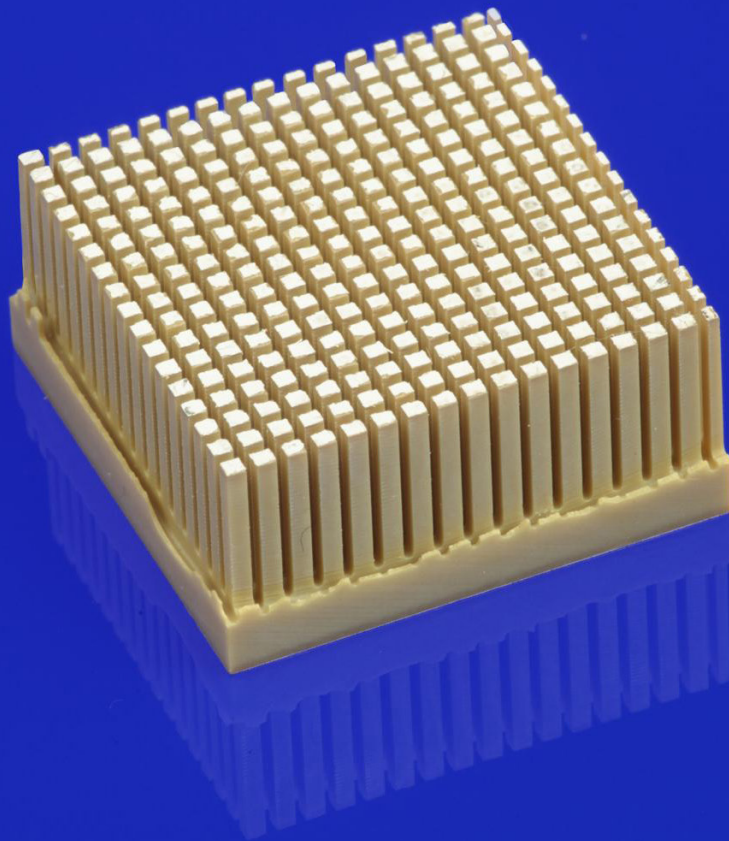


4th International Conference and Expo on
**Ceramics and Composite
Materials**

May 14-15, 2018 | Rome, Italy



Odenwald

conference**series.com** 09:30-09:55

Opening Ceremony

Keynote Forum

- 09:55-10:00 **Introduction**
Title: Band-gap engineering and morphological control of TiO₂ nanoparticles by a semi-solvothermal route
 10:00-10:35
David G Calatayud, Instituto de Ceramica y Vidrio – CSI, Spain

Networking and Refreshments Break 10:35-10:50 @ Foyer

- 10:50-11:25 **Title: Effectiveness in UV absorption of hierarchical nano ZnO-microTiO₂ composites with photodegradation inhibition**
Julian Reinoso, Institute of Ceramics and Glass (CSIC), Spain

Sessions: Composite Materials | Advanced Ceramic Materials

Session Chair: **David G Calatayud**, Instituto de Ceramica y Vidrio – CSI, Spain

- 11:25-11:55 **Title: Effect of the homogenization treatment on the microstructure and the electrical conductivity of 3YTZP/graphene nanoplatelet composites**
Rosalía Poyato, CSIC-Universidad de Sevilla, Spain
- 11:55- 12:25 **Title: Performance of granite dust as filler in ordinary portland cement**
Atiemo E, CSIR-Building and Road Research Institute, Ghana
- 12:25- 12:55 **Title: Development of lead-free perovskite ceramics with tunable optical and magnetic properties at room temperature**
Santiranjan Shannigrahi, Institute of Materials Research and Engineering, Singapore

Group Photo @ Olimpica 2

Lunch Break 12:55-13:40 @ Hotel Restaurants

- 13:40-14:05 **YRF: Role of sintering method on graphene/3YTZP composites**
Cristina López-Pernía, Universidad de Sevilla, Spain
- 14:05- 14:30 **YRF: Process development for the ceramic injection molding of oxide short fiber reinforced CMCs**
Hasan Metin Tülümen, Karlsruhe Institute of Technology, Germany
- 14:30-15:00 **Title: Composite materials from clays and clay mineral: Synthesis, characterization and electroanalytical applications**
Tonle Kenfack Ignas, University of Dschang, Cameroon

Sessions: Ceramics applications | Porous Ceramics | Ceramic Industry and Environment

Session Chair: **David G Calatayud**, Instituto de Ceramica y Vidrio – CSI, Spain

- 15:00-15:30 **Title: Fabrication and characterisation of high-frequency ultrasonic transducers based on piezoelectric thick films and porous backing**
Danjela Kuscer, Jozef Stefan Institute, Slovenia
- 15:30-16:00 **Title: Preparation of zirconium-based porous ultra-high temperature ceramics via sol-gel precursors**
Xiao Huang, Shanghai Institute of Ceramics, China

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

- 16:15-16:45 **Title: Practical approaches to energy efficiency improvement in SiC-based ceramics processing**
Maria Vartanuan, D. Mendeleev University of Chemical Technology of Russia, Russia
- 16:45-17:10 **YRF: 3D-printing of ceramic-based porous structures using stereolithography**
Dieraert Axel, CEA, DAM, France

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_2O_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 Mayıs 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 Mayıs University, Turkiye

14:00-14:30 Title: **In Vivo behaviour of Ag^+ ion doped calcium phosphate based ceramic powder coating on Ti_6Al_4V implants**

Ceren Peksen, Ondokuz Mayıs University, Turkiye

Poster Presentations @ Foyer 14:30-15:30

CCM-01 Title: **Li_2O - 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-stated 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