

Annexure I
Poster Session I (09.12.2009, WEDNESDAY): 14:00 – 16:00

Sl.	Abs. #	Title
1.	A-090	RF power dependent formation of amorphous MoO _{3,x} nanorods by R F Magnetron sputtering
2.	A-114	Ultrasound Induced Low Temperature Synthesis of SnO ₂ Nanoparticles
3.	A-148	Investigation of precursor ratios in synthesis Nano-crystal boron carbide by PVA(poly vinyl alcohol) and boric acid as precursors
4.	A-199	Synthesis and characterization of Tin-oxide nanocones (single crystalline): development of hollow microspheres by solvothermal process
5.	A-200	GdVO ₄ :Tm ³⁺ nanoparticles: a potential blue phosphor
6.	A-317	Deposition of Metal Nanoparticles on Calcite via Surface Modification
7.	A-323	Effect of the bimodal size distribution on the optical properties of CdSe nanocrystals
8.	A-325	Optical properties of Co ²⁺ doped ZnS nanocrystals
9.	B-145	Nonlinear optical properties of doped ZnS quantum dots
10.	A-327	On the phonon related properties of Cu _{1-x} Sn _x O (x = 0.0, 0.01, 0.03, 0.05 and 0.1) nanoparticles
11.	A-337	Microwave assisted synthesis of cobalt oxide nanostructures
12.	A-338	Synthesis and optical properties of Eu ³⁺ doped CdS nanostructures
13.	A-340	Effect of swift heavy ion irradiation on the structural and magnetic properties of CuFe ₂ O ₄ nanoparticles
14.	A-341	Temperature dependence of shape evolution in one-dimensional ZnO nanostructure grown from ZnO nanopowder source: vapour-liquid-solid vs. vapour-solid growth mechanisms
15.	A-343	Laser Crystallization of Nanostructure CdS Thin Film
16.	A-344	Boron and Nitrogen doped heterofullerenes
17.	A-346	Highly luminescent chemically synthesized HgTe/CdTe core/shell nanoparticle
18.	A-353	Low temperature solid state synthesis and catalytic performances of a new photocatalyst CaSnO ₃ with nanocube morphology
19.	A-355	ZnO nano and microstructures grown by high pressure and high temperature pulsed laser deposition: Effect of substrate and argon flow direction on the morphology, structural and optical properties.
20.	A-357	ZnS:Cr nanostructures building fractals and their properties
21.	A-360	Microstructural and mechanical properties of Al ₆₅ Cu ₂₀ Ti ₁₅ composite made by mechanical alloying with subsequent hot isostatic pressing
22.	A-362	Structural and optical properties of nanocrystalline TiO ₂ thin films grown by RF magnetron sputtering
23.	A-364	Adsorption of persistent organic pollutants by surface functionalized carbon nanofibers
24.	A-365	Effect of dielectric constant on dispersibility of H ₂ O ₂ -treated MWNTs
25.	A-366	Fabrication of densely distributed Silver Indium selenide nanorods by Ag ⁺ ion irradiation
26.	A-367	Charge Storage Memory Characteristics of Tetralayer Flash Memory Structures Using NiGe Nanocrystals
27.	A-369	Ni ⁰ -nanoparticles stabilization into mesoporous Montmorillonite clay matrix and catalytic transfer hydrogenation reaction
28.	A-370	On the cathodoluminescence emission from Ar ⁺ implanted Silicon
29.	A-372	Chemical Synthesis and Antimicrobial Activity of NiO and ZnO Nanomaterials
30.	A-374	Study of optical properties of fresh water diatom frustules modified by Zinc Sulphate
31.	A-378	Chemical Synthesis of ZnS :Cu Nanosheets
32.	A-383	Synthesis, Characterization and methane sensing properties of CBD grown aligned Zinc Oxide nanorods
33.	A-387	Synthesis and characterization of ZnO nanowires
34.	A-389	Alkali hydrothermal synthesis of anatase TiO ₂ nanotubes with uniform diameter from titanium powder
35.	A-390	Swift heavy ions irradiation: A novel technique for tailoring the size of polyaniline nanofibers
36.	A-399	A Density Functional study of carbon monoxide adsorption on zeolite supported gold monomers
37.	A-400	Synthesis and Characterisation of one dimensional and three dimensional confined structures of Zinc Oxide and Zinc Sulphide comparative study. -A
38.	A-402	Photochemical Characterization and Photocatalytic Properties of a Nanostructure Composite ZnO Film
39.	A-406	Surface Nanostructuring in III-V Semiconductors by Ar ⁺ Ion Irradiation: UHV-STM studies
40.	A-407	Nanostructural organization in ionic liquids
41.	A-411	Evolution of microstructure during annealing of nanocrystalline NiTi alloy produced by high pressure torsion
42.	A-413	Exploring the synthesis of the graphene oxide
43.	A-414	An AFM Investigation On The Interfacial Properties Of Biocompatible Nanostructured Titanium Oxide Films
