact readout platform for spectral-optical sensors</b> Journal of Sensors and Sensor Systems 5(2016), Nr.1, p.157–163	Klemm, H. et al. <b>Ceramic turbo charger of silicon nitride – Material development and fabrication</b> Presentation (author)	Schrötké, E. et al. Verhalten von EKasic D bei hohen anodischen Stromdichten Presentation (author)	<b>5th International Nanotechnology Conference &amp; Exhibition – Nanolsrael</b> , Tel Aviv, 22.–23.2.2016
Yoo, Y.-M.; Han, T.-Y.; Kim, H.S. Melatonin suppresses autophagy induced by clinostat in preosteoblast MC3T3-E1 cells International Journal of Molecular Sciences 17(2016), Nr.4, Art. 526, 13 p.	Klimke, J. <b>Gelcasting of transparent ceramics</b> Invited presentation (author)	<b>Scientific discussion meeting of the Royal Society: Taking the temperature of phase transitions in cool materials</b> , London, 8.–9.2.2016	Michaelis, A. Smart ceramic materials for energy and environmental technology Presentation (author)
Opitz, J. Fraunhofer Institute for Ceramic Technologies and Systems IKTS: Branch materials diagnostics Presentation (author)	Kusnezoff, M. et al. <b>MEA performance evaluation using different methods for area specific resistance estimation</b> Presentation (author)	<b>145th TMS Annual Meeting &amp; Exhibition – TMS 2016</b> , Nashville, 14.–18.2.2016	<b>Innovationsforum FerroKat</b> , Leipzig, 23.–24.2.2016
<b>Presentations and poster</b>	Moritz, T. et al. <b>Additive manufacturing of advanced ceramic components: What is possible today and what are the trends?</b> Invited presentation (author)	Gluch, J. et al. <b>Novel in-situ mechanical tests within an X-ray microscope</b> Presentation (author)	Gaitzsch, U.; Walther, G.; Lincke, M. et al. Entwicklung eines neuartigen energie- und rohstoffeffizienten Entschwefelungssystems für die Erzeugung von Bio-Erdgas Presentation (author)
<b>Workshop Additive Manufacturing</b> , Singapore, 14.–16.1.2016	Schwarzer, E. et al. <b>Suspension-based additive manufacturing of ceramic, metal and metal-ceramic components</b> Presentation (author)	<b>8. DVS/GMM-Tagung: Elektronische Baugruppen und Leiterplatten</b> , Fellbach near Stuttgart, 16.–17.2.2016	Reichelt, E. Synthese höherer Alkohole an Eisenkatalysatoren Presentation (author)
Wätzig, K. et al. Lithium loss indicated formation of microcracks in LATP ceramics Presentation (author)	Wolf, C. et al. <b>In-situ optical coherence tomography inspection of laser-structured polycrystalline ceramics</b> Presentation (author)	Dudek, R.; Hildebrandt, M.; Rzepka, S.; Röllig, M. et al. <b>Sprödbruchrisiko an keramischen Bauelementen in Abhängigkeit vom Hochtemperatur-Lotwerkstoff und der Beanspruchungsgeschwindigkeit</b> Presentation (co-author)	<b>ATC Tagung</b> , Frankfurt on the Main, 25.–26.2.2016
Meier, K. et al. Zuverlässigkeitstests an organischen Leiterplatten mit dickem Kupferkern für leistungselektronische Anwendungen Presentation (author)	Metais, B.; Kabakchiev, A.; Guyenot, M.; Metasch, R. et al. <b>Entwicklung einer Pro-aktiv</b> Invited presentation (author)	<b>14. Treffen des DGG-DKG Arbeitskreises "Glasig-kristalline Multifunktionswerkstoffe"</b> , Berlin, 25.–26.2.2016	Rost, A. et al. Glaskeramiken als Werkstoffe für Festkörperbatterien Invited presentation (author)

<b>Fortbildungsseminar Hochtemperatur-Sensorik</b> , Goslar, 25.–26.2.2016	<b>International Symposium of Innovative Ceramic Manufacturing Process Technology</b> , Tokyo, 4.3.2016	Günther, A. Textiles in ceramic – Manufacturing and applications for structural and functional materials Presentation (author)	factoring of ceramic and metal-ceramic components Presentation (author)
Rebenklau, L. et al. <b>Aufbau- und Verbindungstechnik</b> Presentation (author)	Pfeifer, T. et al. Portable fuel cell systems based on multilayer ceramics technology and derived design concepts Invited presentation (author)	Herrmann, M. et al. Corrosion of silicon carbide bonded diamond ceramics and SiSiC-materials in aqueous solutions Presentation (author)	Schmidt, R. et al. <b>Shrinkage controlled pastes for bulky silver and copper thick films in power electronics</b> Presentation (author)
<b>Jahrestreffen der ProcessNet-Fachgruppen "Mechanische Flüssigkeitsabtrennung und Membrantechnik"</b> , Kassel, 2.–3.3.2016	<b>Conference on Electric Field Assisted Sintering and Related Phenomena Far From Equilibrium – ECI</b> , Tomar, 6.–11.3.2016	Kircheisen, R. et al. Keramische Membrankomponenten für die O <sub>2</sub> -Erzeugung in Rauchgasen Poster (author)	Schönenfeld, K. et al. <b>ZrC – A potential material for ultrahigh temperature heaters</b> Presentation (author)
Voigt, I. <b>Keramische Membranen: Anwendungsbeispiele und Zukunftspotentiale</b> Vortrag (Autor)	Räthel, J. et al. Flash sintering by the use of hybrid-heated FAST/SPS technique Presentation (author)	Kunz, W. <b>Self-healing materials as environmental barrier coatings for gas turbines</b> Presentation (author)	Seidel, M. et al. Characterization of the lithium ion battery high voltage cathode material LiNi <sub>0,5</sub> Mn <sub>1,5</sub> O <sub>4</sub> synthesized from different precursor chemistries and calcination parameters Presentation (author)
<b>49. Essener Tagung für Wasser- und Abfallwirtschaft "Wasserwirtschaft 4.0"</b> , Essen, 2.–4.3.2016	<b>80. Jahrestagung der DPG und DPG-Frühjahrstagung</b> , Regensburg, 6.–11.3.2016	Martin, H.-P. Herstellung von Keramikverbünden mit hochtemperaturstabilen Titanaluminiden Presentation (author)	Seuthe, T. et al. <b>Ceramic decals – Pre-adjusted thick film circuits and sensors for variable surfaces</b> Presentation (author)
Schulze, E. autartec® – Technologien zur autarken Wasserver- und -entsorgung Presentation (author)	Zschech, E. et al. Laboratory-based X-ray microscopy – Technique and applications Presentation (author)	Müller-Köhn, A. et al. <b>Powder Injection Moulding (PIM) of glass composites for electrical conductive and decorative components</b> Presentation (author)	Seuthe, T. et al. <b>Thick film measuring resistors with minimized temperature coefficients</b> Presentation (author)
<b>27. Konferenz Elektronische Sprachsignalverarbeitung – ESSV 2016</b> , Leipzig, 2.–4.3.2016	<b>Phosphor Global Summit</b> , Newport Beach, 7.–9.3.2016	Kinski, I. et al. Development and characterization of transparent and other optically active ceramics Presentation (author)	Voigt, I. et al. <b>Design of micropores in inorganic membranes for efficient separation of liquids and gases</b> Presentation (author)
Tschöpe, C. et al. <b>Universal Cognitive User Interface – UCUI</b> Poster (author)	<b>91. DKG Jahrestagung &amp; Symposium Hochleistungskeramik 2016</b> , Freiberg, 7.–9.3.2016	Opitz, J. et al. Development of nanodiamond-based coatings for titanium alloy oxide layers Presentation (author)	Wätzig, K. et al. <b>Preparation and characterization of LATP ceramics for solid electrolytes</b> Presentation (author)
<b>28. Deutsche Zeolith-Tagung</b> , Giessen, 2.–4.3.2016	Abel, J. Joining of Al <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> and Si <sub>3</sub> N <sub>4</sub> /Si <sub>3</sub> N <sub>4</sub> ceramics without using additives Presentation (author)	Opitz, J. et al. Novel characterization technologies for structural ceramics Presentation (author)	Ziesche, S. <b>Mehrlagenkeramik und Keramikspritzguss – Eine technologische Kombination zur Herstellung dreidimensionaler funktioneller LTCC-Komponenten</b> Presentation (author)
Gleichmann, K.; Fischer, G. et al. <b>Compact zeolite form body free of binding agent type LTA and FAU</b> Poster (co-author)	Abel, J. Micro gas turbine rotor made of silicon nitride: Approach, development and operation Presentation (author)	Potthoff, A. Cr <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> -Hochleistungsschichten durch thermisches Spritzen von wässrigen Suspensionen Presentation (author)	<b>6th International Conference on Silicon Photovoltaics – SiliconPV 2016</b> , Chambéry, 7.–10.3.2016
Gleichmann, K.; Brandt, A.; Zimmermann, J.; Unger, B.; Richter, H. <b>Pades – Development of new technologies for zeolite manufacturing</b> Poster (co-author)	Baumgärtner, C. Phase transformation in nanoporous LiAlO <sub>2</sub> Presentation (author)	Reinhardt, K. Rheological properties of thick film pastes and their effects on printing performance Presentation (author)	Körner, S. et al. <b>Low temperature paste for preparation of high efficiency HJT solar cells</b> Presentation (author)
Jüttke, Y. et al. <b>Carbon infiltration in NF membranes as model for pore blocking</b> Poster (author)	Eckhard, S. Modification of internal granule structures via suspension formulation and process parameters Presentation (author)	Richter, H.-J. Plastic forming of flat ceramic substrates using an extrusion and rolling process Poster (author)	<b>18. Werkstofftechnisches Kolloquium – WTK 2016</b> , Chemnitz, 10.–11.3.2016
Lüdke, D.; Schülein, M.; Jüttke, Y. et al. <b>Closing of defects via infiltration and carbonization of furfuryl alcohol of supported zeolite BEA membranes</b> Poster (co-author)	Gestrich, T. et al. Erhitzungsmikroskopie in hochreinen Atmosphären und komplexe thermische Analyse für das Löten von Keramik und die Herstellung von Hochleistungskeramik Presentation (author)	Richter, J. et al. Ceramic membrane reactors for improvement in efficiency Poster (author)	Berger, L.-M. <b>Binary WC- and Cr<sub>3</sub>C<sub>2</sub>-containing hardmetal compositions for thermally sprayed coatings</b> Presentation (author)
Schülein, M.; Lüdke, D.; Richter, H. et al. <b>Carbon integrated zeolite membranes – A defect closing method</b> Poster (co-author)	Gradmann, R. et al. Adaption of ceramic thick-film materials for laser sintering in integrated sensor applications Poster (author)	Scheithauer, U. et al. New lightweight kiln furniture produced by combining tape casting and extrusion Presentation (author)	<b>China Semiconductor Technology International Conference 2016 – CSTIC</b> , Shanghai, 13.–14.3.2016
Simon, A. et al. <b>Improvement of zeolite membranes by CVD-carbon deposition</b> Poster (author)		Scheithauer, U. et al. Suspension based additive manu-	

