

Programm - 90. DKG Jahrestagung & Symposium Hochleistungskeramik / Program - 90th DKG Annual Conference & Symposium on High-Performance Ceramics 2015

16.03.2015

07:30 - 09:00	Arrival / Register			
09:00 - 09:10	Opening words - Symposium on High-Performance Ceramics 2015			
09:10 - 09:20 09:20 - 09:30 09:30 - 09:40 09:40 - 09:50 09:50 - 10:00 10:00 - 10:10	<p align="center">Plenary Lecture I / Symposium on High-Performance Ceramics 2015</p> <p align="center">Krishan Luthra - History and Status of Ceramic Development for Industrial Gas Turbines and Aircraft Engines at GE</p> <p align="center">Plenary Lecture II / Symposium on High-Performance Ceramics 2015</p> <p align="center">John BINNER - Ultra high temperature ceramic (UHTC)</p>			
Topic	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session I - part 1	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session II	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session III	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session IV
Chairman	Polymer derived ceramics Günter MOTZ	Additive manufacturing Enrico BERNARDO	Functional ceramics Jörg TÖPFER	Oxide composites Rolf JANSEN
	Keynote	Keynote	Keynote	Keynote
10:40 - 10:50 10:50 - 11:00 11:00 - 11:10	Polymer Derived Boron nitride nano-Ceramics Philippe MIELE, Samuel BERNARD	Powder Bed Additive Manufacturing of Ceramic Powders Gary L. MESSING, R. LAVRICH	Contemporary ferroelectric materials for future needs Danilo SUVOROV	Fibre Reinforced Oxide Ceramics - Progress in Manufacturing, Properties and Simulation Stefan REH
11:10 - 11:20 11:20 - 11:30	Design and Synthesis of Hyperbranched Polyborosilazanes for High-temperature Stable SiBCN Ceramics Jie KONG, Minjun WANG	Lithography-based Ceramic Manufacturing Johannes HOMA, Martin SCHWENTENWEIN	Designing perovskite AMO3 phases by controlling the oxygen pressure and temperature during synthesis for a given combination of A and M ions Agneska BASZCZUK, B. DABROWSKI, M. AVDEEV, M. JASIORSKI	TRIP-Matrix-Verbundwerkstoffe Christian WEIGELT, Claudia WENZEL, Christos G. ANEZIRIS INVITED
11:30 - 11:40 11:40 - 11:50	The Generation of Metal Nano Particles in a Robust SiCN and their Application in Heterogeneous Catalysis Daniel FORBERG, Günter MOTZ, R. KEMPE	Dense powder beds for powder-based additive manufacturing of ceramics Thomas MÜHLER, Jens GÜNSTER, Cynthia M. GOMES	Impact of partial cationic substitution on the CO ₂ - tolerance oxygen-transporting membrane ceramics Armin FELDHOFF, Olga RAVKINA	Multilayered fiber-reinforced oxide composites Rolf JANSSEN, Paula GUGLIELMI, D. BLAESE, D. GARCIA, H. A. AL-QUERESHI, D. HOTZA
11:50 - 12:00 12:00 - 12:10	Reaction of Acrylonitrile with Silazanes for processing of new Silicon-Based PDCs Luiz RIBEIRO, Günter MOTZ, R. MACHADO	Three-dimensional printing of silicate bioceramics from preceramic polymers and fillers Andrea ZOCCA, Franchin GIORGIA, Hamada ELSAYED, Cynthia GOMES, Enrico BERNARDO, Marco A. Lopez HEREDIA, Christine KNABE, Jens GÜNSTER, Paolo COLOMBO	Fabrication and potential of Ba _{0.6} Sr _{0.4} TiO ₃ -Mg ₃ B ₂ O ₆ composites for microwave applications Christian KOHLER, B. KUBINA, M. NIKFALAZAR, A. WIENS, R. JAKOBY, J. R. BINDER	Machining of CMC Materials Ralf GOLLER, A. RÖSINGER