44.	A-416	Production of Al/Al ₂ O ₃ Surface Composite Layers with Nano-structured Matrix on 6082Al Alloy Employing Friction Stir Processing
45.	B-318	Light Scattering by Single domain Nanoparticle Suspension
46.	B-319	Optical Behaviour of Nanosized Zinc Ferrite
47.	B-320	Electro-optic modulation in a sub-wavelength gap-plasmon guide
48.	B-324	Photoluminescence of ZnO inverse photonic crystal
49.	B-619	Nonlinear optical properties of silver nanoparticles synthesized using coriander leaves
50.	B-647	Zinc Oxide Nano-particle Based Optical Fiber Humidity Sensor
51.	C-117	Fluorescent magnetic nanoparticles for dual cellular labeling
52.	C-118	Gd(III) Chelates adsorbed on TiO ₂ nanoparticles – promising MRI contrast agent
53.	C-142	The effect of temperature and pH on the biosynthesis of silver nanoparticles using Klebsiella pneumonia
54.	C-244	Nanochemistry in clinical glucose test using BENEDICT solution
55.	C-245	Comparative Study of Antimicrobial Activities of nano-AgO and -ZnO against the Pathogenic Strain of Escherichia coli
56.	C-252	BIOSYNTHESIS OF SILVER NANOPARTICLES BY BIOREDUCTION USING Enterobacter aerogenes (MTCC 2822)
57.	C-254	Mechanistic Study of Surface Functionalization of Enzyme –Lysozyme Synthesized Ag and Au Nanoparticles using Surface Enhanced Raman Spectroscopy
58.	C-256	Antibacterial activity of copper nanoparticles synthesized using plant leaf extract
59.	C-258	Inactivation of V. cholera using O/W nanoemulsion
60.	C-259	Pesticides for home and agricultural applications: nanocomposites of fly-ash / mesoporous amorphous nanosilica / nano-aluminosilicate

		and ZnO on thermolabile solid support
61.	C-260	Fungal degradation of Micro crystalline cellulose to produce Nano crystalline cellulose
62.	C-261	SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL STUDY OF SILVER NANOPARTICLES
63.	C-263	Microbial synthesis of semiconductor PbS nanocrystallites from isolates obtained from Gangetic Basin of India
64.	C-264	Synthesis and Characterization of Photocatalytic and Antibacterial Nanosized Hydroxyapatite
65.	C-265	Synthesis of starch stabilized Ag-Cu alloy ultrafine particles by chemical reduction route
66.	D-151	Synthesis and characterization of MWCNT-ZnO nanoparticle composite
67.	D-152	The Effect of Nano SiO ₂ and TiO ₂ on the Mechanical Properties and Microstructure of Epoxy Nanocomposites
68.	D-153	FT-IR Characterization and Photoluminescence Properties of PEO/ZnO Nanofiber Composites Fabricated by Electrospinning
69.	D-154	Consolidation of CNT reinforced AA4032 nanocomposites by ECAP
70.	D-155	Hybridized PVDF/ PbS nano Composite for solar cell applications
71.	D-156	A Comparative Study on AC Conductivity and Dielectric behavior of Multiwalled Carbon Nanotubes and Polyaniline coated Multiwalled Carbon Nanotubes Filled High Density Polyethylene-Carbon Black Nanocomposites
72.	D-157	Synthesis and Characterization of Cholesterol nano particles by using w/o microemulsion technique
73.	D-158	Electrospinning of Pullulan/Clay Nanocomposites
74.	D-159	Investigation of DMA and dielectric behaviours of nanoclay filled epoxy and PP/nylon 66 nanocomposites for cable insulation application
75.	D-160	Stability of Nanoclay-Gelatin Nanocomposite
76.	D-161	Reduction studies of nano-NiO-BCY composites
77.	D-162	Synthesis and conductivity studies of Al ₂ O ₃ nano fillers doped PEO Nanocomposite polymer Solid electrolyte
78.	D-163	Synthesis and optical characterization of PbS nanocomposites
79.	D-164	Role of polymer entanglement on aggregation of Au nanoparticles
80.	D-170	Influence of SiO ₂ content in epoxy-SiO ₂ nanocomposites on mechanical and electrical resistivity behavior
81.	D-171	Effect of nanoparticle induced director distortion on the physical properties of liquid crystal-nanoparticle dispersions
82.	D-172	Studies on Mechanical Properties of Carbon nanotubes/High density polyethylene Nanocomposites by Small Punch Technique
83.	D-174	All Polymer FET Fabricated from Polypyrrole-Polyvinyl Alcohol (PPy-PVA) Nanocomposite
84.	D-175	Synthesis and Characterization of bi-functional CoFe ₂ O ₄ -ZnS Nanocomposite
85.	E-115	Pre-Annealing Treatment of Shallow Nanopores in Electrochemically Etched Silicon Microchannels For High Performance Electrical Bacteria Sensors
86.	E-116	LOW POWER AND HIGH SPEED FACTORIAL DESIGN IN 22nm TECHNOLOGY
87.	E-121	IN-SILICO CHARACTERIZATION OF MULTI WALLED CARBON NANOTUBES (MWCNTs) TO DEVELOP GAS SENSORS