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Gabler, F.; Roscher, F.; Döring, R.; Otto, A.; Ziesche, S. et al. Materials and technologies to enable high temperature stable MEMS and electronics for smart systems used in harsh environments Presentation (co-author)	composites: Static and fatigue fracture behavior Presentation (co-author)	34 mixed-matrix membranes Poster (Autor)	Kriegel, R. <b>Sauerstoff für die motorische Nutzung von Schwachgasen</b> Presentation (author)
<b>Workshop 2 des Innovationsforums SpreuStroh: "Energetische Nutzung der Biomasse SpreuStroh"</b> , Leipzig, 14.3.2016	Meyendorf, N. et al. NDE applications in microelectronic industries Presentation (author)	<b>1. Thüringer Trinkwassertagung</b> , Jena, 6.–7.4.2016	<b>E4Water Final Conference: Integrated Industrial Water Management: Solutions For Practice</b> , Brussels, 19.–20.4.2016
Schwarz, B. Stroh – Strohpellets – Biogaspellets: Alternative Möglichkeiten zur verbesserten Biomethanproduktion Presentation (author)	Wunderlich, C. Nondestructive cell evaluation techniques in SOFC stack manufacturing Presentation (author)	Voigt, I. et al. Wasseraufbereitung mit keramischen Membranen Presentation (author)	Weyd, M. et al. Ceramic membranes for water treatment Poster (author)
<b>49. Jahrestreffen Deutscher Katalytiker</b> , Weimar, 16.3.2016	<b>13th Symposium for Fuel Cell and Battery Modeling and Experimental Validation – ModVal13</b> , Lausanne, 22.–23.3.2016	<b>4SMARTS Symposium für Smarte Strukturen und Systeme</b> , Darmstadt, 6.–7.4.2016	<b>12th International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies – CICMT 2016</b> , Denver, 19.–21.4.2016
Jäger, B. et al. Wirkungsgrad-Steigerung in der alkalischen Wasser-Elektrolyse Poster (author)	Ganzer, G. et al. New method for determining area-specific resistance of a MCFC stack Presentation (author)	Schubert, L. et al. Systementwicklung zur Strukturüberwachung mit geführten Wellen Presentation (author)	Eberstein, M. et al. Silver pastes with adjusted glass composition for warpage-free LTCC Presentation (author)
Schaller, M. et al. Production of long-chained alcohols from syngas on iron catalysts Poster (author)	Zschech, E. et al. Micro and nano X-ray tomography of 3D IC stacks Presentation (author)	<b>2016 MRS Spring Meeting &amp; Exhibit</b> , Phoenix, 28.3.–1.4.2016	Gradmann, R. et al. Adaption of functional ceramic materials for the laser sintering process in integrated sensor applications Presentation (author)
<b>3rd Fraunhofer Direct Digital Manufacturing Conference – DDMC 2016</b> , Berlin, 16.–17.3.2016	<b>International Exhibition and Conference for the Printed Electronics Industry – LOPEC 2016</b> , Munich, 5.–7.4.2016	<b>6th KMM-VIN Industrial Workshop "Innovative Material Solutions for Transport Applications"</b> , Hatfield, 7.–8.4.2016	Partsch, U. et al. LTCC-based pressure sensors for elevated operation temperatures up to 300 °C Presentation (author)
Lausch, H. et al. Multi-material approach to integrate ceramic boxed temperature-sensitive components in laser beam melted structures for bio and other applications Presentation (author)	Körner, S. et al. Printable transparent organic resistors for sensor applications Poster (author)	<b>DLR Bauteilekonferenz 2016 – Qualitäts- und Produktsicherung</b> , Bonn, 12.–13.4.2016	<b>DKG working group Keramische Membranen</b> , Frankfurt on the Main, 20.4.2016
Schwarzer, E. et al. Development of photo-curable ceramic suspensions usable for additive manufacturing combined with freeze foaming Presentation (author)	Jäger, B. et al. Oberflächenaktive katalytische Mischmetalloxide zur Erhöhung des Wirkungsgrades bei der Wasserelektrolyse Presentation (author)	Scheithauer, U. et al. Additive Herstellung keramischer und metall-keramischer Bauteile Poster (author)	Richter, H. et al. Kohlenstoff als Membranmaterial für die Gastrennung Presentation (author)
Springer, P.; Schwarzer, E. et al. Equipment, material and processes for UV-DLP-based additive manufacturing of two-component ceramic green bodies and dense structures Presentation (co-author)	Jüttke, Y. et al. Minimization of NF-membrane pores as model for blocking Poster (author)	<b>Vakuumtag</b> , Dresden, 13.4.2016	<b>Virtuelle Besichtigung "autartec® – vom Entwurf zur Realisierung"</b> , Geierswalde, 21.4.2016
<b>Conference on Optical Chemical Sensors and Biosensors – EU-ROPT(R)ODE XIII</b> , Graz, 20.–23.3.2016	Kircheisen, R. et al. Schutzrohrkonzept zur Abwärmenutzung von Rauchgasen für Sauerstofftransportmembranen Poster (author)	Nikolowski, K. Untersuchungen zum Befüllprozess von Lithium-Ionen-Batterien Presentation (author)	Lincke, M. et al. Vom Grau- und Regenwasser zum Trinkwasser Presentation (author)
Wuchrer, R. et al. A holistic plasmonic sensor system Poster (author)	Reger-Wagner, N. et al. Keramische Membranreaktoren zur Effizienzsteigerung in der chemischen Verfahrenstechnik Poster (author)	<b>17th International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems – EuroSimE 2016</b> , Montpellier, 17.–20.4.2016	<b>Hannover Messe 2016: Werkstoff- &amp; Leichtbau-Forum</b> , Hanover, 24.–29.4.2016
<b>Smart Materials and Nondestructive Evaluation for Energy Systems – 2016</b> , Las Vegas, 20.–24.3.2016	Simon, A. et al. Defect blocking of zeolite membranes by CVD-carbon deposition Presentation (author)	Lenczner, M.; Yang, B.; Cogan, S.D.; Domas, S.; Ke, D.; Couturier, R.I.; Renault, D.; Köhler, B. et al. Temperature control of an STHM micro-probe with an heat source estimator and a lock-in measurement Presentation (co-author)	Berger, L.-M. Verschleißfeste Hartmetall-schichten für den Leichtbau Presentation (author)
Hakim, I.; May, D.; Ras, M.; Meyendorf, N. et al. Quantifying voids effecting delamination in carbon/epoxy	Villwock, M. et al. Studies on manufacturing SAPO-	Schwerz, R. et al. Robust and reliable encapsulation of electronics for underwater applications Presentation (author)	<b>7. Anwenderseminar 2D/3D-Rheologie und Stabilität von dispersen Systemen</b> , Potsdam, 25.–27.4.2016
		<b>Internationale Deponie- und Biogas-Fachtagung</b> , Lübeck, 18.–19.4.2016	Meyer, A. et al. Untersuchungen der Stabilität von metallischen Nanopartikel-Tinten mittels Zentrifugalseparationsanalyse Invited presentation (author)

<b>GRL-FYK Opening Ceremony &amp; Workshop</b> , Songdo, 25.–27.4.2016	<b>Turbine Forum 2016: "Advanced Coatings for High Temperatures"</b> , Nice, 27.–29.4.2016	market trends Presentation (author)	aus Prozesswässern der Metall-Bergbauindustrie Presentation (author)
Opitz, J. Division bio- and medical technology at Fraunhofer IKTS Presentation (author)	Schönfeld, K. et al. Potential of ceramic matrix composites for gas turbine applications Presentation (author)	<b>21st International Conference on Microwave, Radar and Wireless Communications – MIKON</b> , Krakow, 9.–11.5.2016	<b>Abschlussveranstaltung des Innovationsforums SpreuStroh</b> , Chemnitz, 19.–20.5.2016
<b>26. Workshop des Forums Inn-O-Kultur</b> , Leipzig, 26.4.2016	<b>Frühjahrestagung der Landesfachgruppe der neuen Bundesländer</b> , Hartha, 29.4.2016	Heuer, H. et al. High resolution radio frequency inspection of carbon fiber composites Presentation (author)	Schwarz, B. Das Biogaspellet – Energie und Dünger aus SpreuStroh Presentation (author)
Hoyer, Thomas Anorganisch-organische Nanokompositbeschichtungen für Steine, Metalle, Kunststoffe Presentation (author)	Hoyer, T. Einkomponentige werkseitige Nanokristallithbehandlung Presentation (author)	<b>AchemAsia</b> , Beijing, 9.–12.5.2016	<b>Glass &amp; Optical Materials Division – GOMD 2016</b> , Madison, 22.–26.5.2016
<b>Kraftwerk Batterie 2016</b> , Münster, 26.–27.4.2016	<b>6th Workshop on Metallization &amp; Interconnection for Crystalline Silicon Solar Cells</b> , Constance, 2.–3.5.2016	Richter, H. et al. Dewatering of glycol with zeolite NaA membranes for enhancement of natural gas drying Presentation (author)	Möncke, D.; Wondraczek, L.; Brauer, D.; Brandt, J.; Ehrt, R.; Johannes, M. et al. Structural analysis by vibrational spectroscopy (IR and Raman) in the study of bio-glasses and glass ceramics Presentation (author)
Reinke, C. et al. Analysis of the electrolyte penetration behavior in lithium-ion battery cells by electrical measurements Poster (author)	Eberstein, M. et al. High performance silver polymer pastes for SHJ cells Presentation (author)	Richter, H. et al. Enhancement of natural gas drying by dewatering of glycol with zeolite NaA membranes Presentation (author)	<b>4th Annual Seminar of ALDCoE "ALD precursors and processes"</b> , Helsinki, 23.–24.5.2016
Wolter, M. et al. EMBATT bipolar lithium battery concept – Approach to increase energy density for automotive application Poster (author)	Körner, S. et al. Transparent front side contact pastes for high efficiency SHJ-solar cells Presentation (author)	Richter, H. et al. Large scale ceramic nanofiltration membranes for water and waste water treatment Presentation (author)	Puurunen, R. L.; Koshty, Y.; Pedersen, H.; van Ommen, J. R.; Yurkevich, O.; Sundqvist, J. Virtual project on the history of ALD: Overview and current status Poster (co-author)
<b>Deutsche Biotechnologietage</b> , Leipzig, 26.–27.4.2016	<b>Jahrestreffen Reaktionstechnik 2016 – ProcessNet</b> , Würzburg, 2.–4.5.2016	<b>First Iranian Conference of FAST/SPS</b> , Teheran, 10.5.2016	<b>IEEE International Interconnect Technology Conference / Advanced Metallization Conference – IITC/AMC</b> , San José, 23.–26.5.2016
Lehmann, A. et al. Spin-Off-Vorhaben des Fraunhofer IKTS: Optische Prostatakrebsdiagnose Presentation (author)	Lomtscher, A. Einfluss der Anwesenheit von faserigen Partikeln auf das Fließverhalten und die Strömungsgeschwindigkeiten in gerührten Systemen Presentation (author)	Räthel, J. et al. FAST/SPS Technology – Principles and applications for ceramic materials Presentation (co-author)	Zschech, E. et al. Novel approaches to determine thermomechanical materials data in advanced interconnect stacks Presentation (author)
<b>9. Biogas-Innovationskongress – BIOGAS 2016</b> , Osnabrück, 26.–27.4.2016	Pohl, M. et al. Konform temperierter Fluidmischer Poster (author)	<b>International Conference on High Temperature Electronics – HiTEC / IMAPS 2016</b> , Albuquerque, 10.–12.5.2016	<b>14th International Conference Reliability and Stress-Related Phenomena in Nanoelectronics – IRSP 2016</b> , Bad Schandau, 30.5.–1.6.2016
Schwarz, B. et al. Strohbasierte Biogaspellets als alternatives Inputsubstrat in Biogasanlagen Presentation (author)	Reichelt, E. et al. Stofftransport und Druckverlust in geschütteten und strukturierten Festbetten Presentation (author)	Vogt, H.; Altmann, F.; Braun, S.; Celik, Y.; Dietrich, L.; Dietz, D.; van Dijk, M.; Dreiner, S.; Döring, R.; Gabler, F.; Goehlich, A.; Hutter, M.; Ihle, M. et al. HOT-300 – A multidisciplinary technology approach targeting microelectronic systems at 300 °C operating temperature Presentation (co-author)	Kteyan, A.; Mühle, U. et al. Analysis on effect of TSV-induced stress: Measurements and simulations Presentation (co-author)
<b>COST MP1105 Final Conference "Innovations in Flame Retardancy of Textiles and Related Materials"</b> , Poznan, 27.–28.4.2016	Schaller, M. et al. Synthese langkettiger Alkohole an Eisenkatalysatoren Poster (author)	<b>39th International Spring Seminar on Electronics Technology – ISSE 2016</b> , Pilsen, 18.–22.5.2016	Niese, S. et al. Full-fiel hard X-ray microscopy and tomography for in-situ mechanical testing of BEOL structures Presentation (author)
Martins, M.; Slawik, T.; Moritz, T. et al. Ceramic tapes as fire protective coatings for CFRP composites Presentation (co-author)	<b>CNS Symposium 2016</b> , Caputh, 4.5.2016	Lenz, C. et al. Consideration of inhomogeneous shrinkages for LTCC-applications in panel-level processes Presentation (author)	Zschech, E. et al. X-ray techniques for 3D metrology and diagnostics – Status and outlook Presentation (author)
<b>Printed Electronics Europe 2016</b> , Berlin, 27.–28.4.2016	Hillmann, S. et al. Methoden zur Messung der mechanischen Spannung und des Ermüdungszustandes an Stählen mit magnetischem Barkhausenrauschen Invited presentation (author)	Ziesche, S. et al. Ceramic substrate technology for wafer level packaging of MEMS Presentation (author)	<b>Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS – DTIP 2016</b> , Budapest, 30.5.–2.6.2016
Fritsch, M. et al. Synthesis and formulation of particle inks for inkjet and aerosol-jet printing methods Presentation (author)	<b>2016 Critical Materials Council Seminar – CMC</b> , Hillsboro, 5.–6.5.2016	<b>20. Leibniz-Konferenz – Recycling 2016</b> , Lichtenwalde, 19.–20.5.2016	Voigt, I. et al. Recycling von seltenen Metallen
Fritsch, M. Synthesis and properties of nanoinks for inkjet and aerosol-jet printing applications Presentation (author)	Sundqvist, J. ALD/CVD material & equipment		

