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**Areas of interest:** Spray Pyrolysis, Nano Powders, Pressure Casting, Thermal Analysis, Advanced Ceramic Processing, Solid Oxide Fuel Cells, Refractories

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**Recent Publications**

1. 3D Extrusion Printing of Magnesium Aluminate Spinel Ceramic Parts Using Thermally Induced Gelation of Methyl Cellulose  
Papiya Biswas, Sirisala Mamatha, Subhendu Naskar, **Yabaluri Srinivasa Rao**, Roy Johnson and Gadhe Padmanabham  
*Journal of Alloys and Compounds* 770 (2019) 419-423
2. Processing of Alumina Honeycomb Catalyst Substrates and Studies on Methyl Cellulose Binder Burn Out Kinetics  
Papiya Biswas, **Y.S. Rao** and Roy Johnson  
*Journal of Advanced Catalysis Science and Technology* 2 (2015) 38-43
3. Pressure Slip casting and cold isostatic pressing of aluminum titanate green ceramics: A comparative evaluation  
Papitha R, M Buchi Suresh, **Y.S. Rao**, B.P. Saha, Dibakar Das, Roy Johnson  
*Journal of Processing and Application of Ceramics*, 7(4) (2013) 159-166
4. Binder burnout and sintering kinetic study of alumina ceramics shaped using methylcellulose  
K. Rajeswari, S. Chaitanya, P. Biswas, M. Buchi Suresh, **Y.S. Rao** and Roy Johnson  
*Journal of Ceramic Processing Research* 16(1) (2014) 1-8

5. Low Temperature In-situ Reaction Sintering of Zircon: Alumina Composites Trough Spark Plasma Sintering  
M. C. Anjali, P. Biswas, D. Chakravarty, U. S. Hareesh, **Y.S. Rao** and R. Johnson  
***Science of Sintering***, 44 (2012) 323-330
  
6. Studies on Ionic Conductivity of stabilized zirconia ceramics (8YSZ) densified through conventional and non-conventional sintering methodologies  
K. Rajeshwari, M. Buchi Suresh, U.S.Hareesh, **Y.S. Rao**, Dibakar Das & Roy Johnson  
Ceramics International, 37(8) (2011) 3557-3564