

# Preliminary Oral Programme

## 15th Conference & Exhibition of the European Ceramic Society / ECerS2017

### MONDAY, 10 July 2017, Room PÁTRIA

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Monday	Pátria	8:15–8:35	<b>Csaba Balázs &amp; Servet Turan</b>	<b>Opening Ceremony</b>	Centre for Energy Research Hungarian Academy of Sciences, Hungary & Anadolu University, Turkey	Opening Ceremony	
Monday	Pátria	8:35–9:10	<b>Pavol Šajgalík</b>	<b>Silicon nitride – a promising candidate for the bioactive composite implants</b>	ECerS President Institute of Inorganic Chemistry, SAS, Bratislava, Slovakia	Plenary lectures	
Monday	Pátria	9:10–9:45	<b>Mrityunjay Singh</b>	<b>Multiscale integration challenges in alternative and renewable energy systems</b>	President, The American Ceramic Society (2015-16); Chief Scientist, Ohio Aerospace Institute; Cleveland, OH, USA	Plenary lectures	
Monday	Pátria	9:45–9:55	<b>Anne Leriche</b>	<b>JECs Trust Award Ceremony Awardee: Rodrigo Moreno</b>	ECerS Immediate Past President University of Valenciennes and Hainaut Cambrésis, France	JECs Trust Award Ceremony	
Monday	Pátria	9:55–10:35	<b>Rodrigo Moreno</b>	<b>Better ceramics through colloid-chemistry</b>	Institute of Ceramics & Glass, Synthesis and Colloidal Processing Group, Spain	JECs Trust Award Ceremony	
Monday	Pátria	10:35–10:45	<b>Richard Todd</b>	<b>JECs Best Paper Award Ceremony Awardee: Haibo Zhang</b>	University of Oxford, Department of Materials, Oxford, UK	JECs Trust Award Ceremony	
		10:45–10:15	<b>Coffee Break</b>				
Monday	Pátria	11:15–11:40	<b>Takashi Goto</b> <i>Invited</i>	Chemical vapor deposition of SiC environmental coating for SiC/SiC composite	Institute for Materials Research, Tohoku University, Katahira Aoba-ku Sendai Miyagi, Japan	T03	704
Monday	Pátria	11:40–12:05	<b>Young-Wook Kim</b> <i>Invited</i>	High thermal conductivity of liquid-phase sintered silicon carbide ceramics	Department of Materials Science and Engineering, University of Seoul, Dongadaemun-gu, Seoul, Korea	T03	077
Monday	Pátria	12:05–12:30	<b>Manuel Belmonte</b> <i>Invited</i>	Toughened, wear resistant and damage tolerant silicon carbide ceramics by adding graphene-based fillers	Institute of Ceramics and Glass (ICV-CSIC), Madrid, Spain	T03	512
Monday	Pátria	12:30–12:55	<b>Eduardo Saiz</b> <i>Invited</i>	Ceramic-based composites with complex architectures	Imperial College, London, UK	T03	440
		13:00–14:30	<b>Lunch</b>				

Monday	Pátria	14:30–14:55	<b>Fumihiko Wakai</b> <i>Invited</i>	Micro-mechanical test method for searching toughening mechanisms operating at nano-scale	Laboratory for Materials and Structures, Institute of Innovative Research, Tokyo Institute of Technology, Nagatsuta, Midori, Yokohama, Japan	T03	150
Monday	Pátria	14:55–15:20	<b>Jan Dusza</b> <i>Invited</i>	Nano-mechanical testing of advanced ceramics	Institute of Materials Research, Slovak Academy of Sciences, Košice, Slovak Republic	T03	034
Monday	Pátria	15:20–15:45	<b>Junichi Tatami</b> <i>Invited</i>	Local mechanical properties of advanced structural ceramics measured using microcantilever beam specimens	Graduate School of Environment and Information Sciences, Yokohama National University, Yokohama, Japan	T03	286
Monday	Pátria	15:45–16:00	<b>Robert Danzer</b>	On the fracture toughness testing of ceramics	Institut für Struktur- und Funktionskeramik, Montanuniversität Leoben, Leoben, Austria	T03	722
Monday	Pátria	16:00–16:15	<b>Tamás Csanádi</b>	Elastic constants of carbon fibres derived from nanoindentation of a 2D-C/SiC composite system	Institute of Materials Research, Slovak Academy of Sciences, Košice, Slovak Republic	T03	589
Monday	Pátria	16:15–16:30	<b>Tanja Lube</b>	Measuring fracture toughness of Y-TZP	Institut für Struktur- und Funktionskeramik, Montanuniversität Leoben, Leoben Austria	T03	276
		16:30–17:00	<b>Coffee Break</b>				
Monday	Pátria	17:00–17:25	<b>Mathias Herrmann</b> <i>Invited</i>	Diamond reinforced ceramic materials: potential wear resistant components	Fraunhofer IKTS, Fraunhofer Institute for Ceramic Technologies and Systems, Dresden, Germany	T03	417
Monday	Pátria	17:25–17:50	<b>Kiyoshi Hirao</b> <i>Invited</i>	Temperature dependence of thermal properties for high thermal conductive silicon nitride ceramics	Structural Materials Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan	T03	209
Monday	Pátria	17:50–18:05	<b>Christian Schröder</b>	Influence of humidity and temperature on the fatigue behavior of silicon nitride and zirconia ceramics	Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany	T03	227
Monday	Pátria	18:05–18:20	<b>Felipe Gutiérrez-Mora</b>	Effect of graphene content on the tribological behaviour of 3YTZP reinforced with graphene nanoplatelets	Departamento de Física de la Materia Condensada, Universidad de Sevilla-ICMSE (CSIC), Sevilla, Spain	T03	564
Monday	Pátria	18:20–18:35	<b>Marina Ruggles-Wrenn</b>	Fatigue of three advanced SiC/SiC ceramic matrix composites at 1200 °C in air and in steam*	Department of Aeronautics & Astronautics, Air Force Institute of Technology, Ohio, OH, USA	T03	290
Monday	Pátria	18:35–18:50	<b>Daniela Olevano</b>	Microstructural characterization of commercial ceramic materials for ballistic applications	Centro Sviluppo Materiali S.p.A., Rome, Italy	T03	257
Monday	Pátria	18:50–19:05	<b>Florimond Delobel</b>	Influence of HIP post-treatment on microstructure and density of silicon carbide sintered by SPS	ISL, Saint-Louis Cedex, France	T03	183
Monday	Pátria	19:05–19:20	<b>Rosalía Poyato</b>	Graphene nanoplatelet/3 mol% yttria doped zirconia composites with high electrical conductivity	Instituto de Ciencia de Materiales de Sevilla, ICMSE, CSIC-Universidad de Sevilla, Sevilla, Spain	T03	549

**MONDAY, 10 July 2017, Room BARTÓK**

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Monday	Bartók	11:15–11:40	<b>Xiang Ming Chen</b> <i>Invited</i>	SPS derived CaTiO <sub>3</sub> -based dielectric ceramics with high energy storage density	School of Materials Science and Engineering, Zhejiang University, Hangzhou, China	T04	159
Monday	Bartók	11:40–12:05	<b>Souad Ammar</b> <i>Invited</i>	All inorganic granular extrinsic multiferroics: from nanomaterial engineering to magnetoelectric coupling	ITODYS, Université Paris Diderot, Sorbonne Paris Cité, CNRS UMR, Paris, France	T04	658
Monday	Bartók	12:05–12:20	<b>Viktor Bovtun</b>	High-frequency dielectric spectra of BaTiO <sub>3</sub> -PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> ceramics	Department of Dielectrics, Institute of Physics, Czech Academy of Sciences, Prague, Czech Republic	T04	208
Monday	Bartók	12:20–12:35	<b>Oleksandr Tkach</b>	Giant dielectric permittivity and high tunability in Y-doped SrTiO <sub>3</sub> ceramics tailored by sintering atmosphere	CICECO – Aveiro Institute of Materials, Department of Materials and Ceramic Engineering, University of Aveiro, Aveiro, Portugal	T04	039
Monday	Bartók	12:35–12:50	<b>Olga A. Shilova</b>	Synthesis and study of multiferroic – powders with structure 'core-shell' as a fillers for composite materials for electronics and photonics	Laboratory of Inorganic Synthesis, Institute of Silicate Chemistry of the Russian Academy of Sciences, Saint-Petersburg, Russia	T04	020
Monday	Bartók	12:50–13:05	<b>Branimir Bajac</b>	Dielectric properties and interface effects in multilayer BaTiO <sub>3</sub> /NiFe <sub>2</sub> O <sub>4</sub> multiferroic thin films	Department of Materials Engineering, University of Novi Sad, Faculty of Technology Novi Sad, Novi Sad, Serbia	T04	629
		<b>13:05–14:30</b>	<b>Lunch</b>				
Monday	Bartók	14:30–14:55	<b>Elizabeth C. Dickey</b> <i>Invited</i>	Local structure analysis of electroceramics via aberration-corrected scanning transmission electron microscopy	Department of Materials Science and Engineering, Center for Dielectrics and Piezoelectrics, North Carolina State University, Raleigh, NC 27695 USA	T04	714
Monday	Bartók	14:55–15:20	<b>Leontin D. Padurariu</b> <i>Invited</i>	Local field engineering for tailoring electrical properties in ferroelectric-based composites	Dielectrics, Ferroelectrics& Multiferroics Group, Department of Physics, Al.I. Cuza University, Iasi, Romania	T04	842
Monday	Bartók	15:20–15:35	<b>Musa M. Can</b>	The magnetic formation in oxide semiconductors under influence of native defects and impurity atoms concentration	Faculty of Science, Department of Physics, Istanbul University, Istanbul, Turkey	T04	264
Monday	Bartók	15:35–15:50	<b>Sebastian Steiner</b>	Defect chemistry and conductivity mechanisms in B-site acceptor doped and A-site non-stoichiometric Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub>	Institute of Geo- and Materials Science, Technische Universität Darmstadt, Germany	T04	537
Monday	Bartók	15:50–16:05	<b>I.V. Ciuchi</b>	Field-induced metastable ferroelectric phase in PLZT ceramics	CNR-ISTEC, Istituto di Scienza e Tecnologia dei Materiali Ceramici, Faenza, Italy	T04	412
Monday	Bartók	16:05–16:20	<b>Tae-Ho Lee</b>	Glass/Al <sub>2</sub> O <sub>3</sub> /GO,CNT composite with high bending strength and thermal conductivity for package of super capacitor	Department of Materials Science and Engineering, Korea University, Anam-Dong, Korea	T04	452

Monday	Bartók	16:20–16:35	Lavinia-Petronela Curecheriu	Effect of porosity on the dielectric, switching and DC-tunability properties of BaTiO <sub>3</sub> ceramics	Dielectrics, Ferroelectrics & Multiferroics Group, Department of Physics, A.I.I. Cuza University, Iasi, Romania	T04	339
16:35–17:00 Coffee Break							
Monday	Bartók	17:00–17:15	Vincenzo Buscaglia	Phase transitions and polar order in BaCe <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> (x = 0.02 – 0.30) ceramics	ICMATE-CNR, Genoa, Italy	T04	247
Monday	Bartók	17:15–17:30	Jörg Töpfer	Synthesis and properties of lead-free BNBT-based PTCR thermistor ceramics	Department of SciTec, Univ. Applied Sciences Jena, Jena, Germany	T04	577
Monday	Bartók	17:30–17:45	Carmen Galassi	Milling and quite-fast sintering as key production steps to obtain fully dense PZTN-CF particulate composites	CNR-ISTEC, Faenza, Italy	T04	673
Monday	Bartók	17:45–18:00	Piyi Du	The formation and high EM wave absorption properties of doped barrium ferrite over millimeter frequency range	School of Materials Science and Engineering, Zhejiang University, Hangzhou, China	T04	165
Monday	Bartók	18:00–18:15	Giulia Franceschin	Antiferromagnetic crystal size dependence in exchange-biased nanostructured ceramics	ITODYS, Paris Diderot University, Paris, France	T04	496
Monday	Bartók	18:15–18:30	Naoki Ohashi	Chemothermal pulverization of perovskite-type titanates	National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan	T04	514
Monday	Bartók	18:30–18:45	J.J. Bian	Dielectric and energy storage properties of Na(Nb <sub>1-x</sub> Ta <sub>x</sub> )O <sub>3</sub> ceramics prepared by spark plasma sintering	Department of Inorganic Materials, Shanghai University, China	T04	483
Monday	Bartók	18:45–19:00	Hiroshi Maiwa	Electrocaloric effects and temperature distribution analysis of BaTiO <sub>3</sub> -based ceramics and multi-layer capacitor	Department of Materials and Human Environmental Sciences, Shonan Institute of Technology, Tsujido-Nishikaigan, Fujisawa, Japan	T04	453

### MONDAY, 10 July 2017, Room BRAHMS

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Monday	Brahms	11:15–11:40	William Lee <i>Invited</i>	A personal perspective of ceramic research collaborations with industry	Dept. of Materials, Imperial College London, UK	T07	851
Monday	Brahms	11:40–11:55	Gurdial Blugan	Performance of lightweight coated oxide ceramic composites for industrial high speed wood cutting tools: a step closer to market	Empa, Swiss Federal Laboratories for Material Science and Technology, Laboratory for High Performance Ceramics, Duebendorf, Switzerland	T07	565
Monday	Brahms	11:55–12:10	Katarzyna Pasiut	The structure of raw porcelain glazes modified by the zirconium oxide addition	AGH University of Science and Technology, Kraków, Poland	T07	642
Monday	Brahms	12:10–12:25	Roberto Soldati	Powder rheology and compaction behavior of spray dried bodies for porcelain stoneware slabs	CNR-ISTEC, Faenza, Italy	T07	163

