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Areas of interest:

Transparent Ceramics, Compaction Processing, Hot Isostatic Pressing, Powder Flow Properties, Chemical Vapour Deposition

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List of Journal Publications:

1. Fabrication of Transparent Spinel Honeycomb Structure by Methyl Cellulose based Thermal Gelation Processing. P. Biswas, K. Rajeswari, **P. Ramavath**, Roy Johnson, H. S. Maiti, **Journal of American Ceramic Society (Accepted) (2013)**
2. Compressive and flexural strength properties of ZnS Optical ceramics. **P. Ramavath**, N. Ravi, U. S. Hareesh, R. Johnson and N. Eswara Prasad **Transactions of the Indian Institute of Metal, Vol.63, issue 6, December 2010, pp.847-852**
3. Effect of post –CVD thermal treatment on crystallographic orientation, microstructure, mechanical and optical properties of ZnS ceramics. P. Biswas, R. Sentil Kumar, **P. Ramavath**, V. Mahendar, G. V. N. Rao, U. S. Hareesh, R. Johnson. **Journal of Alloys and Compounds 496(2010) 273-277**
4. Effect of Sphalerite to Wurtzite Crystallographic Transformation on Microstructure, Optical and Mechanical Properties of Zinc Sulphide Ceramics. **P. Ramavath**, P. Biswas, R. Senthil Kumar, V. Mahendar, G. V. N. Rao, U. S. Hareesh, R. Johnson. **Ceramics International 37 (2011) 1039–1046**
5. Fracture Behaviour of Chemical Vapour Deposited and Hot Isostatically Pressed Zinc Sulphide Ceramics. **P. Ramavath**, V. Mahender, R. Johnson, Sweety Kumari and N. Eswara Prasad. **Materials Science and Engineering A 528 (2011) 5030–5035**

6. Transparent Polycrystalline Ceramics: An Overview
Roy Johnson, P. Biswas, **P. Ramavath**, R. S. Kumar and G. Padmanabham, **Transaction of Indian Ceramic Society**, vol. 71, no. 2, pp. 73-85 (2012).
7. Flow properties of spray dried alumina granules using powder flow analysis technique.
Pandu Ramavath, M. Swathi, M. Buchi Suresh, Roy Johnson , **Advanced Powder Technology** 24 (2013) 667–673
8. Diametral Deformation Behaviour and Machinability of Methyl Cellulose Thermal Gel cast Processed Alumina Ceramics.
P. Biswas, M. Swathi, **P. Ramavath**, K. Rajeswari, M. Buchi Suresh, Roy Johnson, **Ceramics International** 38 (2012) 6115-6121
9. Hydrolysis control of alumina and AlN mixture for aqueous colloidal processing of aluminium oxynitride, R.S.Kumar, U.S.Hareesh, **P. Ramavath** and Roy Johnson, **Ceramic International** 37, 2583-2590, 2011
10. Experimental Investigation on Flowability and compaction behavior of Spray granulated submicron Alumina Granules.
Abhisek Choudhary, **Pandu Ramavath**, Papiya Biswas, Nukula Ravi and Roy Johnson, **ISRN Ceramics (Accepted) (2013)**
11. Optical Properties and Fracture Behaviour of compaction and slip cast processed Transparent Polycrystalline Spinel Ceramics.
P. Ramavath, P. Biswas, K. Rajeswari, M. B. Suresh, Roy Johnson, G. Padmanabham and C.S. Kumbhar, T.K. Chongdar, N. M. Gokhale **under review** *Engineering fracture mechanics* (2013)

List of patents:

1. Process of Preparation for Zinc Sulphide freestanding article by Chemical Vapour Deposition (Indian Patent No: IN 200900517-i1)
2. A novel process for producing IR transparent polycrystalline alumina articles and the articles so produced (Patent Filed) (2012)

Conference proceedings:

1. Development of a Direct-Drive Based Three –DOF Robot. Published in the Proc. of the National Conference on Industrial Problems on Machines and Mechanisms, **IIT Kharagpur, Feb.24-25, 2005,pp.67-74**

Pandu Ramavath , Dhiraj Barma, S.K Saha, B. Seth and D. Jaitly

Awards/ Honors

: Best Poster Award-2009 :
Annual session of Indian Ceramic Society,
11-12 December 2009, Trivandrum