88.	E-126	Humidity Sensing Studies Of SnO ₂ -WO ₃ Nanocomposites
89.	E-127	Novel Nanocides for Indian Agro-chemical industry
90.	E-129	Luminescence of CdS and CdS:Cu quantum dots embedded in PVA matrix
91.	E-130	A Study on Diverse Nano-Structure for Implementing Logic Gate Design for QCA
92.	E-131	Effect of Mn percentage on the Martensitic transformation in Ni-Mn-Ga single crystal
93.	E-134	An Amperometric Cholesterol Biosensor Based on Multiwalled Carbon Nanotube-Nafion-Cholesterol Oxidase-Cholesterol Esterase Nanobiocomposite
94.	E-135	On Possible Applications of PVA/PbS Nanocomposites
95.	F-025	Effect of nano-patterned Si (100) substrate on the magnetic properties of ultra thin Co film
96.	F-049	Magneto Caloric Effect in Nebulized Spray Pyrolysis synthesized Nano crystalline La _{0.67} Ca _{0.33} Mn _{0.9} V _{0.1} O ₃
97.	F-056	Microstructural, Magnetic and Electrical Properties of Co-Zn Ferrite nanoparticles Synthesized by chemical sol-gel method
98.	F-057	Structural, Surface morphology and Magnetic properties of La _{1-x} Pb _x MnO ₃ nanowires
99.	F-058	Template induced changes to magnetic behavior of CoO/CoFe ₂ O ₄ nanostructures
100.	F-059	Processing and Switching Behavior of Multiferroic (Bi _{0.7} Dy _{0.3} FeO ₃) Microstructure Arrays
101.	F-062	Studies on the photo-catalytic properties of reactive DC magnetron sputtered nano-Ta ₂ O ₅ thin films: Effect of oxygen pressure
102.	F-064	Nanoscale Ni-P binary alloy coating on carbon nanostructures and its Characterization
103.	F-065	LOW TEMPERATURE MOSSBAUER AND MAGNETIZATION STUDIES OF NANO SIZED Ni SUBSTITUTED CO-ZN FERRITES.
104.	F-066	Morphological Evaluation and Magnetic Studies of Barium Hexaferrites Nanoparticles Synthesized by Modified Flux Method
105.	F-067	SQUID, XRD and Raman scattering studies of Mn ²⁺ implanted gallium arsenide
106.	F-068	Structural and magnetic properties of nano nickel-zinc-indium ferrite synthesized via reverse micelle technique
107.	G-006	Coupled Effect of Strain and Magnetic Field on Electronic Band Structure of Graphene
108.	G-009	Structural, electronic, optical and vibrational properties of Zn _x S _y (x + y = 2 to 4) nanoclusters : a B3LYP-DFT study
109.	G-010	Upper bound on the load on a Cantilevered Thick Multiwalled Carbon Nanotube
110.	G-011	THERMAL ANALYSIS OF NANOFLUIDS USING MODELING AND MOLECULAR DYNAMICS SIMULATION
111.	G-012	Simulation and Analysis of Thermal Conductance of Carbon Nanotube
112.	G-013	Molecular Dynamics Simulations of Carbon nanotube-based Oscillators having topological defects
113.	G-016	DFT study of CO adsorption on Pt(111)
114.	G-017	Computational modeling and simulation of nanomolecular switch for alzheimers disease (A gene silencing technique)
115.	G-018	Insilico modeling and simulation of magnetic nanoparticles for the biological cell isolation technique
116.	G-019	Theoretical study of CO adsorption on B-N nano cage
117.	H-002	Nanostructured Titania as Anode for Rechargeable Lithium Batteries

Annexure II
Poster Session II (10.12.2009, THURSDAY): 14:00 – 16:00

Sl.	Abs. #	Title
1.	A-330	Structural and optical studies of Tb incorporated ZnO nanoparticles
2.	A-396	Synthesis, Characterization & Magnetic Properties of Fe-doped Cuprous oxide Nanorods
3.	A-419	Highly Charged Ions Induced Nanostructures on KBr(001) Surface
4.	A-424	Template synthesis of nickel, cobalt and nickel hexacyanoferrate nanodot, nanorod and nanotube arrays
5.	A-426	Synthesis and formation mechanism of ZnO nanobrushes
6.	A-427	Experimental Investigations on Nano-Sized Ferric Oxide and its LPG Sensing
7.	A-429	Effect of Temperature Cycles On Nanofluid Behaviour
8.	A-431	Controlling the shape and aspect ratio of core/shell nanostructures
9.	A-433	A simple dechlorination route to synthesis of carbon nanostructures with unique morphologies using solvothermal method
10.	A-436	Large-Scale and Shape-Controlled Syntheses of Three-Dimensional CdS Nanocrystals
11.	A-438	Gold Nanoparticles Modified TiO ₂ Nanotube Arrays for the Selective Determination of Ascorbic Acid
12.	A-440	Evolution nano-quasicrystalline and nano-crystalline phases in Al-Cu- Fe-Cr and Al-Cu-Fe-Mn alloys
13.	A-441	Swelling induced dewetting of strong polyelectrolyte ultrathin films
14.	A-444	Effect of annealing on Cadmium Selenide nanocrystalline thin film deposited by chemical bath deposition technique