12:10 - 12:20 12:20 - 12:30	Carbon Nanotubes Coated Ceramic Foams Niko MANTZEL, Ulf BETKE, Stefan RANNABAUER, Michael SCHEFFLER	Printing of Itacolomite Ceramics Rainer TELLE, Michael KRAMER, Wen ZHANG	Effect of aging on microstructure and mechanical properties of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} (BSCF) Anke KALETSCH, Simone HERZOG, Christoph BROECKMANN	Prepreg technology for fabrication of O-CMC components based on aqueous suspensions Arne RÜDINGER, P. VIERHAUS, F. F. WEHNER, Walter E.C. PRITZKOW
12:30 - 12:40 12:40 - 12:50		Additive manufacturing SLA applied to technical ceramics Richard GAIGNON	Spinel ferrites for two-step thermochemical redox cycles Michael WOLFF	Water-based prepreps for oxide fiber composites Thomas WAMSER, S. SCHELER, J. SCHAMEL, B. MARTIN, W. KRENKEL

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Topic Chairman	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session I - part 2 Polymer derived ceramics Rajendra BORDIA	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session V Porous ceramics Tobias FEY	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session VI New Applications and Products of ceramic materials Michael ZINS	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session VII Nonoxide composites Nico LANGHOF
14:10 - 14:10 14:10 - 14:10 14:10 - 14:10	Keynote Polymer-derived micro/mesoporous inorganic-organic hybrid materials having CO ₂ affinity Yuji IWAMOTO	Keynote CERAMIC GEL-CAST FOAMS MANUFACTURED BY ENVIRONMENTALLY FRIENDLY MANNER Marek POTOCZEK	Keynote SiC and Si ₃ N ₄ - ceramic components for Hi-Tech applications Karl BERROTH, Gerhard WOTTING	Keynote Processing and properties of SiC-based composites using CVI and tape casting technology Cheng LAIFEI, Zhang LITONG, Liu YONGSHENG, Xie YUPENG, Jian JIE, Xie YANAN, Hu CHENGHAO
14:30 - 14:40 14:40 - 14:50	Metal-Supported Polymer-Derived Ceramics and Nanocomposites for Hydrogen Generation Samuel BERNARD, Chrystelle SALAMEH, Vanessa PROUST, Abhijeet LALE, Umüt B. DEMIRCI, Philippe MIELE	Ceramic Capillary Membranes with Adjustable Pore Size for Controlled Virus Retention Stephen KRÖLL, Julia WERNER, Christoph BRANDES, Benjamin BESSER, Kurosch REZWAN	New kiln furniture based on extruded and tape casted pre-products and their savings potentials Uwe SCHEITHAUER, Tim SLAWIK, Eric SCHWARZER, H.-J. RICHTER, Marcel DANNOWSKI, Wieland BECKERT, Alexander MICHAELIS	SPRAY WINDING, A TECHNOLOGY TO PERFORM TAILORED CMC'S FROM PRECERAMIC POLYMERS Oliver GÖRKE, M. CZASNY, A. GURLLO
14:50 - 15:00 15:00 - 15:10	Synthesis of Novel High-Surface-Area V8C7/SiC Ceramic Nanocomposites by Using Template-Assisted Processing of Single-Source Precursors Emanuel IONESCU, Sarabjeet KAUR, Rana YEKANI, Ralf RIEDEL, Markus GALLEI	Development of a ceramic filter material from recrystallized silicon carbide for microfiltration Florian HOLLEYN, A. LIERSCH	Influence of particle size and fraction of conductive phase on mechanical properties and electrical discharge machining of 3Y-TZP/WC composite ceramics Philipp NINZ, Frank KERN, Rainer GADOW	Mechanical characterization of fabric-reinforced C/C-SiC produced by Liquid Silicon Infiltration Tom LIENSDORF, Walter KRENKEL, Nico LANGHOF
