

Dr. Somendra Nath Roy

List of Publication

1. S N Roy and S K Guha, "Sintering of chromium oxide", *Trans. Ind. Ceram. Soc.*, 48 (1985) 49.
2. S N Roy, S R Saha and S K Guha, "Sintering kinetics of pure and doped chromium oxide", *J. Mater. Sci.*, 21 (1986) 3673.
3. S N Roy, S K Guha and H S Maiti, "Studies on the influence of lanthanum oxide on the sinterability of chromium (III) oxide", *J. Mater. Sci.* 25 (1990).
4. S N Roy, H. Xu, S. Tan, B. Hinz and I. Müller, "Growth of CuZnAl and CuAlNi single crystal with shape memory martensites", *J. Crystal Growth*, 102 (1990) 1061.
5. S N Roy, S K Guha and H S Maiti, "Electrical conductivity of chromium (III) Oxide, *ibid*, 1989.
6. D Bhattacharya, S N Roy, R N Basu, A Das Sharma and H S Maiti, "Critical current in electrophoretically deposited thick films", *Mater. Letts.*, 16 (1993) 337.
7. R N Basu, B Güttler , D Schiel, Dipen Bhattacharya, S N Roy and H S Maiti, "Critical current in Electrophoretically deposited thick films of $\text{YBa}_2\text{Cu}_3\text{O}_{8-8}$ and their characterization by Raman Spectrometry" in *Applied Super Conductivity*, ed. H C Freyhardt (DGM Informationsgesellschaft GmbH; Oberusel, 1993) Vol. 1, pp. 629.
8. Sukumar Roy, A Das Sharma, S N Roy and H S Maiti, "Synthesis of $\text{Yba}_2\text{Cu}_3\text{O}_{8-8}$ powder by auto-ignition of citrate-nitrate gel", *J. Mater. Res.*, 8 (1993) 2761.
9. Dipten Bhattacharya, P Chaudhury, S N Roy and H S Maiti, "Analysis of the thickness dependance of critical current density for electrophoretically deposited $\text{YBa}_2\text{Cu}_3\text{O}_{8-8}$ films", *J. Appl. Phys*, 76 (1994) 1120.
10. S N Roy, P Sujatha Devi, R N Basu and H S Maiti, "Crystal growth of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Superconductors by a self-flux method", *J. Mater, Sci. Letts.*, 13 (1994) 1582.
11. Dipten Bhattacharya, P Chowdhury, S N Roy and H S Maiti,"Analysis of the thickness dependence of critical current density for electrophoretically deposited $\text{YBa}_2\text{Cu}_3\text{O}_{8-8}$ films", *J. Appl. Phys.*, 76 (1994) 1120.
12. Dipten Bhattacharya, A Sen, S N Roy and H S Maiti,"Unusual thickness dependence of the magnetic critical current density for granular high T_c films", *Physical Review B*, 51 (1995) 11819.
13. S N Roy, S Bandyopadhyay, B P Ghosh, S R Saha & H S Maiti, "Studies on pore size of top layer unsupported alumina membrane", - Ceramic International (communicate).

14. Baisali Sinha, Partha K Sarkar, S N Roy and S Bandyopadhyay, "Yeast separation by ceramic membrane and flux recovery after chemical cleaning – Indian Chemical Engineering, Vol. 48(1) 2006.
15. S N Roy, Tanmoy Dey, M Majumder, S Majumder, B P Ghosh, S Bandyopadhyay and H S Maiti, "Ceramic membrane and Water Purification", Science and Culture, Vol. 71 (5-6) 2005.

- **In Conference Proceedings:**

1. S N Roy and S K Guha, "Sintering kinetics on the influence of lanthanum oxide on the sinterability of chromium (III) oxide", Proc. AUSTCERAM'86, twelfth Australian Ceramic Conference, August 27-29, 1986.
2. H Xu, S Tan, S N Roy, K H Kim, B Hinz and I Müller, "The thermo-mechanical behaviour of CuZnAl single crystal with shape memory", Proc. European Conf. on advance materials and processes (EUROMAT'89), Aachen, West Germany.
3. S Bandyopadhyay, S N Roy and H S Maiti, "Development of ceramic membranes for microfiltration applications", Published in Program book and proceeding of 12th Annual Meeting of North American Membrane Society (NAMS), May 15-20, 2001, USA (ed. D Bhattacharyya, D. A. Butterfield and L. Carlson, Lexington, Kentucky, USA), p.75.
4. G C Sahoo, S N Roy and S Bandyopadhyay, "Solvent membrane layer interaction for transport through oxide ceramics coated clay-alumina support", Proc. ICIM9, Lillehammer, Norway, (ed. R. Bredesen and H. Raeder, June 25-29, 2006, pp.303-306.
5. Soma Das, B P Ghosh, S N Roy and S Bandyopadhyay, "Effect of precursor concentration on development of monomodal pore structure for unsupported UF membrane", Published in the Book of Abstract, ICCMR8, Kolkata, held at C.G.& C.R.I. during December 18-21, 2007, pp. 166-168.
6. Mitali Sen, S. N. Roy and S. Bandyopadhyay, "Synthesis & characterization of ilmenite powder for making ultrafiltration membrane", Published in the Book of Abstract, ICAFM-09, held at Taj Residency, Thiruvananthapuram during December 09-10, 2009, pp. 78.