15.	A-445	A novel route to Synthesis and Characterisation of rhabdophane rare earth phosphate nanorods
16.	A-446	Stability, pH and viscosity relationships in zinc oxide based nanofluids subject to heating and cooling cycles
17.	A-449	Structural and optical properties of α -Fe ₂ O ₃ nanowires
18.	A-452	Gold Nanoparticle-Cored Dendrimers with Direct Metal-Carbon Linkage
19.	A-453	Green Synthesis of Silver Nanoparticles using Neem Leaf (<i>Azadirachta indica</i>) Extract
20.	A-458	Absence of nanodots on GaAs(100) and GaAs(111) due to Ar ⁺ -ions
21.	A-459	Size-tunable Silver Nanoparticles Synthesized by using Aminopolycarboxylic acids at ambient-temperature.
22.	A-460	Single source precursor approach to prepare tin sulfide nanocrystallites and thin films
23.	A-467	Synthesis and characterization of tin oxide nanowire prepared by vapor-liquid-solid technique
24.	A-468	Microwave-assisted hydrothermal synthesis and characterization of ultra fine SnO ₂ nanoparticles
25.	A-469	MWCNT-TiO ₂ /Pt nanocomposites synthesis by sol-gel method and polyol process and investigation of the photocatalytic activity changes
26.	A-473	Evaluation of Tomato Juice Quality Using Surface Enhanced Raman Spectroscopy (SERS)
27.	A-482	Fabrication of Nanoporous Carbon Nanofibers with Uniform Open Mesopore Array on the Wall
28.	A-485	Enhanced fluorescence study of Pyrene with β -cyclodextrin-modified TiO ₂ nanoparticles
29.	A-488	Investigations on the electrical properties of ZnO nanorods and composites for photovoltaic applications
30.	A-489	Study on Vertical Alignment of Carbon Nanotubes using AFM and SEM
31.	A-490	Synthesis and Characterization of Silver Sulfide Nanoparticles of Various Morphologies using Chitosan as stabilizer
32.	A-491	Synthesis and characterization of ZnO nanoparticles
33.	A-492	Growth and optical properties of chemical bath deposited Cd _{0.7} Zn _{0.3} S nanoparticles
34.	A-494	Synthesis and characterization of Fe doped CdS nanocrystals
35.	A-495	Ionoluminescence studies in swift Si ⁷⁺ ion irradiated nanocrystalline aluminum oxide
36.	A-496	Adsorption and Desorption kinetics of low-dimensional Ga structures on Si(5 5 12)-2x1 trenched templates.
37.	A-497	Substrate effect on the morphology of multi-carbon nanoparticles
38.	A-498	Synthesis and Characterization of Chemically Grown Ultra-long Hexagonal ZnO Nanotubes
39.	A-502	Polymer-like self assembly in mixtures of cationic and anionic surfactants
40.	A-506	Frequency and time resolved spectroscopic studies of CdS and Mn ²⁺ doped CdS nanoparticles capped with polyvinyl pyrrolidone
41.	A-508	Evaporation induced self-assembled CTAB-silica films on differently terminated Si substrates: X-ray reflectivity study
42.	A-510	Effect of Rapid Thermal Annealing on Microstructure and Optical Properties of ZnO Nanorods
43.	A-512	Annealing effect on the dark electrical transport and absorbance spectra of chemical bath deposited CdS nanocrystallites
44.	A-513	Characterization of Ge nanocrystals embedded in SiO ₂ films prepared by ion irradiation
45.	A-514	Effect of Rapid Thermal Annealing on Swift Heavy Ion Induced Nanocrystallisation of TiO ₂
46.	A-515	Synthesis of blue and yellow emitting Dy ³⁺ doped GdPO ₄ nanoparticles
47.	A-517	Synthesis and Characterization of Nano lubricants using Hexagonal Boron Nitride hollow nano spheres
48.	A-520	Synthesis and characterization of Fe filled aligned carbon nanotubes by one step method
49.	A-521	Nano surface generation of lapping process using Single wall carbon nanotubes
50.	A-522	Synthesis of silver nanoparticles using egg yolk
51.	A-524	Nano Surface finish of Inconel 600 Using Single Wall Carbon Nano Tubes in Electrical Discharge Machining Process
52.	C-267	Fabrication of biogenic silver nanoparticles with agricultural crop plant leaf extracts
53.	C-268	Non-ionic micelles entrapped in biopolymeric hydrogels
54.	C-270	Antibacterial effect of TiO ₂ nanoparticles against <i>Actinobacillus actinomycetemcomitans</i> and <i>Fusobacterium nucleatum</i> strains
55.	C-271	Direct Electron Transfer of Catalase Enzyme on nickel oxide nanoparticles and its Applications as a biosensor
56.	C-274	Nanostructured Nd ³⁺ -doped yttrium aluminum garnet synthesis by Pechini method and its structural investigation

57.	C-276	Biocompatibility of sol-gel-derived nanostructure composite titania-bioglass films coated on stainless steel substrate
58.	C-280	Effect of gold nanoparticles on the human lung cancer cells
59.	C-281	A dual optical tweezer for microrheology of bacterial suspensions
60.	C-282	Chitosan nanoparticles as gene and protein carriers
61.	C-283	NANOTRIBOLOGY OF PLASMA SPRAYED HYDROXYAPATITE REINFORCED WITH ALUMINIUM OXIDE AND CARBON NANOTUBES
62.	C-289	Nanosulfur: Potent fungicide against food pathogen, <i>Aspergillus niger</i>
63.	C-291	SCREENING OF COMMON BACTERIA FOR BIOSYNTHESIS OF NANOPARTICLES
64.	D-176	Novel semiconductor-polymer composites for high dielectric permittivity and low dielectric loss applications
65.	D-179	Bonding and mechanical properties of nano filled polymers Fuel cell structure perspective
66.	D-180	A New Multiscale Method for Prediction of Elastic Properties of Bucky Paper in Polymer Nanocomposites
67.	D-181	Structural investigation of Nanocomposite (PEO + KNO ₃ + Nano Al ₂ O ₃) Solid Polymer Electrolytes
68.	D-182	Mechanical, tribological and electrochemical properties of pulse electrodeposited Cu-CeO ₂ nanocomposite coatings
