

## Projects Sanctioned - 2003-04

Sl. No.	Sanction No.	Title	PI & Address
1.	SR/S5/NM-52/2002	Oxide based nanomaterials and nanocomposites for magnetic memory and sensor applications	Dr.S.Annapoorni D/o Physics & Astrophysics University of Delhi New Delhi - 110007
2.	SR/S5/NM-68/2002	Nanolithography in color and design of microfluidic devices.	Dr.ArunChattopadhyay D/o Chemistry Indian Institute of Technology Guwahati - 781039
3.	SR/S5/NM-81/2003	Growth of nanoparticles of wide band gap semiconductors (CdS/CdSSe) in glass matrices for optical filters and study of physics of quantum confinement for photonic applications.	Dr.Bharat BhanudasKale Centre for Materials for Electronics Technology Pune - 411008
4.	SR/S5/NM-38/2003	Modular synthesis of cryptand based nanostructures.	Prof.P.K.Bharadwaj D/o Chemistry Indian Institute of Technology Kanpur - 208016
5.	SR/S5/NM-05/2003	Upconverting nanophosphors for photonic applications.	Dr.AmitavaPatra Central Glass & Ceramic Research Institute Kolkata - 700032
6.	SR/S5/NM-20/2003	Magnetic, optical and electronic properties of semiconducting nanoparticles doped with magnetic impurities.	Prof.D.D.Sarma Solid State and Structural Chemistry Indian Institute of Science Bangalore - 560012
7.	SR/S5/NM-31/2003	Studies on effect of mineral nanofillers on the mechanical and processing properties of polymers and their industrial applications.	Prof.SatyendraMishra D/o Chemical Technology North Maharashtra University Jalgaon - 425001
8.	SR/S5/NM-41/2003	Synthesis of nanostructured magnetic materials for different applications.	Prof.D.Bahadur D/o Metallurgical Engineering & Materials Science Indian Institute of Technology Mumbai - 400076
9.	SR/S5/NM-25/2003	Design of New and Novel Nanoconstruction Tools.	Prof.SambasivaraoKotha D/o Chemistry Indian Institute of Technology Mumbai - 400076
10.	SR/S5/NM-26/2003	Nanostructuring of hard and soft films via pattern transfer.	Dr.Vijay BShenoy Materials Research Centre Indian Institute of Science Bangalore - 560012
11.	SR/S5/NM-18/2003	Carbon nanotubes based sensors.	Prof.A.K.Sood D/o Physics

			Indian Institute of Science Bangalore - 560012
12.	SR/S5/NM-10/2003	Nano M/CeO <sub>2</sub> and M/TiO (M = Cu, Mn, Fe, Co, Ni, Pt, Pd etc.) for catalysis applications.	Prof.H.B.Hedge Solid State & Struc. Chem. Unit Indian Institute of Science Bangalore - 560012
13.	SR/S5/NM-34/2003	Electronic transport in molecular nano-systems.	Dr.Swapan KumarPati JN Centre for Advanced Scientific Research Bangalore - 560012
14.	SR/S5/NM-09/2003	Development of Nano-wires and Nano-structural thin flims of Boron for potential applictions.	Dr.D.Ravinder D/o Physics Osmania University Hyderabad - 500004
15.	SR/S5/NM-04/2003	Studies on nanomaterials and devices.	Prof.S.N.Kaul School of Physics University of Hyderabad Hyderabad - 500046
16.	SR/S5/NM-58/2002	Upgradation of exsiting UHV chamber preparation and investigation of the properties of nanostructured materials.	Prof.S.Ramasamy D/o Nuclear Physics University of Madras Chennai - 600025
17.	SR/S5/NM-08/2003	Nano Science and Technology : A Transdisciplinary approach.	Prof.O.N.Srivastava D/o Physics Banaras Hindu University Varanasi - 221005
18.	SR/S5/NM-61/2002	Preparation and characterization of metallic and semiconducting nanowire.	Dr.Shyamal KumarSaha Bidhannagar College Kolkata - 700064
19.	SR/S5/NM-12/2003	Size-selective electrodeposition of metal, metal oxide and conducting polymer nanoparticles and their Nanocomposites for Technological applications.	Dr.R.Saraswathi D/o Materials Science Madurai Kamaraj University Madurai - 625021
20.	SR/S5/NM-17/2003	Fabrication of pure metal and alloy films as interconnects for nanoelectronics and nano-electrodes by e-beam lithography and study of their stability towards electro, thermal and stress migration.	Prof.A.K.Raychaudhuri D/o Physics Indian Institute of Science Bangalore - 560012
21.	SR/S5/NM-21/2003	Development of nanophosphors for industrial applications.	Dr.HarishChander Div. Of Electronic Materials National Physical Laboratory New Delhi - 110012
22.	SR/S5/NM-13/2003	Development of state-of-the-art analytical electron Microscopy facility capable of high-resolution imaging and analysis in the nanoscale as an Institute facility at the Indian Institute of Science.	Prof.K.Chattopadhyay Materials Research Centre Indian Institute of Science Bangalore - 560012
23.	SR/S5/NM-43/2003	Metal-oxide core-shell nanostructures for removal of	Dr.A.K.Ganguli D/o Chemistry