Monday	Brahms	12:25–12:40	<b>Roberto Soldati</b>	Exploring waste-based body formulations for porcelain stoneware tiles produced at lower sintering temperatures	CNR-ISTEC, Faenza, Italy	T07	901
<b>13:00–14:30 Lunch</b>							
Monday	Brahms	14:30–14:55	<b>Eliseo Monfort</b> <i>Invited</i>	New challenges in occupational health in the European ceramic industry	Instituto de Tecnología Cerámica (ITC), University Jaume I, Castellón, Spain	T07	818
Monday	Brahms	14:55–15:20	<b>Mariarosa Raimondo</b> <i>Invited</i>	Industrial materials: the challenges for smart coatings	Institute of Science and Technology for Ceramics, ISTEC CNR, Faenza, Italy	T07	858
Monday	Brahms	15:20–15:35	<b>Meltem Ipekci</b>	Improvement of enamel coatings used as food contact materials in industrial applications	Department of Metallurgical and Materials Engineering, Istanbul Technical University, Chemistry and Metallurgy Faculty, Metallurgical and Materials Engineering Department, Maslak, Istanbul, Turkey	T07	698
Monday	Brahms	15:35–15:50	<b>Janusz Partyka</b>	The effect of addition of alkali metals oxide on selected parameters of the ceramic glazes	AHG University of Science and Technology, Faculty of Material Science and Ceramic, Kraków, Poland	T07	615
Monday	Brahms	15:50–16:05	<b>Beatrice Lucchese</b>	Ceramic tile surfaces: cleanability and durability performances	Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, Bologna, Italy	T07	377
Monday	Brahms	16:05–16:20	<b>Silvia Barbi</b>	Chemical strengthening of industrial glazes suitable for ceramic tile	University of Modena and Reggio Emilia, Department of Engineering Enzo Ferrari, Modena, Italy	T07	009
Monday	Brahms	16:20–16:35	<b>Anita Terjék</b>	Comparative analysis of surface properties for assessing slip resistance of glazed ceramic tiles	Material Testing Laboratory, ÉMI Nonprofit Llc., Szentendre, Hungary	T07	641
<b>16:35–17:00 Coffee Break</b>							
Monday	Brahms	17:00–17:25	<b>Elisa Rambaldi</b> <i>Invited</i>	Pathway towards high recycled content traditional ceramics	Centro Ceramico Bologna, Bologna, Italy	T07	702
Monday	Brahms	17:25–17:40	<b>Pius Otimeyin</b>	The significance of Okpella granite in ceramic glaze formulae	Department of Ceramics Auchi Polytechnic, Auchi, Edo State, Nigeria	T07	718
Monday	Brahms	17:40–17:55	<b>Marek Grandys</b>	Differences in mullite crystal growth in triaxial ceramics containing K- and/or Na-feldspar	AHG University of Science and Technology, Faculty of Material Science and Ceramic, Kraków, Poland	T07	616
Monday	Brahms	17:55–18:10	<b>Philippe Aubry</b>	Mechanical reinforcement of traditional ceramics by incorporating glass-fibres	BCRC (Belgian Ceramic Research Centre), Mons, Belgium	T07	584
Monday	Brahms	18:10–18:25	<b>Štefan Csáki</b>	Influence of oil shale ash addition on thermophysical processes in an illitic clay during heating	Department of Physics of Materials, Charles University, Prague, Czech Republic	T07	502
Monday	Brahms	18:25–18:40	<b>Acacio Rincón</b>	Mullite foams from engineered alkali activated suspensions	Department of Industrial Engineering, University of Padova, Padova, Italy	T07	228

Monday	Brahms	18:40–18:55	Patricia Rabelo Monich	Glass-ceramic foams from 'inorganic gel casting' and sinter-crystallization of waste glass mixtures	Dipartimento di Ingegneria Industriale, Università degli Studi di Padova, Padova, Italy	T07	356
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### MONDAY, 10 July 2017, Room LEHÁR

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Monday	Lehár	11:15–11:40	Gary Messing <i>Invited</i>	Cold, flash, sparks, nano – where are sintering processes headed?	Pennsylvania State University, Department of Materials Science and Engineering, USA	T02	583
Monday	Lehár	11:40–12:05	Zhijian Shen <i>Invited</i>	Reactive sintering activated by SPS	Department of Materials and Environmental Chemistry, Arrhenius Laboratory, Stockholm University, Stockholm, Sweden	T02	825
Monday	Lehár	12:05–12:20	Karel Maca	Theoretical and experimental study of the transition from open to closed porosity sintering stage	CEITEC BUT, Brno University of Technology, Brno, Czech Republic	T02	799
Monday	Lehár	12:20–12:35	Rachman Chaim	Invasive percolation model for flash sintering of ceramic powders densified by liquid film capillary	Department of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa, Israel	T02	176
Monday	Lehár	12:35–12:50	Tobias Frueh	Powder chemistry effects on the sintering of Bayer alumina	Department of Materials Science and Engineering, Pennsylvania State University, University Park, PA, USA	T02	437
Monday	Lehár	12:50–13:05	Mattia Biesuz	Flash sintering of alumina	Department of Industrial Engineering, University of Trento, Trento, Italy	T02	547
		13:05–14:30	Lunch				
Monday	Lehár	14:30–14:55	Walter Krenkel <i>Invited</i>	RMI-derived ceramic matrix composites based on the liquid-phase pyrolysis of carbon/carbon	Ceramic Materials Engineering, University of Bayreuth, Germany	T02	853
Monday	Lehár	14:55–15:20	Dietmar Koch <i>Invited</i>	Reactive metal infiltration for manufacturing of ceramic matrix composites	German Aerospace Center, Institute of Structures and Design, Stuttgart, Germany	T02	026
Monday	Lehár	15:20–15:35	Matthew T. Porter	Optimisation of impregnated SiC <sub>x</sub> /SiC preforms for microwave chemical vapour infiltration	Metallurgy and Materials, University of Birmingham, Edgbaston, Birmingham, UK	T02	626
Monday	Lehár	15:35–15:50	Yann Aman	New insights into field assisted sintering through synchrotron X-rays computed tomography investigations	NIMTE CNITECH Chinese Academy of Sciences, Ningbo, China	T02	444
Monday	Lehár	15:50–16:05	Wolfgang Rheinheimer	Grain growth transitions in perovskite ceramics: bimodal microstructures, anisotropy and point defects	Institute of Applied Materials (IAM), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	T02	902
Monday	Lehár	16:05–16:20	Hasan Metin Tülümen	Effects of processing and sintering conditions on density and microstructure of microinjection molded oxide CMCs	Karlsruhe Institute of Technology, Institute of Applied Materials (IAM-WK), Eggenstein-Leopoldshafen, Germany	T02	267

16:30–17:00 Coffee Break							
Monday	Lehár	17:00–17:25	<b>Virtudes Rubio</b> <i>Invited</i>	Ultra high temperature ceramic matrix composites based on carbon fibres	School of Metallurgy and Materials, University of Birmingham, UK	T02	638
Monday	Lehár	17:25–17:50	<b>Carolina Tallon</b> <i>Invited</i>	Densification strategies for Ultra High Temperature Ceramics prepared by Near-Net-Shaping Techniques	Department of Materials Science and Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA	T02	109
Monday	Lehár	17:50–18:05	<b>Richard Todd</b>	Ultra-fast firing: the role of heating rate in flash sintering	University of Oxford, Department of Materials, Oxford, UK	T02	503
Monday	Lehár	18:05–18:20	<b>Wirat Lerdprom</b>	Impact of field assisted sintering on porcelain microstructure	Centre for Advanced Structural Ceramics, Department of Materials, Imperial College London, London, UK	T02	040
Monday	Lehár	18:20–18:35	<b>Manshi Ohyanagi</b>	Spark plasma sintering of silicon nitride with the crystallization and phase transformation in the absence of sintering additive	Department of Materials Chemistry, Faculty of Science and Technology, Ryukoku University, Seta Ohe-cho, Ohtsu, Shiga-Pref., Japan	T02	737
Monday	Lehár	18:35–18:50	<b>Hua Tan</b>	Effect of metal doping on heat transfer in Spark Plasma Sintering process	Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic	T02	563
Monday	Lehár	18:50–19:05	<b>Busra Guney</b>	Fracture toughness properties of spark plasma sintered boron carbide ceramics using Ti and TiO <sub>2</sub>	Metallurgical and Materials Engineering Department, Istanbul Technical University, Istanbul, Turkey	T02	216

### MONDAY, 10 July 2017, Room LISZT

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Monday	Liszt	11:15–11:40	<b>Masami Ando</b> <i>Invited</i>	Development of ceramic parts for semiconductor manufacturing equipment using additive manufacturing	TOTO LTD., Chigasaki-City, Japan	T01	242
Monday	Liszt	11:40–12:05	<b>Enrique Sanchez Vilches</b> <i>Invited</i>	Suspension plasma spraying: the meeting point for ceramic processing and plasma spraying technique	Instituto de Tecnología Cerámica (ITC), Universitat Jaume I (UJI), Castellón, Spain	T01	834
Monday	Liszt	12:05–12:20	<b>Jérémy Marie</b>	Ecofriendly alumina suspensions for tape casting process	SPCTS, European Ceramic Center, UMR CNRS 7315, Limoges Cedex, France	T01	167
Monday	Liszt	12:20–12:35	<b>Geoffroy Bister</b>	Functional refractory molds for metal casting built by additive manufacturing	Belgian Ceramic Research Centre, Member of EMRA, Mons, Belgium	T01	105
Monday	Liszt	12:35–12:50	<b>Mario Borlaf</b>	Flame spray synthesis of YAG:Ce nanoparticles	Empa, Laboratory for High Performance Ceramics, Dübendorf, Switzerland	T01	059
Monday	Liszt	12:50–13:05	<b>Lianjun Wang</b>	Fabrication of silica glass from mesoporous powder by SPS	College of Material Science & Engineering, Donghua University, Shanghai, China	T01	056

13:05–14:30 Lunch

Monday	Liszt	14:30–14:55	<b>Gideon Grader</b> <i>Invited</i>	Porous ceramic foams and nanofibers	Chemical Engineering Department, Technion, Haifa, Israel	T01	855
Monday	Liszt	14:55–15:20	<b>Andreas F.J. Kaiser</b> <i>Invited</i>	Advanced manufacturing of porous ceramic structures for use in energy applications	DTU Energy, Department of Energy Conversion & Technical University of Denmark (DTU), Roskilde, Denmark	T01	832
Monday	Liszt	15:20–15:35	<b>Jörg Luchtenborg</b>	Additive manufacturing of silicon nitride with Laser Induced Slip Casting (LIS)	Federal Institute for Materials Research and Testing (BAM), Berlin, Germany	T01	543
Monday	Liszt	15:35–15:50	<b>Ksenia Kamyshnaya</b>	Porous ceramic by crystallization of combustible additive method	Department of Technology Silicates and Nanomaterials, Tomsk Polytechnic University, Russia	T01	318
Monday	Liszt	15:50–16:05	<b>Hamada Elsayed</b>	Highly porous B-doped hardystonite bioceramics from preceramic polymers and engineered fillers: from foams to 3D-printed scaffolds	Department of Industrial Engineering, University of Padova, Padova, Italy	T01	229
Monday	Liszt	16:05–16:20	<b>Mariana Munoz</b>	Ceramic powder synthesis by spray pyrolysis: aerosol formation and evolution	SPCTS UMR 7315, Centre Européen de la Céramique, Limoges Cedex, France	T01	124
Monday	Liszt	16:20–16:35	<b>José Maria Ferreira</b>	Influence of specific interactions between processing additives and the surface of oxide particles on Epoxy Gel Casting	Department of Materials and Ceramics Engineering, CICECO-Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal	T01	620
		16:35–17:00	<b>Coffee Break</b>				
Monday	Liszt	17:00–17:25	<b>Jonas Gorauskis</b> <i>Invited</i>	Processing of porous ceramic structures for efficient mass transport	Æneam ApS, Denmark	T01	843
Monday	Liszt	17:25–17:50	<b>Rajendra K. Bordia</b> <i>Invited</i>	Anisotropic hierarchical porosity ceramic electrodes for high performance Li-ion batteries	Clemson University, Clemson, SC, USA	T01	666
Monday	Liszt	17:50–18:05	<b>Luboš Bača</b>	Additive manufacturing of Ti-B <sub>4</sub> C composites by 4M technology	Aerospace & Advanced Composites GmbH, Wiener Neustadt, Austria	T01	108
Monday	Liszt	18:05–18:20	<b>Thomas Konegger</b>	Micro- and mesopore structure control in silicon carbonitride-based ceramics using molecular porogens	Institute of Chemical Technologies and Analytics, TU Wien, Vienna, Austria	T01	333
Monday	Liszt	18:20–18:35	<b>Imane El Younsi</b>	Rheological properties of alumina formulations based on biosourced additives for micro-extrusion application	SPCTS, European Ceramic Center, UMR CNRS 7315, Limoges, France	T01	354
Monday	Liszt	18:35–18:50	<b>Caroline Tschirpke</b>	From primary particle coating to sintered ceramics – an alternative method to create homogenous ZTA ceramics	Fraunhofer Institut für keramische Technologien und Systeme IKTS, Hermsdorf, Germany	T01	935
Monday	Liszt	18:50–19:05	<b>Enrique Juste</b>	Manufacturing of cemented tungsten carbide by hybrid machining in green state	Belgium Ceramic Research Center, Mons, Belgium	T01	394
Monday	Liszt	19:05–19:20	<b>Thomas Mühler</b>	LSD-based Selective Laser Sintering starts up to new quality of silicate ceramic bodies	TU Clausthal, Clausthal-Zellerfeld, Germany	T01	605



**MONDAY, 10 July 2017, Room MOZART**

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Monday	Mozart	11:15–11:40	<b>Henny J.M. Bouwmeester</b> <i>Invited</i>	Mixed ionic-electronic conducting membranes: fundamentals and challenges	Electrochemistry Research Group, Membrane Science Technology, MESA+ Institute for Nanotechnology, University of Twente, Enschede, The Netherlands	T05	844
Monday	Mozart	11:40–12:05	<b>Alessandra Sanson</b> <i>Invited</i>	Manufacturing of proton conductive ceramics for hydrogen separation membranes and fuel cells	Institute of Science and Technology for Ceramics, National Council of Research (ISTEC-CNR), Faenza, Italy	T05	829
Monday	Mozart	12:05–12:20	<b>Laure Guironnet</b>	La <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>0.7</sub> Ga <sub>0.3</sub> O <sub>3-δ</sub> perovskite membrane produced by electrophoretic deposition process	SPCTS, CNRS, ENSCI, Université de Limoges, CEC, Limoges, France	T05	231
Monday	Mozart	12:20–12:35	<b>Alexandra Monika Heymann</b>	Chemical stability of ceramic dual-phase membrane materials for H <sub>2</sub> -separation in water-gas shift reactors	Institute of Energy and Climate Research, Forschungszentrum Jülich GmbH, Jülich, Germany	T05	180
Monday	Mozart	12:35–12:50	<b>Rafael Oliveira Silva</b>	Preparation and mechanical properties of SrTi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3-δ</sub> (x = 0.25, 0.35, 0.5) for oxygen transport membranes	Forschungszentrum Jülich GmbH, Institute of Energy and Climate Research, Jülich, Germany	T05	068
Monday	Mozart	12:50–13:05	<b>Corinne Salles</b>	Permeability and ionic conductivity of CaTi <sub>0.9</sub> Fe <sub>0.1</sub> O <sub>3-δ</sub>	LSFC- SAINT-GOBAIN CREE, Cavaillon France; CNRS, LEPMI, Grenoble Franc	T05	340
		13:05–14:30	<b>Lunch</b>				
Monday	Mozart	14:30–14:55	<b>Michitaka Ohtaki</b> <i>Invited</i>	Nanostructure engineering in oxide ceramics for high-temperature thermoelectric energy conversion	Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Kasuga, Fukuoka, Japan	T05	859
Monday	Mozart	14:55–15:20	<b>Glenn C. Mather</b> <i>Invited</i>	Investigation of the BZCY72-BaPrO <sub>3</sub> system for high-temperature electrochemical applications: thermal evolution of structures and electrical properties	Instituto de Cerámica y Vidrio, CSIC, Madrid, Spain	T05	827
Monday	Mozart	15:20–15:35	<b>Tomohito Sudare</b>	The adsorption reaction of different shaped-alpha-bismuth oxides with iodide ions	Center for Energy and Environmental Science, Shinshu University, Wakasato, Nagano-shi, Nagano, Japan	T05	372
Monday	Mozart	15:35–15:50	<b>Jakub Karczewski</b>	Functional layers for solid oxide electrolyzers	Faculty of Applied Physics and Mathematics, Gdansk University of Technology, Gdansk, Poland	T05	743
Monday	Mozart	15:50–16:05	<b>Marina Aghayan</b>	The template-assisted wet-combustion synthesis of fibrous nickel-based catalyst for carbon dioxide methanation and methane steam reforming	Tallinn University of Technology, Tallinn, Estonia	T05	511
Monday	Mozart	16:05–16:20	<b>Domingo Pérez-Coll</b>	Overview of the electrical properties of yttrium-doped strontium zirconate as a proton-conducting component in high-temperature electrochemical devices	Instituto de Cerámica y Vidrio, CSIC, Madrid, Spain	T05	831