69.	D-185	Synthesis of Polylactide- nano TiO ₂ nanocomposite: Thermo-mechanical and Optical Properties.
70.	D-186	Chemical Synthesis, Characterization and Thermal Analysis of Polyaniline / ZnO Core Shell Nano Composite
71.	D-187	Highly Sensitive Non-enzymatic Glucose Sensor Based on Nanoporous Copper oxide/Copper oxalate
72.	D-189	Synthesis and characterization of pure and (Ni, Co, Mn) doped ZnO nanoparticles by solid state reaction at room temperature
73.	D-190	Study of microstructure, tribological, thermal and mechanical properties of ultrahigh molecular weight polyethylene (UHMWPE)/ Copper nano composite
74.	D-191	On the phonon confinement and particle size in TiO ₂ :ZnO nanocomposite
75.	D-192	Transport and optical properties of Poly(N-vinylcarbazole)-TiO ₂ nanocomposites
76.	D-193	Synthesis and Characterization of Octa (aminophenyl) silsequioxane -Silica /Titania hybrid Sol-gel nanocomposite materials.
77.	D-194	Influence of functionalization and surfactant addition on the morphology and dispersion of multiwalled carbon nanotubes in polymer matrices
78.	D-196	Fabrication and Thermal properties of Silver nanoparticles/poly (vinyl alcohol) Nanocomposite
79.	D-197	Improvement of Diesel Fuel Combustion Characteristics by Cerium Oxide Nanoparticles
80.	D-201	Enhanced efficiency of nanocrystalline dye-sensitized solar cells by benzotriazole doped poly (ethylene oxide) polymer electrolyte
81.	D-202	Strong visible range electroluminescence from SHI irradiated MEH-PPV/PbS nanocomposite
82.	D-204	Concentration and pH-dependent SERS study of thiophene-3-carboxylic acid adsorbed on colloidal silver nano particles
83.	D-205	Temperature dependent dielectric properties of Ba _{0.8} Sr _{0.2} TiO ₃ nanocrystalline thin films.
84.	D-206	Catalytic activity of nano-hydroxylapatite on the production of gasoline
85.	D-207	Ionic transport and Structural Characterization of a PEO50 AgCF ₃ SO ₃ – based nanocomposite Polymer Electrolyte System Containing MgO Nanofillers
86.	D-208	Impact of ZrO ₂ Nanoparticles on Ionic Transport and Electrochemical Properties of Nanocomposite Gel Polymer Electrolyte: PPG (4000) –AgCF ₃ SO ₃ : ZrO ₂
87.	E-136	Nanostructured ITO Thin Films by RF Sputtering for Acetone Sensor
88.	E-138	Analysis of Short Channel Effects in Nanoscale MOSFETs
89.	E-139	Analysis of Gate Tunneling Currents in Nanoscale MOSFETs with SiO ₂ and High-k Gate Dielectrics
90.	E-140	Synthesis of CdO Nanoparticles by One step Solid state Reaction”
91.	E-141	Post-deposition annealing influenced structural and optical properties of RF magnetron sputtered TiO ₂ films
92.	E-144	Studies on Nanocrystalline Bismuth Telluride
93.	E-147	Quantum Interference Effects in Polarization of the lattice of graphene nanoribbons metallic
94.	E-150	Silica Nanotubes: Nanostructured host for controlled drug delivery, biosensing and confinement of biomacromolecules
95.	E-609	Highly sensitive and quickly responding ultrasonically sprayed nanostructured SnO ₂ thin films for Hydrogen gas sensing
96.	E-630	Nano Cu Activated SrTiO ₃ Thick Film as a Room Temperature H ₂ S Gas Sensor
97.	F-071	Synthesis of Nanocrystalline Co-Ni Alloy by Precursor Method
98.	F-072	RT Ferromagnetism in Undoped ZnO Nanocrystals
99.	F-073	Structural and magneto-dielectric property of (1-x)SBT-xLSMO nanocomposite thin films
100.	F-075	Emergence of ferromagnetism in nanoparticles of antiferromagnetic Nd _{0.4} Sr _{0.6} MnO ₃
101.	F-076	Modification of transport and magnetic behavior in half doped charge ordered nanocrystalline manganite Sm _{0.5} Ca _{0.5} MnO ₃ .
