

The 14th ECerS Conference for Young Scientists in Ceramics

Oral Presentations

Preliminary List of Participants (1st September, 2021)

Advanced Ceramics

1. Apoorv Kulkarni
University of Trento, Italy
Cellular ceramics from integrating FDM 3D printing and Polymer derived ceramics
2. Anna-Katharina Hofer, Irina Kraveva, Martin Schwentenwein, Raul Bermejo
Montanuniversitaet Leoben, Austria
Stereolithographic 3D-printing of textured alumina microstructures
3. Mélanie Rousselle, Florence Ansart, Thomas Herisson De Beauvoir, Guillaume Fradet, Claude Estournes
Centre Inter-universitaire de Recherche et d'Ingénierie des Matériaux (CIRIMAT), Toulouse, France
Below 600°C Spark Plasma Sintering of Lanthanum Phosphate
4. Andreas Wohninsland, Rachel Broughton, Jacob L. Jones, Jürgen Rödel, Lalitha Kodumudi Venkataraman
Technical University of Darmstadt, Germany
Quenching-induced changes in crystallographic structure and polarized volume of $94\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-}6\text{BaTiO}_3$ piezoceramics
5. Vladimír Prajzler, Vijay Bijalwan, Jiří Erhart, Hua Tan, Pavla Roupcová, Dinara Sobola, Pavel Tofel, Karel Maca
Brno University of Technology, Technical University of Liberec, Czech Republic
Rapid rate sintering and spark plasma sintering of $(\text{Ba}_{0.85}\text{Ca}_{0.15})(\text{Zr}_{0.1}\text{Ti}_{0.9})\text{O}_3$ lead-free piezoelectric ceramics
6. Vlad-Alexandru Lukacs¹, Lavinia Curecheriu¹, Oana Condurache², Maria Teresa Buscaglia³, Gabriel Caruntu^{4,5}, Aurelian Rotaru⁵, Liliana Mitoseriu¹
¹Dielectrics, Ferroelectrics & Multiferroics Group, Physics Faculty, Al. I. Cuza Univ. Iasi, Romania
²Electronic Ceramics Dept., Jozef Stefan Institute, Ljubljana, Slovenia
³ICMATE-CNR, Genoa, Italy
⁴Chemistry & Biochemistry Dept., Central Michigan Univ., MI, USA
⁵Electrical Eng. & Computer Sci. Faculty & MANSiD Res. Center, Stefan Cel Mare Univ., Suceava, Romania
Comparative study of BaTiO_3 nanoceramics produced by nanocube and sphere-like nanoparticles with similar sizes
7. Daniela V. Lopes, Aleksey D. Lisenkov, Jorge R. Frade, Andrei V. Kovalevsky
CICECO – Aveiro Institute of Materials, Department of Materials and Ceramic Engineering, University of Aveiro, Portugal
Electrochemical recovery of Fe from porous iron-rich ceramic cathodes for possible red mud valorization
8. Kiryl Zakharchuk, Andrei Kovalevsky, Aleksey Yaremchenko
CICECO – Aveiro Institute of Materials, Department of Materials and Ceramic Engineering, University of

Aveiro, Portugal

Formation of highly porous BaZr_{0.85}Y_{0.15}O₃ ionic conductive ceramics by emulsification

9. Roman Papšík, Oldřich Ševeček, Abdullah Jabr, Josef Schlacher, Raul Bermejo
Chair of Structural and Functional Ceramics, Department of Materials Science, Montanuniversität Leoben, Austria
Prediction of initiation of a finite crack in ceramics

10. Peter Veteška¹, K. Durcová¹, J. Feranc², K. Tomanová², M. Janek^{1,3}
¹*Slovak University of Technology, Faculty of Chemical and Food Technology, Department of Inorganic Materials, Bratislava, Slovakia*
² *Slovak University of Technology, Faculty of Chemical and Food Technology, Department of Plastics, Rubber and Fibbers, Bratislava, Slovakia*
³ *Comenius University, Faculty of Natural Sciences, Department of Physical and Theoretical Chemistry, Bratislava, Slovakia*
Resorbable composite material for filament-based additive manufacturing

11. Denata Syla¹, José Rodrigues¹, Gwendolen Reilly¹, Frederik Claeysens²
¹*University of Sheffield, INSIGNEO Inst Silico Med, Sheffield, S Yorkshire, England*
²*University of Sheffield, Kroto Res Inst, Dept Mat Sci & Eng, Sheffield, S Yorkshire, England*
Synthesis of multi-substituted hydroxyapatite using a continuous lateral flow method

