

(07) Nanomaterials : Synthesis and Properties

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(7) Nanomaterials : Synthesis and Properties

DETAILED PROGRAMME

Monday, 16-12-2013

Session I : 10.15 – 11.15

10.15 - 10.45 Invited Talk (1)	M. Yoshimura, J. Senthilnathan, K. Sanjeeva Rao and Y.F. Liu	ABS - Email - ICA Direct Fabrication of Graphene and Functionalized Graphene by Solution Processes
10.45 - 11.15 Invited Talk (2)	Ik Jin Kim	ABS - Email - ICA Microporous Ceramics from Particle-Stabilized Wet Foams

Session II : 11.45 – 13.15

11.45 - 12.00 Oral (1)	Kishore Sridharan, Nivya Roy, Reji Philip, and Tae Joo Park	ABS - 101 - ICA Multi-dimensional Manganese oxide-metal (Fe, Co and Ni) oxide composite nanostructures: synthesis, photocatalytic and optical limiting properties
12.00 - 12.15 Oral (2)	Sandip K. Pahari, Arka Saha and Asit Baran Panda	ABS - 74 - ICA An efficient hydrolytic approach for size and shape selective monodisperse metal oxide nanoparticles
12.15 - 12.30 Oral (3)	B.M. Manohara, H. Nagabhushana, K. Thyagarajan, S.C. Prashantha, B.M. Nagabhushana, C. Shivakumara, R.P.S. Chakradhar	ABS - 287 - ICA Synthesis, Characterization and Photoluminescence of CdSiO ₃ : Nd ³⁺ nanophosphor
12.30 - 12.45 Oral (4)	Baburao N. Sherikar and A.M. Umarji	ABS - 1130 - ICA Effect of various fuels on Diopside Phase Formation during Solution Combustion Synthesis
12.45 - 13.00 Oral (5)	A. Ghosh and S.B. Majumder	ABS - 425 - ICA Carbon Dioxide Gas Detection by Metal Oxide Heterojunction Thin Film
13.00 - 13.15 Oral (6)	K. Dutta, A. Hazra, B. Bhowmik, P.P. Chattopadhyay, P. Bhattacharyya	ABS - 467 - ICA Mixed Electrolyte: A Controllable Route for Achieving Better Aspect Ratio of TiO ₂ Nanotubes

Session III : 16.00 – 18.00

16.00 - 16.30 Invited Talk (3)	M. Eswaramoorthy	ABS - Email - ICA Organic-inorganic hybrids: synthesis and their unusual applications
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16.30 - 17.00 Invited Talk (4)	Kohei SOGA	ABS - Email - ICA Materials Development for OTN-NIR Small Animal Fluorescence Bioimaging
17.00 - 17.15 Oral (7)	Simimol A., Aji A Anappara, Prasanta Chowdhury, Sandip Dhara and Harish C.	ABS - 555 - ICA Enhanced defect emission in Co doped ZnO nanorods synthesized by electrochemical route
17.15 - 17.30 Oral (8)	Sambhaji S. Warule, Mahendra A. More and Bharat B. Kale	ABS - 906 - ICA Single step hydrothermal approach for devising hierarchical Ag-ZnO heterostructures with significant enhancement in field emission performance
17.30 - 17.45 Oral (9)	Anchal Srivastava and Nishant Kumar	ABS - 796 - ICA Enhanced UV Emission in Al Doped Nanocrystalline ZnO Thin Films
17.45 - 18.00 Oral (10)	D. Syamala Bai, R. Padmasuvarna	ABS - 1348 - ICA Metal Oxide Nano Particles with PEG 6000-Characterization- Nano Spintronic Sensor Application

Tuesday, 17-12-2013

Session IV : 10.15 – 11.15

10.15 - 10.45 Invited Talk (5)	Young-Jei Oh and Byung-Yong Wang	ABS - Email - ICA Preparation and Characterization of Ag, Cu and Al Doped-ZnO Nanomaterials for Flexible Electronics
10.45 - 11.15 Invited Talk (6)	S. Narayana Kalkura	ABS - Email - ICA Low temperature synthesis and surface modification of Calcium Phosphate based Bioceramic Composites