102.	F-077	Magnetic Properties of Al ³⁺ /Fe/Cr multilayers and Fe ₂ CrAl Heusler alloy thin film
103.	F-079	Synthesis of single phase magnetite, Fe ₃ O ₄ nanocrystallites using single source precursor
104.	F-081	Hydrothermal Synthesis and Characterization of Cobalt doped α -Fe ₂ O ₃
105.	F-082	Mechanism of Chain Formation in Nanofluid based MR fluid
106.	F-083	Structural, magnetic and magnetotransport properties of nanocrystalline Pr _{1-x} A _x Mn _{1-y} Co _y O ₃ (A = Sr, Ca; x = 0.3, y = 0.5)
107.	F-085	Cobalt Ferrite nanoparticles for Alcohol Sensing Application
108.	F-086	Films of PVA/ Co/Ag Nanocomposites: Effect of Ageing on Magnetic Properties
109.	G-020	Tunable resonant states in mesoscopic systems: wave-function engineering in open quantum dots based in the 2DEG
110.	G-022	Density Functional Theory methods can accurately predict two-photon absorption profiles
111.	G-024	Ti-C _x (x=2-3) and Ti ₂ -C ₂ nanoclusters for hydrogen storage
112.	G-026	A theoretical study on the electronic structure of bare and passivated GaAs Nanowires

113.	G-028	INVESTIGATING BRIDGE LIKE STRUCTURES IN A SQUARE WELL BINARY MIXTURE USING NVT MONTE CARLO SIMULATION
114.	G-029	Nano Electronics: Designing of Logic Gates using a Mesoscopic Ring with embedded Quantum Dots
115.	G-032	Surface Effects on the Velocity of Dislocation in Thin Films
116.	G-034	Frequency Dependent Polarizability of Small Silicon Clusters
117.	G-035	Leakage Control of Digital Circuits Using McCMOS Technique
118.	G-037	Doped Cage like Structure of Cd9S9

Annexure III
Poster Session III (11.12.2009, FRIDAY): 11:05 – 13:00

Sl.	Abs. #	Title
1.	A-410	Synthesis of free-standing ZnO nanosearchins and nanowhiskers by VLS approach and their preliminary applications
2.	A-525	Dumbbell-like ZnO nanorods: Growth and Characterization
3.	A-526	Preparation and characterization of VO _x nanorods using pulsed laser deposition technique.
4.	A-527	Controlling the shape of nanoparticles
5.	A-531	Enhanced optical absorption in noble metal nanoclusters decorated GaN nanowires
6.	A-532	Synthesis and Characterization of ZnS:Mn ²⁺ Nanoparticles capped with TGA: Effect of Temperature and Dopent Concentration
7.	A-533	Ultra violet photoresponse properties of self-seeded grown ZnO nanowire arrays
8.	A-534	Synthesis and characterization of CNT reinforced AA4032 nanocomposites by high energy ball milling
9.	A-535	ZnS/CdS Core/Shell Nanostructures For Light Emission in Blue Region
10.	A-536	CARBON NANOCUBES AND NANOBLOCKS FROM PYROLYSIS OF RICE
11.	A-537	Effect of Ce ³⁺ in structure and luminescence properties of YPO ₄ :Eu ³⁺ nanoparticles prepared by polyethylene glycol-glycerol route
12.	A-538	Structural, Optical and Mechanical Characterization of Antimony doped Zirconium Sulphide Nanotubes
13.	A-541	Synthesis and Characterisation of HMTA Capped Nanocrystalline CdS-Hydrothermal Method
14.	A-542	Photo-catalytic activity of ZnS nanowires
15.	A-544	Nanocrystalline diamond thin films for tribological applications using hot filament CVD
16.	A-545	Variation of Photoluminescence peak center with the excitation energy in porous silicon
17.	A-547	Synthesis of Silver Nanoparticles in Ethylene glycol-water mixtures
18.	A-549	Nanoclay Templated Poly(Vinylidene Fluoride) and its Copolymer gels
19.	A-550	Effect of cathode-anode spacing on field enhancement factor of carbon nanotube cathode
20.	A-554	Growth of Uniform Diameter Carbon nanotubes by Low Pressure Chemical Vapor Deposition on Ferritin based SiO ₂ / Si Substrate
21.	A-555	AC-mode current imaging using AFM: A new tool for imaging/spectroscopy of nanostructures
22.	A-556	Does Iron Oxide Impurities in Carbon Nanotubes Responsible for Electrocatalysis?
23.	A-563	Gold nanoparticles embedded Transparent Conducting Oxides: Preparation, characterization and tuning the optical properties.
