4th International Conference and Expo on
Ceramics and Composite Materials
May 14-15, 2018 | Rome, Italy
Day 1 May 14, 2018

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<th>Time</th>
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<tr>
<td>09:00-9:30</td>
<td>Registrations</td>
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<td>09:30-09:55</td>
<td>Opening Ceremony</td>
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<tr>
<td>09:55-10:00</td>
<td>Introduction</td>
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<td>10:00-10:35</td>
<td>Title: Band-gap engineering and morphological control of TiO₂ nanoparticles by a semi-solvothermal route &lt;br&gt; David G Calatayud, Instituto de Ceramica y Vidrio – CSI, Spain</td>
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<td>10:35-10:50</td>
<td>Networking and Refreshments Break 10:35-10:50 @ Foyer</td>
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<td>10:50-11:25</td>
<td>Title: Effectiveness in UV absorption of hierarchical nano ZnO-microTiO₂ composites with photodegradation inhibition &lt;br&gt; Julian Reinosa, Institute of Ceramics and Glass (CSIC), Spain</td>
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<td>11:25-11:55</td>
<td>Title: Effect of the homogenization treatment on the microstructure and the electrical conductivity of 3YTZP/graphene nanoplatelet composites &lt;br&gt; Rosalia Poyato, CSIC-Universidad de Sevilla, Spain</td>
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<td>11:55-12:25</td>
<td>Title: Performance of granite dust as filler in ordinary portland cement &lt;br&gt; Atiemo E, CSIR-Building and Road Research Institute, Ghana &lt;br&gt; Title: Development of lead-free perovskite ceramics with tunable optical and magnetic properties at room temperature &lt;br&gt; Santiranjan Shannigrahi, Institute of Materials Research and Engineering, Singapore</td>
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<td>12:25-12:55</td>
<td>Title: Fabrication and characterisation of high-frequency ultrasonic transducers based on piezoelectric thick films and porous backing &lt;br&gt; Danjela Kuscer, Jozef Stefan Institute, Slovenia &lt;br&gt; Title: Preparation of Zirconium-based porous ultra-high temperature ceramics via sol-gel precursors &lt;br&gt; Xiao Huang, Shanghai Institute of Ceramics, China</td>
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<td>13:40-14:05</td>
<td>YRF: Role of sintering method on graphene/3YTZP composites &lt;br&gt; Cristina López-Pernía, Universidad de Sevilla, Spain</td>
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<td>14:05-14:30</td>
<td>YRF: Process development for the ceramic injection molding of oxide short fiber reinforced CMCs &lt;br&gt; Hasan Metin Tüümen, Karlsruhe Institute of Technology, Germany &lt;br&gt; Title: Composite materials from clays and clay mineral: Synthesis, characterization and electroanalytical applications &lt;br&gt; Tonle Kenfack Ignas, University of Dschang, Cameroon</td>
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<td>15:00-15:30</td>
<td>Title: Fabrication and characterisation of high-frequency ultrasonic transducers based on piezoelectric thick films and porous backing &lt;br&gt; Danjela Kuscer, Jozef Stefan Institute, Slovenia &lt;br&gt; Title: Preparation of zZirconium-based porous ultra-high temperature ceramics via sol-gel precursors &lt;br&gt; Xiao Huang, Shanghai Institute of Ceramics, China</td>
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<td>15:30-16:00</td>
<td>YRF: 3D-printing of ceramic-based porous structures using stereolithography &lt;br&gt; Dieraert Axel, CEA, DAM, France</td>
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Sessions: Composite Materials | Advanced Ceramic Materials  
Session Chair: David G Calatayud, Instituto de Ceramica y Vidrio – CSI, Spain  

Keynote Forum  

Sessions: Ceramics applications | Porous Ceramics | Ceramic Industry and Environment  
Session Chair: David G Calatayud, Instituto de Ceramica y Vidrio – CSI, Spain  

Networking and Refreshments Break 16:00-16:15 @ Foyer  

Panel Discussion
Day 2    May 15, 2018
Olimpica 2

Keynote Forum

10:00-10:05  Introduction
10:05-10:40  Title: Bonding structure and deformation mechanisms in ultra-hard ceramics
             Ghatu Subhash, University of Florida, USA

Networking and Refreshments Break 10:40-11:00 @ Foyer

Sessions: Functional Ceramics and Inorganics | Materials and Innovative Processing Ideas | Ceramics and Art | Ceramics and Glasses

Session Chair: Ghatu Subhash, University of Florida, USA
Session Co-Chair: Nikolay Makarov, D.Mendeleev University of Chemical Technology of Russia, Russia

11:00-11:30  Title: Ceramics in the system ZrO$_2$-Al$_2$O$_3$ with eutectic additives
             Nikolay Makarov, D.Mendeleev University of Chemical Technology of Russia, Russia

11:30-12:00  Title: Homogeneous precipitation of ceramic powders preparation from sulfate-sulfite-ammonia system
             Satoshi Sugita, University of Guanajuato, Mexico

12:00-12:30  Title: Use of ceramic materials in street art
             Fidan Tonza, Ondokuz Mayis University, Turkiye

Lunch Break 12:30-13:30 @ Hotel Restaurants

13:30-14:00  Title: Usage of boron waste In transparent glazes
             Fidan Tonza, Ondokuz Mayis University, Turkiye

14:00-14:30  Title: In Vivo behaviour of Ag$^+$ ion doped calcium phosphate based ceramic powder coating on Ti$_6$Al$_4$V implants
             Ceren Peksen, Ondokuz Mayis University, Turkiye

Poster Presentations @ Foyer 14:30-15:30

CCM-01  Title: Li$_2$O-ZnO-TiO$_2$ ceramics with eutectic additives for LTCC technology
         Dmitry Vershinin, Mendeleev University of Chemical Technology of Russia, Russian Federation

CCM-02  Title: Aerogels – functional materials with promising optical applications
         Dimitar Shandurkov, Sofia University, Bulgaria

CCM-03  Title: Effects of nano-fluids for advanced nanomaterial applications
         Balaji Srinivasan, Bharat Forge Limited, India

CCM-04  Title: Nanomaterials for energy conversion and storage
         Natarajan Nagarajan, Bharat Forge Limited, India

CCM-05  Title: Ceramic composite calcium aluminate reinforcement with Ag particles synthesized by solid-state reaction
         José G. Miranda-Hernández, Universidad Autónoma del Estado de México, México

CCM-06  Title: Novel Ge- and Sn-based initiators for light induced radical polymerization of dental resins
         Benjamin Gebhardt, Ivoclar Vivadent, Switzerland

CCM-07  Title: Development and characterisation of Ox-Ox CMCs components for high temperature insulation application
         Virtudes Rubio, NCC, UK

Networking and Refreshments Break 15:30-15:50 @ Foyer

Panel Discussion
Closing Ceremony