Session V : 11.45 – 13.15

11.45 - 12.00 Oral (11)	Kapil Gupta, Shubra Singh and M.S. Ramachandra Rao	ABS - 621 - ICA Ageing of nanostructured Brownmillerite $\text{CaFeO}_{2.5}$ in CO_2 containing atmosphere
12.00 - 12.15 Oral (12)	Usha Chandra, Pooja Sharma, T.C. Sharma and B. Sreedhar	ABS - 554 - ICA The effect of particle size on narrow based $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$ system using Mossbauer spectroscopic and magnetic measurements
12.15 - 12.30 Oral (13)	Vairapperumal Tamilmani, Kalarical Janardhanan Sreeram and Balachandran Unni Nair	ABS - 782 - ICA Size, shape and polymorph control in Luminescent Vanadate: Role of Catechin Hydrate and Tri Sodium Citrate
12.30 - 12.45 Oral (14)	Simrjit Singh, Deepanshu Sharma and Neeraj Khare	ABS - 1246 - ICA Size dependent magnetic properties of Cobalt Ferrite Nanoparticles synthesized by Hydrothermal Technique using Ascorbic Acid as Surfactant

12.45 - 13.00 Oral (15)	Bobu Manuel Jolly and S.S. Bhattacharya	ABS - 1319 - ICA Controlled synthesis of Nanocrystalline Alumina Particles by Flame Spray Pyrolysis
13.00 - 13.15 Oral (16)	Nilotpal Ghosh, Subarna Dutta, and Barnali Ghosh	ABS - 315 - ICA Synthesis, Magnetic memory and relaxation of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ nano particles

Session VI : 16.00 – 18.00

16.00 - 16.30 Invited Talk (7)	Benedict Hsu, Yu Zhang, Xu Li and John Wang	ABS - Email - ICA Nanohybrid-encapsulated Manganese Oxide Nanoparticles for Optimized NRI
16.30 - 17.00 Invited Talk (8)	M.V. Reddy and B.V.R. Chowdari	ABS - Email - ICA Chemical synthesis of Metal Nitrides and Oxides
17.00 - 17.15 Oral (17)	G. Ravi, Naveen Kumar Veldurthi, Suresh Palla, J.R. Reddy, Ravinder Guje, Someshwar Pola and M. Vithal	ABS - 241 - ICA Synthesis, Characterization and Photocatalytic Activity of $\text{KAl}_{0.33}\text{W}_{1.67}\text{O}_6$ and $\text{Sn}_{0.5}\text{Al}_{0.33}\text{W}_{1.67}\text{O}_6 \cdot x\text{H}_2\text{O}$
17.15 - 17.30 Oral (18)	N.S. Sanjini and S. Velmathi	ABS - 617 - ICA Photocatalytic activity of titanium doped mesoporus KIT-6 for the degradation of different dyes under UV light and sunlight
17.30 - 17.45 Oral (19)	Y. Maruyama and T. Watanabe	ABS - 1162 - ICA Synthesis of $\text{CaAlSiN}_3:\text{Ce}^{3+}$ by ammonothermal method
17.45 - 18.00 Oral (20)	Deepak Ranjan Nayak, Siva Umaphathy and Navakanta Bhat	ABS - 1225 - ICA Study of Silicon and Germanium Nanowires Growth by Plasma Enhanced Chemical Vapor Deposition

Wednesday, 18-12-2013

Session VII : 10.15 – 11.15

10.15 - 10.45 Invited Talk (9)	Balaji R. Jagirdar	ABS - Email - ICA Solvated Metal Atom Dispersion and Digestive Ripening – <i>Duo par excellence</i> for Diverse Nanostructured Materials
10.45 - 11.15 Invited Talk (10)	Tomoaki Watanabe	ABS - Email - ICA Ammonothermal Route to Functional Nitrides and Oxynitrides

Session VIII : 11.45 – 13.15

11.45 - 12.00 Oral (21)	K. Sindhu, A. Rajaram and Rama Rajaram	ABS - 1608 - ICA Room temperature synthesis of gold nanoparticles using ellagic acid
11.45 - 12.00 Oral (22)	K. Sarkar and P. Banerji	ABS - 939 - ICA Preparation of silver nanoparticles through the thermal reduction of silver nitrate using ethanolamine

