

Dr. Dulal Chandra Jana

Designation: Scientist - D

Academics

Ph.D. (Materials Engineering), 2015, IISc, Bangalore

M. Tech. (Materials Science), 2002, IIT, Kanpur

B. Tech. (Ceramic Engineering), 2000, University of Calcutta



Professional experience

Scientist, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) Hyderabad, 2003 - present

Research areas of interest

Ceramic processing, Non-Oxide ceramics, CVD coating

List of journal publications

1. A. Basumajumdar, D. C. Jana, and P. K. Maiti, Effect of ZrO_2 additive in reaction sintering of bauxite and titania, J. Ind. Chem. Soc., 81 (2004), 528-530
2. I. Ganesh, D. C. Jana, S. Shaik, and N. Thiyagarajan, An aqueous gelcasting process for sintered silicon carbide ceramics, J. Am. Ceram. Soc., 89 (2006), 3056-3064
3. I. Ganesh, N. Thiyagarajan, D.C. Jana, Y.R. Mahajan and G. Sundararajan, Influence of chemical composition and Y_2O_3 on sinterability, dielectric constant and CTE of $-SiAlON$, J. Am. Soc., 91 (2008), 115-120
4. I. Ganesh, N. Thiyagarajan, D.C. Jana, P. Barik, and G. Sundararajan, An aqueous gelcasting route to dense $-Si_4Al_2O_2N_6-0.5SiO_2$ ceramics, J. Am. Soc., 91 (2008), 1566–1571
5. I. Ganesh, N. Thiyagarajan, D.C. Jana, P. Barik, J.M.F. Ferreira, and G. Sundararajan, Dense $-SiAlONs$ consolidated by a modified hydrolysis assisted solidification route, J. Euro. Ceram. Soc., 28 (2008), 879-885.

6. I. Ganesh, N. Thiyagarajan, D.C. Jana, Y.R. Mahajan and G. Sundararajan, An aqueous gelcasting process for $\text{-Si}_4\text{Al}_2\text{O}_2\text{N}_6$ ceramics, *J. Am. Ceram. Soc.*, 91 (2008), 3121-3124
7. I. Ganesh, N. Thiyagarajan, D.C. Jana, G. Sundararajan, S.M. Olhero, and J.M.F. Ferreira, Influence of processing route and SiO_2 on sintering ability, CTE and dielectric constant of $\text{-Si}_4\text{Al}_2\text{O}_2\text{N}_6$, *J. Mater. Res.*, 23 (2008), 2305-2311
8. P. Barick, D. C.Jana, and N. Thiyagarajan, Effect of particle size on the mechanical properties of reaction bonded boron carbide ceramics, *Ceram. Inter.*, 39 (2012), 763-770
9. P. Barick, D.C. Jana, B.P. Saha, Load-dependent indentation behavior of β -SiAlON and α -Silicon carbide, *J. Adv. Ceram.* 2, (2013), 185-192.

Awards and recognitions

BOYSCAST Fellowship (2010)

Affiliation to professional societies:

Member of American Ceramic Society

Contact information

Centre for Non-Oxide Ceramics

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