


Biodata

Name	Dr. Ajay Kaushal 
Designation	Scientist C
Educational qualification	M.Sc and MPhil Physics, Himachal Pradesh University, Shimla Ph.D Physics, Indian Institute of Technology (IIT) Roorkee
Research area	Electronic Waste Management, Materials Processing, Development of Novel Refractories, growth of thin films and characterizations
Recognised Awards/Honors/Fellow	<ul style="list-style-type: none"> • Awarded individual postdoctoral researcher grant (rank 5) from Portuguese Foundation of Science and Technology (FCT) co-funded by European Union in Portugal (Jan 1, 2011 to Dec 31, 2014). • Awarded FCT postdoctoral researcher grant fellowship for 2nd triennium from Jan 1, 2015 to Dec 31, 2017. • Member of Portuguese/European Ceramic Society
Projects	<p>Ongoing:</p> <ol style="list-style-type: none"> 1. Establishment of Centre of Excellence on E - Waste Management (SP/041) (Sponsored by MeitY and Govt of Telangana, C-Investigator, Outlay: Rs. 3580.00 lakhs DoS: 30.09.2019; DoC: 29.09.2024) 2. Purification of Hafnium metal sponge using Electron Beam melting and preparation of hafnium metal targets for electronic applications (SP/043), (Sponsored by DST-SERB, Outlay: Rs. 11.20 lakhs, DoS: 11.02.2020; DoC: 10.02.2022)
Publications/Patents (Past 5 years)	<ol style="list-style-type: none"> 1. Ajay Kaushal, S. M. Olhero, B. K. Singh, Chandan Bhardwaj, Ishu Sharma, Igor Bdikin, Tim Button and J. M. F. Ferreira, 3D Multiscale Controlled Micropatterning of Lead-free Piezoelectric Electroceramics via Epoxy Gel Casting and Lift-off, Journal of the European Ceramic Society, 2017, 37 (9), 3079-3087. (I.F. = 3.411) 2. Reza Zamiri, Ajay Kaushal, Avito Rebelo, Budhendra Singh, Igor Bdikin, J.M.F. Ferreira, Enhanced local piezoelectric response in the

	<p>Erbium-doped ZnO nanostructures prepared by wet chemical synthesis, <i>Journal of Asian Ceramic Societies</i> 2017, 5 (1), 1-6. (I.F. = 2.61)</p> <p>3. B. Singh, M. Shkir, S. AlFaify, Ajay Kaushal, N. Nasani, I. Bdikin, H. Shoukry, I.S. Yahia, H. Algarni, Structural, optical, thermal, mechanical and dielectric studies of Sulfamic acid single crystals: An influence of dysprosium (Dy³⁺) doping, <i>Journal of Molecular Structure</i> 2016, 1119, 365–372. (I.F. = 1.753)</p> <p>4. P.M.C. Torres, J. Abrantes, Ajay Kaushal, S. Pina, N. Döbelin, M. Bohner, J.M.F. Ferreira, Influence of Mg-doping and cooling rate on the thermal stability of calcium deficient alpha and beta tricalcium phosphate, <i>Journal of the European Ceramic Society</i> 2016, 36 (3), 817-827. (I.F. 3.411)</p> <p>5. Reza Zamiri, Hossein Abbastabar Ahangar, Ajay Kaushal, Azmi Zakaria, Golnoosh Zamiri, David Tobaldi, J. M. F. Ferreira, Dielectrical Properties of CeO₂ Nanoparticles at Different Temperatures, <i>PloS one</i> 2015, 10 (4), e0122989. (I.F. 3.235)</p> <p>6. Paula M.C. Torres, Sónia Gouveia, Susana Olhero, Ajay Kaushal, José M Ferreira, Injectability of calcium phosphate pastes: effects of particle size and state of aggregation of β-tricalcium phosphate powders, <i>Acta Biomaterialia</i> 2015, 21, 204-216 (I.F. 6.319).</p> <p>7. Budhendra Singh, Ajay Kaushal[*], Igor Bdikin, V Saravanan, J. M. F. Ferreira, Effect of Ni doping on structural and optical properties of Zn_(1-x)Ni_xO nanopowder synthesized via low cost sono-chemical method, <i>Materials Research Bulletin</i> 2015, 70, 430-435. (I.F. = 2.446)</p> <p>8. Susana Olhero, Ajay Kaushal, José M Ferreira, Preventing hydrolysis of BaTiO₃ powders during aqueous processing and of bulk ceramics after sintering, <i>Journal of the European Ceramic Society</i> 2015, 35 (9), 2471-2478. (I.F. = 3.411)</p>
Google scholar link	https://scholar.google.com/citations?user=HcSI0mAAA-AAJ&hl=en