11.45 - 12.00 Oral (23)	Abhitosh Kedia, Ranjan Singhal and P. Senthil Kumar	ABS - 668 - ICA Engineering the Plasmonic Response of Gold Nanostars with Halide Ions
11.45 - 12.00 Oral (24)	Abhishek Swarnkar, Satarupa Pattanayak, Amiya Priyam and G.M. Bhalerao	ABS - 912 - ICA Single step synthesis of tunable anisotropic silver nanocrystals having near-IR Plasmon bands
11.45 - 12.00 Oral (25)	Madhuri Mandal, Debasish Sarkar	ABS - 890 - ICA Micelles mediated synthesis of Magnetite (Fe ₃ O ₄) hollow spheres and a study on Magnetic Properties for Hyperthermia Applications
11.45 - 12.00 Oral (26)	Pawan Kumar, Praveen Kumar, A.K. Paul, Akash Deep	ABS - 826 - ICA Aqueous synthesis of luminescent Zinc imidazolate Framework for Biological Applications

Session IX : 16.00 – 18.00

16.00 - 16.30 Invited Talk (11)	Ranjani Viswanatha	ABS - Email - ICA Defects in nanomaterials: Implications in various applications
16.30 - 17.00 Invited Talk (12)	K. Byrappa and K. Namratha	ABS - Email - ICA Organic assisted solution processing of TiO ₂ , ZnO, NiFe ₂ O ₄ and Fe ₃ O ₄ particles for biomedical applications
17.00 - 17.30 Invited Talk (13)	N. Sakamoto, K. Kamimura, S. Maneyama and N. Wakiya and H. Suzuki	ABS - Email - ICA Solution derived 12CaO 7Al ₂ O ₃ Nanoparticles clathrating oxygen Radicals O ⁻
17.30 - 17.45 Oral (27)	Sovan Kumar Patra and Amiya Priyam	ABS - 806 - ICA Supersaturation-Controlled Aqueous Synthesis of ZnTe Quantum Dots with High Monodispersity and Tunable Luminescence
17.45 - 18.00 Oral (28)	Runjan Sarma, Queen Das, Anand Ramteke, Dambarudhar Mohanta, Amarjyoti Choudhury	ABS - 1412 - ICA Water soluble manganese selenide quantum dots and their bioconjugation response with bovin serum albumin protein

Thursday, 19-12-2013

Session X : 10.15 – 11.15

10.15 - 10.45 Invited Talk (14)	Amol A. Kulkarni and B.L.V. Prasad	ABS - Email - ICA Evaluation of Batch Process for continuous flow synthesis of Metal and Metal Oxide Nanomaterials
10.45 - 11.15 Invited Talk (15)	G. Bhagavannarayana	ABS - Email - ICA Enhancement of Crystal Perfection by Appropriate Growth conditions or after growth processing steps in Strategic Bulk Single Crystals Grown by CZ-method

Session XI : 11.45 – 13.15

11.45 - 12.00 Oral (29)	R. Dhanabail, A. Chithambararaj and A. Chandra Bose	ABS - 605 - ICA Investigation of structural, optical and gas sensing properties of molybdenum trioxide thin film
12.00 - 12.15 Oral (30)	C. Pandurangappa and B.N. Lakshminarasappa	ABS - 409 - ICA Synthesis, Characterization and Optical studies of Gd and Dy doped Calcium fluoride Nanocrystals
12.15 - 12.30 Oral (31)	Sudheer Kumar, Anshu Tyagi, C. Tessarek, G. Sarau, S. Christiansen and R. Singh	ABS - 413 - ICA Self induced growth of gallium oxide nanostructures using CVD technique
12.30 - 12.45 Oral (32)	Swarup Kundu and K.B.R. Varma	ABS - 451 - ICA Nanocrystalline Ba ₂ NaNb ₅ O ₁₅ ; synthesis, structural and optical properties
12.45 - 13.00 Oral (33)	B. Manmadharao and Somnath C. Roy	ABS - 401 - ICA Functionalization of TiO ₂ Nanotubes with Copper Oxide Nanoparticles synthesized through Photo-Chemical Reduction technique
13.00 - 13.15 Oral (34)	Afzal Khan and Chacko Jacob	ABS - 284 - ICA Growth and characterization of 3C-SiC nanorods using Au as a Catalyst