15:10 - 15:20 15:20 - 15:30	Manufacturing of Nb(Si,C,N) composite ceramics via spark-plasma-sintering Martin SEIFERT, Walter KRENKEL, Günter MOTZ	The Mesoporous Structuring and Modification of SiCN Nanocomposites for Electrochemical Applications Julia-Katharina EWERT, Günter MOTZ, Rhett KEMPE	Development of ceramic hollow fiber membranes and their application in water/oil separation processes (produced water treatment) Frank EHLEN, Ina UNGER, Steffen SCHÜTZ	Development of C/C-SiC-Composites Based on Near-Net-Shape Short Fibre Preforms Nicole FLEISCHMANN, Nico LANGHOF, Walter KRENKEL, Daniel WEISE, Gerald HOFFMANN, Chokri CHERIF
15:30 - 15:40 15:40 - 15:50	Templating Approaches Towards Nanostructured Precursor-Derived Ceramics and Carbide-Derived Carbons with Controllable Pore Structure Martin OSCHATZ, Lars BORCHARDT, Winfried NICKEL, Stefan KASKEL	Effects of Doping and Pore Structure on the Thermal Stability of Alumina Inverse Photonic Structures Rolf JANSSEN, Robert M. PASQUARELLI, Heloisa H. RODRIGUES, Jefferson J. do ROSARIO, Martin WALECZEK, Kornelius NIELSCH, Gerold A. SCHNEIDER	From Ion Conductor to Oxygen Generator Ralf KRIEGEL	Interlaminar Shear Strength of 3D-Basalt Fibre-Reinforced/SiOC Hybrid Composites Patrick WEICHAND, Rainer GADOW
15:50 - 16:00 16:00 - 16:10	Tailored thermal expansion in polymer derived ceramics with β -eucryptite particles Anna FEDOROVA, Michael SCHEFFLER	Ceria-based Ceramic Foams for Solar Thermochemical Redox Reaction BONK, Alexander, MAIER, Annika, SCHLUPP, Meike, BURNAT, Dariusz, BATTAGLIA, Corsin, VOGT, Ulrich	Physical properties of (La,Eu)PO ₄ ceramics Anja THUST, E. HAUSSÜHL, B. WINKLER, Y. ARINICHEVA, S. NEUMEIER, M. KLINKENBERG	Y ₂ O ₃ coating of SiC multifilament fibers by chemical vapor deposition Kristina RÖDER, Daisy NESTLER, Daniel WETT, Harry PODLESACK, Bernhard WIELAGE, Guntram WAGNER
16:50 - 18:30	Poster Competition (Poster presentation) / sponsored by DURAVIT AG			
18:30 - 21:30	Get-together and Poster exhibition			

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17.03.2015

Topic Chairman	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session I - part 3 Polymer derived ceramics Samuel BERNARD	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session VIII - part 1 Advanced Processing and Manufacturing Technologies Andreas ROOSEN	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session IX - part 1 Functional Ceramics for Energy Applications and Gas Sensing Ralf MOOS	Symposium on High-Performance Ceramics 2015 Symposium Hochleistungskeramik 2015 Session X - part 1 Simulation - Ceramic matrix composites Dietmar KOCH
08:20 - 08:30 08:30 - 08:40 08:40 - 08:50	Keynote Functionalization of silicon nitride engineering ceramics by polymer derived sintering aids Pavol ŠAJGALIK, Z. LENCES, R. RIEDEL, H. J. KLEEBE	Keynote Processing of complex 3D ceramic parts with a high dimensional resolution using UV polymerization Thierry CHARTIER	Keynote Ceramic Films for Gravimetric High-Temperature Gas Sensors Holger FRITZE, Michal SCHULZ, Denny RICHTER	Keynote Microstructure-behavior relationships and modeling for ceramic matrix composites reinforced by continuous fibers Jacques LAMON