Monday	Mozart	16:20–16:35	Ivar E. Reimanis	Nickel oxide doped barium yttrium zirconate nanostructures	Department of Metallurgical and Materials Engineering, Colorado School of Mines, Golden, CO, USA	T05	734
<b>16:35–17:00 Coffee Break</b>							
Monday	Mozart	17:00–17:25	Michael Stelter <i>Invited</i>	Low cost Sodium batteries based on ceramic materials – an old idea revisited	Department of Energy Systems, Fraunhofer IKTS, Hermsdorf, Germany	T05	954
Monday	Mozart	17:25–17:50	Katsuya Teshima <i>Invited</i>	Full picture discovery for flux-grown crystals and interface designs on next-generation all-solid-state LIB	Center for Energy and Environmental Science, Shinshu University, Nagano, Japan	T05	044
Monday	Mozart	17:50–18:05	Marie-Claude Bay	Deciphering the influence of microstructure and crystal structure on the temperature dependent ion conductivity of Sodium- $\beta$ '-alumina	Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland	T05	541
Monday	Mozart	18:05–18:20	Cem E. Özbilgin	Mixed glass former effect on ionic conductivity of lithium borophosphate glasses with $\text{SO}_3$ addition	Department of Materials Science and Engineering, Anadolu University, Eskişehir, Turkey	T05	808
Monday	Mozart	18:20–18:35	Amalia C. Wagner	Effect of particle size and hierarchical structuring on the electrochemical properties of NCM-cathode materials in lithium-ion-batteries	Karlsruhe Institute of Technology, Institute for Applied Materials (IAM-KWT), Eggenstein-Leopoldshafen, Germany	T05	373
Monday	Mozart	18:35–18:50	Katja Waetzig	Increased Li ion conductivity of LATP ceramics by optimized powder processing	Fraunhofer Institute for Ceramic Technologies and Systems, Dresden, Germany	T05	398
Monday	Mozart	18:50–19:05	Nikola Kanas	Development of all-oxide thermoelectric stacking device	Department of Material Science and Engineering, NTNU, Trondheim, Norway	T05	669

## TUESDAY, 11 July 2017, Room PÁTRIA

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Tuesday	Pátria	08:30–08:55	Jon Binner <i>Invited</i>	Progress in manufacturing ultra-high temperature ceramic matrix composites (UHTCMCs)	School of Metallurgy and Materials, University of Birmingham, UK	T03	379
Tuesday	Pátria	08:55–09:20	William G. Fahrenholtz <i>Invited</i>	Ultra-high temperature mechanical behavior of $\text{ZrB}_2$ -based laminates	Missouri University of Science and Technology, Rolla, Missouri, USA	T03	084
Tuesday	Pátria	09:20–09:45	Frederic Monteverde <i>Invited</i>	Dual scale composite architectures for high temperature structural applications	ISTEC-CNR, 48018, Faenza, Italy	T03	570
Tuesday	Pátria	09:45–10:10	Diego Gomez-Garcia <i>Invited</i>	A short review on the mechanical properties of pure fully-dense boron carbide fine ceramics	Department of Condensed Matter Physics, University of Seville, Seville, Spain	T03	280
Tuesday	Pátria	10:10–10:25	Caroline D. Liégaut	UHTC based matrix as a protection for C/C composites for very high temperature use: original manufacturing and oxidation resistance	Université de Bordeaux, Laboratoire des Composites ThermoStructuraux, Pessac, France	T03	508

Tuesday	Pátria	10:25–10:40	<b>Antonio Vinci</b>	Effect of SiC on the oxidation resistance of carbon fibre reinforced ZrB <sub>2</sub> /SiC composites	CNR-ISTEC, Institute of Science and Technology for Ceramics, Faenza, Italy	T03	235
		10:40–11:00	<b>Coffee Break</b>				
Tuesday	Pátria	11:00–11:25	<b>Hua-Tay Lin</b> <i>Invited</i>	Engineering design and processing of silicon nitride ceramics for industrial applications	School of Electromechanical Engineering, Guangdong University of Technology, Waihuan Xi Road, Guangzhou, China	T03	309
Tuesday	Pátria	11:25–11:50	<b>Ferhat Kara</b> <i>Invited</i>	SiAlON based ceramics for cutting tool applications	Department of Materials Science and Engineering, Anadolu University, Eskisehir, Turkey	T03	837
Tuesday	Pátria	11:50–12:15	<b>Yanchun Zhou</b> <i>Invited</i>	Making ceramics tolerant to damage by forming nanolaminated structures: from MAX phases to MAB phases	Science and Technology on Advanced Functional Composite Laboratory, Aerospace Research Institute of Materials & Processing Technology, Beijing, China	T03	154
Tuesday	Pátria	12:15–12:30	<b>Rajendra K. Bordia</b>	SiC based materials for next generation nuclear power plants	Materials Science and Engineering, Clemson University, Clemson, SC, USA	T03	802
Tuesday	Pátria	12:30–12:45	<b>Willy Kunz</b>	Material development, processing and testing of a silicon nitride turbine rotor	Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Dresden, Germany	T03	036
Tuesday	Pátria	12:45–13:00	<b>Nasrin Al Nasiri</b>	Environmental barrier coatings (EBC) for silicon-based ceramic composites	Centre for Advanced Structural Ceramics, Department of Materials, Imperial College London, UK	T03	018
Tuesday	Pátria	13:00–13:15	<b>Semra Kurama</b>	Influence of Composition on Optical Properties of Y- $\alpha$ -SiAlONs	Department of Materials Science and Engineering, Anadolu University, Turkey	T03	065
		13:15–14:30	<b>Lunch</b>				
Tuesday	Pátria	14:30–14:55	<b>Thomas Graule</b> <i>Invited</i>	Van der Waals interactions in refractive index matched nanoparticle dispersions	Empa, Swiss Laboratories for Materials Science and Technology, Laboratory for High Performance Ceramics, Dübendorf, Switzerland	T03	128
Tuesday	Pátria	14:55–15:20	<b>Jerome Chevalier</b> <i>Invited</i>	Mechanical behavior of zirconia-based composites with transformation-induced plasticity	Université de Lyon-INSA de Lyon, MATEIS CNRS UMR 5510, Villeurbanne Cedex, France	T03	731
Tuesday	Pátria	15:20–15:35	<b>Marc J. Anglada Gomila</b>	Mechanical properties of mixtures of 12Ce-ZrO <sub>2</sub> and 3Y-ZrO <sub>2</sub> and atom probe tomography of solute distribution	Universitat Politècnica de Catalunya, CIEFMA, Barcelona, Spain	T03	700
Tuesday	Pátria	15:35–15:50	<b>Koen Evers</b>	Bio-inspired CNT reinforced ceramic composite materials	Department of Materials, Oxford University, Oxford, UK	T03	696
Tuesday	Pátria	15:50–16:05	<b>Moritz Weiss</b>	Tuning ceramic microstructures using capillary suspensions with incorporated nanoparticles	Soft Matter, Rheology and Technology, Department of Chemical Engineering, KU Leuven, Leuven, Belgium	T03	515
Tuesday	Pátria	16:05–16:20	<b>Amy Wat</b>	Fabrication and characterization of nacre-inspired metal infused ceramics	Materials Sciences Division, Lawrence Berkeley National Laboratory, Berkeley, USA	T03	428
Tuesday	Pátria	16:20–16:35	<b>Yuchi Fan</b>	Advanced oxide ceramic composites based on graphene	Institute of Functional Materials, Donghua University, Shanghai, China	T03	049

Tuesday	Pátia	16:35–16:50	<b>Karolina E. Kozak</b>	Investigation of the mechanical behavior of MAX phases by acoustic emission technique	Université de Limoges, SPCTS, UMR 7315, Limoges, France	T03	096
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16:50–17:00 **Coffee Break**

## TUESDAY, 11 July 2017, Room BARTÓK

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Tuesday	Bartók	08:30–08:55	<b>Silke Hildegard Christiansen</b> <i>Invited</i>	3D nanoarchitectures for energy energy conversion – enhanced functionality through correlative microscopy	Helmholtz-Zentrum-Berlin, Germany	T04	893
Tuesday	Bartók	08:55–09:20	<b>Gunnar Westin</b> <i>Invited</i>	Complex thin and ultrathin films through solution synthesis	Chemistry-Ångström, Ångström Laboratory, Uppsala, Sweden	T04	822
Tuesday	Bartók	09:20–09:35	<b>Joachim R. Binder</b>	Integration of screen-printed tunable BST thick films in LTCC modules for microwave applications	Karlsruhe Institute of Technology, Institute for Applied Materials (IAM-KWT), Eggenstein-Leopoldshafen, Germany	T04	544
Tuesday	Bartók	09:35–09:50	<b>Pawel Stoch</b>	Structure and magnetoelectric properties of 0.5BiFeO <sub>3</sub> – 0.5Pb(Fe <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> solid solution	Faculty of Materials Science and Ceramics, AGH – University of Science and Technology, Krakow, Poland	T04	724
Tuesday	Bartók	09:50–10:05	<b>Ching-Hwa Ho</b>	Structural, optical, and optoelectronics properties of Cr incorporated WSe <sub>2</sub> layered compounds	Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology, Taipei, Taiwan	T04	090
Tuesday	Bartók	10:05–10:20	<b>Adelina Ianculescu</b>	Preparation and characterization of Cerium-doped BaTiO <sub>3</sub> nanotubes structures	Faculty of Materials Science & Engineering, University POLITEHNICA of Bucharest, Bucharest, Romania	T04	745
Tuesday	Bartók	10:20–10:35	<b>Yuan Lin</b>	Tailoring strains and physical properties of epitaxial thin films on vicinal substrates	State Key Laboratory of Electronic Thin films and Integrated Devices, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China	T04	727
10:35–11:00 <b>Coffee Break</b>							
Tuesday	Bartók	11:00–11:25	<b>Barbara Malič</b> <i>Invited</i>	Exploring relaxor-ferroelectric ceramics for electrocaloric cooling applications	Jozef Stefan Institute, Ljubljana, Slovenia	T04	532
Tuesday	Bartók	11:25–11:50	<b>Marco Deluca</b> <i>Invited</i>	Compositional tuning of Ba-based ferroelectrics and relaxors	Materials Center Leoben Forschung GmbH, Materials for Microelectronics, Leoben, Austria	T04	205
Tuesday	Bartók	11:50–12:05	<b>Rosa Moronta Perez</b>	High permittivity BaTiO <sub>3</sub> ceramics prepared by SPS	<sup>1</sup> Belgian Ceramic Research Centre, Mons, Belgium	T04	274
Tuesday	Bartók	12:05–12:20	<b>Ha-Neul Kim</b>	Fabrication of transparent MgAl <sub>2</sub> O <sub>4</sub> spinel via spray freeze drying of microfluidized slurry	Engineering Ceramics Research Group, Korea Institute of Materials Science, Changwon, Gyeongnam, South Korea	T04	038

Tuesday	Bartók	12:20–12:35	Marion Höfling	Modification of a-site stoichiometry in $\text{Na}_y\text{Bi}_x\text{TiO}_3\text{-BaTiO}_3$ (NBT-BT)-based capacitor materials	Department of Materials Science, Technische Universität Darmstadt, Darmstadt, Germany	T04	277
Tuesday	Bartók	12:35–12:50	Wolfgang Preis	Electrical properties of barium titanate ceramics doped with 2.1% La and 1.0% Mn as a function of temperature and oxygen partial pressure	Chair of Physical Chemistry, Montanuniversitaet Leoben, Franz-Josef-Strasse 18, A-8700 Leoben, Austria	T04	592
Tuesday	Bartók	12:50–13:05	Fabien Bouzat	Transparent Cr:YAG ceramics: role of $\text{Cr}_2\text{O}_3$ and co-dopants on the reactive sintering	Université De Limoges, SPCTS, UMR CNRS 7315, Limoges, France	T04	374
<b>13:05–14:30 Lunch</b>							
Tuesday	Bartók	14:30–14:45	Zoltan Lencses	Luminescent properties of lanthanide oxide and fluoride doped ternary silicon nitride-based phosphors	Institute of Inorganic Chemistry, Slovak Academy of Sciences, Bratislava, Slovak Republic	T04	755
Tuesday	Bartók	14:45–15:00	Yanis Cherkaski	Influence of yttria doped thoria microstructure on its compatibility with liquid sodium	CEA/DEN/DTN/SMTA/LIPC, St-Paul lez Durance, France	T04	341
Tuesday	Bartók	15:00–15:15	Hom Nath Luitel	Broadband spectral upconversion in $\text{CaTiO}_3$ : $\text{Ni}^{2+}$ , $\text{Er}^{3+}$ for solar energy harvesting	Toyota Central R&D Labs., Energy Conversion Materials, Yokomichi, Nagakute, Japan	T04	074
Tuesday	Bartók	15:15–15:30	Pascal Marchet	New lead-free perovskite compounds with $(\text{A}_{1/2}\text{Bi}_{1/2})(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ formula (A = Na, K)	Université de Limoges, SPCTS, UMR 7315, CEC, Limoges, France	T04	687
Tuesday	Bartók	15:30–15:45	Lovro Fulanović	Electrocaloric stability of relaxor multilayer elements	Jožef Stefan Institute, Ljubljana, Slovenia	T04	411
Tuesday	Bartók	15:45–16:00	Maura C. Kelleher	The effect of vibratory milling on the electrical properties of zinc oxide varistors	School of Mechanical & Design Engineering, Dublin Institute of Technology, Dublin, Ireland ; <sup>2</sup> School of Mechanical Engineering, Dublin City University, Glasnevin, Dublin 9, Ireland	T04	613
Tuesday	Bartók	16:00–16:15	Sedat Alkoy	Textured PMN-PZT piezoelectric ceramics for high power applications	Dept. of Materials Science and Engineering, Gebze Technical University, Gebze, Kocaeli, Turkey	T04	560
Tuesday	Bartók	16:15–16:30	Takuma Takahashi	Fabrication of translucent and fluorescent Eu doped CASN bulk ceramics using a spark plasma sintering technique	Kanagawa Academy of Science and Technology, Takatsu-ku, Kawasaki City, Kanagawa, Japan	T04	663
<b>16:30–17:00 Coffee Break</b>							