Session XII : 16.00 – 18.00

16.00 - 16.15 Oral (35)	S. Das, A. Dutta, S. Banerjee and T.P. Sinha	ABS - 17 - ICA Dielectric and Vibrational Properties of CdSe Nanorods
16.15 - 16.30 Oral (36)	Navnita Kumari, Arindam Ghosh, Ayon Bhattacharjee	ABS - 336 - ICA AC transport mechanism in pure and Cu doped SnO ₂ pellets
16.30 - 16.45 Oral (37)	Megha Sharma, Ann Nimmy Thomas, Prasanta Choudhury and Harish C. Barshilia	ABS - 699 - ICA Heat generation analysis and anode temperature measurement during the formation of nanoporous aluminium oxide
16.45 - 17.00 Oral (38)	Abhimanyu Singh and Amiya Priyam	ABS - 944 - ICA Mn-doped CdTe quantum dots: A supersaturation based aqueous approach to enhance the luminescence efficiency and monodispersity
17.00 - 17.15 Oral (39)	Subhra Jana, Ji Woong Chang and Robert M. Rioux	ABS - 1228 - ICA Hollow Intermetallic Nanoparticles: Colloidal Synthesis and Development of Isotropic Diffusion Model
17.15 - 17.30 Oral (40)	S. Prabhu, K. Jeganathan and K. Jothi venkatachalam	ABS - 1158 - ICA Facile synthesis, Characterization of WO ₃ supported on Zeolite-Y and its photocatalytic efficiency

17.30 - 17.45 Oral (41)	Subhenjit Hazra, Manoj K. Patra, Sampat R. Vadera and Narendra N. Ghosh	ABS - 969 - ICA A Novel aqueous solution based 'One-Pot' synthetic route for preparation of Soft-Hard Ferrite Nanocomposites having high saturation magnetization and high coercivity value
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Friday, 20-12-2013

Session XIII : 10.15 – 11.15

10.15 - 10.30 Oral (42)	T.R. Ravikumar Naik and S.A. Shivashankar	ABS - 1660 - ICA Novel, microwave-assisted synthesis of nanocrystalline SrZnO ₂
10.30 - 10.45 Oral (43)	J.K. Radhakrishnan, Srijit Pillai, T. Bhuvana, C.A. Mratunjaya, D.C. Sikdar	ABS - 1323 - ICA Microwave assisted growth of ZnO Nanorods and their temperature modulation for Oxygen Sensitivity
10.45 - 11.00 Oral (44)	Nidhi Verma, Rama Singh and B.C. Yadav	ABS - 1400 - ICA Fabrication of barium titanate nanocomposite film: structural, optical, electrical characterization and applications as liquefied petroleum gas and opto-electronic humidity sensors
11.00 - 11.15 Oral (45)	A. Hazra, B. Bhowmik, K. Dutta, P. Bhattacharyya	ABS - 623 - ICA Sol-gel derived nanocrystalline undoped p-TiO ₂ Thin Film: Structural, Optical and MIS Device Characteristics