08:50 - 09:00 09:00 - 09:10	Status of the European SiC Fiber Development Hubert JÄGER	Inkjet printing of functional ceramics Joachim R. BINDER, A. FRIEDERICH, M. MIKOLAJEK, W. BAUER INVITED	NO₂-sensing with a double layer of BaTi(1-x)RhxO₃/Al-doped TiO₂ at elevated temperatures Blige SARUHAN-BRINGS, G. C. Mondragon RODRIGUEZ, Azhar A. HAIDRY	Modeling Aspects of the Non-linear Mechanical Behavior of Ceramic Matrix Composites Kamen TUSHTEV, Kurosch REZWAN
09:10 - 09:20 09:20 - 09:30	Processing of large diameter ceramic SiCN fibers via precursor route Octavio FLORES, W. KRENKEL, G. MOTZ	Stability of Pastes for the Manufacturing of Lithium Ion Batteries Werner BAUER, C. BRÖSICKE, F. ÇETINEL, M. MÜLLER, D. NÖTZEL	Lessons learned during the development of a manufacturing process for switching-type lambda sensors as a basis for new exhaust gas sensors Franz SCHUBERT, Stefan WOLLENHAUPT, Jaroslaw KITA, Gunter HAGEN, Ralf MOOS	Finite element analysis of a carbon fibre reinforced SiC nozzle under internal pressure load Severin HOFMANN, Fabian BREEDE, Neeraj JAIN, Dietmar KOCH
09:30 - 09:40 09:40 - 09:50	Design, characterization and processing of boron-modified polysilazanes into SilicoBoron CarboNitride fibers and hollow fibers Antoine VIARD, Philippe MIELE, Samuel BERNARD	Defect reduction and self-healing mechanisms in ceramic thick film processing by external electrical fields Guido FALK	Origin of apparently colossal dielectric constant of doped rutile ceramics Stephan KROHNS, M. WOHLHAUER	Fibre bundle crossings in wound ceramic matrix composites – modelling and simulation of elastic mechanical response Marion BARTSCH, Michael SOLBACH, Henning RICHTER
09:50 - 10:00 10:00 - 10:10	Phenolic resin derived carbon microstructures in SiC fibre preforms for improved conversion to stoichiometric SiC matrix in liquid silicon infiltrated SiC/SiC composites Bernd MAINZER, Martin FRIES, Dietmar KOCH	Bioinspired oxide-based organic/inorganic composites Joachim BILL	Conductometric temperature independent oxygen and NO sensors of BaFe_{0.7}Ta_{0.3}O_{3-δ} produced by aerosol deposition method (ADM) Murat BEKTAS, Dominik HANFT, Daniela SCHÖNAUER-KÄMIN, Thomas STÖCKER, Gunter HAGEN, Ralf MOOS	Relation between interphase porosity and crack deflection tendency in all-oxide Ceramic Matrix Composites Henning RICHTER

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17.03.2015

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10:30 - 10:40 10:40 - 10:50	Mechanics of Polymer Derived Composite Ceramic Coatings and Joints Rajendra K. BORDIA, Kaishi WANG INVITED	Particle-stabilized ceramic foams: processing, characterization and commercialization Urs T. GONZENBACH INVITED	Design of Advanced Ceramics for Accident Tolerant Fuels Hua-Tay LIN INVITED	Numerical Simulation of Microwave-Heated Chemical Vapour Infiltration Process Alexey V. KULIK, V. I. KULIK, M. S. RAMM, S. E. DEMIN INVITED
