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Qualification: B. Tech in Ceramic Technology

Designation: Scientist – D

Areas of interest:

Transparent Ceramics, Chemical Vapour Deposition, Powder (oxide/non-oxide) Processing, Hot Isostatic Pressing, Vacuum Sintering

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List of Journal Publications:

1. Processing of Aluminum Oxynitride Through Aqueous Colloidal Forming Techniques, Journal of American Ceramic Society, 93 [2] 429–435 (2010)
2. Effects of Post CVD Thermal Treatments on Crystallographic Orientation, Microstructure, Mechanical and Optical Properties, Journal of Alloys and Compounds, 496, 273–277, (2010)
3. Effect of sphalerite to wurtzite crystallographic transformation on microstructure, optical and mechanical properties of zinc sulphide ceramics, *Ceramics International* 37, 1039–1046 (2011)
4. Hydrolysis control of alumina and AlN mixture for aqueous colloidal processing of aluminum oxynitride *Ceramics International* 37, 2583–2590, (2011)

List of Patents:

1. A Novel Substrate and Release Process for the Preparation of Free Standing ZnS Parts by CVD, Indian patent, Application Number: DEL/975/09
2. An Improved Method for Making Sintered Polycrystalline Transparent Submicron Alumina Articles, Indian Patent, Application Dated 10 May 2011
3. An Improved Aqueous Processing Method for Producing Transparent Aluminum Oxynitride Articles, Indian Patent, Application Dated 08 May 2012

Affiliation to Professional Societies:

Member of American Ceramic Society from 02/01/2009