## TUESDAY, 11 July 2017, Room BRAHMS

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Tuesday	Brahms	08:30–08:55	Alexander Mukasyan <i>Invited</i>	Combustion synthesis of refractory ceramics	Department of Chemical and Biomolecular Engineering, University of Notre Dame, IN, USA	T09	082

Tuesday	Brahms	08:55–09:20	<b>Serdar Ozbayraktar</b> <i>Invited</i>	PCBN – supermaterial for abrasive and non-abrasive applications	Global Innovation Centre, Element Six, Oxfordshire, UK	T09	419
Tuesday	Brahms	09:20–09:35	<b>Onuralp Yucel</b>	Effect of functional additive on the SHS of TiB <sub>2</sub>	Istanbul Technical University, Metallurgy and Materials Engineering, Maslak, Istanbul, Turkey	T09	222
Tuesday	Brahms	09:35–09:50	<b>Kagan Benzesik</b>	Production of IV-B group boride composite ceramics via SHS	Istanbul Technical University, Metallurgy and Materials Engineering, Maslak, Istanbul, Turkey	T09	207
Tuesday	Brahms	09:50–10:05	<b>Duygu Yilmaz</b>	Effect of calcium carbonate addition on the gel precursor synthesise of boron carbide	Metallurgy and Materials Engineering, Eskisehir Osmangazi University, Eskisehir, Turkey	T09	586
Tuesday	Brahms	10:05–10:20	<b>Mehmet Buğdaycı</b>	SHS of TiB <sub>2</sub> -B <sub>4</sub> C powder mixtures	Istanbul Technical University, Metallurgy and Materials Engineering, Maslak, Istanbul, Turkey	T09	202
Tuesday	Brahms	10:20–10:35	<b>Mustafa Baysal</b>	Novel catalytic synthesis of boron nitride nanotubes at low temperatures	Sabanci University, Faculty of Engineering and Natural Sciences, Tuzla, İstanbul, Turkey	T09	534
<b>10:35–11:00 Coffee Break</b>							
Tuesday	Brahms	11:00–11:25	<b>Takashi Goto</b> <i>Invited</i>	Preparation of boride-based eutectic composite by melt-solidification	Institute for Materials Research, Tohoku University, Katahira Aoba-ku Sendai Miyagi, Japan	T09	462
Tuesday	Brahms	11:25–11:50	<b>Hans-Joachim Kleebe</b> <i>Invited</i>	Correlation between microstructure and mechanical properties of boron suboxide B <sub>6</sub> O ceramics; a TEM study	Technische Universität Darmstadt, Darmstadt, Germany	T09	790
Tuesday	Brahms	11:50–12:05	<b>Rong Tu</b>	Preparation of B <sub>4</sub> C-HfB <sub>2</sub> -SiC eutectic composite by arc melting	State Key Lab of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan, China	T09	195
Tuesday	Brahms	12:05–12:20	<b>Gürsoy Arslan</b>	Effect of titanium diboride on properties of functionally graded boron carbide-titanium diboride-aluminium composites	Department of Materials Science and Engineering, Anadolu University, Faculty of Engineering, Eskisehir, Turkey	T09	058
Tuesday	Brahms	12:20–12:35	<b>Gianmarco Taveri</b>	The importance of using borosilicate in geopolymer incorporating waste	Institute of Physics of Materials ASCR, Brno, Czech Republic	T09	336
Tuesday	Brahms	12:35–12:50	<b>Duygu Ağaoğulları</b>	<i>In-situ</i> formation of VB <sub>2</sub> /VC composite powders from oxide raw materials via powder metallurgy processes	Istanbul Technical University, Chemical and Metallurgical Engineering Faculty, Metallurgical and Materials Engineering Department, Particulate Materials Laboratories (PML), Istanbul, Turkey	T09	975
Tuesday	Brahms	12:50–13:05	<b>Zuzana Kováčová</b>	Preparation and characterization of oxidation behavior of YB <sub>4</sub> -SiC ceramics	Institute of Inorganic Chemistry, Technology and Materials, Faculty of Chemical and Food Technology, Slovak University of Technology, Bratislava	T09	518
<b>13:05–14:30 Lunch</b>							
Tuesday	Brahms	14:30–14:55	<b>Ji Zou</b> <i>Invited</i>	Thermoablative resistance of ZrB <sub>2</sub> -SiC-WC ceramics at 2400 °C	School of Metallurgy and Materials, University of Birmingham, Birmingham, UK	T09	668

Tuesday	Brahms	14:55–15:10	<b>Filiz Sahin</b> <i>Invited</i>	B <sub>4</sub> C based ceramic composites prepared by spark plasma sintering	Istanbul Technical University, Dept. of Metallurgical & Materials Eng., Maslak, Istanbul, Turkey	T09	857
Tuesday	Brahms	15:10–15:25	<b>Marian Palcut</b>	Oxidation behavior of iron boride coatings	Slovak University of Technology in Bratislava, Faculty of Materials Science and Technology in Trnava, Institute of Materials Science, Trnava, Slovak Republic	T09	006
Tuesday	Brahms	15:25–15:40	<b>Antionette Can</b>	A study of novel PcBN tool materials in interrupted machining applications	Element Six Global Innovation Centre, Oxfordshire, UK	T09	397
Tuesday	Brahms	15:40–15:55	<b>Oleg Khasanov</b>	Modification of B <sub>4</sub> C ceramics surface by the intense electron beam and ion plasma sputtering	Department of Nanomaterials, Tomsk Polytechnic University, Tomsk, Russia	T09	457
Tuesday	Brahms	15:55–16:10	<b>Kwang Ho Kim</b>	Design-synthesis-evaluation of hard coatings for industrial applications	School of Materials Science and Engineering, Pusan National University, Global Frontier R&D Center for Hybrid Interface-based Future Materials, Busan, South Korea	T09	982

**16:30–17:00 Coffee Break**

## TUESDAY, 11 July 2017, Room LEHÁR

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Tuesday	Lehár	08:30–08:55	<b>Manuel Belmonte</b> <i>Invited</i>	Spark plasma sintering technique: a powerful research tool for developing new ceramic materials	Institute of Ceramics and Glass (ICV-CSIC), Campus Cantoblanco, Madrid, Spain	T02	271
Tuesday	Lehár	08:55–09:20	<b>Suk-Joong L. Kang</b> <i>Invited</i>	Fundamentals of sintering and their future research directions	KICET/KAIST, Jinju/Daejeon, South Korea	T02	085
Tuesday	Lehár	09:20–09:35	<b>Michael Kracker</b>	Preparation of zero thermal expansion ceramics by sol-gel and hot pressing	Otto-Schott-Institut, Chair of Glass Chemistry I, Jena University, Jena, Germany	T02	335
Tuesday	Lehár	09:35–09:50	<b>Junichi Hojo</b>	Development of translucent silicon nitride ceramics by SPS process with various additives	Faculty of Engineering, Kyushu University, Fukuoka, Japan	T02	201
Tuesday	Lehár	9:50–10:05	<b>Réda Berkouch</b>	Strong junctions of Alumina to TZM alloy obtained by coupling oxidation of the alloy and diffusion bonding	SPCTS – European Ceramic Center, Limoges Cedex, France	T02	070
Tuesday	Lehár	10:05–10:20	<b>Carolina Clausell-Terol</b>	Microstructural and electromagnetic study of a CuNiZn ferrite obtained by a non-traditional ceramic process	Departamento de Ingeniería Química, Universitat Jaume I, Castellón, Spain	T02	254
		<b>10:30–11:00</b>	<b>Coffee Break</b>				
Tuesday	Lehár	11:00–11:25	<b>Ricardo H.R. Castro</b> <i>Invited</i>	Sintering of ultra-fine nanocrystalline ceramics and how to avoid their growth	Department of Materials Science & Engineering, University of California-Davis, USA	T02	856

Tuesday	Lehár	11:25–11:50	<b>Douglas Gouvêa</b> <i>Invited</i>	Segregation and surface excess during ceramic process and sintering	Department of Metallurgical and Materials Engineering – Polytechnic School, University of Sao Paulo, Sao Paulo, Brazil	T02	838
Tuesday	Lehár	11:50–12:05	<b>Dusan Galusek</b>	Al <sub>2</sub> O <sub>3</sub> -Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> composites with submicron microstructure by hot pressing of yttrium aluminate glass microspheres	Joint Glass Centre of the IIC SAS, TnUAD and FChFT STU, Trenčín, Slovak Republic	T02	234
Tuesday	Lehár	12:05–12:20	<b>Ali Alzahrani</b>	Effect of sintering temperature on crystallization of nepheline-leucite glass-ceramics	Institute of Dentistry, Queen Mary University of London, London, UK	T02	266
Tuesday	Lehár	12:20–12:35	<b>Baris Yavas</b>	Formation of molybdenum boride layers on TZM alloy by spark plasma sintering process	Istanbul Technical University, Department of Metallurgical and Materials Engineering, Maslak, Istanbul, Turkey	T02	487
		<b>13:00–14:30</b>	<b>Lunch</b>				
Tuesday	Lehár	14:30–14:55	<b>Tatsuki Ohji</b> <i>Invited</i>	Novel processing for unique porous ceramics	National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan	T02	735
Tuesday	Lehár	14:55–15:10	<b>Theo Saunders</b> <i>Invited</i>	Recent advances in current assisted sintering	School of Engineering and Material Science, Queen Mary University of London, London, UK	T02	824
Tuesday	Lehár	15:10–15:25	<b>Peter Tatarko</b>	Flash joining of CVD-SiC coated ceramic matrix composites	Institute of Inorganic Chemistry, Slovak Academy of Sciences, Bratislava, Slovak Republic	T02	661
Tuesday	Lehár	15:25–15:40	<b>Annika Pille</b>	From wet sponges to optoceramics	Laboratoire de Sciences des Procédés et des Matériaux, CNRS UPR-3407, Sorbonne Paris Cité, Villetaneuse, France	T02	142
Tuesday	Lehár	15:40–15:55	<b>Shiqi Zhang</b>	Conversion of MAX phase single crystals in highly porous carbides by high temperature chlorination	Université Grenoble-Alpes/CNRS, France	T02	236
Tuesday	Lehár	15:55–16:10	<b>Nuno Vitorino</b>	Emulsion detonation synthesis (EDS) as an alternative route for YSZ outstanding based materials	Innovnano, iParque, Coimbra, Portugal	T02	800
Tuesday	Lehár	16:10–16:20	<b>Raja Muhammad Awais Khan</b>	Spark plasma sintered single phase Ca- $\alpha$ -SiAlON ceramic utilizing nano-sized precursors at lower temperatures	College of Aeronautical Engineering, National University of Sciences & Technology, Islamabad, Pakistan	T02	184
		<b>16:30–17:00</b>	<b>Coffee Break</b>				

## TUESDAY, 11 July 2017, Room LISZT

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Tuesday	Liszt	08:30–08:55	<b>Peter Vang Hendriksen</b> <i>Invited</i>	Prospects and challenges of solid oxide electrolysis	Department of Energy Conversion and Storage, Technical University of Denmark, Roskilde, Denmark	T05	861



Tuesday	Liszt	08:55–09:20	<b>Enrique Ruiz-Trejo</b> <i>Invited</i>	Quantification of degradation in infiltrated SOFC anodes	Department of Earth Science and Engineering, Imperial College London, London, UK	T05	860
Tuesday	Liszt	09:20–09:35	<b>Tadeusz Miruszewski</b>	Synthesis, structure and electrical properties of Pr, Co-doped SrTiO <sub>3</sub> novel SOEC cathode material	Department of Solid State Physics, Faculty of Applied Physics and Mathematics, Gdansk University of Technology, Gdansk, Poland	T05	730
Tuesday	Liszt	09:35–09:50	<b>Muhammad Zubair Khan</b>	Long-term degradation study of anode supported flat-tubular solid oxide fuel cells	Fuel Cell Research Laboratory, Korea Institute of Energy Research, Daejeon, Republic of Korea	T05	075
Tuesday	Liszt	09:50–10:05	<b>Desirée Ciria</b>	High-temperature mechanical behavior of fully dense La <sub>0.33+x</sub> Si <sub>6</sub> O <sub>26+3x/2</sub> oxyapatite electrolyte materials for SOFCs	Laboratoire SPMS, CentraleSupélec, CNRS, Chatenay-Malabry, France	T05	329
Tuesday	Liszt	10:05–10:20	<b>Aitana Tamayo</b>	Thermochemical behavior of porous SiOC/LSMO nanocomposites with 1D nanostructures for syngas production	Ceramics and Glass Institute, CSIC, Madrid, Spain	T05	480
Tuesday	Liszt	10:20–10:35	<b>Julio Garcia-Fayos</b>	OTM performance optimization for oxyfuel applications by catalytic layer functionalization	Instituto de Tecnología Química (UPV-CSIC), Valencia, Spain	T05	944
		10:35–11:00	<b>Coffee Break</b>				
Tuesday	Liszt	11:00–11:25	<b>Martin Roeb</b> <i>Invited</i>	Processes and materials for solar thermochemical production of fuels and chemical commodities	German Aerospace Center, Institute of Solar Research, Köln, Germany	T05	830
Tuesday	Liszt	11:25–11:40	<b>Philippe Colomban</b>	The proton in nominally anhydrous oxides: content, nature and dynamics	CNRS - Sorbonne Universités, UPMC MONARIS, Paris, France	T05	029
Tuesday	Liszt	11:40–11:55	<b>Nikolas Grünwald</b>	Microstructural and phase evolution of atmospheric plasma sprayed manganese cobalt iron oxide protection layers in solid oxide fuel cells	Forschungszentrum Jülich GmbH, Institute of Energy and Climate Research, Jülich, Germany	T05	069
Tuesday	Liszt	11:55–12:10	<b>Alodia Orera</b>	Development of advanced electrodes by metal oxide impregnation for microtubular solid oxide fuel cells	Instituto de Ciencia de Materiales de Aragón, U. Zaragoza-CSIC, Zaragoza, Spain	T05	797
Tuesday	Liszt	12:10–12:35	<b>Miguel A. Laguna-Bercero</b>	Improvement of solid oxide fuel cell performance by tailoring the electrolyte-electrode interface using laser micro patterning	Instituto de Ciencia de Materiales de Aragón, U. Zaragoza-CSIC, Zaragoza, Spain	T05	782
Tuesday	Liszt	12:35–12:50	<b>Jianping Wei</b>	Characterization of solid oxide fuel cell sealants and anodes	Forschungszentrum Jülich GmbH, Jülich, Germany	T05	712
Tuesday	Liszt	12:50–13:05	<b>Vladislav A Sadykov</b>	Testing oxygen separation membranes based upon novel materials	Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia	T05	738
		13:05–14:30	<b>Lunch</b>				
Tuesday	Liszt	14:30–14:55	<b>Soshu Kiriwara</b> <i>Invited</i>	Stereolithographic additive manufacturing of ceramic structures	Joining and Welding Research Institute, Osaka University, Osaka, Japan	T05	200