10:50 - 11:00 11:00 - 11:10	Platelet-reinforced polymer matrix composites as protective coating against oxidation Ulrich F. VOGT, G. PARCIANELLO, M. SCHLUPP	Microstructuring of Non-Conductive Ceramics by Electrical Discharge Machining Florian ZELLER, Nirdesh OJHA, Claas MÜLLER, Holger REINECKE	Creep characterization of the SOFC ceramic anode substrate Goran PECANAC, J. JOOS, J. WEI, E. IVERS-TIFFEE, J. MALZBENDER	Preliminary Thermomechanical Design for Aero-Engine combustors made of CMCs Sandrine HÖNIG, Severin HOFMANN, Thomas BEHRENDT, Yuan SHI, Dietmar KOCH
11:10 - 11:20 11:20 - 11:30	Thermal barrier coating system for application up to 1000 °C based on preceramic polymers in combination with passive and active fillers Gilvan S. BARROSO, Walter KRENKEL, Günter MOTZ	Rare earth aluminosilicate glasses for laser based joining of SiC ceramics Marion HERRMANN, S. AHMAD, W. LIPPMANN, H. J. SEIFERT, A. HURTADO	Implementation of developed storage material for first of high-temperature rechargeable oxide batteries (ROB) Oleg A. TOKARIEV, C. M. BERGER, P. ORZESSEK, W. J. QUADAKKERS, O. FANG, L. BLUM, N. H. MENZLER, O. GUILLON	Development of a Stochastic Simulation Approach for High Temperature Components made of WHIPOX (oxide/oxide CMC) Thomas BECKER, Christian DRESBACH, Stefan REH
11:30 - 11:40 11:40 - 11:50	PDC coatings on Zircaloy to enhance safety of nuclear reactors Benedikt DUERBECK, Manish PATEL, Guenter MOTZ, Rishi RAJ	Electric-field assisted sintering of oxide ceramics: What's new? Oliver GUILLON, J. GONZALES, B. DARGATZ, L. LIU, M. BRAM	Ceramic Na Ion Conductors for Energy Applications Martin GRUND, M. SCHULZ, M. HOFACKER, B. SCHÜßLER, U. SYDOW, R. WEIDL, M. STELTER	Porous ceramics – processing, characterization and simulation Tobias FEY, Bruno CERON-NICOLAT, Martin STUMPF, Bodo ZIERATH, Peter GREIL
13:30 - 14:30	DKG Hauptversammlung 2015 mit Vorstandswahl (Zeitraum 2015-2017)			
14:40 - 15:00	Eröffnung / Begrüssungen zur 90. DKG Jahrestagung			
15:00 - 15:10 15:10 - 15:20 15:20 - 15:30 15:30 - 15:40 15:40 - 15:50 15:50 - 16:00	<p align="center">Plenarvortrag I - 90. DKG Jahrestagung / 90th DKG Annual Conference _ Plenary Lecture I</p> <p align="center">Zbigniew PEDZICH - Current status of the research and development of ceramics in Poland</p> <p align="center">Plenarvortrag II - 90. DKG Jahrestagung / 90th DKG Annual Conference _ Plenary Lecture II</p> <p align="center">Jürgen Rödel - Lead-free piezoceramics: Scientific achievement and transfer opportunity</p>			
16:30 - 18:30	Hans-Walter-Hennicke Vortragswettbewerb (Hans-Walter-Hennicke Lecture Competition 2015) / sponsored by <i>Morgan Technical Ceramics W. Haldenwanger Technical Ceramics GmbH & Co. KG</i>			
19:30 - 23:30	DKG Gesellschaftsabend 2015 (DKG Ehrungen und Wettbewerb Auszeichnungen) / DKG social evening 2015 (DKG Honors and Awards Competition)			

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18.03.2015

Topic Chairman	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung I - Teil 1 (Session I - part I) Feuerfest / Refractory materials Christos ANEZIRIS	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung II - Teil 1 (Session II - part 1) Verfahrenstechnik / Advanced Processing and Manufacturing Technologies Andreas ROOSEN	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung III (Session III) Keramische Schichten / Advanced ceramic coatings Guido FALK	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung IV (Session IV) Verbundwerkstoffe und Biokeramiken / Composites and Bioceramics Alexey KULIK
