

2021 ECerS Students Speech Contest

1. Soňa Hříbalová
UCT Prague, Czech Republic
New light scattering models for transparent ceramics with birefringent crystallites
2. Álvaro Eguiluz Castro
Instituto de Cerámica y Vidrio, CSIC, Spain
Processing of a full ceramic 3D- scaffolds by FFF using a colloidal feedstock
3. Zrinka Švagelj
Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Croatia
Coated ceramic foams functionalized for photocatalytic degradation of micropollutants
4. Nicola Gilli
CNR-ISTEC, Italy
Microstructure and local properties of (Zr,TM)B₂ solid solutions
5. Else Ellermann
University of Cambridge, United Kingdom
Understanding the effect of surface properties of bioactive ceramics on protein attachment and angiogenesis
6. Kira Schlesier
Department for Functional Materials, Faculty of Engineering, University of Bayreuth, Germany
Influence of optical radiation on nanocrystalline functional ceramic coatings for energy conversion fabricated via powder aerosol deposition
7. Christelle Chauffeton
Institut de Recherche de Chimie Paris, France
Physico-chemical study of pigments used at the Manufacture Nationale de Sèvres
8. Chloé Goutagny
Belgian Ceramic Research Centre, Belgium
Additive manufacturing of β-TCP using the stereolithography technology: Suspension preparation and process optimisation
9. Nikolett Hegedüs
Óbuda University/Centre for Energy Research, Hungary
Examination of the hydrogen formation in Radio Frequency sputtered hydrogenated SiN_x thin films
10. Maximilian Staudacher
Lehrstuhl für Struktur und Funktionskeramik, Montanuniversität Leoben, Austria
Biaxial strength testing: A comparison of the Ball-on-Three-Balls- and the Ring-on Ring-Test
11. Veronika S. Buinevich
Naitional University Science and Technology MISIS, Moscow, Russia
Combustion synthesis (CS) and spark plasma sintering (SPS) of promising ultra-high temperature ceramic materials based on hafnium carbonitride for advanced spacecraft

12. Marija Egerić
University in Belgrade, Institute of nuclear sciences "Vinča", Serbia
Assessment of the applicability of waste seashell powder on separation and stabilization of selected heavy metals from contaminated water and soil
13. Hermina Hudelja
Jožef Stefan Institute, Slovenia
Freeze-casting of highly porous cellulose-nanofiber-reinforced γ -Al₂O₃ hierarchical monoliths
14. Ashish Mohite
Aalto University, Finland
Speed-based additive manufacturing technique - Discovery and exploration of design potential of speed of deposition in additive manufacturing
15. Yigithan Tufan
Middle East Technical University/Metallurgical and Materials Eng. Department, Üniversiteler Mahallesi, Ankara, Turkey
Yttria stabilized zirconia/clay composites for bone tissue regeneratio
16. Dawid Kozień
AGH University of Science and Technology, Krakow, Poland
Synthesis and biological evaluation of boron carbide (B₄C) nanopowders as a boron deliver agent in Boron Neutron Capture Therapy (BNCT)
17. Nikos Kyriakou
University of Twente, The Netherlands
Controlled nanoconfinement of polyimide network in mesoporous alumina membranes via surface-induced polymerization for molecular separations
18. Susanta Sengupta
FunGlass – Centre for Functional and Surface Functionalized Glass, Slovak Republic
Composite fibers incorporating therapeutic ion-doped mesoporous bioactive glass nanoparticles (MBGNs): Influence of surface roughness and fiber diameter on cell
19. Radu Cristian
National Institute of Materials Physics, Romania
Structural investigation of ferroelectric thin films using transmission electron microscopy techniques