Tuesday	Liszt	14:55–15:10	<b>Wei Pan</b>	Defect engineering in development of low thermal conductivity materials	State Key Lab of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing, China	T05	086
Tuesday	Liszt	15:10–15:25	<b>Wilfried Wunderlich</b>	Interfaces of CaCo- and CaMn-ceramics provide high thermoelectric conversion efficiency	Tokai University, Fac. Eng., Material Science Department, Kitakaname, Japan	T05	454
Tuesday	Liszt	15:25–15:40	<b>Rosa I. Merino</b>	Recent findings on the selective thermal emission of Al <sub>2</sub> O <sub>3</sub> -YAG:eR solidified eutectics	Instituto de Ciencia de Materiales de Aragón, Universidad de Zaragoza - CSIC, Zaragoza, Spain	T05	645
Tuesday	Liszt	15:40–15:55	<b>Sathya Prakash Singh</b>	Thermoelectric properties of (La <sub>0.12</sub> Sr <sub>0.88</sub> ) <sub>0.95</sub> TiO <sub>3-δ</sub> between 100 and 900 °C at reducing conditions	Department of Material Science and Engineering, NTNU, Trondheim, Norway	T05	651
Tuesday	Liszt	15:55–16:10	<b>Baptiste Croissant</b>	MgAl <sub>2</sub> O <sub>4</sub> -based catalyst deposition over nickel-chromium alloy for steam methane reforming in millimetric-channel reactor	Air Liquide, CRPS, Jouy en Josas, France	T05	166

16:30–17:00 **Coffee Break**

## TUESDAY, 11 July 2017, Room MOZART

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Tuesday	Mozart	09:30–09:50	<b>Rhiannon Ewing-James</b> <i>Invited</i>	Future lights – addressing the upcoming generation of ceramics and design	The British Ceramics Biennial, UK	T12	401
Tuesday	Mozart	09:50–10:10	<b>Monika Müller</b> <i>Invited</i>	Future lights – addressing the upcoming generation of ceramics and design		T12	401
Tuesday	Mozart	10:10–10:30	<b>Maria Joanna Juchnowska</b> <i>Invited</i>	Future lights – addressing the upcoming generation of ceramics and design		T12	401
		10:30–11:00	<b>Coffee Break</b>				
Tuesday	Mozart	11:00–11:40	<b>Franz Chen</b> <i>Invited</i>	Franz Collection	Franz Collection, Inc., Taipei, Taiwan	T12	093
Tuesday	Mozart	11:40–12:20	<b>Anthony Quinn</b> <i>Invited</i>	Craftsmanship alone is not enough	Dept of Ceramic Design, Central Saint Martins, London, UK	T12	933
Tuesday	Mozart	12:20–13:05	<b>John T. Tynan</b> <i>Invited</i>	A portrait of the ceramicist as a young man: a reconsideration of a new way of promoting ceramics education, with a roadmap for developing a centre of excellence in ceramics	Design & Crafts Council of Ireland	T12	707
		13:05–14:30	<b>Lunch</b>				
Tuesday	Mozart	14:30–15:00	<b>Biljana V. Djordjevic</b> <i>Invited</i>	Contemporary ceramic art and traditional pottery techniques – where is the point?	National Museum in Belgrade, Belgrade, Serbia	T12	237

Tuesday	Mozart	15:00–15:30	<b>Isabel Luisa Ferreira Machado</b>	Archaeometry studies of Portuguese ceramics (pottery and tiles) produced in the region of Lisbon – 16 <sup>th</sup> to 17 <sup>th</sup> c.	CQFM- Centro de Química-Física Molecular and IN-Institute of Nanoscience and Nanotechnology, Instituto Superior Técnico, Universidade de Lisboa, Portugal	T12	134
Tuesday	Mozart	15:30–16:00	<b>Fatma Batukan Belge</b> <i>Invited</i>	Social criticism in Turkish contemporary ceramic art	Turkish Ceramic Society, Fatih Sultan Mehmet Vakif University Faculty of Fine Arts, Istanbul, Turkey	T12	840
		16:30–17:00	<b>Coffee Break</b>				
Tuesday	Mozart	17:00–17:30	<b>Mutlu Başkaya</b> <i>Invited</i>	Self-portrait of a ceramic artist who combines Asia's East and West	Turkish Ceramic Society, Istanbul, Turkey	T12	929
Tuesday	Mozart	17:30–17:45	<b>Selvin Yeşilay</b>	The color effect of magnetite and chromite in ceramic stoneware glazes	Anadolu University, Faculty of Fine Arts, Department of Glass, Eskişehir, Turkey	T12	246
Tuesday	Mozart	17:45–18:00	<b>Pinar Güzelgün</b>	Usage of sugar beet pulp ash in stoneware body as a raw material in ceramic art	Sakarya University, Sakarya, Turkey	T12	100
Tuesday	Mozart	18:00–18:15	<b>Nermin Demirkol</b>	Influence of chamotte addition on the physical and mechanical properties of red mud bodies	Ceramic, Glass & Tile Prog., Vocational School of Degirmendere Ali Ozbay, Kocaeli University, Kocaeli, Turkey	T12	089

### WEDNESDAY, 12 July 2017, Room PÁTRIA

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Wednesday	Pátria	08:30–08:55	<b>Pavol Sajgalik</b> <i>Invited</i>	Electrically conductive ceramics – processing and properties	Institute of Inorganic Chemistry, Slovak Academy of Sciences, Bratislava, Slovak Republic	T03	819
Wednesday	Pátria	08:55–09:20	<b>Jingyang Wang</b> <i>Invited</i>	Thermal insulation ceramics initiative: from crystal structure modification to morphology design	High-performance Ceramics Division, Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China	T03	117
Wednesday	Pátria	09:20–09:35	<b>Ondrej Hanzel</b>	Anisotropy of properties of silicon carbide – graphene composites	Institute of Inorganic Chemistry, Slovak Academy of Sciences, Bratislava, Slovak Republic	T03	416
Wednesday	Pátria	09:35–09:50	<b>Sinem Baskut</b>	Anisotropic mechanical, thermal and electrical properties of SPSed aluminum nitride-graphene platelets composites	Department of Materials Science and Engineering, Anadolu University, Eskişehir, Turkey	T03	746
Wednesday	Pátria	09:50–10:05	<b>Sang Whan Park</b>	Mechanical and electrical properties of liquid phase sintered porous SiC using Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> as sintering additives	Materials Architecturing Research Center, Korea Institute of Science and Technology, Seoul, Korea	T03	160
Wednesday	Pátria	10:05–10:20	<b>Jie Zhang</b>	Design and characterization of substoichiometric zirconium carbides for Gen-IV Very High Temperature Reactors (VHTRs)	Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China	T03	158

Wednesday	Pátria	10:20–10:35	Luchao Sun	Microstructures and properties of bulk Al <sub>2</sub> O <sub>3</sub> /Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> eutectic ceramics prepared by different methods	Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China	T03	701
10:35–11:00 Coffee Break							
Wednesday	Pátria	11:00–11:25	Zhengyi Fu <i>Invited</i>	New sintering process for high density and limited grain growth with plastic deformation as dominating mechanism	State Key Lab of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan, China	T03	050
Wednesday	Pátria	11:25–11:50	Katrin Schönfeld	Development of environmental barrier coatings for SiC/SiC ceramic matrix composites	FhG IKTS Dresden, Germany	T03	110
Wednesday	Pátria	11:50–12:05	Cekdar Vakifahmetoglu	Aligned porosity SiOC ceramics	Department of Mechanical Engineering, Istanbul Kemerburgaz University, 34217, Istanbul, Turkey	T03	139
Wednesday	Pátria	12:05–12:20	Chengying Bai	High-porosity foamed geopolymers by the frothing/peroxide route for water purification and thermal insulation	Department of Industrial Engineering, University of Padova, Padova, Italy	T03	042
Wednesday	Pátria	12:20–12:35	Pavol Hvizdos	Wear damage and fracture of SiC based composites with graphene and carbon nanotubes	Institute of Materials Research (SAS), Košice, Slovak Republic	T03	120
Wednesday	Pátria	12:35–12:50	Mufit Akinc	Processing and oxidation behavior of ZrB <sub>2</sub> -SiC-AlN composites	Department of Materials Science and Engineering, Iowa State University, Ames, Iowa, USA	T03	043
Wednesday	Pátria	12:50–13:05	Darunee Wattanasiriwech	Fly ash based-cordierite containing mullite geopolymer composite	Materials for Energy and Environment Research Group, School of Science, Mae Fah Luang University, Thailand	T03	279
13:05–14:30 Lunch							
Wednesday	Pátria	14:30–14:40	Pavol Šajgalik	<b>ECerS Award Ceremony</b>	ECERS President, Institute of Inorganic Chemistry, SAS, Bratislava, Slovakia	ECerS Award Ceremony	
Wednesday	Pátria	14:40–15:15	Stuijts Award Awardee: Anne Leriche	<b>Ceramics for better healthcare</b>	University of Valenciennes and Hainaut Cambrésis, Laboratory of Ceramics and Associated Processes, France	ECerS Award Ceremony	
Wednesday	Pátria	15:15–15:50	Richard Brook Award, Awardee: Kathleen Richardson	<b>Chalcogenide glasses – a versatile platform for innovations in the infrared</b>	College of Optics and Photonics at the University of Central FL, USA	ECerS Award Ceremony	
Wednesday	Pátria	15:50–16:25	Industrial Award Awardee: Joachim Heym	<b>Additive Manufacturing of complex, large volume Components of Technical Ceramics for Plant Engineering</b>	Schunk Ingenieurkeramik GmbH, Germany	ECerS Award Ceremony	
Wednesday	Pátria	16:25–17:00	Young Scientist Award, Awardee: David Salamon	<b>Pressure-less rapid heating of nanoparticle compacts by infrared heat transfer</b>	Central European Institute of Technology (CEITEC), Brno University of Technology, Czech Republic	ECerS Award Ceremony	
17:00–17:30 Coffee Break							

**WEDNESDAY, 12 July 2017, Room BARTÓK**

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Wednesday	Bartók	08:30–08:55	<b>Adrian Goldstein</b> <i>Invited</i>	Transparent ceramics and glasses containing TM <sup>+</sup> (RE <sup>+</sup> ) cations: spectroscopy, materials and applications	Israel Ceramic and Silicate Institute, Technion City, Haifa, Israel	T04	878
Wednesday	Bartók	08:55–09:20	<b>Hidehiro Kamiya</b> <i>Invited</i>	Molecular design of organic ligands for functional inorganic nanoparticles dispersion in organic solvents and polymer	Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Koganei, Tokyo, Japan	T04	492
Wednesday	Bartók	09:20–09:35	<b>Jan Hostaša</b>	Investigation of silicon content and distribution in YAG ceramics during the production process	CNR-ISTEC, Institute of Science and Technology for Ceramics, National Research Council of Italy, Faenza, Italy	T04	232
Wednesday	Bartók	09:35–09:50	<b>Sung-Eun Choi</b>	High transmittance infrared ray ZnS lens prepared by hot pressing using homogeneous cubic ZnS nano-powders	Department of Materials Science and Engineering, Korea University, Anam-Dong, Korea	T04	455
Wednesday	Bartók	09:50–10:05	<b>Robert Klement</b>	Photoluminescence of Eu <sup>3+</sup> /Eu <sup>2+</sup> doped glass microspheres in the system Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> with eutectic composition	Vitrum Laugaricio – Joint Glass Center of the IIC SAS, TnU AD, and FCHPT STU, Trenčín, Slovak Republic	T04	446
Wednesday	Bartók	10:05–10:20	<b>Julia Sarthou</b>	Experimental and theoretical study of Yb:CAF <sub>2</sub> transparent ceramics thermal properties	Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris, Paris, France	T04	393
Wednesday	Bartók	10:20–10:35	<b>Shao-Ju Shih</b>	Surface modification of starting powder for multifunctional transparent titanate ceramics	Department of Materials Science and Engineering, National Taiwan University of Science and Technology, Taiwan	T04	306
		<b>10:35–11:00</b>	<b>Coffee Break</b>				
Wednesday	Bartók	11:00–11:25	<b>Alexandre Zirpoli Simoes</b> <i>Invited</i>	Towards CO sensors based on lanthanum doped cerium dioxide thick films	UNESP-Engineering Faculty of Guaratingueta Materials Science and Technology Department, Brazil	T04	111
Wednesday	Bartók	11:25–11:50	<b>Clive Randall</b> <i>Invited</i>	Sucking the heat out of ceramic processing	The Pennsylvania State University, University Park, PA, USA	T04	946
Wednesday	Bartók	11:50–12:05	<b>Lilia Qassym</b>	New dielectric material for co-sintering with LTCC microwave garnet	Laboratoire de Chimie et des Matériaux Multifonctionnels, THALES Research and Technology, Palaiseau, France	T04	409
Wednesday	Bartók	12:05–12:20	<b>Wenjea J. Tseng</b>	TeO <sub>2</sub> /SnO <sub>2</sub> hybrid nanowire structures for enhanced room-temperature gas sensing	Department of Materials Science and Engineering, National Chung Hsing University, Taiwan	T04	055
Wednesday	Bartók	12:20–12:35	<b>Pedro M. Faia</b>	Structural and electrical characterisation of composite humidity fibre sensors prepared by electrospinning	CEMPRE, Electrical and Computers Engineering Department, Faculty of Sciences and Technology of the University of Coimbra, Coimbra, Portugal	T04	054

Wednesday	Bartók	12:35–12:50	Leandro S.R. Rocha	Novel gas sensor with dual response under CO <sub>(g)</sub> exposure: optical and electrical stimuli	FEG - UNESP Materials and Technology, Brazil	T04	126
Wednesday	Bartók	12:50–13:05	Lidia Rossi	Thermal coarsening of metal-on-oxide nanowire thin films	Laboratory of Physics of Complex Matter, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland	T04	633
Wednesday	Bartók	13:05–13:20	S. Samet Kaplan	Hexagonal tungsten trioxide produced by novel solution combustion method	Department of Metallurgical and Materials Engineering, Istanbul Technical University, Sarıyer, Istanbul, Turkey	T04	382