08:40 - 08:50 08:50 - 09:00 09:00 - 09:10	Keynote Quantification of Y2O3 in YSZ by Raman spectroscopy Yannick HEMBERGER, Christoph Berthold, Klaus G. Nickel	Keynote "Aquacast" – ein neues, wasserbasiertes Foliengieß-Verfahren Thomas GRAULE, Caroline DURIF, Christina FROMDER, Wolfgang LIPPMANN	Keynote Carbon membranes for H2-separation and biogas upgrading Hannes RICHTER, Susanne KÄMNITZ, Björn SCHWARZ, Ingrid VOIGT, Alexander MICHAELIS, Udo LUBENAU, Raymond MOTHES	Keynote Carbon & Carbide matrix Composites for High end Applications Through Controlled Reinforcements and Microstructure Lalit M. MANOCHA
09:10 - 09:20 09:20 - 09:30	Comparison of LBM and FVM for the numerical prediction of effective thermal conductivity of ceramic refractory materials Cornelius DEMUTH, Felix BALLANI, Miguel A. A. MENDES, Subhashis RAY, Dimosthenis TRIMIS	Entwicklung und Applikation von Komposit-Lotfolien Torsten RABE, Hamid NAGHIB_ZADEH, Wolfgang GÜTHER, Carl PAULICK	In-situ study of mass loss, shrinkage and stress development during drying of colloidal ceramic coatings Zongwen FU, Udo ECKSTEIN, Armin DELLERT, Andreas ROOSEN	Tribological investigations of different conventional and CMC friction materials on a self- designed test rig Nico LANGHOF
09:30 - 09:40 09:40 - 09:50	Effect of lamination techniques on the quality of novel multilayer refractory materials Ruth HAMMERBACHER, Benjamin DERMEIK, Nahum TRAVITZKY, Friederike LANGE, Andreas ROOSEN	Einfluss der hydrodynamisch turbulenten Mikromischung in der Mikrojetreaktorsynthese auf die Defekt- strukturausbildung leitfähiger TCO-Ausgangsverbindungen Dirk QUINTEN	HTS wires- flexible ceramic conductors and their application Jan KUNERT	Entwicklung und Produktion oxidkeramischer Hochleistungsfasern Dieter Erdmann
09:50 - 10:00 10:00 - 10:10	Hochtemperatüreigenschaften von kohlenstoffgebundenem Magnesiumoxid (MgO) Johannes SOLAREK, Horst BIERMANN	Extraktive Entbinderung am Beispiel von spritzgegossenen Siliziumnitrid-Bauteilen für Mikrogasturbinen Johannes ABEL, Tassilo MORITZ, Hagen KLEMM, Alexander MICHAELIS	Carbon nanotube and refractory carbide absorber coatings on silicon carbide for solarthermal applications Bastian WEISENSEELE, Tobias FEY, Peter GREIL	Highly porous silicate bioceramic foams from low temperature foaming and reactive ceramization of silicone-based mixtures Enrico BERNARDO, Laura FIOCCO, Hamada ELSAYED
10:10 - 10:20 10:20 - 10:30	Die Untersuchung der mikrostrukturellen Änderung von von hochtonerdehaltigen Feuerbetonen nach Thermoschock- versuchen durch Resonanzfrequenz-Dämpfungsanalyse Nicolas TRAON, Thorsten TONNESEN, Rainer TELLE	Reaktionssintern von transparentem Al2O3-reichem Mg-Al-Spinell Tino SCHREINER, C. BROECKMANN	Schutzschichtsysteme für keramische Faserverbundwerkstoffe Robert VABEN, Jesus GONZALES, Daniel Emil MACK, Olivier GUILLION	Effect of UV exposure time on physicochemical properties of sol-gel derived coatings Anna DONESZ-SIKORSKA, Katarzyna ŁUSZCZYK, Justyna KRZAK, Jerzy KALETA, Marek JASIORSKI