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Ihle, M. et al. LTCC-Packaging of a laser optical system for harsh environments Presentation (author)	<b>11th Natural Gas Conversion Symposium – NGCS 11</b> , Tromsø, 5.–9.6.2016	<b>19th World Conference on Non-Destructive Testing – WCNDT 2016</b> , Munich, 13.–17.6.2016	(128:128) for fast and modular automated testing Presentation (author)
<b>7th CIRP Conference on High Performance Cutting – HPC 2016</b> , Chemnitz, 31.5.–2.6.2016	Schaller, M. et al. Production of long-chained alcohols from synthesis gas using iron catalysts Poster (author)	Barth, M. et al. Inspection of forged disc materials with an adapted annular array and dynamic depth focusing Presentation (author)	Schubert, F. Simulation of ultrasonic wave propagation in anisotropic heterogeneous welds embedded in a polycrystalline base material Presentation (author)
Bergs, T.; Richter, V.; Ottersbach, M.; Pötschke, J. et al. Tool technologies for milling of hardmetals and ceramics Presentation (co-author)	<b>90. Glastechnische Tagung der DGG</b> , Goslar, 6.–8.6.2016	Barth, M. et al. Testing of ceramics by ultrasound microscopy and vibration analysis Presentation (author)	Schulze, M. et al. NDE of carbon fiber based materials and polymers by the application of high frequency eddy-current techniques Presentation (author)
<b>Biomass to Power and Heat 2016</b> , Zittau, 1.–2.6.2016	Eberstein, M. et al. Einfluss von Glasadditiven auf das Sinterverhalten von Silberpulvern für die Metallisierung von LTCC-Substraten Presentation (author)	Bendjas, B. et al. Determination of biomass by laser-speckle-photometry Poster (author)	Walter, S. et al. Comparison of ultrasonic phased array probes based on PMN-PT and PZT 1-3 composites Presentation (author)
Scheithauer, O. et al. <b>CLEANPELLET</b> – Entwicklung eines Verfahrens für die Erzeugung emissionsarm verbrennbarer Gärrestpellets zu Nutzung als Brennstoff für Haus- und Kleinfeueranlagen Presentation (author)	Gradmann, R. et al. Entwicklung funktioneller Glaswerkstoffe für den laserbasierten Sinterungsprozess in integrierten Sensorsystemen Presentation (author)	Chapnyi, T.; Schreiber, J. et al. Characterization of polymer-based materials using fluorescence method and fractal analysis Presentation (co-author)	<b>Sitzung der Fachgruppe "Integrierte Schaltungen" des Zentralverbandes der Deutschen Elektroindustrie</b> , Hermsdorf, 14.6.2016
<b>23. Innovationstag Mittelstand des BMWi / Partnering Event – Innovation Day</b> , Berlin, 2.6.2016	<b>11th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding – LÖT 2016</b> , Aachen, 7.–9.6.2016	Cikalova, U. et al. Laser speckle photometry (LSP) – Optical sensor system for monitoring of material condition and processing Presentation (author)	Capraro, B. Foliengießen am Fraunhofer IKTS Presentation (author)
Reichel, U. New ceramic materials for innovative applications Presentation (author)	Martin, H.-P. et al. Experimental investigations of TiAl-brazes for ceramic joining Presentation (author)	Gommlich, A. et al. On determination of focal laws for linear phased array probes as to the active and passive element size Presentation (author)	<b>4th Dresden Nanoanalysis Symposium "Materials Modeling and Characterization"</b> , Dresden, 15.6.2016
<b>DGMT Workshop IFAT 2016: Membrane Technologies for Environmental Protection</b> , Munich, 2.6.2016	Schilm, J. et al. Brazing of kovar to alumina and LTCC for integration of ceramic pressure sensors Presentation (author)	Herzog, T. et al. New possibilities in ultrasound phased array testing by the use Poster (author)	Gluch, J. et al. Multilayer Laue lenses – Novel optics for nano X-ray tomography in a wide range of photon energy Presentation (author)
Pfleiger, C. et al. Ceramic nanofiltration membranes for organic solvent filtration of oily water and organic solvents Presentation (author)	<b>16th AUTEX World Textile Conference</b> , Ljubljana, 8.–10.6.2016	Hillmann, S. et al. Validation of an ultrasonic-phased-array-method for testing of circumferential welds at thin-walled pipes Presentation (author)	Kutukova, K. et al. Crack imaging in composite materials using high resolution nano-XCT Presentation (author)
<b>Cross-border Expert Talks: "Carbide-, Cermet- and Ceramic Coatings"</b> , Prague, 2.–3.6.2016	Mühle, U. et al. Structural characterisation of carbon fibres along the fabrication process using SEM/FIB and TEM Presentation (author)	Hipp, R. Operation and sound field of the ultrasonic biplanar-array Poster (author)	Sander, C. et al. Advanced characterization methods for materials properties of composite BEoL stacks for multi-scale simulation Presentation (author)
Berger, L.-M. Hardmetal coatings – Developments and trends Invited presentation (author)	<b>15th International Conference on New Actuators &amp; 9th Exhibition on Smart Actuators and Drive Systems – ACTUATOR 16</b> , Bremen, 13.–15.6.2016	Hönig, U.; Holder, U.; Pietzsch, A. et al. Definition of requirements for reference experiments to determine and evaluate various damage mechanisms in fibre composites by acoustic emission Presentation (co-author)	<b>SUMMEREV 16: Characterisation of Hardmetals and Superhard Materials</b> , Liechtenstein, 16.–17.6.2016
<b>International Conference on Powder Metallurgy &amp; Particulate Materials – POWDERMET 2016</b> , Boston, 5.–8.6.2016	Ehle, F. et al. An effective method for designing magnetic shape memory actuator systems Presentation (author)	Köhler, B. et al. A novel piezoelectric fibre patch transducer for shear horizontal wave modes Presentation (author)	Pötschke, J. et al. Novel techniques for sample preparation for electron imaging technologies Presentation (author)
Pötschke, J. et al. Novel polycrystalline WC-Co based cemented carbides and their properties Presentation (author)	Hohlfeld, K. et al. Tailored composite transducers based on piezoceramic fibres and pearls Presentation (author)	Kovalenko, D.; Opitz, J. Structural characterization by Raman spectroscopy Presentation (co-author)	<b>18th International Zeolite Conference</b> , Rio de Janeiro, 19.–24.6.2016
<b>XXI Physical Metallurgy and Materials Science Conference "Advanced Materials and Technologies" – AMT 2016</b> , Rawa Mazowiecka, 5.–8.6.2016	<b>Cancer Diagnostics Conference &amp; Expo</b> , Rome, 13.–15.6.2016	Richter, C. et al. Ultrasonic phased array system with 128 full parallel channels Presentation (author)	Richter, H. et al. Designing of zeolite particles for mixed-matrix-membrane and heat storage application Poster (author)
Zschech, E. Nano X-ray tomography – A novel technique for materials development Presentation (author)	Lehmann, A. et al. Fast evaluation of biopsy for prostate cancer diagnosis by Fraunhofer IKTS Presentation (author)	Schülein, M.; Lüdke, D.; Richter, H. et al.	

Carbon integrated zeolite membranes (CiZM) – A defect closing method Poster (co-author)	Molin, C. et al. PMN-8PT thick film and multi-layer ceramic devices for electrocaloric cooling applications Presentation (author)	Schilm, J. et al. Glass ceramic sealants for CFY based SOFC Presentation (author)	Friedrich, H.-J. Membranelektrolyseverfahren zur Behandlung von und zur Rohstoffgewinnung aus Bergbau- und Tiefenwässern Presentation (author)
Simon, A. et al. Improvement of zeolite membranes by deposition of amorphous carbon Poster (author)	3. ThEEN-Treff, Hermsdorf, 29.6.2016	<b>14th International Conference on Inorganic Membranes – ICIM 2016</b> , Atlanta, 10.–13.7.2016	<b>World Federation of NDE Centers Short Course – WFDEC</b> , Atlanta, 16.–17.7.2016
<b>18th International Meeting on Lithium Batteries – IMLB 2016</b> , Chicago, 19.–24.6.2016	Capraro, B. Folientechnik für mobile Stromspeicher Presentation (author)	Hoffmann, R. et al. Electrostatically supported spray coating to improve oxygen permeation of $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$ -capillaries Poster (author)	Köhler, B. Measurement Methods #1: Visualization of sound fields: From August Toeplers Schlieren Method to laser vibrometry Invited presentation (author)
Reinke, C. et al. Electrochemical approach to investigate the electrolyte wetting process of lithium-ion cells Poster (author)	<b>30th International Conference on Surface Modification Technologies – SMT30</b> , Milan, 29.6.–1.7.2016	Kiebach, R.; Agerstedt, K.; Hu, Q.; Hendriksen, P.V.; Engelbrecht, K.; Sogaard, M.; Pippardt, U.; Kiesel, L. et al. Lessons learned from designing and operating a proof-of-concept module with 25 tubular oxygen transport membranes Presentation (co-author)	Köhler, B. Wavefield visualization: Applications Invited presentation (author)
<b>Intersolar Europe + ees Europe Conference 2016</b> , Munich, 21.–22.6.2016	Weiser, M. et al. Characterization of the electrolytic deposition of particle reinforced metal layers by electrochemical quartz crystal micro balance Poster (author)	<b>ASCO Annual Meeting – ASCO16</b> , Chicago, 3.–7.7.2016	<b>43rd Review of Progress in Quantitative Nondestructive Evaluation – QNDE 2016</b> , Atlanta, 16.–22.7.2016
Rost, A. Glass-ceramic solid electrolytes for lithium and sodium ion batteries Presentation (author)	Lehmann, A. et al. Fast evaluation of biopsy for prostate cancer diagnosis by Fraunhofer IKTS Presentation (author)	Reger-Wagner, N. et al. Reduction of defects in zeolite membranes by chemical vapor deposition technique Presentation (author)	Köhler, B. et al. Course of studies for non-destructive testing at Dresden International University Presentation (author)
<b>5th International Conference on Structured Catalysts and Reactors – ICOSCAR5</b> , Donostia-San Sebastian, 22.–24.6.2016	<b>AFC IA Annex 32 (Solid Oxide Fuel Cells)</b> , Lucerne, 4.7.2016	Simon, A. et al. Synthesis of carbon nanotubes and carbon nanofibers on asymmetric porous ceramic substrates Presentation (author)	Köhler, B. et al. Elastic wave fields generated by shear horizontal piezoelectric fiber patch (SH-PFP) transducers: Parameter study by modelling and laser vibrometric measurements Presentation (author)
Hübner, M.; Petasch, U. et al. Potential of ceramic foams for DeNOx exhaust aftertreatment Poster (co-author)	Megel, S. et al. Update on SOFC/SOEC Technology in Germany Presentation (author)	Voigt, I. et al. Efficient oxygen separation from air with MIEC-membranes Presentation (author)	Kopycinska-Müller, M. et al. Novel approach in mechanical characterization of thin films for nano electronics Presentation (author)
<b>NanoTech Poland</b> , Poznan, 22.–25.6.2016	<b>Kongress QS Excellence 2016</b> , Bad Nauheim, 5.–6.7.2016	Voigt, I. et al. NF-Membranes for the cleaning of "Recycle water" in oil sand extraction Poster (author)	Löffler, M.; Zschech, E. et al. Multi-scale X-ray tomography of solder interconnects in microelectronics Presentation (co-author)
Zschech, E. et al. Nano X-ray tomography – A novel technique to study nano-materials and nanostructures Presentation (author)	Wunderlich, C. Innovative zerstörungsfreie in-line Methoden zur Qualitätssicherung im Umfeld von Industrie 4.0 Invited presentation (author)	<b>24. Seminar des "Arbeitskreises Elektrochemie in Sachsen"</b> , Chemnitz, 11.7.2016	Michaelis, A. New NDE methods for quality assessment of advanced ceramic materials and systems Presentation (author)
<b>17th European Conference for Composite Materials – ECCM17</b> , Munich, 26.–30.6.2016	<b>12th European SOFC &amp; SOEC Forum – EFCF 2016</b> , Lucerne, 5.–8.7.2016	Lämmel, C. et al. Leckraten von Ag/AgCl-Referenzelektroden und die Verwendung in elektrochemischen Messungen Presentation (author)	Rjelka, M. Extraction of depth profiles of third order elastic constants in cracked media Presentation (author)
Krug, M. et al. Evaluation of alumina as protective coating for carbon fibers in aluminum-based composites Presentation (author)	Henke, M.; Steilen, M.; Näke, R. et al. Control strategy for a SOFC gas turbine hybrid power plant Presentation (co-author)	Voigt, K. et al. Oxidbildung und Wärmeentwicklung bei stromkontrollierter Pulsanodisation von Aluminium Presentation (author)	Abel, J. et al. Influence of PE type in Ceramic Injection Molding (CIM) feedstocks towards the solvent extractability of green bodies Presentation (author)
<b>9th International Conference on High Temperature Ceramic Matrix Composites and Global Forum on Advanced Materials and Technologies for Sustainable Development – HTCMC 2016</b> , Toronto, 26.6.–1.7.2016	Kusnezoff, M. et al. Status of SOFC/SOEC stack and system development and commercialization activities at Fraunhofer IKTS Presentation (author)	<b>5th International Symposium on Graphene Devices – ISGD-5</b> , Brisbane, 11.–14.7.2016	
Klemm, H. et al. Hot gas stability of various ceramic matrix composites Presentation (author)	Megel, S. et al. CFY-stacks: Progress in development Poster (author)	Liao, Z.; Dianat, A.; Gall, M. et al. In-situ stretching graphene ribbons in the transmission electron microscope Presentation (co-author)	
Kunz, W. et al. Self-healing EBC material for gas turbine applications Presentation (author)	Pfeifer, T. et al. Development of a SOFC/battery-hybrid system for distributed power generation in India Presentation (author)	<b>IMWA Annual Conference 2016: "Mining meets Water – Conflicts and Solutions" – IMWA 2016</b> , Leipzig, 11.–15.7.2016	
<b>Electrocermics XV</b> , Limoges, 27.–29.6.2016			