13:20–14:30 Lunch

### WEDNESDAY, 12 July 2017, Room BRAHMS

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Wednesday	Brahms	08:30–08:55	Diletta Sciti <i>Invited</i>	Processing and properties of B <sub>4</sub> C-based systems combined with TiB <sub>2</sub> and SiC	ISTEC-CNR, Institute of Science and Technology of Ceramics, Faenza, Italy	T09	144
Wednesday	Brahms	08:55–09:10	Ghatu Subhash	Ultrahigh pressure deformation and Raman spectra of boron carbide and its polymorphs	Mechanical and Aerospace Engineering, University of Florida, Gainesville, FL, USA	T09	067
Wednesday	Brahms	09:10–09:25	Cassandre Piriou	Contribution to the thermodynamic study and oxidation behavior of HfB <sub>2</sub> -SiC ultra-high temperature ceramics	SPCTS-CNRS, UMR 7315, Centre Européen de la Céramique (CEC), Limoges Cedex, France	T09	072
Wednesday	Brahms	09:25–09:40	Pavlo P. Barvitskiy	Sintering and properties of AlB <sub>12</sub> C <sub>2</sub> – based materials	Institute for Superhard Materials of the National Academy of Sciences of Ukraine, Kiev, Ukraine	T09	369
Wednesday	Brahms	09:40–09:55	İrem N. G. Şimşek	Microstructural design of melt infiltrated boron carbide – aluminum ceramic – metal composites via spark plasma sintering	Department of Metallurgical and Materials Engineering, Bulent Ecevit University, Zonguldak, Turkey	T09	470
Wednesday	Brahms	09:55–10:10	Dmitry Moskovskikh	Reactive spark plasma sintering of boron carbide nanostructured ceramics	National University of Science and Technology MISIS, Moscow, Russia	T09	466
Wednesday	Brahms	10:10–10:25	Nicolas Pradeilles	Influence of the chemical composition on the mechanical properties of spark plasma sintered boron carbide ceramics	SPCTS-CNRS, UMR 7315, Centre Européen de la Céramique (CEC), Limoges Cedex, France	T09	894
		10:35–11:00	Coffee Break				
Wednesday	Brahms	11:00–11:25	Wai-Yim Ching <i>Invited</i>	<i>Ab initio</i> modelling of structure and properties of cements	Department of Physics and Astronomy, University of Missouri-Kansas City, Kansas City, MO, USA	T08	083
Wednesday	Brahms	11:25–11:50	Masahiro Yoshimura <i>Invited</i>	Importance of soft processing (= low-energy production) of advanced ceramic materials for sustainable society	Dept of Mater., Sci. and Eng., National Cheng Kung University, Tainan, Taiwan	T08	886

Wednesday	Brahms	11:50–12:15	<b>Sophia B. Betzler</b> <i>Invited</i>	<i>In situ</i> observation of the heat-induced phase transformation of 3D hierarchical niobium oxide nanostructures with atomic resolution	Max Planck Institut für Festkörperforschung, Stuttgart, Germany	T08	676
Wednesday	Brahms	12:15–12:30	<b>Jiemin Wang</b>	Theoretical modeling the magnetic properties of $(Cr_{2/3}M_{1/3})_3AX_2$ (M = Ti, V, A = Al, Si, P, S, Ge, Ga, X = C, N) tailored by chemical compositions	High performance Ceramics Division, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, Liaoning, China	T08	447
Wednesday	Brahms	12:30–12:45	<b>Vincent Guérineau</b>	<i>In situ</i> study of the oxidation of ZrB <sub>2</sub> and HfB <sub>2</sub> -based ceramics through laser-induced fluorescence from BO <sub>2</sub>	ONERA – The French Aerospace Lab, Châtillon, France	T08	384
		13:00–14:30	<b>Lunch</b>				

### WEDNESDAY, 12 July 2017, Room LEHÁR

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Wednesday	Lehár	08:30–08:55	<b>Jerome Chevalier</b> <i>Invited</i>	Resorption of calcium phosphate materials: considerations on the <i>in vitro</i> evaluation	Univ. Lyon, INSA de Lyon, MATEIS UMR CNRS 5510, Bât. Blaise Pascal, Villeurbanne, France	T06	733
Wednesday	Lehár	08:55–09:20	<b>Sudipta Seal</b> <i>Invited</i>	Tuning nanoceramics for angiogenesis and its potential in cancer therapy	Nanoscience Technology Center and Advanced Materials Processing Analysis Center, USA	T06	848
Wednesday	Lehár	09:20–09:35	<b>Tomasz Troczynski</b>	Progress in calcium-magnesium phospho-silicate hydraulic bio-cements for dentistry and orthopedics	Materials Engineering, University of British Columbia, Vancouver B.C., Canada	T06	114
Wednesday	Lehár	09:35–09:50	<b>Fei Zhang</b>	Dental restorative ceramics: balance between aesthetics, mechanical properties and long-term stability	University of Lyon, UMR CNRS 5510 (MATEIS), INSA de Lyon, France	T06	805
Wednesday	Lehár	09:50–10:05	<b>Franziska Schmidt</b>	Sol-gel derived mesoporous glasses with high surface area and good bioactivity	Chair of Advanced Ceramic Materials, Technische Universität Berlin, Berlin, Germany	T06	798
Wednesday	Lehár	10:05–10:20	<b>Emrah Dölekçekiç</b>	Seeding of lithium disilicate glass-ceramics for enhanced fracture toughness	Department of Materials Science and Engineering, Anadolu University, Yunus Emre Campus Eskişehir, Turkey	T06	794
		10:30–11:00	<b>Coffee Break</b>				
Wednesday	Lehár	11:00–11:25	<b>Anna Tampieri</b> <i>Invited</i>	Nature-inspired innovative processes to generate smart materials for regenerative medicine	Institute of Science and Technology for Ceramics, National Research Council, Faenza, Italy	T06	951
Wednesday	Lehár	11:25–11:50	<b>Aldo R. Boccaccini</b> <i>Invited</i>	Expanding applications of bioactive glasses in tissue engineering and wound healing	Institute of Biomaterials, University of Erlangen-Nuremberg, Erlangen, Germany	T06	960

Wednesday	Lehár	11:50–12:05	<b>Maria Binner</b>	Photolymerization to prepare polymeric-ceramic composites for bone regeneration	Ceramic Department, CSIC, Madrid, Spain	T06	791
Wednesday	Lehár	12:05–12:20	<b>Romain Trihan</b>	Cancer diagnosis & therapy using functionalized inkjet-printed mesoporous silica microdots	Science of Ceramic Processing & Surface Treatments laboratory (SPCTS), UMR CNRS 7315, Limoges, France	T06	670
Wednesday	Lehár	12:20–12:35	<b>Endre Horvath</b>	Cleaning with photons: challenges and opportunities of photocatalytic water and air sterilization	Laboratory of Physics of Complex Matter, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland	T06	624
Wednesday	Lehár	12:35–12:50	<b>Kathleen O'Connell</b>	The potential of high borate glasses for transarterial embolization	Dalhousie University, Halifax, Canada	T06	449
Wednesday	Lehár	12:50–13:05	<b>Andraž Kocjan</b>	The phase-partitioning-dependent residual stress evolution in 3Y-TZP ceramics affecting ageing and fracture behaviour	Department for Nanostructured Materials, Jožef Stefan Institute, Ljubljana, Slovenia	T06	792

13:05–14:30 Lunch

### WEDNESDAY, 12 July 2017, Room LISZT

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Wednesday	Liszt	08:30–08:55	<b>Ashok Vaseashta</b> <i>Invited</i>	4D-printed hydrogel-based composite structures by additive processing	International Clean Water Institute, Herndon, VA, USA	T01	821
Wednesday	Liszt	08:55–09:20	<b>Andrea Zocca</b> <i>Invited</i>	LSD-3D printing: a novel technology for the Additive Manufacturing of ceramics	BAM Federal Institute for Materials Research and Testing, Berlin, Germany	T01	422
Wednesday	Liszt	09:20–09:35	<b>Amin M'Barki</b>	Direct Ink Writing of boehmite gels: rheological understanding of printability	Saint-Gobain CREE LSFC Lab, Cavailon / Claude Bernard Lyon I, France	T01	078
Wednesday	Liszt	09:35–09:50	<b>Arnaud Roux</b>	Truly comprehensive solutions to produce ceramic parts with 3D printing	3DCERAM, Limoges, France	T01	259
Wednesday	Liszt	09:50–10:05	<b>Andrzej Calka</b>	Synthesis, characterisation and properties of perovskite ceramics prepared by electric discharge assisted mechanical milling	University of Wollongong, Faculty of Engineering and Information Sciences, School of Mechanical, Materials, Mechatronics and Bioengineering, Australia	T01	850
Wednesday	Liszt	10:05–10:20	<b>Antonio Javier Sanchez Herencia</b>	Porous and dense materials using bioplastics as structurers in colloidal processing	Ceramic and Glass Institute, Madrid, Spain	T01	813
Wednesday	Liszt	10:20–10:35	<b>Xifan Wang</b>	Freeze-cast cylindrical silicon oxycarbide shells fabricated by cryo thiol-ene photopolymerization	Chair of Advanced Ceramic Materials, Technische Universität Berlin, Berlin, Germany	T01	758

10:35–11:00 Coffee Break



Wednesday	Liszt	11:00–11:25	<b>Dong-Kyun Seo</b> <i>Invited</i>	New aluminosilicate nanoaggregates synthesis from low-temperature geopolymerization processes	School of Molecular Sciences, Arizona State University, Tempe, Arizona, USA	T01	812
Wednesday	Liszt	11:25–11:50	<b>Giorgia Franchin</b> <i>Invited</i>	Additive Manufacturing with inorganic polymers: an alternative to the powder-binder approach	Dipartimento di Ingegneria Industriale, University of Padova, Padova, Italy	T01	172
Wednesday	Liszt	11:50–12:05	<b>Federico Veronesi</b>	Sol–gel routes in different media to obtain nanostructured, superhydrophobic coatings on copper surfaces	Institute of Science and Technology for Ceramics, National Research Council, Faenza, Italy	T01	178
Wednesday	Liszt	12:05–12:20	<b>Branko Z Matovic</b>	Synthesis and characterization of nanometric gadolinia powders by low temperature solid-state displacement reaction	Institute for Nuclear Sciences, Centre of Excellence-CextremeLab Vinca, University of Belgrade, Belgrade, Serbia	T01	244
Wednesday	Liszt	12:20–12:35	<b>Johanna E.M. Schmidt</b>	Additive manufacturing of ceramics from preceramic polymers: from nanometers to centimeters	Department of Industrial Engineering, University of Padua, Padua, Italy	T01	361
Wednesday	Liszt	12:35–12:50	<b>Wu Zhen</b>	Porous $\gamma$ -(Y <sub>1-x</sub> Ho <sub>x</sub> ) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> thermal insulator with excellent strength retention at high temperature	High-performance Ceramics Division, Institute of Metal Research CAS, Shenyang, China	T01	252
		13:00–14:30	<b>Lunch</b>				

### WEDNESDAY, 12 July 2017, Room MOZART

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Wednesday	Mozart	08:30–08:55	<b>Victor C. Pandolfelli</b> <i>Invited</i>	Reflections on refractory materials and their evaluation	Materials Engineering, Federal University of São Carlos, Brazil	T11	091
Wednesday	Mozart	08:55–09:20	<b>Carmen Baudin</b> <i>Invited</i>	The main role of silica gel technology on alumina castables	Instituto de Cerámica y Vidrio, CSIC, Madrid, Spain	T11	715
Wednesday	Mozart	09:20–09:35	<b>Nicolas Preux</b>	High temperature mechanical characterisation of <i>in situ</i> forming spinel-alumina castables, using magnesia or magnesite as raw materials	Belgian Ceramic Research Centre, Mons, Belgium	T11	033
Wednesday	Mozart	09:35–09:50	<b>Jacques Poirier</b>	An improved corrosion and thermal shock resistant sintered mullite-zirconia refractory	CNRS, CEMHTI UPR 3079, University of Orléans, France	T11	073
Wednesday	Mozart	09:50–10:05	<b>Daniela Olevano</b>	Degradation of silicon carbide based refractories in CFB plants under co-combustion conditions	Centro Sviluppo Materiali S.p.A., Rome, Italy	T11	962
Wednesday	Mozart	10:05–10:20	<b>Andrzej M. Warchał</b>	Investigation of the influence of metallic additives on the thermomechanical properties of carbon-bonded refractory composites	Vesuvius, Feignies, France	T11	251

Wednesday	Mozart	10:20–10:35	<b>Ilona Jastrzębska</b>	Hercynite as active spinel	AGH University of Science and Technology, Kraków, Poland	T11	665
10:35–11:00 <b>Coffee Break</b>							
Wednesday	Mozart	11:00–11:25	<b>Sido Sinnema</b> <i>Invited</i>	Applied research on and application of refractory materials in an industrial environment	Ceramics Research Centre, Tata Steel Europe, Ijmuiden, the Netherlands	T11	868
Wednesday	Mozart	11:25–11:40	<b>Dániel Veres</b>	Investigation of the mechanical and thermomechanical properties of carbon-bonded alumina refractories with reduced carbon content due to nano- and microscale additives	Institute of Ceramic, Glass and Construction Materials, TU Bergakademie Freiberg, Freiberg, Germany	T11	756
Wednesday	Mozart	11:40–11:55	<b>Andreas Börger</b>	Granulated RTP magnesia stabilised zirconia for refractories	CARRD GmbH, Villach, Austria	T11	464
Wednesday	Mozart	11:55–12:10	<b>Enrico Storti</b>	Impact of surface functionalization of carbon-bonded filters on steel cleanliness	Institute of Ceramic, Glass and Construction Materials, TU Bergakademie Freiberg, Freiberg, Germany	T11	732
Wednesday	Mozart	12:10–12:25	<b>Hong Peng</b>	Microsilica as anti-hydration agent for basic refractory castables	Elkem Silicon Materials, Kristiansand, Norway	T11	854
Wednesday	Mozart	12:25–12:40	<b>Giuliana Bonvicini</b>	Development of aluminium titanate/porcelain ceramic matrix composites having high thermal shock resistance	CENTRO CERAMICO BOLOGNA, Bologna, Italy	T11	614
13:00–14:30 <b>Lunch</b>							

### THURSDAY, 13 July 2017, Room PÁTRIA

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Thursday	Pátria	08:30–08:55	<b>Yoshio Sakka</b> <i>Invited</i>	Texturing and mechanical properties of MAX phase ceramics and Zr(Hf)B <sub>2</sub> -base ultra-high temperature ceramics	National Institute for Materials Science, Tsukuba, Ibaraki, Japan	T03	301
Thursday	Pátria	08:55–09:20	<b>David E.J. Armstrong</b> <i>Invited</i>	Multiscale mechanical testing and characterization of SiC/SiC composites for accident tolerant nuclear fuel	Department of Material Science, University of Oxford, UK	T03	957
Thursday	Pátria	09:20–09:35	<b>Eugenio Zapata-Solvas</b>	A study on the feasibility of Zr <sub>n+1</sub> AlC <sub>n</sub> and Zr <sub>n+1</sub> SiC <sub>n</sub> MAX phases for future fission environments	Centre for Nuclear Engineering, Department of Materials, Imperial College London, London, UK	T03	218
Thursday	Pátria	09:35–09:50	<b>Véronique Gauthier-Brunet</b>	Synthesis and characterization of a new [Ti <sub>1-x</sub> Cu <sub>x</sub> ] <sub>3</sub> [Al(1-x)Cu <sub>x</sub> ]C <sub>2</sub> max phase solid solution with adjustable substitution rates	Institut PPRIME, CNRS/Université de Poitiers/ENSMA, Chasseneuil du Poitou-Futuroscope Cedex, France	T03	671
Thursday	Pátria	09:50–10:05	<b>Myroslav Karpets</b>	Structure, mechanical characteristics and stability of (Ti,Nb)-Al-C MAX-phases-based composites in hydrogen and oxidizing atmosphere	Institute for Superhard Materials of the National Academy of Sciences of Ukraine, Kiev, Ukraine	T03	662