10:30 - 10:40 10:40 - 10:50	Numerical damage prediction of refractory materials under thermo-mechanical loading conditions Dimitri HENNEBERG, A. RICOEUR	Eine neue Generation Thermooptischer Messanlagen zur Charakterisierung von Hochtemperaturmaterialien Jens BABER, F. RAETHER	Powder requirements for Aerosol Deposition of alumina films Jörg EXNER, Manuel HAHN, Michael SCHUBERT, Dominik HANFT, Ralf MOOS, Paul FUERER	Surface modification of the silica particles with different functional groups Beata BORAK, K. ŁUSZCZYK, M. JASIORSKI

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18.03.2015

Topic Chairman	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung I - Teil 2 (Session I - part II) Feuerfest / Refractory materials Christos ANEZIRIS	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung V - Teil 1 (Session V - part 1) Additive Fertigung / Additive manufacturing Jens GÜNSTER	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung VI (Session VI) Low Temperature Cofired Ceramics (LTCC) Jörg TÖPFER	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung VII - Teil 1 (Session VII - part 1) Neue Anwendungen und Produktentwicklungen / New applications and products Michael ZINS
11:10 - 11:20 11:20 - 11:30 11:30 - 11:40	Keynote Optimierter Keilspalttest mit kleinen Probengeometrien Anna BÖHM, Jens FRUHSTORFER, Jürgen MALZBENDER, Christos G. ANEZIRIS	Keynote Generative Fertigung von komplexen, großvolumigen Bauteilen aus technischer Keramik für den Anlagenbau Joachim HEYM, Artur LYNEN	Keynote LTCC mit integrierten Widerstandselektroden für steuerbare Hochfrequenz-Bauteile Andreas HEUNISCH, Victor DE SEAUVE, Bärbel SCHULZ, Tobias FRANKE, Torsten RABE	Keynote Entwicklung der Prozesskette von der thermoplastische Formgebung für farbige Glaswerkstoffe Stephan JEGUST, Tobias SCHMIDT, Moritz VON WITZLEBEN, Axel MÜLLER-KOHN, Anne MANNSCHATZ, Johannes ABEL, Tassilo MORITZ
11:40 - 11:50 11:50 - 12:00	YSZ und SiC als antioxidative Beschichtungen für zelluläre MgO-C Feuerfestkeramiken Daniela PETRI, P. BARREAU, G. FALK	Intensivierung von Mischer- und Reaktorstrukturen für chemische Prozesse durch die additive Verarbeitung keramischer Materialien Uwe SCHEITHAUER, E. SCHWARZER, E. REICHEL, G. ZANZER, W. BECKERT, M. JAHN, A. MICHAELIS	LTCC-Strömungssensor mit integrierten 3D-Mikrostrukturen Carolin LOHRBERG, Steffen ZIESCHE, Uwe PARTSCH	Einführung eines neuen Bindersystems für den Keramischen Pulverspritzguss Tobias SCHMIDT, Patrick DIEHL, Stefan SEIBERT, Moritz VON WITZLEBEN
12:00 - 12:10 12:10 - 12:20	Influence of the phase composition on the thermomechanical properties of fused alumina-zirconia-titania materials Jens FRUHSTORFER, S. MÖHME, G. SCHMIDT, M. THALHEIM, C. G. ANEZIRIS	Entwicklung und Anwendung von UV-ernetzenden Suspensionen für die additive Herstellung von ZrO₂-Keramik Eric SCHWARZER, Uwe SCHEITHAUER, Hans-Jürgen RICHTER, Jürgen LOBE, Oliver REFLE	Oxidkeramische thermoelektrische Generatoren im Multilagensign Timmy REIMANN, S. BARTH, A. VOGEL, B. CAPRARO, T. SCHULZ, A. BOCHMANN, S. TEICHERT, J. TÖPFER	Aufbereitung von Stahl-Keramik-Pulvermischungen für die Thermoplastische Formgebung Annika KLEIN, Markus ZWICK, Nadja KRATZ