## NAMES, DATES, EVENTS

Schwarzer, E. et al. Application instances based on different materials made by lithography-based ceramic manufacturing (LCM) Presentation (author)	<b>7th International Zeolite Membrane Meeting – IZMM 2016</b> , Dalian, 20.–23.8.2016  Voigt, I. et al. <b>Scale-up manufacturing and testing of microporous membranes</b> Presentation (author)	Hillmann, S. et al. <b>Current state of research of non-destructive methods for ceramic materials</b> Presentation (author)	using imaging and analytical transmission electron microscopy Presentation (author)
Schwarzer, E. et al. <b>Thermoplastic 3D-printing (T3DP) – Update in the field of additive manufacturing of single- and multi-material components</b> Presentation (author)	<b>6th International Congress on Ceramics – ICC6</b> , Dresden, 21.–25.8.2016  Abel, J. et al. <b>Aluminum alloy tools in Ceramic Injection Molding (CIM) for testing sample series</b> Presentation (author)	Kaiser, A. et al. <b>Characterization of high temperature materials properties and processes by heating microscopy under high purity atmospheres and high vacuum</b> Presentation (author)	Nikolowski, K. et al. <b>Novel approach to optimize high voltage spinel materials for lithium-ion batteries via the synthesis procedure</b> Presentation (author)
<b>15th Ulm Electrochemical Talks – UECT 2016</b> , Blaubeuren, 20.–21.7.2016  Rost, A. et al. <b>Impedance spectroscopy on glass-ceramic solid-state electrolytes for room temperature Na-S batteries</b> Presentation (author)	Ahlhelm, M. et al. <b>Novel ceramic composites for personalized 3D structures</b> Presentation (author)	Kaiser, S. et al. <b>Development of three-dimensional catalytically active fiber structures for heterogeneous catalysis</b> Presentation (author)	Petasch, U. et al. <b>Potential of open-celled ceramic foams for DeNOx exhaust after-treatment</b> Poster (author)
<b>16th International Conference on Atomic Layer Deposition – ALD 2016</b> , Dublin, 24.–27.7.2016  Sundqvist, J. <b>Industry panel on atomic level processing</b> Presentation (author)	Beckert, W. et al. <b>Modelling support for development of ceramic thermo-electric applications</b> Presentation (author)	Kentaro, I.; Richter, H.-J. et al. <b>Preparation of aluminium titanate-based porous ceramics using 3D printing as green process</b> Presentation (co-author)	Pohl, M. et al. <b>Tailor-made silver pastes for functional LTCC applications</b> Presentation (author)
Suyatin, D. B.; Khan, S. A.; Sundqvist, J. et al. <b>Longitudinal nanowire splitting by atomic layer etching</b> Presentation (co-author)	Chen, L. et al. <b>Crack detection of ceramics based on laser speckle photometry</b> Poster (author)	Kinski, I. et al. <b>Characterization and development of ceramic phosphors for light-conversion</b> Presentation (author)	Räthel, J. et al. <b>Flash sintering by the use of hybrid heated FAST/SPS technique</b> Presentation (author)
<b>Microscopy &amp; Microanalysis Meeting – M&amp;M 2016</b> , Columbus/ OH, 24.–28.7.2016  Gluch, J. <b>FIB sample preparation for X-ray microscopy and ROI target cross-sectioning</b> Presentation (author)	Eberstein, M. et al. <b>On the development of ceramic functional inks for high definition 3D printed electronics</b> Presentation (author)	Klemm, H. et al. <b>Design of non-oxide ceramic matrix composites for gas turbine applications</b> Presentation (author)	Reichelt, E. et al. <b>Application of ceramics for the sustainable production of chemical products</b> Presentation (author)
Michaelis, A. <b>(AM)<sup>2</sup>: Advanced Manufacturing and Additive Manufacturing</b> Presentation (author)	Feng, B. et al. <b>Fabrication and characterization of ceramic thermoelectric modules based on boron carbide and titanium suboxide</b> Presentation (author)	Köhler, B. <b>A duality: Elastodynamic testing for ceramics and ceramics for elastodynamic based nondestructive testing</b> Presentation (author)	Reinhardt, K. et al. <b>Shear tinning and thixotropic properties of thick film pastes and their effects on printing performance</b> Presentation (author)
<b>Gordon Research Conference</b> , South Hadley, 31.7.–5.8.2016  Heubner, C. et al. <b>Electrochemical in situ preparation and characterization of sub-micron sized-NaFePO<sub>4</sub></b> Presentation (author)	Füssel, A. et al. <b>Advancement of open-celled SSIC foams for high temperature application</b> Presentation (author)	Krell, A. et al. <b>New horizons beyond glass-optics: Transparent ceramics with advanced optical quality</b> Presentation (author)	Reuber, S. et al. <b>Ceragen fuel cells for off-grid and residential power</b> Presentation (author)
<b>11th International Symposium on Electrochemical Micro &amp; Nanosystem Technologies – EMNT 2016</b> , Brussels, 17.–19.8.2016  Schneider, M. et al. <b>Microelectrochemical investigation of AA2024</b> Presentation (author)	Gast, F.-U.; Schwinge, C.; Bohatzsch, T.; Ahlhelm, M. et al. <b>Testing of polymer-based ceramics as bone replacement material in additive manufacturing</b> Presentation (co-author)	Kusnezoff, M. et al. <b>Status and prospectives of SOFC technology</b> Presentation (author)	Rost, A. et al. <b>Joining of ceramic based TEG-modules</b> Presentation (author)
Weiser, M. et al. <b>Platinum nanoparticle electrodeposition from a halogen-free electrolyte for catalytically active coatings</b> Presentation (author)	Glöß, B. et al. <b>Influence of granule properties on die filling behavior</b> Presentation (author)	Mannschatz, A. et al. <b>Conductive glass-carbon composites for heaters produced by powder injection molding (PIM)</b> Presentation (author)	Scheithauer, U. et al. <b>Combination of green tape cast and extruded components for new lightweight kiln furniture</b> Presentation (author)
Heinig, K.-H. et al. <b>Ceramic-ceramic nanocomposites by melt quenching – How does it work and what are they good for?</b> Presentation (author)	Marcinkowski, M. et al. <b>Development of ceramic functional films for curing at 200 °C on planar and non-planar surfaces</b> Presentation (author)	Scheithauer, U. et al. <b>Suspension based additive manufacturing of single- and multi-material components</b> Presentation (author)	Schulz, M. et al. <b>Stiff plastic extrusion of sodium beta alumina ceramic electrolytes</b> Presentation (author)
Herrmann, M. et al. <b>Diamond, cBN reinforced ceramic materials: Potential wear resistant components</b> Presentation (author)	Martin, H.-P. et al. <b>Technological options to tune electrical conductivity of titanium suboxide – An experimental approach</b> Presentation (author)	Semu, D. et al. <b>Open-celled ceramic foams as functional structures for multi-phase chemical reactors</b> Poster (author)	Vinnichenko, M. et al. <b>Basic aspects of matrix materials stability for application in molten carbonate fuel cells</b> Presentation (author)

Wagner, D. et al. <b>Glass-ceramic solid electrolytes for room temperature sodium ion batteries</b> Presentation (author)	<b>EUROSENSORS XXX</b> , Budapest, 4.–7.9.2016 Lenz, C. et al. Development and characterization of a miniaturized flame ionization detector in ceramic multilayer technology for field applications Presentation (author)	2-D crossed-electrode transducer arrays for ultrasonic particle manipulation Presentation (co-author)	Cikalova, U. et al. <b>New sensor development for Barkhausen noise technique</b> Presentation (author)
Zeh, C. et al. <b>Ceramic phosphors for direct part making and sensor applications</b> Presentation (author)	<b>2016 Asian SOFC Symposium</b> , Tokyo, 4.–7.9.2016 Pfeifer, T. et al. Development of a SOFC/Battery-hybrid system for distributed power generation in India Presentation (author)	Heuer, H. Kombinierte akustische und induktiv elektrische Impedanz-Spektroskopie zur zeitlichen Beobachtung biochemischer Prozesse Presentation (author)	Cikalova, U. et al. <b>Spatially resolved Barkhausen noise measurement of laser cut electrical steels</b> Poster (author)
<b>2016 Joint IEEE International Symposium on the Applications of Ferroelectrics, European Conference on Applications of Polar Dielectrics &amp; Workshop on Piezoresponse Force Microscopy – ISAF/ECAPD/PFM</b> , Darmstadt, 21.–25.8.2016	<b>15th European Inter-Regional Conference on Ceramics</b> , Villeurbanne, 5.–7.9.2016 Johannes, M. et al. Nanostructured zirconia composites with high ageing resistance Poster (author)	<b>18. Heiligenstädter Kolloquium "Technische Systeme für die Lebenswissenschaften"</b> , Heilbad Heiligenstadt, 19.–21.9.2016 Huang, J.; Löffler, M.; Möller, W.; Zschech, E. Ga contamination in silicon by focused ion beam milling: Dynamic model simulation and atom probe tomography experiment Presentation (co-author)	<b>7th Late Summer Workshop "Microplastics in the aquatic environment"</b> , Haltern am See, 25.–28.9.2016 Oelschlägel, K. et al. <b>Characterization of microplastics</b> Poster (author)
Gebhardt, S. et al. <b>Study on electrocaloric multilayer ceramics based on PMN-8PT</b> Presentation (author)	<b>ProcessNet-Jahrestagung</b> , Aachen, 12.–15.9.2016 Koleva, V.; Richter, H. et al. Energieeffiziente Stofftrennung in der chemischen und pharmazeutischen Industrie durch Membranverfahren Presentation (co-author)	<b>27. European Symposium on the Reliability of Electron Devices, Failure Physics and Analysis – ESREF</b> , Halle, 19.–22.9.2016 Herfert, H.; Moritz, T. CerMeTex – Neuartige Metallfaser-Keramik-Verbundwerkstoffe für Bauteileigenschaften auf Basis von Metallfaser- und Metallfilamentstrukturen Presentation (author)	<b>40th International Microelectronics and Packaging IMAPS Poland 2016 Conference</b> , Waldenburg, 25.–28.9.2016 Ziesche, S. et al. <b>Technological combination of multilayer ceramic technology and ceramic injection molding for the manufacturing of 3D functional ceramic components</b> Presentation (author)
<b>67th Annual Meeting of the International Society of Electrochemistry</b> , The Hague, 21.–26.8.2016	<b>6th Electronics System-Integration Technology Conference – ESTC 2016</b> , Grenoble, 13.–16.9.2016 Goldberg, A. et al. Highly efficient and long-term stable fuel cell micro-energy systems based on ceramic multi-layer technology Presentation (author)	<b>55. Chemiefasertagung</b> Dornbirn-MFC, Dornbirn, 20.–22.9.2016 Feng, B. et al. Technological options to tune electrical conductivity of titanium suboxide – An experimental approach Presentation (author)	<b>AM CERAMICS 2016</b> , Nuremberg, 26.–27.9.2016 Scheithauer, U. et al. <b>Additive Fertigung keramischer Bauteile – Neue Designmöglichkeiten und Anwendungsbeispiele</b> Presentation (author)
Heubner, C. et al. <b>Harmonics analysis for investigation of insertion electrodes</b> Poster (author)	<b>2. Wasseranalytisches Seminar – MWAS 2016</b> , Mülheim on the Ruhr, 14.–15.9.2016 Oelschlägel, K. et al. <b>Weathering of microplastics</b> Poster (author)	<b>14th European Conference on Thermoelectrics – ECT 2016</b> , Lisbon, 20.–23.9.2016 Rost, A. et al. <b>Joining of ceramic based TEG-modules</b> Presentation (author)	<b>15th International Conference on Nanoimprint and Nanoprint Technology – NNT 2016</b> , Braga, 26.–28.9.2016 Khan, S. A.; Graczyk, M.; Nilsson, N.; Kvennenfors, A.; Huffmann, M.; Suyatin, D. B.; Sundqvist, J. et al. <b>Atomic layer etching in nanoimprint stamp technology</b> Poster (co-author)
Langlotz, U. et al. <b>Silicon-Nanowire anodes for lithium batteries synthesized from galvanic gold nanoparticles</b> Presentation (author)	<b>30th European Crystallographic Meeting</b> , Basel, 28.8.–1.9.2016 Niese, S. et al. A dedicated illumination for full-field X-ray microscopy with multilayer Laue lenses Presentation (author)	<b>23rd International Congress on X-ray Optics and Microanalysis – ICXOM23</b> , Upton, 14.–18.9.2015 Adler, J. et al. <b>Silicon carbide based filter materials and concept for cost-effective flat membranes</b> Invited presentation (author)	<b>2nd Graz Battery Days</b> , Graz, 27.–28.9.2016 Nikolowski, K. et al. <b>Material and process development for lithium bipolar batteries</b> Poster (author)
Ponnusamy, P.; Feng, B. et al. <b>Effect of TiB<sub>2</sub> in boron rich boron carbide for TE applications</b> Poster (co-author)	<b>16th Nordic Filtration Symposium</b> , Lappeenranta, 24.–26.8.2016 Richter, H. et al. <b>Ceramic nanofiltration membranes</b> Presentation (author)	<b>4th International Symposium on New Frontier of Advanced Si-Based Ceramics and Composites – ISASC 2016</b> , Busan, 25.–28.9.2016 Klemm, H. <b>High-temperature silicon nitride with Sc<sub>2</sub>O<sub>3</sub> as sintering additive</b> Invited presentation (author)	Wolter, M. et al. <b>Application of ceramic technologies in all solid state batteries</b> Invited presentation (author)
<b>Fachtagung "Biogas aus Stroh"</b> , Heiden, 30.8.2016	<b>IEEE International Ultrasonics Symposium – IUS 2016</b> , Tours, 18.–21.9.2016 Gebhardt, S. et al. Towards fabrication of high frequency ultrasonic transducers using soft mold process Presentation (author)	<b>21st International Workshop on Electromagnetic Nondestructive Evaluation – ENDE 2016</b> , Lisbon, 25.–28.9.2016 Wang, H.; Qiu, Y.; Démoré, C.; Gebhardt, S. et al.	<b>Materials Science and Engineering – MSE 2016</b> , Darmstadt, 27.–29.9.2016 Voigt, I. et al. <b>Carbon coatings for membrane application and catalysis</b> Presentation (author)
Schwarz, B. <b>Strohbasierte Biogaspellets als alternatives Inputsubstrat in Biogasanlagen</b> Presentation (author)			<b>Workshop "Keramische Schaltungsträger – Eine innovative Technologie nicht nur für Satel-</b>

