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Research interest :

1) Lithography and pattern transfer, using plasma polymerization
2) Dry electron beam resist synthesis and characterization
3) Multi-electron beam lithography system design and developments
4) Nanomaterials and nanotechnology microfluidics/ nanofluidics
5) Soft lithography
6) Photo imagable thick film technology

Research papers :

1) Shalaka C. Navale, Farid, Jamali Sheini, Sandip S., Patil, Imtiaz S. Mulla, Dilip S. Joag Mahendra,A. More and **sureshw.GOSAVI (**2009) "Field Emission Properties of Al-doped ZnO Nanostuctures"" Journal of Nano Research, accepted for Publication.

2) Shalaka C.Navale, **S.W.Gosavi**, and I.S.Mulla, (2008) Controlled synthesis of ZnO nanospheres to micro-rods and its gas sensing studies" *Talanta, Volume 75, Issue 5, 15, Pages 1315-1319.*

3) Shweta Jagtap, SunitRane, **Suresh Gosavi** and Dinesh Amalnerkar (2008)Preparation, characterization and electrical properties of spinel type environment friendly thick film NTC thermistors",*Journal of the European Ceramic Society, Volume 28,Issue 13, Pages 2501-2507.*

4) Govind Umarji, Supriya Ketkar, Ranjit Hawaldar, **Suresh Gosavi**, Kashinath Patil, Uttam Mulik, Dinesh Amalnerkar (2008) "XPS and AFM investigations on silver-based photoimageable thick film systems"*Microelectronic International, Vol. 25, No. 1,pp46-57.*

5) Shalaka C. Navale, V.Ravi, D. Sriniwas, I.S.Mulla, **S.W. Gosavi**, and S.K. Kulkarni (2008)"EPR and DRS evidence for No2 sensing in Al-doped ZnO *Sensors and Actuators B:Chemical, Volume 130, Issue 2, 28 Pages 668-673.*

6) R.M. Dey, S.B. Singh, A.Biswas, R.B. Tokas, N.Chand, S.Venkateshwaran, D.Bhattacharya, N.K.Sahoo, **S.W. Gosavi**,S.K. Kulkarni and D.S.Patil (2008)*"*Substrate bias effects during diamond like carbon film deposition by microwave ECR plasma CVD *Current AppliedPhysics, Volume 8, Issue 1, Pages 6-12.*

7) R. Tiwari, **Suresh W. Gosavi**, and Sulabha, K.Kulkarni, (2007) "Plasmon Assisted Photonics at Suchita A. Kalele, Neha Journal of Nanophotonics,the Nanoscale" Vol.1, p12501.

8) S.C. Navale, V. Ravi, I.S.Mulla, **S.W. Gosavi**, and S.K. Kulkarni (2007)"Low temperature synthesis and Nox sensing properties of nanostructured Al-doped ZnO *Sensors and Actuators B:Chemical, Volume 126, Issue2,Pages 382-386.*

9) N.B. Lihitkar, Majid Kazemian Abyaneh, V.Samuel, R. Pasricha, **S.W. Gosavi** and S.K.Kulkarni (2007)Titania nanoparticles synthesis in mesoporous molecular sieve MCM-4 *Journal of Colloid and Interface Science, Volume314, Issue 1, 1, Pages 310-316.*

10) S. Anil Kumar, Majid Kazemian Abyaneh, **S.W.Gosavi**, Sulabha. K. Kulkarni, Renu pasricha, Absar Ahmad and M.I.Khan,(2007)"Nitrate reductase-mediatedsynthesis of silver nanoparticlesfrom AgNO3"*Biotechnology Letters, 29,pp439-445*