		toxins from water and atmosphere.	Indian Institute of Technology New Delhi - 110016
24.	SR/S5/NM-76/2003	Synthesis, characterization and applications of nanosized oxide materials.	Dr.G.T.Chandrappa D/o Chemistry Bangalore University Bangalore - 560001
25.	SR/S5/NM-73/2003	Development of nanofluidic channels and nanowires using biomolecular self-assembly.	Dr.G.V.Shivashankar National Centre for Biological sciences University of Agricultural Sciences Bangalore - 560065
26.	SR/S5/NM-35/2003	Development and properties of polymer based nanocomposites.	Prof.Anil K.Bhowmick Indian Institute of Technology Kharagpur - 721302
27.	SR/S5/NM-51/2003	Synthesis and characterization of Ni-P electroless composite coatings with nanosized particles.	Dr.R.C.Agarwala D/o Metallurgical & Materials Engineering Indian Institute of Technology Roorkee - 247667
28.	SR/S5/NM-55/2003	Thermal and electrical conduction in nano-fluids.	Dr.Sarit KumarDas D/o Mechanical Engineering Indian Institute of Technology Chennai - 600036
29.	SR/S5/NM-36/2003	Tailoring of room temperature Excitonic Luminescence in Mg <sub>x</sub> Zn <sub>1-x</sub> O/SiO <sub>2</sub> nanocomposites and fabrication of electroluminescent devices.	Prof.SubhadraChaudhuri D/o Materials Science Indian Association for the Cultivation of Science Kolkata - 700032
30.	SR/S5/NM-61/2003	Investigation of the dissolution kinetics of some nano sized metal catalysts.	Prof.GurmeetSingh D/o Chemistry University of Delhi Delhi - 110007
31.	SR/S5/NM-47/2003	Construction of an optical tweezer for nanometer scale rheology.	Dr.SharathAnanthamurthy D/o Physics Bangalore University Bangalore - 560056
32.	SR/S5/NM-57/2003	Nano Sized semi conducting oxide powders, films and catalysts by gas phase codensation for gas sensor applications.	Dr.K.Srinivas D/o Physics and Astrophysics University of Delhi Delhi - 110007
33.	SR/S5/NM-89/2003	Excess protons electrons and metal atoms in hydrogen bonded nanoclusters: Studies of structural dynamical and electronic aspects through ab-initio molecular dynamics.	Prof.AmalenduChandra D/o Chemistry Indian Institute of Technology Kanpur - 208016
34.	SR/S5/NM-75/2002	Optical and electronic studies of photoactive molecules capped on	Dr.K.George Thomas Photochemistry research Unit

		metal nanoparticles and their molecularly bridged arrays on surfaces.	Regional Research Laboratory Thiruvananthapuram - 695019
35.	SR/S5/NM-44/2003	Development of device-grade nanomaterials using ion beams.	Prof. Arun M. Narsale D/o Physics University of Mumbai Mumbai - 400098