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<b>litenkommunikation</b> , Bonn, 29.9.2016	Höhn, M. et al. <b>TiSiCN nanocomposite hard coatings by CVD</b> Presentation (author)	<b>Medizintechnik</b> Presentation (author)	Ommer, M.; Hoffmann, C.; Kolditz, K.; Richter, H. et al. <b>Oberflächenmodifizierung von Zeolithmikropartikeln im Pulsationsreaktor (PR)</b> Poster (co-author)
Capraro, B. <b>Casting und Slot – Die Technologien zur Herstellung keramischer Folien</b> Vortrag (Autor)	Lay, S.; Guyon, A.; Pötschke, J. <b>Grain boundary segregation in sintered materials: Effect on densification and grain growth</b> Poster (co-author)	Lehmann, A. <b>Spin-Off-Vorhaben des Fraunhofer IKTS: Optische Prostatakrebsdiagnose</b> Presentation (author)	Richter, H. et al. <b>Membranen und Formkörper – Mixed-Matrix-Membranen</b> Poster (author)
<b>14th International Baltic Conference on Atomic Layer Deposition – BALD 2016</b> , St. Petersburg, 2.-4.10.2016	Pötschke, J. et al. <b>Manufacturing and properties of polycrystalline WC-Co based cemented carbides</b> Presentation (author)	<b>r4-Innovative Technologie für Ressourceneffizienz – Bereitstellung wirtschaftsstrategischer Rohstoffe</b> , Hanover, 20.-21.10.2016	<b>IVG-Mitgliederversammlung</b> , Herne, 27.10.2016
Puurunen, R. L.; Koshtyal, Y.; Pedersen, H.; van Ommen, J. R.; Yurkevich, O.; Sundqvist, J. <b>On the history of ALD and the VPRA project</b> Presentation (co-author)	Fachtagung <b>KMU-innovativ: IKT</b> , Hanover, 10.-11.10.2016	Wufka, A. <b>Entwicklung von keramischen Membran-Extraktionssystemen und Adaption von elektrochemischen Verfahren zur Gewinnung metallischer Rohstoffe</b> Presentation and poster (author)	Kriegel, R. <b>Sauerstoff für die Nutzung von Schwachgasen</b> Presentation (author)
<b>BMT 2016 "Dreiländertagung"</b> , Basel, 4.-6.10.2016	von Dungern, F.; Tschöke, K. <b>Entwicklung einer integrierten Strukturüberwachung für Faserverbundbauteile im Automobil</b> Poster (author)	<b>IMAPS Herbstkonferenz 2016</b> , Munich, 20.-21.10.2016	<b>GRDC Symposium</b> , Gangnam/Seoul, 31.10.-1.11.2016
Gebhardt, S. et al. <b>Towards fabrication of high frequency ultrasonic transducers using soft mold process</b> Presentation (author)	<b>3rd International Conference on In-Situ and Correlative Electron Microscopy – CISCEM 2016</b> , Saarbrücken, 11.-12.10.2016	Gradmann, R. et al. <b>Entwicklung funktioneller Glaswerkstoffe für den laserbasierten Sinterungsprozess in integrierten Sensorsystemen</b> Presentation (author)	Opitz, J. et al. <b>Material- and process-diagnostic for industrial applications</b> Presentation (author)
<b>3rd Annual InkJet Conference 2016 – TheICJ</b> , Dusseldorf, 4.-6.10.2016	Sempf, K. et al. <b>Quantifying the contrast mechanisms of a scanning electron microscope by an unique in-situ FESEM/AFM hybrid system</b> Presentation (author)	<b>Materials Science &amp; Technology 2016 – MS&amp;T '16</b> , Salt Lake City, 23.-27.10.2016	Weidl, R. <b>Energy storage and power generation technologies at IKTS</b> Presentation (author)
Fritsch, M. <b>Synthesis of particles inks for inkjet printing of microelectronic components</b> Presentation (author)	<b>Workshop "Neue Materialien und Technologien für Smart Textiles"</b> , Weimar, 13.10.2016	Scheithauer, U. et al. <b>Combination of green tape cast and extruded components for new lightweight kiln furniture</b> Presentation (author)	<b>Jahrestagung Forschungsvereinigung Feinmechanik, Optik und Medizintechnik F.O.M. e.V.</b> , Berlin, 2.11.2016
<b>2nd Ceramics Osaka – Highly-functional Ceramics Expo</b> , Osaka, 5.-7.10.2016	Krug, M. <b>Atomlagenabscheidung (ALD) für funktionale Schichten auf textilen Strukturen</b> Presentation (author)	Scheithauer, U. et al. <b>Suspension based additive manufacturing of ceramic and metal-ceramic components</b> Presentation (author)	Reichel, U. et al. <b>Optokeramische Werkstoffe: Innovationspotenzial für vielfältige Anwendungen</b> Poster (author)
Wunderlich, C. <b>Advanced ceramics for high tech innovations: The Fraunhofer approach</b> Invited presentation (author)	<b>Vision 2016: Vehicle and infrastructure safety improvement in adverse conditions and night driving</b> , Paris, 13.-14.10.2016	<b>6. Innovationstage 2016</b> , Bonn, 25.-26.10.2016	<b>Testing, Characterisation and Filter Media 8: Conference and Exhibition</b> , Chester, 2.-3.11.2016
<b>Thermodynamik-Kolloquium 2016</b> , Kaiserslautern, 5.-7.10.2016	Hofmann, U.; von Wantoch, T.; Eberhardt, G.; Kinski, I. et al. <b>Dynamic shaping of the basic intensity profile of an adaptive laser headlights based on resonant MEMS scanning mirrors</b> Presentation (co-author)	Wufka, A. <b>Aufbereitung von Prozesswasser aus der Bioethanolsschlempe als Ersatz von Frischwasser</b> Presentation (author)	Richter, H. et al. <b>Ceramic membranes for large scale filter application</b> Presentation (author)
Kriegel, R. <b>Die selbstverdichtende Verbrennung – Ein Ansatz für eine effizientere Energieproduktion</b> Presentation (author)	<b>Biomaterials for Healthcare – BioMaH</b> , Rome, 17.-20.10.2016	<b>pades – Partikeldesign Thüringen – Symposium 2016</b> , Neudietendorf, 25.-26.10.2016	<b>16th Aachener Membran-Kolloquium</b> , Aachen, 2.-3.11.2016
<b>5th International Conference "Fractography of Advanced Ceramics"</b> , Smolenice, 9.-12.10.2016	Ahlhelm, M. et al. <b>Novel structural ceramic composites for individualized 3D-structures</b> Presentation (author)	Gleichmann, K.; Richter, H. <b>Zeolithpartikeldesign für die Anwendung in der Stofftrennung und Wärmespeicherung</b> Presentation (co-author)	Weyd, M. et al. <b>Zeolite NaA membranes for improved glycol dewatering in natural gas drying</b> Presentation (author)
Herrmann, M. et al. <b>Determination of defects, relevant for strength of ceramics, by non-destructive methods</b> Invited presentation (author)	<b>Bionnection – Partnering Conference for Technology Transfer in Life Sciences</b> , Leipzig, 18.-19.10.2016	Jäger, B. et al. <b>Oberflächenaktive Elektrokatalysatoren zur Wirkungsgrad erhöhung bei der Wasserelektrolyse</b> Presentation (author)	<b>2. BMUB-Fachtagung "Klimaschutz durch Abwärmenutzung"</b> , Berlin, 3.11.2016
<b>World PM2016 Congress &amp; Exhibition</b> , Hamburg, 9.-13.10.2016	Lehmann, A. et al. <b>Das Fraunhofer IKTS als innovativer Partner im Bereich Bio- und</b> Poster (author)	Jäger, B. et al. <b>Synthese und Applikation katalytisch aktiver Mischoxidpartikel</b> Poster (author)	Martin, H.-P. et al. <b>Neue Optionen in der Abwärmenutzung mit keramischen Thermoelektrika</b> Presentation (author)
Günther, A. et al. <b>Combining metal textiles with ceramics by injection molding for novel composites with promising properties</b> Presentation (author)			<b>8th International Symposium on NDT in Aerospace</b> , Bangalore, 3.-5.11.2016
			Heuer, H. <b>NDT investigations on C/SiC samples from different manufactur-</b>

ing steps Presentation (author)	Herrmann, M. <b>Gefügedarstellung und Bewertung</b> Presentation (author)	using wet chemical deposition Presentation (author)	Walther, G.; Kieback, B.; Büttner, T.; Gaitzsch, U.; Kolvenbach, R.; Weißgärtner, T.; Lincke, M. <b>Metal foam for applications in heterogeneous catalysis and biogas desulfurization</b> Presentation (co-author)
<b>1st Workshop on rational design for improved functionalities of porous inorganic materials,</b> Cavaillon, 7.–9.11.2016	<b>ASME's International Mechanical Engineering Congress and Exposition – IMECE 2016,</b> Phoenix, 11.–17.11.2016	<b>Der Geothermiekongress 2016,</b> Essen, 29.11.–1.12.2016	<b>Expertenspanel "Biomaterialien",</b> Mainz, 8.12.2016
Richter, H. et al. <b>Designing of ceramic membranes for separation on molecular level</b> Presentation (author)	Sukharev, V.; Kteyan, A.; Hovsepyan, H.; Choy, J.-H.; Mühlé, U. et al. <b>Chip-package-interaction stress induced carrier mobility shift in advanced Si nodes</b> Presentation (co-author)	Friedrich, H.-J. et al. <b>Elektrochemische Abtrennung scalingrelevanter Schwermetalle und Radionuklide aus geothermalen Tiefenwässern</b> Invited presentation (author)	Johannes, M. et al. <b>Bioinerte Oxidkeramiken für dentale und endoprothetische Anwendungen</b> Presentation (author)
<b>FloEFD Simulation Conference 2016,</b> Frankfurt a. Main, 8.–9.11.2016	<b>12th International Symposium on Electrochemical Machining Technology – INSECT 2016,</b> Brussels, 17.–18.11.2016	<b>5. Deutsch-Polnisches PhD-Seminar "Advanced Materials Science",</b> Schmochitz, 30.11.2016	
Stahn, M. Porous media flow – Use of FloEFD in the design process of ceramic membrane elements for cross-flow filtration Presentation (author)	Schneider, M. et al. <b>ECM of an SiC-based ceramic – Passivation and Dissolution</b> Presentation (author)	Michaelis, A. <b>Advanced ceramics for disruptive innovations</b> Presentation (author)	<b>Teaching activities of IKTS employees</b>
<b>DKG-Fortbildungsseminar "Foliengieß- und Schlitzdüsen-Verfahren",</b> Hermsdorf, 9.–10.11.2016	Schneider, M. et al. <b>The dissolution mechanism of tungsten carbide under ECM conditions</b> Presentation (author)	<b>DKG Herbstsymposium 2016,</b> Erlangen, 30.11.–1.12.2016	<b>Dr. Eberstein, M.</b> Lecture "Dickschichttechnik" TU Bergakademie Freiberg, Institut für Keramik, Glas- und Baustofftechnik (16.6.2016)
Capraro, B. Casting und Slot-Die Technologien zur Herstellung keramischer Folien Presentation (author)	<b>5. Workshop "Lithium-Schwefel-Batterien",</b> Dresden, 21.–22.11.2016	Capraro, B. et al. <b>Überblick über moderne Foliengießverfahren am Fraunhofer IKTS für innovative Anwendungen</b> Invited presentation (author)	<b>Dr. Fries, M.</b> Lecture "Granulationsverfahren und Granulatcharakterisierung in der keramischen Industrie" TU Bergakademie Freiberg (9.6.2016)
Fritsch, M. Formulierung und Aufbereitung von Foliengießschläcker Presentation (author)	Rost, A. et al. <b>Glass-ceramic solid-state electrolytes for the use in Li-S batteries</b> Poster (author)	Eberstein, M. et al. <b>Rheologie als Schlüssel für Druckverhalten und Funktionseigenschaften neuer Dickschichtpasten</b> Presentation (author)	<b>Dr. Fries, M.; Bales, A.;</b> <b>Dr. Eckhard, S.; Lenzner, K.</b> Practical training "Demonstrationspraktikum Pulveraufbereitung: Technologie – Granulatcharakterisierung – Instrumentierte Pressverdichtung" IKTS Dresden (31.5.2016, 28.6.2016)
Härtel, A. et al. Folienvverbunde – Materialpaarungen, Optionen der Herstellung und Einsatzmöglichkeiten Presentation (author)	<b>Symposium Anodisieren – OXidschichten von hart bis smart,</b> Dresden, 24.–25.11.2016	<b>Karlsruher Werkstoff-Kolloquium,</b> Karlsruhe, 6.12.2016	<b>Dr. Härtling, T.</b> Lecture and seminar "Nanotechnologie und Nanoelektronik" TU Dresden, Fakultät Elektrotechnik und Informationstechnik (SS2016)
China Intelligent Manufacturing International Conference – CIMIC 2016, Jinan, 9.–11.11.2016	Lämmel, C. et al. <b>Untersuchung wärmebedingter Beeinträchtigungen der Schicht-eigenschaften beim Hartanodisieren</b> Presentation (author)	<b>5. Stiftungstagung des DEHEMA-Forschungsinstituts,</b> Frankfurt a. Main, 7.12.2016	<b>Jun.-Prof. Heuer, H.</b> Lecture "Systeme für die zerstörungsfreie Prüfung und Strukturüberwachung" TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Aufbau- und Verbindungstechnik der Elektronik IAVT (WS2016/2017)
Schwarz, B. Fraunhofer Gesellschaft – Close connection between research and industry – International co-operation on the way to intelligent manufacturing Presentation (author)	Voigt, K. et al. <b>In-operando Temperaturmessung bei der plasmalektrolytischen Oxidation von Aluminium</b> Presentation (author)	<b>6. Dresdner Werkstoffsymposium,</b> Dresden, 8.–9.12.2016	<b>Jun.-Prof. Heuer, H.</b> Lecture "Textile Werkstoffe und Prüftechnik/ Textile Faserstoffe und Prüftechnik" TU Dresden, Fakultät Maschinenwesen, Institut für Textilmaschinen und Textile Hochleistungswerkstofftechnik (SS2016)
<b>1st International Biomass Professional Forum: "Application and Development of sustainable Biomass Materials and Energy",</b> Jinan, 10.–11.11.2016	<b>16. Sitzung des Arbeitskreises Biokeramik,</b> Hermsdorf, 25.11.2016	Michaelis, A. <b>In operando non-destructive evaluation techniques for additive manufacturing</b> Presentation (author)	<b>Jun.-Prof. Heuer, H.</b> Lecture "Zerstörungsfreie Prüfung elektro-nischer Baugruppen" TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Zentrum
Schwarz, B. Möglichkeiten und Herausforderungen bei der Vergärung von Stroh Presentation (author)	Menzel, M.; Johannes, M. <b>Individualisiertes Dentalimplantat</b> Presentation (co-author)	<b>4th Cellular Materials – CellMAT 2016,</b> Dresden, 7.–9.12.2016	
<b>Advancer-Schulungsprogramm Hochleistungskeramik Teil III: Konstruktion, Prüfung,</b> Freiburg, 10.–11.11.2016	Fritsch, M. et al. <b>Synthesis, formulation and rapid curing of particles based inkjet and aerosol-jet printed films for electronic and sensory devices</b> Poster (author)	Füssel, A. et al. <b>Property adjustment of open-celled ceramic foams for high temperature applications assisted by numerical modelling</b> Presentation (author)	
Herrmann, M. Fehlerquellen bei der Herstellung keramischer Werkstoffe Presentation (author)	Vinnichenko, M. et al. <b>Millisecond laser functionalization of the structures prepared</b>	Haase, D. et al. <b>TiO<sub>2</sub> coatings on ceramic foams for photocatalytic applications</b> Presentation (author)	

## NAMES, DATES, EVENTS

für mikrotechnische Produktion  
(WS2016/2017)

**Dr. Höhn, S.**

Lecture  
"Keramographie", im Rahmen der Lehrveranstaltung "Metallografie"  
TU Dresden, Institut für Werkstoffwissenschaft (1.2.2016)

**Dr. Jahn, M.**

Lecture, tutorial and practical training  
"Brennstoffzellensysteme und Elektrolyse" im Rahmen des Studienganges "Regenerative Energiesysteme"  
TU Dresden, Institut für Werkstoffwissenschaft (WS2016/2017)

**Dr. Jahn, M.**

Lecture  
"Fischer-Tropsch-Synthese – Stand der Technik und aktuelle Entwicklungen zum Einsatz alternativer Rohstoffe" im Rahmen der Lehrveranstaltung "Mehrphasenreaktionstechnik"  
TU Dresden (4.7.2016)

**Dr. Kriegel, R.**

Lecture  
"Grundlagen analytischer Untersuchungsmethoden" im Wissenschaftlichen Kolleg des Studiengangs "Baustoffingenieurwesen"  
Bauhaus-Universität Weimar (WS2016/2017)

**Prof. Meyendorf, N.**

Lecture and practical training  
"Mikro- und Nano-NDE"  
TU Dresden, Institut für Aufbau- und Verbindungstechnik der Elektronik IAVT (WS2016/2017)