Thursday	Pátria	10:05–10:20	<b>Olga Yu Kurapova</b>	The investigation of zirconia based precursors and ceramics via thermodynamic approaches	Institute of Chemistry, St Petersburg State University, St. Petersburg, Russia	T03	098
		10:30–11:00	<b>Coffee Break</b>				
Thursday	Pátria	11:00–11:25	<b>Dominique Hautcoeur</b>	Characterisation of anisotropic thermal conductivity of ceramic/metal composites using freeze casted ceramic preform	CRIBC - Centre de Recherche de l'Industrie Belge de la Céramique Research and Technological Support Department, Belgium	T03	181
Thursday	Pátria	11:25–11:40	<b>Abilio P. Silva</b>	CaZrO <sub>3</sub> -MgO multiphase ceramics obtained from natural and pure raw materials	Centre of Mechanics and Aerospace Science and Technologies (C-MAST-UBI), Universidade da Beira Interior, Covilhã, Portugal	T03	403
Thursday	Pátria	11:40–11:55	<b>Andy Nieto</b>	Towards sandphobic thermal barrier coatings (TBCs) – characterization of YSZ-based TBCs exposed to sand laden combustion flows	Vehicle Technology Directorate, US Army Research Laboratory, Aberdeen Proving Ground, MD, USA	T03	431
Thursday	Pátria	11:55–12:10	<b>Mieke W.J. Luiten-Olieman</b>	Silica membranes for selective separation of small gasses under hydrothermal conditions	Inorganic Membranes, MESA+ Institute for Nanotechnology, University of Twente, Enschede, Netherlands	T03	347
Thursday	Pátria	12:10–12:25	<b>Lu Bowen</b>	Sintering resistance of advanced plasma-sprayed thermal barrier coatings with vertical cracks and columnar structures	Forschungszentrum Jülich GmbH, Jülich, Germany	T03	182
Thursday	Pátria	12:25–12:40	<b>Christian Thieme</b>	Surface and volume crystallization in glasses from the system BaO-SrO-ZnO-SiO <sub>2</sub>	Fraunhofer Institute for Microstructure of Materials and Systems, Halle, Germany	T03	283
Thursday	Pátria	12:40–12:55	<b>Burak Cagri Ocak</b>	Microstructure and mechanical properties of NbB <sub>2</sub> /SiC-GNP composites	Istanbul Technical University, Department of Metallurgical and Materials Engineering, Maslak, Istanbul, Turkey	T03	952
		13:00–14:30	<b>Lunch</b>				
Thursday	Pátria	14:30–14:45	<b>Zdeněk Chlup</b>	Heat treatment effect on the microstructural changes in the vicinity of fibre matrix interfaces of SiOC based composites	Institute of Physics of Materials, v.v.i., ASCR, Brno, Czech Republic	T03	747
Thursday	Pátria	14:45–15:00	<b>Rafael Cabezas-Rodriguez</b>	Chemical interaction of CMAS with yttrium silicate environmental barrier coatings materials in combustion environments	Dpto. Física de la Materia Condensada, Universidad de Sevilla, Sevilla, Spain	T03	482
Thursday	Pátria	15:00–15:15	<b>Bora Maviş</b>	Near zero thermal expansion ZrW <sub>2</sub> O <sub>6</sub> /ZrO <sub>2</sub> composites	Department of Mechanical Engineering, Hacettepe University, Ankara, Turkey	T03	385
Thursday	Pátria	15:15–15:30	<b>Byung-Koog Jang</b>	Thermo-chemical properties of re-silicate environmental barrier coatings	Research Center for Structural Materials, NIMS, Tsukuba, Japan	T03	284
Thursday	Pátria	16:30–17:00	<b>Closing Ceremony</b>				
		17:00-17:30	<b>Farewell Drink</b>				

**THURSDAY, 13 July 2017, Room BARTÓK**

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Thursday	Bartók	08:30–08:55	<b>Jakub Vít</b> <i>Invited</i>	Static and dynamic magnetoelectric coupling in multiferroic hexaferrites	Department of Dielectrics, Institute of Physics, Czech Academy of Sciences, Prague, Czech Republic	T04	833
Thursday	Bartók	08:55–09:10	<b>Eung Soo Kim</b>	Quality factor control of MgTiO <sub>3</sub> -based ceramics by cation substitution	Department of Materials Engineering, Kyonggi University, Suwon, Gyeonggi-do, Korea	T04	680
Thursday	Bartók	09:10–09:25	<b>Chang Shu</b>	A 3-D phase diagram of lead-free z(Ba <sub>1-x</sub> Ca <sub>x</sub> )TiO <sub>3</sub> -(1-z)Ba(Zr <sub>y</sub> Ti <sub>1-y</sub> )O <sub>3</sub> piezoceramics system determined by Raman spectroscopy	School of Metallurgy and Materials, University of Birmingham, Birmingham, UK	T04	625
Thursday	Bartók	09:25–09:40	<b>Benjamin V.T. Hanby</b>	Magnetron sputtered ceramics for high temperature electrical insulation	Advanced Materials Research Group, Faculty of Engineering University of Nottingham, Nottingham, UK	T04	395
Thursday	Bartók	09:40–09:55	<b>Bjoern Mieller</b>	Effect of electrode configuration on dielectric strength testing	Division Advanced Technical Ceramics, Bundesanstalt für Materialforschung und –prüfung (BAM), Berlin, Germany	T04	474
Thursday	Bartók	09:55–10:10	<b>Rémy Ul</b>	Internal field in asymmetric P–E curves of BaTiO <sub>3</sub> :Co piezo ceramics by defect dipoles orientation	Thales Research & Technology-France, Palaiseau Cedex, France	T04	386
		10:30–11:00	<b>Coffee Break</b>				
Thursday	Bartók	11:00–11:15	<b>S. Suasmoro</b>	Local distortion determination of the (1-x)(K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> -x(Ba <sub>0.8</sub> Sr <sub>0.2</sub> )TiO <sub>3</sub> system and their influence on the electrical properties	Department of Physics, Institute of Technology ‘Sepuluh Nopember’ Surabaya, Surabaya, Indonesia	T04	116
Thursday	Bartók	11:15–11:30	<b>Andreas B. Richter</b>	Overcoming barriers of lead-free piezoceramics – spray-pyrolysis as a preferred synthesis route	Ceramic Powder Technology AS (Cerpotech), Tiller, Norway	T04	632
Thursday	Bartók	11:30–11:45	<b>Ashish Agarwal</b>	Investigation of crystal structure and magnetic properties of Ba and Nd co-doped BiFeO <sub>3</sub> multiferroics at morphotropic phase boundaries	Guru Jambheshwar University of Science and Technology Department of Physics, India	T04	122
Thursday	Bartók	11:45–12:00	<b>Hyunae Cha</b>	Size effects of BiT template on piezoelectric properties of textured BNKT ceramics by screen-printing method	Functional Nanopowder Materials Dept., Korea Institute of Materials Science, Changwon, Korea	T04	312
Thursday	Bartók	12:00–12:15	<b>Fidel Toldra-Reig</b>	Ionic conductor device for selective detection of hydrocarbons on diesel exhaust gases	Instituto de Tecnología Química (Universidad Politécnica de Valencia - Consejo Superior de Investigaciones Científicas), Valencia, Spain	T04	943
Thursday	Bartók	12:15–12:30	<b>Jean-Marc Tulliani</b>	New ZnO-based glass ceramic sensor for H <sub>2</sub> and NO <sub>2</sub> detection	Politecnico di Torino, Department of Applied Science and Technology, Torino, Italy	T04	817
		13:00–14:30	<b>Lunch</b>				

Thursday	Bartók	14:30–14:45	<b>Shahab Khamenehasi</b>	Flexible micro supercapacitor based on laser scribed graphene (LSG)	Department of Materials Engineering, University of Tabriz, Tabriz, Iran	T04	191
Thursday	Bartók	14:45–15:00	<b>Peter Supancic</b>	Electrical properties of ZnO varistors – inhomogeneities and anisotropic effects on the macroscopic and microscopic scale	Institut für Struktur- und Funktionskeramik, Montanuniversitaet Leoben, Leoben, Austria	T04	987
Thursday	Bartók	15:00–15:15	<b>M. Seref Sonmez</b>	Vanadium oxide production by solution combustion synthesis	Department of Metallurgical and Materials Engineering, Istanbul Technical University, Saryer, Istanbul, Turkey	T04	375
Thursday	Bartók	15:15–15:30	<b>Nikola Tasić</b>	Nanosized titania particles for application in photocatalysis	Institute for Multidisciplinary Research, Department of Materials Science, University of Belgrade, 11000 Belgrade, Serbia	T04	432

### THURSDAY, 13 July 2017, Room BRAHMS

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Thursday	Brahms	08:30–08:55	<b>Di Zhang</b> <i>Invited</i>	Bio-inspired functional materials converted from nature species	State Key Lab of Metal Matrix Composites, Shanghai Jiao Tong University, Shanghai, China	T08	846
Thursday	Brahms	08:55–09:20	<b>Wang Zhang</b> <i>Invited</i>	Bioinspired optical structure for enhancement infrared absorption	State Key Lab of Metal Matrix Composites, Shanghai Jiao Tong University, Shanghai, China	T08	968
Thursday	Brahms	09:20–09:35	<b>Gerhard Seifert</b>	Experiment-based, predictive simulation of ceramic high-temperature processes	Fraunhofer-Center for High Temperature Materials and Design HTL, Bayreuth, Germany	T08	371
Thursday	Brahms	09:35–09:50	<b>Holger Friedrich</b>	High temperature characterization using novel thermo-optical measuring devices	Fraunhofer-Institut für Silicatforschung ISC, Zentrum HTL Ceramics, Bayreuth, Germany	T08	328
Thursday	Brahms	09:50–10:05	<b>Nicolas Clavier</b>	<i>In situ</i> HT-ESEM observation of sintering first stage of MO <sub>2</sub> (M = Ce, Th, U) microspheres	ICSM, UMR 5257 CEA/CNRS/ENSCM/Univ. Montpellier, France	T08	019
Thursday	Brahms	10:05–10:20	<b>Selom K.D. Kaligora</b>	Identification of mechanical properties of perovskite membranes of type La <sub>(1-x)</sub> Sr <sub>(x)</sub> Fe <sub>(1-y)</sub> Ga <sub>(y)</sub> O <sub>(3-δ)</sub> versus temperature and oxygen partial pressure by inverse method	Univ. Orléans, PRISME, Orléans, France	T08	610
		10:30–11:00	<b>Coffee Break</b>				
Thursday	Brahms	11:00–11:25	<b>Philippe Sciau</b> <i>Invited</i>	Transmission electron microscopy: emerging investigations for cultural heritage materials	CEMES, CNRS, Toulouse University, Toulouse, France	T10	081
Thursday	Brahms	11:25–11:40	<b>Ljiljana Damjanović</b> <i>Invited</i>	Characterization of the Medieval pottery from the Studenica Monastery, Serbia, a UNESCO World Heritage Site	Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia	T10	215

Thursday	Brahms	11:40–11:55	<b>Philippe Colomban</b> <i>Invited</i>	Non-invasive on-site analysis of enamelled pottery, glass and metal. State of the art	CNRS - Sorbonne Universités, UPMC MONARIS, Paris, France	T10	028
Thursday	Brahms	11:55–12:10	<b>Lucilla Fabrizi</b>	Preliminary results on polished surface of Phoenician red slip ware	Department of Earth Sciences, Sapienza University of Rome, Rome, Italy	T10	256
Thursday	Brahms	12:10–12:25	<b>Florica Matau</b>	A multi-analytical investigation of the Cucuteni pottery technology from Eastern Romania	Department of Interdisciplinary Research – Field Science, Alexandru Ioan Cuza University of Iasi, Iasi, Romania	T10	806
Thursday	Brahms	12:25–12:40	<b>Jolien Van Pevenage</b>	Combined spectroscopic analysis to study ceramics	Department of Analytical Chemistry, Ghent University, Ghent, Belgium	T10	622
		13:00–14:30	<b>Lunch</b>				
Thursday	Brahms	14:30–14:45	<b>Hyung Goo No</b>	Chromatic characteristics of traditional Korean copper glaze with the addition of copper oxide and sintering atmosphere	Korea Institute of Ceramic Engineering & Technology, Icheon, Korea	T10	196
Thursday	Brahms	14:45–15:00	<b>Trinitat Pradell</b>	Jun ware colours: chemistry and nanostructure	Universitat Politècnica de Catalunya, BarcelonaTech, Barcelona, Spain	T10	079
Thursday	Brahms	15:00–15:15	<b>Belinda J Colston</b>	18 <sup>th</sup> and 19 <sup>th</sup> century garden ceramics: investigation of manufacturers' stamps in relation to compositional change	School of Chemistry, University of Lincoln, Lincoln, UK	T10	063
Thursday	Brahms	15:15–15:30	<b>Frederic Surmely</b>	Geochemical characterization of Medieval pottery from the Auvergne region of France by portable X-ray fluorescence analysis	CNRS / DRAC, Clermont-Ferrand, France	T10	016

### THURSDAY, 13 July 2017, Room LEHÁR

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Thursday	Lehár	08:30–08:55	<b>Paola Palmero</b> <i>Invited</i>	Design and processing of novel biomedical-grade nanocomposite ceramics: tailoring composition, microstructure and properties	Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy	T06	826
Thursday	Lehár	08:55–09:20	<b>José Maria Ferreira</b> <i>Invited</i>	Engineering bioactive glasses with well-balanced overall properties	Department of Materials and Ceramics Engineering, University of Aveiro, Aveiro, Portugal	T06	370
Thursday	Lehár	09:20–09:35	<b>Carmen Baudin</b>	Diopside-tricalcium phosphate bioactive ceramics	Instituto de Cerámica y Vidrio, CSIC, Madrid, Spain	T06	269
Thursday	Lehár	09:35–09:50	<b>Danai Poulidi</b>	Evaluation of prospective perovskite mediators for magnetic fluid hyperthermia	School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast, UK	T06	427
Thursday	Lehár	09:50–10:05	<b>Jimmy Xu</b>	Bioceramic with self-powered fluidic delivery and lubrication	School of Engineering, Brown University, Providence, RI, USA	T06	294