12. Martina Orlovská¹, Ľuboš Bača¹, Peter Veteška¹, Zora Hajdúchová¹, Jozef Feranc², Marián Janek^{1,3}
¹*Department of Inorganic Materials, Institute of Inorganic Chemistry, Technology and Materials FCHPT STU, Bratislava, Slovakia*
²*Department of Plastics, Rubber and Fibres, Faculty of Chemical and Food Technology, Slovak University of Technology, Bratislava, Slovakia*
³*Department of Physical and Theoretical Chemistry, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia*
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13. Abolghasem Nourmohammadi, Elham Amiri
Department of Nanotechnology, Faculty of Chemistry, University of Isfahan, Isfahan, Iran
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14. Abdullah Jabr, Josef Schlacher, Raul Bermejo
Department of Materials Science, Montanuniversitaet Leoben, Leoben, Austria
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15. Abolghasem Nourmohammadi, Nima Fakhrolmobasheri
Department of Nanotechnology, Faculty of Chemistry, University of Isfahan, Isfahan, Iran
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16. Katarzyna Matysiak, Monika Niejadlik, Dawid Kozień, Zbigniew Pędzich
Faculty of Materials Science and Ceramics, AGH University of Science and Technology, Kraków, Poland
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17. Anna-Katharina Hofer¹, Irina Krалеva¹, Martin Schwentenwein², Raul Bermejo¹
¹*Department of Materials Science, Montanuniversität Leoben, Leoben, Austria*
²*Lithoz GmbH, Wien, Austria*
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18. [Islam Bouakaz](#)^{1,2}, Valentin Henri¹, Gregory Nolens¹, David Grossin²
¹CERHUM - PIMW, Liège, Belgium
²Centre Inter-universitaire de Recherche et d'Ingénierie des Matériaux - UMR CNRS 5085, Université Toulouse, Toulouse, France
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¹Department of Nanotechnology, Faculty of Chemistry, University of Isfahan, Isfahan, Iran
²Department of Physics, University of Isfahan, Isfahan, Iran,
³Department of Physics, Isfahan University of technology, Isfahan, Iran
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¹MARMARA University Department of Metallurgical & Materials Engineering, İstanbul, Turkey
²MARMARA University Department of Physics, İstanbul, Turkey
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¹Tubitak MRC Materials Institute, Gebze, Kocaeli, Turkey
²Gebze Technical University, Department of Material Science and Engineering, Kocaeli, Turkey
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¹Department of Silicates and Macromolecular Compounds, AGH University of Science and Technology, Cracow, Poland
²Department of Industrial Engineering, University of Padova, Padova, Italy
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Department of Mechanical Engineering, Gazi University, Ankara, Turkey
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26. [Owais Aqtash](#), András Sápi
University of Szeged, Szeged, Hungary
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27. Anasser Imane
Cadi Ayyad University, Marrakech, Morocco
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28. Nicolas Somer, Florian Jean, M. Lasgorceix, Anthony Thuault, Cathy Delmotte, Nicolas Preux, Fabrice LMCPA/*Université Polytechnique Hauts-de-France, Maubeuge, France*
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29. Mohammed Tihtih, Jamal Eldin F. M. Ibrahim, Emese Kurovics, László A. Gömze
Institute of Ceramics and Polymer Engineering, University of Miskolc, Miskolc, Hungary
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Institute for Materials Science and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, Essen, Germany
Faculty of Physics and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, Duisburg, Germany
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Cadi Ayyad University, Marrakech Morocco
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Bombay, India
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Frantsevich Institute for Problems of Materials Science, Ukraine NASU, Kiev, Ukraine
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Institute of Physical Materials Science SB RAS, Ulan-Ude, Russian Federation
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AGH University of Science and Technology, Kraków, Poland

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Institute of Technical Sciences of SASA, Belgrade, Serbia, Belgrade, Serbia
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“VINČA” Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia
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AGH University of Science and Technology in Cracow, Cracow, Poland
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Frantsevich Institute for Problems in Materials Science, Kiev, Ukraine
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⁴*University of Chinese Academy of Sciences, China*

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¹*Institute of Inorganic Chemistry, Slovak Academy of Sciences, Bratislava, Slovakia*
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³*Centre of Excellence "CEXTREME LAB", Vinča Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia*
⁴*Institute of Physics of Materials, Czech Academy of Sciences, Brno, Czech Republic*
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Department of Physical Chemistry, "Vinča" Institute of Nuclear Sciences-National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia
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Department of Glass and Ceramics, Faculty of Chemical Technology, University of Chemistry and Technology, Prague, Czech Republic
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AGH University of Science and Technology, Cracow, Poland

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Frantsevich Institute for Problems in Materials Science, Kyiv, Ukraine
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Institute of Applied Geoscience, Institute of Materials Science, Darmstadt, Germany
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IRCER - Institute for Research on Ceramics, Limoges, France
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Gdańsk University of Technology, Gdańsk, Poland

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69. [Qirong Chen](#)

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Physics Department, Faculty of Science, Al-Azhar University, Cairo, Egypt

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72. [Harshit Tripathi](#), Sushil Kumar, Jagmohan Datt Sharma, Sumit Bhardwaj

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St. Petersburg University, Peterhof, St. Petersburg, Russia

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University of Tehran, Niroo Research Institute, Tehran, Iran

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Jožef Stefan Institute, Ljubljana, Slovenia

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Laboratory for High Performance Ceramics, Empa; Metoxit AG, Dübendorf, Switzerland
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NUST "MISIS", Moscow, Russia
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Pedagogical University of Krakow, Kraków, Poland
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86. [Maxim Arsentev](#)
Institute of Silicate Chemistry, Russian Academy of Sciences, St. Petersburg, Russia
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University of Belgrade-Institute for Multidisciplinary Research, Belgrade, Serbia
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University Duisburg-Essen, Essen, Germany
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89. Milica Stefanović, Rada Petrović, Ivana Lukić, Đorđe Janačković
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University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia
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Institute of Technical Sciences of SASA, Belgrade, Serbia
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Gdańsk University of Technology, Gdańsk, Poland
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University of Tehran, Tehran, Iran
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