**Prof. Meyendorf, N.**

Lecture  
"NDE and SHM"  
University of Dayton, UD-Fraunhofer Project Center (SS2016)

**Prof. Meyendorf, N.**

Lecture  
"Nano characterization"  
University of Dayton, UD-Fraunhofer Project Center (SS2016)

**Prof. Meyendorf, N.**

Complex lecture  
"NDE and SHM"  
University of Dayton, General Electronics Aerospace, Cincinnati (2016)

**Prof. Michaelis, A.;**

**Dr. Kusnezoff, M.;**

**Dr. Neumeister, P.;**

**Dr. Rebenkau, L.**

Lecture

"Keramische Funktionswerkstoffe"  
TU Dresden, Institut für Werkstoffwissenschaft (SS2016)

**Prof. Michaelis, A.**

Lecture and practical training  
"Keramische Werkstoffe"  
TU Dresden, Institut für Werkstoffwissenschaft (SS2016)

**Prof. Michaelis, A.; Dr. Kinski, I.;**  
**Dr. Herrmann, M.; Dr. Klemm, H.;**  
**Dr. Moritz, T.; Dr. Potthoff, A.;**

**Dr. Gestrich, T.; Dr. Kusnezoff, M.;**  
**Dr. Neumeister, P.; Dr. Partsch, U.;**  
**Dr. Langklotz, U.**

Lecture

"Prozesse – Gefüge – Eigenschaften keramischer Werkstoffe"  
TU Dresden, Institut für Werkstoffwissenschaft (WS2016/2017)

**Dr. Moritz, T.**

Lecture

"Keramikspritzgießen"  
TU Bergakademie Freiberg (30.6.2016)

**Dr. Moritz, T.**

Lecture series

"Grundlagen der Technischen Keramik"  
Kunsthochschule Halle, Burg Giebichenstein (SS2016)

**Dr. Mühlé, U.**

Lecture

"Industrielle Halbleiterfertigung"  
TU Bergakademie Freiberg, Fakultät Werkstoffwissenschaft und Werkstofftechnologie (WS2016/2017)

**Dr. Mühlé, U.**

Lecture

"Spezielle Methoden der Mikrostrukturanalytik"  
TU Bergakademie Freiberg, Fakultät Werkstoffwissenschaft und Werkstofftechnologie (SS2016)

**Dr. Opitz, J.**

Lecture

"Biomolekulare Nanotechnologie"  
"Introduction to Nanotechnology"  
TU Dresden, Max-Bergmann-Zentrum, Institut für Werkstoffwissenschaft TU Dresden, BIOTEC (WS2016/2017)

**Dipl.-Ing. Metasch, R.**

Practical training in the course of the lecture  
"Micro-/nanomaterials and reliability aspects"

TU Dresden, Fakultät Elektrotechnik, Institut für Aufbau- und Verbindungstechnik (WS2016/2017)

**Dr. Schneider, M.**

Lecture

"Rastersondenmikroskopie/AFM" im Rahmen der Lehrveranstaltung Materialdiagnostik  
TU Dresden, Institut für Werkstoffwissenschaft (6.7.2016)

**Prof. Stelter, M.**

Lecture

"Technische Chemie I / II"  
Friedrich-Schiller-Universität Jena (SS2016; WS2016/2017)

**Prof. Stelter, M.**

Lecture

"Technische Umweltchemie"  
Friedrich-Schiller-Universität Jena (SS2016; WS2016/2017)

**Prof. Stelter, M.**

Lecture

"Energiesysteme – Materialien und Design"

Friedrich-Schiller-Universität Jena (WS2016/2017)

**Dr. Voigt, I.**

Lecture and practical training

"Keramische Verfahrenstechnik"  
Ernst-Abbe-Hochschule Jena, MA-Studiengang Werkstofftechnik (WS 2016/2017)

**Dr. Voigt, I.**

Lecture and practical training

"Membranen und Membranverfahrenstechnik"  
Friedrich-Schiller-Universität Jena, MA-Studiengang Chemie-Energie-Umwelt (WS 2016/2017)

**Dr. Weyd, M., Pfleiger, C.**

Lecture

"Filtration with ceramic membranes"  
University of Connecticut, Storrs, USA, Seminar (3.2.2016)

**Dr. Zins, M.**

Lecture

"Metalle, Kunststoffe, Keramiken – Technische Keramik als Leichtbaustoff"  
TU Dresden, Institut für Werkstoffwissenschaft (WS2016/2017)

**Prof. Zschech, E.; Prof. Stamm, M.;**

**Dr. Mühlé, U.; Dr. Rosenkranz, R.;**

**Dr. Kopycinska-Müller, M.**

Lecture and practical training  
"Physical Characterization of Organic and Organic-Inorganic Thin Films"  
TU Dresden, Institut für Angewandte Photophysik (WS2016/2017)

**Prof. Zschech, E.;**

**Dr. Kopycinska-Müller, M.**

Lecture

"Microscopy for Nondestructive methods classes"  
Master course in English Non-Destructive Testing M. Sc. (NDT)  
DIU Dresden International University (2016)

**Prof. Zschech, E.; Dr. Gall, M.;**

**Dr. Aubel, O.**

Lecture

Master's Program Nanoelectronic Systems  
Module "Semiconductor Industry Challenges: Market Dynamics – Technology Innovations – Yield and Reliability Engineering"  
Lecture: "Reliability Engineering and Kinetics of Degradation Processes in Advanced Electronics"

TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Halbleiter- und Mikrosystemtechnik (WS2016/2017)

## Participation in bodies and technical committees

### Bodies

**Dr. Berger, L.-M.**

- Editorial Board of the Journal "Surface Engineering", Hanser Verlag

### Publishing

- Editorial Board of the Journal "Materials Performance & Characterization", ASTM International

### Dr. Gall, M.

- IEEE Transactions on Device and Materials Reliability – TDMR, Editor
- IEEE International Interconnect Technology Conference – IITC, Technical Committee
- IEEE International Reliability Physics Symposium – IRPS, Technical Committee
- International Conference on Reliability and Stress-Related Phenomena – IRSP, Technical Committee
- Fraunhofer Nanotechnology Alliance
- European Society of Thin Films (EFDS)

### Dr. Härtling, T.

- AMA Association for Sensors and Measurement, Representative

### Dr. Kinski, I.

- American Ceramic Society – ACerS
- Deutsche Gesellschaft für Kristallographie – DGK
- Materials Research Society – MRS

### Dr. Köhler, B.

- Editor-in-Chief of the Journal "Case Studies in Nondestructive Testing and Evaluation", Elsevier Verlag

### Dr. Kusnezoff, M.

- Fraunhofer Energy Alliance, Representative
- SOFC Symposium of ICACC Conference Series organized by American Ceramic Society in Daytona Beach, Organizer
- VDMA Working Group High Temperature Fuel Cells, Coordinator
- European Fuel Cell Forum EFCF, Scientific Advisory Committee

### Dr. Martin, H.-P.

- KMM-VIN, European Virtual Institute on Knowledge-based Multifunctional Materials

### Prof. Meyendorf, N.

- Editor-in-Chief of the "Journal of Nondestructive Evaluation", Springer Verlag
- Publication series "Dresdner Beiträge zur zerstörungsfreien Prüftechnik", Wolter, K.-J. (Hrsg.); Meyendorf, N. (Hrsg.); Heuer, H. (Hrsg.), Dresden: TUDpress, Start 2010
- DGZfP – German Society for Non-Destructive Testing
- ASNT – The American Society for Nondestructive Testing
- SPIE – the international society for optics and photonics
- Joint Lab Berlin, Technical Safety
- UD-Fraunhofer Joint Research Center, Co-Director

### Prof. Michaelis, A.

- Editorial Board of the "International Journal of Materials Research", Hanser Verlag

- Editorial Board of the "Journal of Ceramic Science and Technology", Göller Verlag
  - Publication Series "Competencies in Ceramics", Michaelis, A. (Hrsg.), Stuttgart: Fraunhofer Verlag, Start 2006
  - Publication Series "Kompetenzen in Keramik und Umweltverfahrenstechnik", Michaelis, A. (Hrsg.), Stuttgart: Fraunhofer Verlag, Start 2008
  - Publication Series "Applied Electrochemistry in Material Science", Michaelis, A. (Hrsg.); Schneider, M. (Hrsg.), Stuttgart: Fraunhofer Verlag, Start 2009
  - AGEF e. V. Institute at Heinrich-Heine-Universität, Arbeitsgemeinschaft Elektrochemischer Forschungsinstitutionen e. V.
  - American Ceramic Society – ACerS
  - Ceramic and Glass Industry Foundation (CGIF), Member Board of Trustees CGIF
  - DECHEMA Society for Chemical Engineering and Biotechnology
  - DECHEMA working group "Angewandte Anorganische Chemie"
  - Deutscher Hochschul-Verband
  - DGM German Society for Materials Research
  - DKG Deutsche Keramische Gesellschaft / German Ceramic Society, Member of executive board, Chairman of the research advisory board, Director of the scientific works
  - DPG Deutsche Physikalische Gesellschaft
  - DRESDEN-concept e. V.
  - Dresdner Gesprächskreis der Wirtschaft und der Wissenschaft e. V.
  - Energy advisory council of the Wirtschaftsministeriums Sachsen
  - EPMA European Powder Metallurgy Association
  - Fraunhofer AdvanCer Alliance, Spokesperson
  - Evaluation team "Interne Programme" of the Fraunhofer-Gesellschaft, Chairman
  - GreenTec Awards, Member of the jury
  - Helmholtz-Zentrum Dresden-Rossendorf
  - IFW Dresden e. V.
  - Materials Research Network Dresden MFD, Executive board
  - Meyer Burger (Germany) AG, Supervisory board
  - NOW GmbH, Beirat
  - Silicon Saxony e. V.
  - Solarvalley Mitteldeutschland e. V.
  - "World Academy of Ceramics" WAC
- Dr. Röllig, M.**
- ZIM-Netzwerk "Zuverlässige Leistungselektronik", Berlin, technical council of the network management
- Dr. Schneider, M.**
- Publication Series "Applied Electrochemistry in Material Science", Michaelis, A. (Hrsg.); Schneider, M. (Hrsg.), Stuttgart: Fraunhofer Verlag, Start 2009
  - DGO-Bezirksgruppe Sachsen der Deutschen Gesellschaft für Galvano- und Oberflächentechnik, Chairman
  - GfKORR technical advisory board of the Society for Corrosion Protection, Working group "Korrasion keramischer Werkstoffe", Chairman
- Dr.-Ing. Schubert, L.**
- Guideline committee VDI-GPP FA628 "Strukturüberwachung und Beurteilung von Windenergianlagen und Plattformen"
- Prof. Stelter, M.**
- Center for Energy and Environmental Chemistry CEEC, Jena, Member of directorate
  - MNT Mikro-Nano-Technologie Thüringen e. V., Executive board Clusterboard, Free State of Thuringia
  - RIS3 working group "Nachhaltige Energie und Ressourcenverwendung", Free State of Thuringia
  - VDMA, Working group Research and innovation in medical technology
- Dr. Jonas Sundqvist**
- Cool Silicon e. V., Dresden, Division "ALD Lab Saxony", Division manager
  - Critical Materials Council – CMC Fabs, USA, Sr. Technology Analyst CVD & ALD Materials & Conference, Co-chair
  - HERALD EU Cost Action "Hooking together European research in Atomic Layer Deposition", Social media & news coordinator
- Dr. Voigt, I.**
- BVMW German Association for Small and Medium-sized Businesses
  - DECHEMA Society for Chemical Engineering and Biotechnology
  - DKG Deutsche Keramische Gesellschaft / German Ceramic Society, Member of executive board
  - American Ceramic Society – ACerS
  - DGM German Society for Materials Research
  - University council of Ernst-Abbe-Hochschule Jena
- Dr. Wunderlich, C.**
- Fuel Cell Energy Solutions GmbH, Member of advisory board
  - Energy Saxony e. V., Deputy chairman
  - European Fuel Cell Forum,
- International board of advisors
- American Ceramic Society – ACerS
- Prof. Zschech, E.**
- Federation of the European Materials Societies – FEMS, Brussels, Member of executive board
  - European Alliance for Materials – A4M, Brussels, Member of executive board
  - The European Platform on Advanced Materials and Technologies – EUMAT, Brussels, Member of the steering board
  - European Materials Characterization Council, Brussels, Member of advisory board
  - CENIMAT/I3N Lisbon, Member of advisory board
  - Institute of Lightweight Construction and Hybrid Systems at University Paderborn, Member of scientific advisory board
  - DRESDEN-concept e. V., "Information technologies and microelectronics", Scientific committee
  - Cool Silicon e. V., Dresden, Member of executive board
- Dr. Zins, M.**
- Fraunhofer-Allianz AdvanCer, Sprecher
  - Editorial Board of the Journal "Ceramic Applications", Göller Verlag, Chairman
  - American Ceramic Society – ACerS
- Technical committees**
- Dipl.-Krist. Adler, J.**
- DGM technical committee "Zellulare Werkstoffe"
  - FAD Research Association for Diesel Emission Control Technologies
- Dr. Berger, L.-M.**
- DVS technical committee 2 "Thermisches Spritzen und Autogen-technik"
  - DIN/DVS joint committee NA 092-00-14 AA "Thermisches Spritzen und thermisch gespritzte Schichten"
- Dr. Böer, J.**
- DKG technical committee TFA 6-1 "Charakterisierung Poröse Keramiken"
- Dipl.-Math. Brand, M.**
- DGZfP technical committee "Schallemissionsprüfung (SEP)"
- Dr. Eberstein, M.**
- DGG technical committee 1 "Physik und Chemie des Glases"
  - DKG/DGG working group "Glasig-kristalline Multifunktionswerk-stoffe"
- Dr. Faßauer, B.**
- Fraunhofer Water Systems Alliance (SysWasser)
  - Wasserwirtschaftliches Energiezentrum Dresden – equa impuls e. V.
  - Professional association "Biogas"
  - agra – Zentrum für Innovation, Member of innovation advisory board
- Freund, S.**
- Fraunhofer AdvanCer Alliance, Central office
- Dr. Fries, M.**
- DKG joint committee "Hochleistungskeramik", working group "Verarbeitungseigenschaften synthetischer keramischer Rohstoffe", Group manager
  - DKG technical committee FA 3 "Verfahrenstechnik"
  - ProcessNet technical group "Agglomerations- und Schüttguttechnik", Member of advisory board
  - ProcessNet technical group "Trocknungstechnik", Member of advisory board
- Dr. Gestrich, T.**
- Joint committee "Pulvermetallurgie", expert group "Sintern"
  - GEFTA working group "Thermo-physik"
- Dipl.-Ing. Gronde, B.**
- Community "Thermisches Spritzen e. V."
- Dr. Hentschel, D.**
- DGZfP technical committee "Zfp in der Luftfahrt", Deputy manager
- Dr. Herrmann, M.**
- DGM technical committee "Field Assisted Sintering Technique / Spark Plasma Sintering"
  - GfKORR working group "Korrasion keramischer Werkstoffe"
  - DKG technical committee 6 "Material- und Prozessdiagnostik"
- Dr. Kaiser, A.**
- GEFTA working group "Thermo-physik"
  - DGM technical committee "Thermodynamik, Kinetik und Konstitution der Werkstoffe"
- Dr. Kinski, I.**
- DGK working group 12 "Spektroskopie"
  - DGK working group "AK13 Pulverdiffraktometrie"
- Dr. Klemm, H.**
- DKG joint committee "Hochleistungskeramik", working group "Verstärkung keramischer Stoffe"
  - DIN committee for standardization "Materialprüfung NMP 291"
  - DIN committee for standardization "Materialprüfung NMP 294"
  - Carbon Composites e. V., working group "Ceramic Composites"
- Kunath, R.**
- Working group "Spezialbiblio-theken"
- Dr. Kusnezoff, M.**
- DIN/VDE, Department K 141, DKE German Commission, "Elektrotechnik Elektronik Informationstechnik"
  - DIN/VDE, Department K 384, DKE German Commission, "Brennstoffzellen"
  - DGM working group "Aufbau-