24.	A-564	Swift heavy ion induced nanostructures on the surface of GaP
25.	A-567	Studies on Electrodeposition of Highly Oriented Three Dimensional ZnO Microarrays.
26.	A-568	Effect of Swift Heavy Ion Irradiation on Gas Sensing Properties of Hydroxyapatite Nanoceramic Thick Films
27.	A-569	Swift heavy ion irradiation effect on nanometer range W/Fe multilayers
28.	A-570	Evidence of thickness dependent stability of nanometer range of W/Ni multilayers against swift heavy ion irradiation
29.	A-571	Fabrication of composite cholesterol oxidase bioelectrode with carbon nanotube based direct electron transfer for biofuel cell application.
30.	A-573	Photochemically Grown Silver Nanocubes: Synthesis and Characterization
31.	A-574	Microwave treated rapid hydrothermal synthesis of ZnO Nano-flakes array: The effect of citric acid as capping agent
32.	A-576	Effect of growth temperature on the catalyst free growth of long Silicon nanowires using radio frequency magnetron sputtering
33.	A-577	Theoretical study on size dependent properties of TiO ₂ and doped TiO ₂ Nanoclusters
34.	A-584	Electronic structure of coiled carbon nanotubes: Application to hydrogen storage
35.	A-578	A simpler synthesis of mesoporous ZnS nanoparticles from a single precursor [Zn(SOCCH ₃) ₂ Lu ₂] complex
36.	A-579	Superstructural phase formation of Sb on Si(5 5 7) surface
37.	A-580	Nanocrystalline ZnO Semi conducting thin film: Preparation, Characterization and Application in DSSCs
38.	A-585	Ultrafast heat dissipation dynamics of silver nanoparticles
39.	A-587	Growth of indium rich nano-crystalline In _x Ga _{1-x} N thin films by modified activated reactive evaporation
40.	A-588	Controlled Growth of Single Wall Carbon Nanotube
41.	A-590	Linear Optical Absorption in Zigzag BN Nanoribbons
42.	A-593	Multiwalled Carbon Nanotubes as an Electron Relay in the Electrocatalytic Reduction of Hydrogen Peroxide
43.	A-594	Structural Characterization of CdSe and ZnSe nanoparticles
44.	A-599	Improved chemical synthesis of graphene using a solvothermal route
45.	A-601	Structural Transition of Nanocrystalline TiO ₂
46.	A-602	The Effect of Filter Type, Concentration and Type of Carbon Nanotube on the Buckypaper Surface Quality
47.	A-606	Synthesis and Characterization of Metal Oxides Nanomaterial using modified Alkoxides as Precursor
48.	A-608	Effect of nanocrystalline ceramic coats produced by plasma electrolytic oxidation on corrosion behavior of AA5083 aluminum alloy
49.	A-611	Nanophase separation and carrier type reversal in Ge-Se-Pb glasses
50.	A-618	Dynamics of Ag growth on Si(111)-(7x7) Surfaces: A Scaling Study
51.	A-642	Growth of Si Atomic Wires on Pb Mediated Si(111) Substrate
52.	A-643	Ultrafast charge carrier dynamics in CdTe/CdS core-shell quantum dots as Studied by femtosecond transient absorption spectroscopy
53.	A-648	Room temperature ferromagnetism in Co doped ZnO nanoparticles: Milling time dependence and annealing effect
54.	A-649	Optical and structural properties of nanocrystalline Ta ₂ O ₅ thin films

55.	A-650	Compression Effect on Electrical Properties of Carbon Nanotube Bundle
56.	A-652	Electrical transport and transient photocurrent studies on CdS nanorods thin films
57.	A-653	Preparation of AMPS-based Hydrogel Nanocomposite for Controlled Release of Anti-inflammatory Agent
58.	C-294	Synthesis of grapheme/ chitosan nanocomposite thin films for application as amperometric humidity sensors
59.	C-295	Nano-gold and nano-zinc oxide: Effect on gustatory receptor genes in flies
60.	C-296	Polyaniline nanofibers as potential antioxidants for biomedical and industrial applications
61.	C-297	A novel biological route towards the synthesis of copper nanoparticles
62.	C-299	Potential of Nanochitosan Coated Inert Substrate as an Antibacterial Water Filter
63.	C-300	Production of herbal based nanocapsules for medical textiles
64.	C-301	Amide Functionalization of Multi Walled Carbon Nano Tubes and Their Evaluation for Hg (II) Removal from Water
65.	C-302	NANO-COMPOSITE CHITOSAN-TITANIUM OXIDE PLATFORM IMMUNO- SENSOR FOR MYCOTOXIN DETECTION
66.	C-303	Bioconjugated Quantum Dots based Rapid Detection of Pathogenic Bacteria from Water Samples
67.	C-305	Collagen coated nanoliposome as a targeted and controlled drug delivery system
68.	C-309	DSETHVASAN: A Novel Nanodrug Against Sleeping Sickness Disease
69.	C-621	Efficient delivery of nucleic acids by using modified Polyethylenimine based nanoparticles
70.	D-210	Photo catalytic degradation of organic dyes using nano ZnO
71.	D-211	Finite Size Effect on Gd Doped Nanosize CoGdxFe2-xO4 Particles
