

Name: V. Mahender

Qualification: M.E (Production Engineering)

Designation: Technical Officer-C



Areas of interest: Advanced Ceramic Processing, Multilevel Compaction, Design and development of intricate dies and patterns, Honeycomb die for extrusion, Chemical Vapour Deposition, Hot Isostatic pressing

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List of Journal Publications:

1. S. B. Chandrasekhar, V.Mahendar, A.Sivakumar, and R.Sundaresan, "Effect of atmosphere on the sintering of heavy alloys", in "Advances in Powder Metallurgy and Particulate Materials 2002", MPIF, 2002, Vol.13, pp.201-210.
2. 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
3. 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
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. Extrusion processing of Dense MgAl₂O₄ Spinel Honeycombs with Low Relative Density, P. Biswas, K. Rajeswari, V. Mahendar and Roy Johnson Ceramics International (2013)

List of patents

1. A novel process for producing IR transparent polycrystalline alumina articles and the articles so produced (Patent Filed) (2012)
2. An improved method for making honeycomb extrusion die and a process for producing Ceramic honeycomb structures using the die Iouri Fomichev, I. Ganesh, B.P. Saha Roy Johnson, N. Thiyagarajan, Y.R. Mahajan, and V. Mahender (Indian Patent. No. 198045, Dated : 3 -07-01)