## NAMES, DATES, EVENTS

- und Verbindungstechnik für Hochtemperatursensoren", AVT working group manager
- Dr. Lausch, H.**
- VDE/VDI Society of Microelectronics, Microsystems and Precision Engineering, GMM technical committee 4.7 "Mikro-Nano-Integration"
  - VDE/DGMT/BMBF accompanying research "Intelligente Implantate", External member
  - biosaxony – Verein für Biotechnologie & Life Sciences e. V.
  - InfectoGnostics research campus Jena/Funding initiative "Forschungscampus – öffentlich-private Partnerschaft für Innovationen" of the BMBF
  - German platform NanoBioMedizin
  - BIO CITY LEIPZIG, BIO-NET LEIPZIG Technologietransfergesellschaft
- Dipl.-Ing. Ludwig, H.**
- DGM technical committee "Biomaterialien"
- Dr. Martin, H.-P.**
- DTG German Thermoelectric Society
  - DVS committee for technology, working group W3 "Fügen von Metall, Keramik und Glas"
- Dipl.-Ing. Metasch, R.**
- ZVEI working group "Hochtemperaturelektronik"
- Prof. Meyendorf, N.**
- DGZfP technical committee "Materialcharakterisierung"
  - DGZfP technical committee "Zustandsüberwachung"
  - DGZfP technical committee "Zfp in der Luftfahrt"
  - DGZfP technical committee "Hochschullehrer Zfp"
  - VDI-GME division 1 "Werkstofftechnik" FA101 "Anwendungsnaher zerstörungsfreie Werkstoff- und Bauteilprüfung"
  - DGZfP working group Berlin
  - ASNT Miami Valley Section
- Dr. Moritz, T.**
- DECEMHA technical committee "Nanotechnologie"
  - DKG expert group "Keramik-spritzguss" CIM, Chairman of the executive board
  - DKG technical committee III "Verfahrenstechnik"
  - DKG "Szene Additiv"
  - EPMA-Additive Manufacturing Group
  - Editorial board of the cfi/Ber.DKG, Chairman
  - Management Committee of COST action MP1105 "Flame-retardant Materials"
- Dipl.-Phys. Mürbe, J.**
- VDI regional association Dresden, working group "Granulometrie"
- Dr. Petasch, U.**
- FAD Research Association for Diesel Emission Control Technologies
- Dr. Potthoff, A.**
- DGM/DKG working group "Prozessbegleitende Prüfverfahren"
  - DECEMHA/VCI working group "Responsible Production and Use of Nanomaterials"
  - DIN committee for standardization NMP NA 062-08-16 AA "Chemische Oberflächenanalyse und Rastersondenmikroskopie"
  - DIN committee for standardization NMP NA 062-08-17-03 UA "Gesundheits- und Umweltaspekte"
  - Fraunhofer Nanotechnology Alliance
  - VDI regional association Dresden, working group "Granulometrie"
- Dr. Pötschke, J.**
- VDI technical committee "Schneidstoffanwendung"
  - EPMA working group "European Hard Materials Group"
  - DGM/DKG joint committee "Pulvermetallurgie"
- Dipl.-Ing. Räthel, J.**
- DGM technical committee "Field Assisted Sintering Technique / Spark Plasma Sintering (FAST/SPS)"
- Dr. Rebeklau, L.**
- VDE/VDI Society of Microelectronics, Microsystems and Precision Engineering, GMM Technical committee 5.5 "Aufbau- und Verbindungstechnik"
  - Working group "Aufbau- und Verbindungstechnik für Hochtemperatursensoren"
  - DVS working group A 2.4 "Bonden im DVS"
- Dr. Reichel, U.**
- DGM technical committee "Field Assisted Sintering Technique / Spark Plasma Sintering (FAST/SPS)"
- Dr. Richter, H.-J.**
- DGM/DKG expert group "Additive Manufacturing" in the joint committee "Pulvermetallurgie"
  - DGM technical committee "Additive Fertigung"
  - Fraunhofer Additive Manufacturing Alliance
- Dr. Rost, A.**
- DKG/DGG working group "Glasig-kristalline Multifunktionswerkstoffe"
  - DVS committee for technology, working group W3 "Fügen von Metall, Keramik und Glas"
- Dr. Sauchuk, V.**
- DGM technical committee "Werkstoffe der Energietechnik"
- Dr. Schilm, J.**
- DGG technical committee 1 "Physik und Chemie des Glases"
  - DKG/DGG working group "Glasig-kristalline Multifunktionswerkstoffe"
  - DVS committee for technology, working group W3 "Fügen von Metall, Keramik und Glas"
- Dr. Schneider, M.**
- GfKORR working group "Korrosion keramischer Werkstoffe", Chairman
- Dr. Schubert, F.**
- DGZfP technical committee "Ultraschall", subcommittee "Modellierung und Bildgebung"
  - DGZfP technical committee "Ultraschall", subcommittee "Phased Array", Deputy manager
  - DGZfP working group Dresden, Group manager
- Dr.-Ing. Schubert, L.**
- DGZfP technical committee "Zustandsüberwachung", Manager
  - Technical committee "Berufs- und Ausbildungsfragen, Unterausschuss Ausbildung BC"
- Dipl.-Chem. Schubert, R.**
- DKG expert group "Keramik-spritzguss" CIM
- Dipl.-Ing. Stahn, M.**
- VDI working group "Entwicklung, Konstruktion, Vertrieb"
- Standke, G.**
- DGM technical committee "Zelluläre Werkstoffe"
- Prof. Stelter, M.**
- DGM technical committee "Werkstoffe der Energietechnik"
  - medways e. V. (The industry association for Medical Technology and Biotechnology)
  - OptoNet e. V., (Photonics network Thuringia)
- Dipl.-Min. Thiele, S.**
- GTS community "Thermisches Spritzen e. V."
- Dr. Voigt, I.**
- DECEMHA/VDI-GVC ProcessNet technical group "Produktionsintegrierte Wasser- und Abwasser-technik"
  - DECEMHA/VDI-GVC ProcessNet technical group "Membrantechnik"
  - DKG/DGM joint committee "Hochleistungskeramik", Chairman
  - DKG/DGM joint committee "Hochleistungskeramik", working group "Keramische Membranen", Chairman
- Dr. Weidl, R.**
- European Society of Thin Films (EFD)
  - BVES German Energy Storage Association, working group 2 "Roadmap der Energiewende und Rolle der Energiespeicher"
  - CEEC – Center for Energy and Environmental Chemistry
- Dr. Weyd, M.**
- DGMT German Society for Membrane Technology
- Dr. Wunderlich, C.**
- VDI-GEU VDI Society Energy and Environment, VDI/VDE technical committee "Brennstoffzellen"
- Prof. Zschech, E.**
- Cool Silicon technical committee "Materialintegration und Zuverlässigkeit", Manager
  - DGM working group "Röntgentomographie", Group manager
- Dr. Zins, M.**
- DKG coordination group "Strukturwerkstoffe Fachausschüsse"
  - DKG division 1 "Chemie-/Maschinen-/Anlagenbau", Chairman
  - DKG joint committee "Pulvermetallurgie"
  - Deutsche Messe AG, Advisory board "Industrial Supply"
  - Messe München, Advisory board "Ceramitec"
  - Institut für Prozess- und Anwendungstechnik Keramik, RWTH Aachen, Member of executive board

## Committees for symposia

- Dipl.-Krist. Adler, J.**
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Symposium "Cellular and porous ceramics", Dresden (21.–25.8.2016), Symposium organizer
  - 4th International Symposium on New Frontier of Advanced Si-based Ceramics and Composites – ISASC 2016, Busan, Korea (25.–28.9.2016), International advisory committee
  - 4th Cellular Materials – CellMat 2016, Dresden (7.–9.12.2016), Program committee
- Capraro, B.**
- DKG seminar "Foliengieß- und Schlitzdüsen-Verfahren sowie Aspekte der Folienweiterverarbeitung" at Fraunhofer IKTS, Hermsdorf (9.–10.11.2016), Organization
- Dr. Eberstein, M.**
- IMAPS/ACerS/DKG 12th International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies – CICMT 2016, Denver (19.–21.4.2016), Local organizing committee
- Freund, S.**
- AdvanCer-Schulungsprogramm "Einführung in die Hochleistungskeramik Teil I: Werkstoffe, Verfahren, Anwendungen", Dresden (16.–17.6.2016), Organization and moderation
- Dr. Gall, M.**
- IEEE International Reliability Physics Symposium – IRPS 2016, Pasadena, CA, USA, (17.–21.4.2016), Technical committee
  - IEEE International Interconnect Technology Conference / Advanced Metallization Conference – IITC/AMC San Jose, CA, USA

- (23.–26.5.2016), Technical committee
- 14th International Conference on Reliability and Stress-Related Phenomena in Nanoelectronics, Experiment and Simulation – IRSP, Bad Schandau, Germany (31.5.–2.6.2016), Technical committee

#### **Dr. Gestrich, T.**

- 35. Hagener Symposium Pulvermetallurgie "Zerspanung von und mit pulvermetallurgischen Werkstoffen", Hagen (24.–25.11.2016)

#### **Dr. Herrmann, M.**

- 15th Conference & Exhibition of the European Ceramic Society – ECERS2017, Budapest, Hungary (9.–13.7.2017), Organizing committee
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer

#### **Dr. Jahn, M.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizing committee

#### **Dr. Kinski, I.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer

#### **Dr. Klemm, H.**

- 9th International Conference on High Temperature Ceramic Matrix Composites – HTCMC 9, Symposium "Advanced thermal and environmental barrier coatings: processing, properties and applications", Toronto, Canada (26.–30.6.2016), Symposium organizer
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Conference committee, International advisory board and Symposium organizer

#### **Dr. Köhler, B.**

- 19th World Conference on Non-destructive Testing – WCNDT 2016, Munich (13.–17.6.2016), Scientific program committee "Nano-Technologies and High-Resolution NDT"

#### **Dr. Kusnezoff, M.**

- 40th International Conference and Exhibition on Advanced Ceramics and Composites – ICACC 2016, Daytona Beach (24.–29.1.2016), Session chair
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer

#### **Dr. Martin, H.-P.**

- Industrietag "Charakterisierung mechanischer Eigenschaften bei hohen Temperaturen", Dresden

- (1.–2.6.2016), Organizer
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizing committee

#### **Prof. Meyendorf, N.**

- SPIE Conference "Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems", Las Vegas, Nevada (21.–24.3.2016), Chair

#### **Prof. Michaelis, A.**

- 40th International Conference and Exhibition on Advanced Ceramics and Composites – ICACC 2016, Daytona Beach (24.–29.1.2016), 40th Jubilee Symposium: Engineered Ceramics – Current Status and Future Prospects
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Conference committee, Chair
- Symposium Ceramics Vision 2017, IKTS Hermsdorf (17.–18.1.2017)

#### **Dr. Moritz, T.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Conference committee, Session organizer

#### **Dr. Neubert, H.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizing committee

#### **Dr. Opitz, J.**

- GRL-FYK Opening Ceremony & Workshop, Session II, Seoul (26.4.2016), Session Chair
- 19th World Conference on Non-Destructive Testing – WCNDT, Munich (13.–17.6.2016), Scientific program committee
- 6th International Congress on Ceramics – ICC6, Session "Materials and process diagnosis for quality assessment/non-destructive testing", Dresden (21.–25.8.2016), Session organizer, Session chair

#### **Dr. Partsch, U.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer

#### **Dr. Röllig, M.**

- 18th International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems – EuroSimE, Dresden (2.–5.4.2017), IEEE, Chair
- 17th International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems – EuroSimE, Montpellier (17.–20.4.2016), IEEE, Technical program committee

#### **Dr. Schneider, M.**

- 9th International Workshop on Impedance Spectroscopy – IWIS 2016, Chemnitz (26.–28.9.2016), Program committee
- 12th International Symposium on Electrochemical Machining Technology – INSECT 2016, Mechelen (17.–18.11.2016), Advisory board
- Symposium "Anodisieren – Oxidschichten von hart bis smart", Dresden (24.–25.11.2016), Organization committee

#### **Dr. Schubert, F.**

- 19th World Conference on Non-Destructive Testing – WCNDT 2016, Munich (13.–17.6.2016), Scientific program committee "Structural Health Monitoring"

#### **Dr.-Ing. Schubert, L.**

- 2nd user seminar of the DGZfP technical committee "Zustandsüberwachung", expert panel "Geführte Ultraschallwellen", Petershagen/Eggersdorf (26.–27.10.2016)