Thursday	Lehár	10:05–10:20	<b>Camille Ortali</b>	Influence of carbonate groups on the low-temperature consolidation by spark plasma sintering of phosphocalcic bioceramics	SPCTS, Université de Limoges, CNRS, ENSCI, Limoges, France	T06	291
Thursday	Lehár	10:20–10:35	<b>Michele Bianchi</b>	Osteogenic differentiation of human dental pulp stem cells on bone-apatite like coatings obtained by Pulsed Electron Deposition	NanoBiotechnology Laboratory, Rizzoli Orthopaedic Institute, Bologna, Italy	T06	338
		10:35–11:00	<b>Coffee Break</b>				
Thursday	Lehár	11:00–11:25	<b>Martijn van Griensven</b> <i>Invited</i>		Klinikum rechts der Isar Department of Trauma Surgery, Germany	T06	950
Thursday	Lehár	11:25–11:50	<b>George Stan</b> <i>Invited</i>	The prospects for bio-glass implant coatings	National Institute of Materials Physics, Magurele-Ifov, Romania	T06	080
Thursday	Lehár	11:50–12:15	<b>Norbert K. Schneider</b> <i>Invited</i>	Bone in-growth: the next step in ceramic orthopedic implants	CeramTec GmbH, Medical Products Division, Germany	T06	884
Thursday	Lehár	12:15–12:30	<b>Monika Furko</b>	Development and characterization of multi-element doped hydroxyapatite coatings for orthopaedic applications	Centre for Energy Research, Hungarian Academy of Sciences, Budapest, Hungary	T06	206
Thursday	Lehár	12:30–12:45	<b>Le Fu</b>	Translucent zirconia-silica glass ceramic for dental restoration: structure related mechanical strength	Applied Materials Science, Department of Engineering Science, Uppsala University, Uppsala, Sweden	T06	189
Thursday	Lehár	12:45–13:00	<b>Laurent Boilet</b>	Micro-patterning of calcium phosphate bioceramics with femtosecond laser	Belgian Ceramic Research Centre, member of EMRA, Mons, Belgium	T06	188
		13:00–14:30	<b>Lunch</b>				
Thursday	Lehár	14:30–14:45	<b>Siamak Eqtesadi</b>	Spark plasma sintering of 13-93 bioglass composites reinforced with <i>in situ</i> reduced graphene oxide	Abalonyx AS, Oslo, Norway	T06	239
Thursday	Lehár	14:45–15:00	<b>Bryan W. Stuart</b>	Phosphate based glass/ceramic coatings for therapeutic ion leaching in orthopaedic applications	Department of Mechanical, Materials and Manufacturing Engineering (Advanced Materials Research Group), University of Nottingham, UK	T06	101
Thursday	Lehár	15:00–15:15	<b>Victor M. Orera</b>	Design and characterization of porous ceramic membranes for passive sampler of water contaminants	Instituto de Ciencia de Materiales de Aragón, CSIC-Universidad de Zaragoza, Zaragoza, Spain	T06	801
Thursday	Lehár	15:15–15:30	<b>Matteo Frasnelli</b>	Flash sintering of TCP	Department of Industrial Engineering, University of Trento, Trento, Italy	T06	415
Thursday	Lehár	15:30–15:45	<b>Amirsalar Khandan</b>	Novel nanocomposite ceramic scaffold fabricated via 3D printing for cancer therapy application	Mechanical Engineering Department, Eastern Mediterranean University, North Cyprus, Gazimağusa, TRNC, Mersin 10, Turkey	T06	135

Thursday	Lehár	15:45–16:00	<b>Pooya Torab-Ahmadi</b>	Study of effective parameters on crystallization behaviour in the erbium-doped SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -PbF <sub>2</sub> glass ceramic system for Ir-Vis upconversion applications	Ceramic Division, Department of Materials, Iran University of Science and Technology (IUST), Narmak, Tehran, Iran	T06	410
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### THURSDAY, 13 July 2017, Room LISZT

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Thursday	Liszt	08:30–08:55	<b>Ivano E. Castelli</b> <i>Invited</i>	High-throughput screening of ceramic materials for light absorption	Department of Chemistry, University of Copenhagen, Copenhagen, Denmark	T05	862
Thursday	Liszt	08:55–09:20	<b>Nicholas C. Bristowe</b> <i>Invited</i>	Design principles for perovskite photoferroics	School of Physical Sciences, University of Kent, Canterbury, UK	T05	899
Thursday	Liszt	09:20–09:35	<b>Ondrej Jankovsky</b>	Phase equilibria modelling in Bi-Sr-Co-O system involving phases with variable oxygen stoichiometry	Department of Inorganic Chemistry, University of Chemistry and Technology Prague, Prague, Czech Republic	T05	053
Thursday	Liszt	09:35–09:50	<b>Melike Mercan Yildizhan</b>	Fingerprinting compounds in Li <sub>2</sub> O-TiO <sub>2</sub> phase diagram with electron energy loss spectroscopy	Sabanci University, Faculty of Engineering and Natural Sciences, Istanbul, Turkey	T05	527
Thursday	Liszt	09:50–10:05	<b>Jens Q. Adolphsen</b>	Development of porous electrodes with tailored microstructure for high temperature and pressure alkaline electrolysis cells (HTP-AEC)	Department of Energy Conversion and Storage, Technical University of Denmark, Roskilde, Denmark	T05	574
Thursday	Liszt	10:05–10:20	<b>Alessia Masini</b>	Mechanical characterisation of multi-layered ceramic systems for SOC	Institute of Physics of Materials, AS CR, Brno, Czech Republic	T05	484
Thursday	Liszt	10:20–10:35	<b>Elisa Mercadelli</b>	Screen printed cathode layers with enhanced adhesion through plasma-modification of substrates surface	Institute of Science and Technology for Ceramics, National Council of Research (ISTEC-CNR), Faenza, Italy	T05	631
		10:35–11:00	<b>Coffee Break</b>				
Thursday	Liszt	11:00–11:15	<b>Falk Schulze-Küppers</b>	Development of asymmetric dual phase composite oxygen transport membranes	Forschungszentrum Jülich, Institute of Energy and Climate Research, Juelich, Germany	T05	706
Thursday	Liszt	11:15–11:30	<b>Jon Echeberria</b>	Development of porous SiC using the sacrificial template technique for nuclear fusion applications	Ceit-IK4 Technology Center and TECNUN (Universidad de Navarra), San Sebastián, Spain	T05	606
Thursday	Liszt	11:30–11:45	<b>Imrana I. Kabir</b>	Effects of substrate contamination of photocatalytic TiO <sub>2</sub> thin films	School of Materials Science and Engineering, UNSW Sydney, Sydney, Australia	T05	303
Thursday	Liszt	11:45–12:00	<b>Aleksey Yaremchenko</b>	Designing the composite SrVO <sub>3</sub> -SrTiO <sub>3</sub> anodes for hydrocarbon-fueled solid oxide fuel cells	CICECO – Aveiro Institute of Materials, Department of Materials and Ceramic Engineering, University of Aveiro, Aveiro, Portugal	T05	611
Thursday	Liszt	12:00–12:15	<b>Ali Semih Yurttaş</b>	Preparation of alumina supports for the fabrication of high flux thin membranes	Department of Chemical Engineering, Ankara University, Ankara, Turkey	T05	350



Thursday	Liszt	12:15–12:30	Wendelin Deibert	Stability and sintering of magnesium oxide as a substrate material for lanthanum tungstate membranes	Forschungszentrum Jülich GmbH, Institute of Energy and Climate Research, Materials Synthesis and Processing (IEK-1), Jülich, Germany	T05	383
Thursday	Liszt	12:30–12:45	Hesam Alddin Mohammadi	Non hydrophobic CNT/mesoporous carbon monolith as high energy performance flow through electrodes in CDI process	Center of Excellence for Ceramic Materials in Energy and Environment Applications, School of Metallurgy and Materials Engineering, Iran University of Science and Technology (IUST), Narmak, Tehran, Iran	T05	262
Thursday	Liszt	12:45–13:00	Gurpreet Singh	Three-dimensional polymer-derived ceramic composite paper electrode for electrochemical energy storage applications	Kansas State University, USA	T05	046
		13:00–14:30	Lunch				
Thursday	Liszt	14:30–14:45	David Udomsilp	Optimization of (La,Sr)(Co,Fe)O <sub>3</sub> cathodes aiming on high performance and enhanced durability in metal-supported fuel cells	Forschungszentrum Jülich GmbH, Institute of Energy and Climate Research – Materials Synthesis and Processing (IEK-1), Jülich, Germany	T05	175
Thursday	Liszt	14:45–15:00	Samantha Bourrioux	ZnFe <sub>2</sub> O <sub>4</sub> /C nanoparticles by laser pyrolysis: new anode material for lithium-ion batteries	CEA, IRAMIS, NIMBE, CNRS UMR 3685, GIF-SUR-YVETTE, France; Nanyang Technological University, Singapore	T05	198
Thursday	Liszt	15:00–15:15	Peyman Khajavi	Mechanical properties of porous Ni(O)-YSZ solid oxide cell supports with varying Y-content	Department of Energy Conversion and Storage, Technical University of Denmark, Roskilde, Denmark	T05	392
Thursday	Liszt	15:15–15:30	Mateusz Tarach	Terbium-doped perovskite-related proton conductors	Instituto de Tecnología Química (Universidad Politécnica de Valencia - Consejo Superior de Investigaciones Científicas), Valencia, Spain	T05	930
Thursday	Liszt	15:30–15:45	Sophie Bresch	Pressure assisted sintering of tape casted calcium cobaltite	Division Advanced Technical Ceramics, Bundesanstalt für Materialforschung und –prüfung (BAM), Berlin, Germany	T05	473
Thursday	Liszt	15:45–16:00	Erkul Karacaoglu	The photoluminescent properties of rare-earth Sm <sub>1,90</sub> Eu <sub>0,10</sub> Zr <sub>2</sub> O <sub>7</sub> zirconate pyrochlore	Department of Metallurgy and Materials, Karamanoglu Mehmetbey University, Faculty of Engineering, Turkey	T05	770
Thursday	Liszt	16:00–16:15	Andreas Egger	Cr/Si-poisoning of La <sub>2</sub> NiO <sub>4+δ</sub> used as air electrode in solid oxide cells	Chair of Physical Chemistry, Montanuniversitaet Leoben, Leoben, Austria	T05	556

### THURSDAY, 13 July 2017, Room MOZART

Day	Room	Time	Name	Title	Affiliation	Topic	Abstract ID
Thursday	Mozart	08:30–08:45	Maxim Sokol	Inverse hall-petch relation in nanostructured oxide ceramics fabricated by high-pressure SPS	Department of Materials Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel	T02	644

Thursday	Mozart	08:45–09:00	<b>Martin Kachlik</b>	Processing of single phase EuTiO <sub>3</sub> bulk ceramics – the effect of processing conditions	CEITEC BUT, Brno University of Technology, Brno, Czech Republic	T02	784
Thursday	Mozart	09:00–09:15	<b>Séverin Chaigne</b>	Study of the shaping and sintering ability of lanthanide oxide powders	Laboratoire Sciences des Procédés Céramiques et de Traitements de Surface, UMR CNRS 7315, Limoges, France	T02	569
Thursday	Mozart	09:15–09:30	<b>Burak Cagri Ocak</b>	Solid solution formation and mechanical properties of ZRC ceramics enhanced by tic particles and graphene	Istanbul Technical University, Department of Metallurgical and Materials Engineering, Maslak, Istanbul, Turkey	T02	493
Thursday	Mozart	09:30–09:45	<b>Vaclav Pouchly</b>	<i>In situ</i> study of densification at high heating rates	BrnoUniversity of Technology, CEITEC BUT, Brno, Czech Republic	T02	766
Thursday	Mozart	09:45–10:00	<b>Laurent Brissonneau</b>	Joining steel to yttria doped hafnia with a reactive brazing for a potentiometric oxygen sensor in sodium	CEA/DEN/DTN/SMTA/LIPC, Cadarache, St-Paul lez Durance, France	T02	359
Thursday	Mozart	10:00–10:15	<b>Seyed Amir Ghaffari</b>	Densification and mechanical behavior of spark plasma sintered Ta <sub>0.8</sub> Hf <sub>0.2-x</sub> Zr <sub>x</sub> C (x = 0–0.2)	Iran University of Science and Technology, Tehran, Iran	T02	021
		<b>10:30–11:00</b>	<b>Coffee Break</b>				
Thursday	Mozart	11:00–11:25	<b>Alberto Vomiero</b> <i>Invited</i>	Composite ceramic nanostructures for high-efficiency sunlight conversion	Division of Materials Science, Department of Engineering Sciences and Mathematics, Luleå University of Technology, Luleå, Sweden	T01	836
Thursday	Mozart	11:25–11:40	<b>Alberto Moure</b>	Role of the interfaces in metal-ceramic nanocomposites processed by novel routes in air	Instituto de Cerámica y Vidrio, CSIC, Madrid, Spain	T01	145
Thursday	Mozart	11:40–11:55	<b>Koji Morita</b>	Fabrication of transparent MgAl <sub>2</sub> O <sub>4</sub> spinel using spark-plasma-sintering (SPS) technique by suppressing discoloration	National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan	T01	705
Thursday	Mozart	11:55–12:10	<b>Yoshikazu Suzuki</b>	MgTi <sub>2</sub> O <sub>5</sub> and related pseudobrookite-type ceramics	Faculty of Pure and Applied Sciences, University of Tsukuba, Ibaraki, Japan	T01	523
Thursday	Mozart	12:10–12:25	<b>Lu Song</b>	Laser melting initiated deeper structural heterogeneity in oxide ceramics	School of Materials Science and Engineering, Tsinghua University, Beijing, P. R. China	T01	720
Thursday	Mozart	12:25–12:40	<b>Frantisek Lofaj</b>	Tribological behavior of HiTUS W-doped hydrogenated carbon based coatings	Institute of Materials Research of SAS, Košice, Slovak Republic	T01	268
Thursday	Mozart	12:40–12:55	<b>Luca Zoli</b>	Borothermal reduction of group IV and V metal oxide with NaBH <sub>4</sub> : synthesis and characterization of metal diboride nanocrystals	CNR-ISTEC, National Research Council of Italy, Institute of Science and Technology for Ceramics, Faenza, Italy	T01	526
		<b>13:00–14:30</b>	<b>Lunch</b>				
Thursday	Mozart	14:30–14:45	<b>Ousseïni Marou Alzouma</b>	Influence of different external lubricants and their deposition mode on nuclear fuel green pellets during cold compaction	Laboratoire des Combustibles Uranium, CAD/DEN/DEC/SFER/LCU CEA Cadarache, Saint-Paul-Lez Durance, France	T01	095

Thursday	Mozart	14:45–15:00	<b>Sophie Cailliet</b>	Synthesis of Ce-TZP – Al <sub>2</sub> O <sub>3</sub> for dental applications – shaping by stereolithography	CEA Grenoble LITEN/DTNM/SERE/LRVM, France	T01	125
Thursday	Mozart	15:00–15:15	<b>Johannes Homa</b>	Additive manufacturing of monolithic catalysts	Lithoz GmbH, Vienna, Austria	T01	186
Thursday	Mozart	15:15–15:30	<b>Burcu Apak</b>	Light weight metallic additive effect on ballistic performance of spark plasma sintered B <sub>4</sub> C	Metallurgical and Materials Engineering Department, Istanbul Technical University, Istanbul, Turkey	T01	270
Thursday	Mozart	15:30–15:45	<b>Pavel V. Evdokimov</b>	Osteoconductive ceramics of complex geometry fabricated by stereolithography	Materials Science Department, Lomonosov Moscow State University, Moscow, Russia	T01	637
Thursday	Mozart	15:45–16:00	<b>Simge Çınar</b>	Hydration layer: a potential key to manage colloidal processing of oxide nanopowder suspensions	Dept. of Metallurgical and Materials Engineering, Middle East Technical University, Ankara, Turkey	T01	956