12:20 - 12:30 12:30 - 12:40	Bindersystem für den Druckschlickerguss grobkörniger Keramiken Nora GERLACH, C. G. ANEZIRIS	3D-Druckverfahren mit keramischen Materialien Stefan TUDYKA	Druckunterstütztes Sintern glaskeramischer Komposite mit Opferfolie aus hexagonalem Bornitrid Björn BRANDT, Torsten RABE	Herstellungsverfahren keramischer Mahlkugeln - neuer Mahlkugelwerkstoff und Mahleffizienz Achim MÜLLER, Udo WEBER, Karin SCHEIDT
Topic Chairman	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung XIII (Session XIII) Rohstoffe & Silikatkeramik / Raw materials & Silicate ceramics Gernot KLEIN	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung II - Teil 2 (Session II - part 2) Additive Fertigung / Additive manufacturing Ralf DIEDEL	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung IX (Session IX) Strukturkeramik / Structural Ceramics Andreas RENDTEL	90. DKG Jahrestagung 90th DKG Annual Conference Sitzung VII - Teil 2 (Session VII - part 2) Neue Anwendungen und Produktentwicklungen / New applications and products Joachim HEYM
13:50 - 14:00 14:00 - 14:10	Das Zweistoffsystem ZrO₂-SiO₂ Rainer TELLE	Herausforderungen der additiven Fertigung keramischer Funktionsbauteile Christian ZENKEL, M. STEPANYAN, J. VOGT, F. RAETHER	High toughness in Y-TZP materials made from stabilizer coated nanopowder Frank KERN, Heike STRÜMBERGER, Rainer GADOW	Entwicklung eines Siliziumnitrid-Werkstoffes für Rotoren in Mikrogesturbinen Willy KUNZ, H. KLEMM, J. ABEL, A. MICHAELIS
14:10 - 14:20 14:20 - 14:30	Sanitärkeramiktrocknung im Durchlaufverfahren Frank APPEL	3D gedruckte Keramiken für technische und medizintechnische Anwendungen Christian POLZIN, Hermann SEITZ	Layered ceramics with internal compressive stresses to strength and toughness Robert DANZER, Raul BERMEJO	Effect of pressing and sintering conditions on the properties of spray dried ceria stabilized zirconia Andreas BÖRGER, A. PRIESE, I. WESOLOWSKI
14:30 - 14:40 14:40 - 14:50	Bestimmung der inneren Struktur ungebraunter keramischer keramischer Gefüge mittels Schalllaufzeitmessung und deren Einfluss auf die Trockenbiegefestigkeit Sarah KLECHA, O. LATIEF	Additive Manufacturing of ceramic-based composites Nahum TRAVITZKY, P. GREIL	MAX-Phasen im ternären System Nb-Al-C als Rissheilungsfüller in ZrO₂-Keramiken Martin STUMPF, Tobias FEY, Peter GREIL	Untersuchung des Sinterverhaltens und der Gefüge von Seltenerd-Phosphaten SEPO₄ (mit Se= La,Ce, Pr) Charlotte SCHAUSTEN, A. WÄTJEN, R. TELLE, Y. ARINICHEVA, S. NEUMEIER, A. HIRSCH, G. ROTH
15:00 - 15:10 15:10 - 15:20 15:20 - 15:30 15:30 - 15:40 15:40 - 15:50 15:50 - 16:00	<p align="center">Plenarvortrag III - 90. DKG Jahrestagung / 90th DKG Annual Conference _ Plenary Lecture III</p> <p align="center">Rheinhard LENK - Werkstoffe und Fertigungsverfahren für Keramikprodukte mit höchsten Ansprüchen</p> <p align="center">Plenarvortrag IV - 90. DKG Jahrestagung / 90th DKG Annual Conference _ Plenary Lecture IV</p> <p align="center">Wilhelm SIEMEN - Traditionsstandort Keramik Oberfranken - Cuias es? Quo vadis?</p>			