72.	D-212	Visible photoluminescence of MWCNT/CdS nanohybrid structure synthesized by a simple chemical process
73.	D-213	Preparation of gold nanoparticle-quercetin complexes by citrate reduction method
74.	D-214	Preparation and characterization of poly(lactic acid)/chitosan nanocomposites for controlled release of paclitaxel
75.	D-215	Conducting Properties of Nanostructured Composite Ceramics
76.	D-216	Trans-polyisoprene-CdS Nano-composites: Synthesis, Thermal and Thermo-mechanical Properties
77.	D-219	Bio based hyperbranched polyurethane/clay nanocomposites and their prospects
78.	D-220	Preparation and Characterization of polyindole - iron oxide nanocomposite electrolyte
79.	D-222	Hyperbranched poly(ether amine) modified clay and its nanocomposites with bio-based epoxy
80.	D-223	Effect of CdS Nano-filler on Thermo-mechanical Properties of PMMA
81.	D-224	Effect of hysteresis on bending response of an ionic polymer-metal composite actuator
82.	D-226	Effects of organic solvents during molecular imprinting on nanoporous characteristics of benzo[a]pyrene imprinted polymer
83.	D-229	Ionic transport studies in novel hyperbranched polyurethane/clay nanocomposite gel polymer electrolytes
84.	D-231	Formation of Silver Nanoparticles in Triblock Copolymer Micellar Template and self-assembled nano structures
85.	D-236	Novel Bio-Nanocomposites for Next Generation Biomedical Implants
86.	D-237	Development of Core-Shell Structure Synthesis by ZrO ₂ in SWNT and MWNT-Nanocomposites
87.	D-238	Effects of deposition conditions on nanomechanical and tribological properties of Thin Nano-Crystalline Lubricating Coatings
88.	D-240	The Influence of Organic Modifier In a Commercially Available Organoclay On the Intercalation Process
89.	D-241	Study the Effect of Nanoclay Content on J-Integral Parameter of PP/Nanoclay Nanocomposites
90.	D-626	Effect of Shear Rate and Nanoclay Content on the Die Swell of Polypropylene Nanocomposites Extruded under Capillary Flow
91.	D-628	Manufacturing of Large Size Nanocomposite Buckypaper Using Vacuum Filtration Technique
92.	F-092	Structural and Magnetic Properties of Ni-Zn Ferrite Nanoparticles
93.	F-094	Study of Magnetic Behaviour of Nickel Ferrite Nano Particles
94.	F-097	Property Variation with shape in ferromagnetic cobalt nanocubes
95.	F-098	A comparative study on the structural and magnetic properties of nickel ferrite nanoparticles synthesized by sol-gel and co-precipitation techniques
96.	F-101	Magnetoresistive behaviour of nano-particles of magnetite and its Mn substituted analogue
97.	F-102	Negative domain wall resistance in polycrystalline Co film
98.	F-103	Lattice Defect Induced Ferromagnetism in Implanted ZnO Single Crystal
99.	F-105	Magnetic Phase Transitions of Assembly of Cobalt Chromite Nanoparticles
100.	F-106	Structural and Magnetic Properties of Arrays of CoPt Nanowires Synthesized by Electrodeposition Technique
101.	F-107	Fe ₃ O ₄ : CNT Nanomagnetic Composites
102.	F-110	Effect of pH on Magnetic and Structural Properties of Low Temperature Synthesized MgFe ₂ O ₄ Nanoparticles
103.	F-113	Magnetic signatures and interplay of Cr ³⁺ -Cr ³⁺ , Gd ³⁺ -Cr ³⁺ and Gd ³⁺ -Gd ³⁺ superexchange interactions in GdCrO ₃ nanoparticles
104.	F-119	Magneto-Transport in La _{0.7} Sr _{0.3} MnO ₃ /n-Si-Nanotips Heterojunction
105.	F-120	Fe nanoparticles embedded in Al ₂ O ₃ (0001) single crystals: Local structure, optical and magnetic properties
106.	F-635	Photocatalytic and Magnetic properties of nanocrystalline ZnMn ₂ O ₄
107.	F-637	Convenient synthesis of nanocrystalline (α-Fe ₂ O ₃) and its characterizations
108.	F-641	Structural and Magnetic Properties of Nanocrystalline Sn _{0.98} Co _{0.02} O ₂ under different Annealing conditions
109.	G-038	Application of Lattice Boltzmann method to Micro-Cavities
110.	G-039	Accurate wavefunction for an on-center hydrogenic donor impurity in a GaAs/GaAlAs parabolic quantum dot
111.	G-040	DFT studies on CO oxidation and NO reduction by Pd ₄ clusters
112.	G-043	An ab-initio study of [001] SiC nanowires
113.	G-045	Coherent to Semicoherent Transition in Nanoprecipitates using Finite Element Method

114.	G-047	Phonon Dispersion Relations of Boron Nitride Single Wall Nanotube
115.	G-091	Magnetism in small fullerenes due to Cr, Mn, Fe, Co and Ni in encapsulation: A spin polarized density functional theory
116.	G-638	A Hybrid Molecular Dynamics Study of Mechanical Properties of FCC Metals
117.	G-639	Single particle states of a cylindrical quantum dot with finite wall height under transverse magnetic field

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