#### **Dr. Sundqvist, Jonas**

- Critical Materials Council Conference – CMC 2016, Hillsboro (5.–6.5.2016), Co-chair
- 16th International Conference on Atomic Layer Deposition – ALD 2016, Dublin (24.–27.7.2016) Co-chair
- 3rd International Workshop on Atomic Layer Etching – ALE 2016, Dublin (24.–27.7.2016), Scientific committee

- ALD Symposium SEMICON Europa, Grenoble (25.–27.10.2016), Co-chair
- ALD For Industry, EFDS Workshop, Dresden (17.–18.1.2017), Co-chair
- CMC Conference 2017 – Critical Materials for Semiconductor Device Manufacturing, Dallas (11.–12.5.2017), Co-chair
- EuroCVD21 / Baltic ALD15 2017, Linköping (11.–14.6.2017), Organization committee
- 17th International Conference on Atomic Layer Deposition – ALD 2017, Denver (15.–18.7.2017), Scientific committee

#### **Dr. Voigt, I.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer

#### **Dr. Weidl, R.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer

#### **Dr. Wolter, M.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Conference committee, International advisory board

#### **Dr. Wunderlich, C.**

- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Conference committee, International advisory board

#### **Dr. Zins, M.**

- 91th DKG Annual Conference & Symposium on High-Performance Ceramics 2016, Freiberg (7.–9.3.2016), Program committee
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizer
- Ceramitec 2016, Tag der Technischen Keramik, Munich (22.10.2016), Host

#### **Prof. Zschech, E.**

- 14th International Conference on Reliability and Stress-Related Phenomena in Nanoelectronics, Dresden (30.5.–1.6.2016), Chair
- 4th Dresden Nanoanalysis Symposium, Dresden (15.6.2016), Chair
- 6th International Congress on Ceramics – From Lab to Fab – ICC6, Dresden (21.–25.8.2016), Symposium organizing committee
- 27th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis – ESREF 2016, Halle, Saale (19.–22.9.2016), Scientific committee
- 62nd IEEE International Electron Devices Meeting IEDM 2016, San Francisco, CA (3.–7.12.2016), Scientific committee

#### **Dissertations 2016**

##### **Conze, Susan**

Precursor-basierte Darstellung von Magnéli-Phasen  $Ti_nO_{2n-1}$  für die Anwendung als Thermoelektrum Dissertation 2016  
Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft

##### **Feng, Bing**

Herstellung, Modifizierung und Charakterisierung von borcarbid-basierten Keramiken als Thermoelektrum Dissertation 2016  
Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen

##### **Gommlich, Andreas**

Entwicklung einer neuen Methode zur Ansteuerung von Ultraschall-Phased Arrays Dissertation 2016  
Fraunhofer IKTS – TU Dresden, Fakultät Elektrotechnik und Informationstechnik

##### **Heubner, Christian**

Thermisch-elektrochemische in-operando Untersuchungen zur lokalen Wärmeentwicklung in Lithiumionenbatteriezellen

## NAMES, DATES, EVENTS

Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Theses 2016</b>	Anregung Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Elektrotechnik und Infor- mationstechnik, Institut für Fein- werktechnik und Elektronik-Design	Iagentechnologie Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät für Elektrotechnik und In- formationstechnik, Institut für Auf- bau- und Verbindungstechnik der Elektronik
<b>Hohlfeld, Kai</b> Herstellung und Charakterisierung piezokeramischer Komponenten und daraus abgeleiteter Piezokomposite Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Bachmann, Sebastian</b> Herstellung und Entwicklung von porös-geträgerten Na- $\beta$ -Al <sub>2</sub> O <sub>3</sub> Fest- Körperelektrolytschichten Master's thesis 2016 Fraunhofer IKTS – Ernst-Abbe- Hochschule Jena, Fachbereich SciTec	<b>Hönig, Ulrike</b> Erstellung eines Anforderungspro- fils an Referenzversuche zur Ermitt- lung und Bewertung von unter- schiedlichen Schadensmechanismen in Faserverbunden mittels Schall- emissionsanalyse Diploma thesis 2016 Fraunhofer IKTS – TU Bergakademie Freiberg, Fakultät Maschinenbau, Verfahrens- und Energietechnik	<b>Merkel, Susann</b> Untersuchungen zur Temperatur- entwicklung an technisch reinem Cobalt bei anodischen Reaktionen mit hohen Stromdichten Bachelor's thesis 2016 Fraunhofer IKTS – HTW Dresden, Fakultät Landbau/Umwelt/Chemie, Bereich Chemieingenieurwesen
<b>Kunze, Steffen</b> Entwicklung von SiSiC-Strukturke- ramiken aus Reaktionsharzbeton Dissertation 2016 Fraunhofer IKTS – TU Dresden, Institut für Leichtbau und Kun- ststofftechnik	<b>Becher, Martin</b> Entwicklung eines automatischen Gaspermeationsmessplatzes zur Charakterisierung keramischer Membranen Master's thesis 2016 Fraunhofer IKTS – Ernst-Abbe- Hochschule Jena, Fachbereich Maschinenbau	<b>Hoppe, Domenic</b> Schwachstellenanalyse von Elektron- nikkomponenten bei der Struktur- integration in GFK-Bauteile Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Leichtbau und Kunststofftechnik	<b>Nickol, Alexander</b> Korrosionsverhalten von Siliciumnit- ridwerkstoffen in wässrigen Medien Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Verfahrenstechnik und Umwelt- verfahrenstechnik
<b>Majumder, Anindya</b> Functionalization and large scale assembly of carbon nanotubes Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Blechschmidt, Paul</b> Automatisierte Datenerfassung und Protokollerstellung für die Charak- terisierung von Ultraschallprüfköpfen Diploma thesis 2016 Fraunhofer IKTS – HTW Dresden, Fakultät Elektrotechnik	<b>Ji, Hyunjoon</b> Investigation of the influence of process parameters on the electro- lyte penetration process in lithium- ion battery production Master's thesis 2016 Fraunhofer IKTS – Hochschule Offenburg, Fakultät Maschinenbau und Verfahrenstechnik (M+V)	<b>Parulewski, Franz</b> Methodenentwicklung zur Bestim- mung der Langzeitstabilität von Re- formierungskatalysatoren zum Ein- satz in SOFC-Systemen Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Verfahrenstechnik und Umwelt- verfahrenstechnik
<b>Oberländer, Andreas</b> Synthese und Charakterisierung von Galliumoxidnitriden Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Beyer, Michael</b> Entwicklung und Herstellung breit- bandiger Ultraschallprüfköpfe Diploma thesis 2016 Fraunhofer IKTS – HTW Dresden, Fakultät Elektrotechnik	<b>Johne-Michaelis, Robert</b> Entwicklung thermoplastischer Massen für den Thermoplastischen 3D-Druck (T3DP) Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Rimbach, Isabel</b> Untersuchungen zur Präparation defektarmer BAM-Leuchtstoffpulver mit Partikelgrößen im sub- $\mu$ m Be- reich Master's thesis 2016 Fraunhofer IKTS – Ernst-Abbe- Hochschule Jena, Fachbereich SciTec, Studiengang Werkstofftechnik
<b>Pötschke, Johannes</b> Gefügeausbildung und Eigenschaf- ten von nanoskaligen binderfreien Hartmetallen Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Eiselt, Matthias</b> FPGA Implementierung eines Such- verfahrens zur akustischen Muster- erkennung Diploma thesis 2016 Fraunhofer IKTS – HTW Dresden, Fakultät Elektrotechnik	<b>Kluge, Steven</b> Präparation und Charakterisierung von Membranen zur Aufkonzen- trierung von 80,3 Ma-% n-Butanol aus wässrigen Gemischen in Flach- membran- und Einkanalrohrgeometrie Bachelor's thesis 2016 Fraunhofer IKTS – Brandenburgische TU Cottbus - Senftenberg, Campus Senftenberg	<b>Rosenberg, Markus</b> Synthese und Charakterisierung von Perowskiten für die elektroka- talytische Sauerstoffreduktion Master's thesis 2016 Fraunhofer IKTS – Ernst-Abbe- Hochschule Jena, Fachbereich SciTec, Studiengang Werkstofftechnik
<b>Reichelt, Erik</b> Theoretische und experimentelle Untersuchungen zu Stofftransport und Druckverlust in geschütteten und strukturierten Festbetten Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Verfahrenstechnik und Umwelt- technik	<b>Grünberg, Ivo</b> Experimentelle Untersuchungen zur Synthese höherer Alkohole an ei- senbasierten Katalysatorsystemen Master's thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Verfahrenstechnik und Umwelt- technik	<b>Knoch, Philip</b> Durchführung von Vibrationsversu- chen an Lotkontakte unter einer Temperaturwechsellast Bachelor's thesis 2016 Fraunhofer IKTS – Berufsakademie Sachsen, Staatliche Studienakademie Riesa, Studienrichtung Umwelttechnik	<b>Sammt, Nikhil Benjamin</b> Infrarotspektroskopische Unter- suchungen zur Wasseradsorption und -desorption an modifizierten Metall- oberflächen Bachelor's thesis 2016 Fraunhofer IKTS – Brandenburgische TU Cottbus-Senftenberg, Fakultät Umwelt und Naturwissenschaften
<b>Simon, Adrian</b> Schichten aus Kohlenstoff-Nano- materialien auf asymmetrisch porö- sen keramischen Trägern und deren Erprobung für Anwendungen in Membrantechnik und Katalyse Dissertation 2016 Fraunhofer IKTS – TU Ilmenau, Institut für Chemie und Biotechnik	<b>Haufe, Eric</b> Bestimmung statischer magneti- scher Eigenschaften von magneti- schen Formgedächtnislegierungen Diploma thesis 2016 Fraunhofer IKTS – TU Dresden, Fakultät Elektrotechnik und Infor- mationstechnik, Institut für Fein- werktechnik und Elektronik-Design	<b>Liebmann, Tobias</b> Mikroelektrochemische Unter- suchungen an Aluminiumnetzlegie- rungen Master's thesis 2016 Fraunhofer IKTS – HTW Dresden, Fakultät Landbau/Umwelt/Chemie, Studiengang Chemieingenieurwesen	<b>Sattler, Julia-Christina</b> Elektrochemische Untersuchung der Leistungs- und Degradationsei- genschaften von Hochvoltspinnell LiNi <sub>0,5</sub> Mn <sub>1,5</sub> O <sub>4</sub> mit unterschiedlicher spezifischer Oberfläche Bachelor's thesis 2016 Fraunhofer IKTS – TU Braunschweig, Institut für Partikeltechnik
<b>Svoboda, Hermann</b> Untersuchungen zu mikroskopi- schen und makroskopischen Grün- körperfehlern bei der uniaxialen Pressverdichtung Dissertation 2016 Fraunhofer IKTS – TU Dresden, Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft	<b>Henker, Tobias</b> Untersuchung elektromechanischer Wandlerkonzepte für piezoelektri- sche Generatoren bei stochastischer	<b>Liu, Yao</b> Entwicklung eines miniaturisierten Elektrolyseurs in keramischer Mehr-	<b>Schrötke, Elena</b> Elektrochemische Untersuchungen

zur anodischen Auflösung einer SiC-basierten Keramik  
Master's thesis 2016  
Fraunhofer IKTS – HTW Dresden,  
Fakultät Landbau/Umwelt/Chemie,  
Bereich Chemieingenieurwesen

**Seeba, Jann**  
Synthese und Charakterisierung von Mischmetalloxiden  
Master's thesis 2016  
Fraunhofer IKTS – FSU Jena, Chemisch-Geowissenschaftliche Fakultät

**Seiler, Tim**  
Entwicklung und Test von Ultraschall-Phased-Array-Prüfköpfen auf Basis von PMN-PT-Einkristall-Kompositen  
Bachelor's thesis 2016  
Fraunhofer IKTS – HTW Dresden,  
Fakultät Elektrotechnik

**Simunkova, Lenka**  
Untersuchung zum Einfluss der Elektrolytzusammensetzung auf die Oberflächenqualität beim ECM von Wolframcarbid-Cobalt  
Bachelor's thesis 2016  
Fraunhofer IKTS – HTW Dresden,  
Fakultät Landbau/Umwelt/Chemie,  
Bereich Chemieingenieurwesen

**Staden, Kevin von**  
Screening eines alternativen Verfahrens zur Herstellung von Palladium-Membranen: nasschemisches Abscheiden von Metallsalzen und Metallkomplexen auf nanoporösen Trägern mit anschließender Wärmebehandlung  
Master's thesis 2016  
Fraunhofer IKTS – Ernst-Abbe-Hochschule Jena, Fachbereich SciTec

**Susca, Alessandro**  
Characterization of novel electrode materials for bipolar lithium-ion batteries  
Master's thesis 2016  
Fraunhofer IKTS – HTW Dresden,  
Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft

**Tannert, Matthias**  
Development and characterisation of a porous support system for Na $\beta''$ -Al<sub>2</sub>O<sub>3</sub> thin layer electrolytes in high temperature batteries  
Master's thesis 2016  
Fraunhofer IKTS – Ernst-Abbe-Hochschule Jena, Fachbereich SciTec

**Voigt, Karsten**  
Kinetische Untersuchungen zur plasmalektrolytischen Oxidation von Aluminium  
Master's thesis 2016  
Fraunhofer IKTS – TU Dresden,  
Fakultät Mathematik und Naturwissenschaften, Fachrichtung Chemie und Lebensmittelchemie

**Werner, Daniel**  
Untersuchungen zur Herstellung orange/rot lumineszierender Keramiken auf Basis moderner nitridischer Luminophore bei Anregung mit einer blauen LED  
Diploma thesis 2016

Fraunhofer IKTS – TU Dresden,  
Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft

**Zobel, Ruben**  
Labortechnische Untersuchungen zum anaeroben Abbau von Reststoffen aus der Bioethanolproduktion der milchverarbeitenden Industrie  
Master's thesis 2016  
Fraunhofer IKTS – TU Dresden,  
Fakultät Umweltwissenschaften,  
Institut für Abfall- und Kreislaufwirtschaft

**Zywietz, Immanuel**  
Untersuchungen zur elektrochemischen Thermodynamik von Aktivmaterialien für Lithiumionenbatterien  
Bachelor's thesis 2016  
Fraunhofer IKTS – BTU Cottbus-Senftenberg, Fakultät Umwelt und Naturwissenschaften