Session XIV : 11.45 – 13.15

11.45 - 12.00 Oral (46)	Ashish Jain, S. Anthonysamy, C. Ghosh, R.Divakar, E. Mohandas	ABS - 1277 - ICA Synthesis, characterization and sintering of calcia stabilized zirconia
12.00 - 12.15 Oral (47)	Nilima S. Chaudhari and Bharat B. Kale	ABS - 1255 - ICA Nanostructured N-doped TiO ₂ Marigold Flowers for an efficient Solar Hydrogen Production from H ₂ S
12.15 - 12.30 Oral (48)	Zulhair A. Mansurov	ABS - 1437 - ICA Synthesis of Carbon Nanomaterials in Combustion
12.30 - 12.45 Oral (49)	Keyur Hingarajiya, K.D. Patel, G.K. Solanki and V.M. Pathak	ABS - 1386 - ICA Influence of Annealing Temperature on structural and optical properties of Nanocrystalline SnSe thin film
12.45 - 13.00 Oral (50)	Ranjusha R, Roshny J, Lakshmi V, Praveen P, Shantikumar V Nair, Avinash Balakrishnan	ABS - 819 - ICA Fabrication of high performance button cell supercapacitor based on camphoric carbon nano-bead/MnO ₂ nanowire nanocomposites
13.00 - 13.15 Oral (51)	Nilam Qureshi, Madhuri Ombale, Manish Shinde, Govind Umarji, Ratna Chauhan, Uttam Mulik, Dinesh Amalnekar	ABS - Email - ICA Plain and Hierarchical Nanostructures of Mo/MoO ₃ embedded in PPS Matrix via Solid State Route

Session XV : 14.00 – 15.30

14.00 - 14.15 Oral (52)	Vaishaka R. Rao and A. Chitharanjan Hegde	ABS - 302 - ICA Electrofabrication and characterization of nanoscale Ni-Cd multilayer coatings
14.15 - 14.30 Oral (53)	A.N. Tarale, S.R. Jiagajeni, S.B. Kulkarni, V.R. Reddy and P.B. Joshi	ABS - 1059 - ICA Structural, Morphological, Ferroelectric and Magnetodielectric Properties of the $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ thin film Heterostructures.
14.30 - 14.45 Oral (54)	Govind Sharma, Sushil Kumar Singh, Amita Gupta, and Ratnamala Chatterjee	ABS - 117 - ICA Nano-textured piezoelectric oxide thin films on Si-wafers for MEMS application
14.45 - 15.00 Oral (55)	D. Praveen Kumar, N. Lakshmana Reddy, G. Madhusudana, M. Mamatha Kumari, M.V. Shankar and V. Durga Kumari	ABS - 372 - ICA Enhanced Photocatalytic H_2 Production using Semiconductor Nanocomposites under Solar Light Irradiations: Influence of Hydrogen ion concentration and Organic Scavengers
15.00 - 15.15 Oral (56)	Sanjeev Kumar, Fouran Singh and A. Kapoor	ABS - 1605 - ICA Effect of Mg doping on Structural and Optical Properties of ZnO Nanoparticles synthesized by Sol-gel method
15.15 - 15.30 Oral (57)	Richa Khokhra and Rajesh Kumar	ABS - Email - ICA Magnetic properties of Fe doped ZnO Nanosheets fabricated on Glass Wafer by Chemical Method

Session XVI : 16.00 – 18.00

16.00 - 16.15 Oral (58)	C.Izawa, T.Kobayashi, K.Kishida and T.Watanabe	ABS - 258 - ICA Ammonothermal synthesis of lower valence cation-doped LaNbON_2
16.15 - 16.30 Oral (59)	Sanju Rani and N. Rajalakshmi	ABS - 401a - ICA Synthesis of Graphene Quantum dots and their Photoelectrochemical properties for hydrogen generation
16.30 - 16.45 Oral (60)	H.B. Premkumar, H. Nagabhushana, S.C. Prashantha, B.M. Nagabhushana, C. Shivakumara	ABS - 525 - ICA Synthesis, Structural, Photo and Thermoluminescence Properties of Fe^{3+} doped YAlO_3 Nanophosphors
16.45 - 17.00 Oral (61)	Ramachandra Naik, S.C. Prashantha, H. Nagabhushana, S.C. Sharma, H.P. Nagaswarupa, H.B. Premakumar, Girish, B.M. Nagabhushana	ABS - 553 - ICA $\text{Mg}_2\text{SiO}_4: \text{Tb}^{3+}$ green nanophosphor: low temperature synthesis and photoluminescence properties

Poster Session :**Monday, 16-12-2013, 14.00 - 15.30, 07-Poster-1 to 24****Tuesday, 17-12-2013, 14-00 - 15.30, 07-Poster-25 to 64****Thursday, 19-12-2013, 14.00 - 15.30, 07 Poster 65 to 92**

07 - Poster - 01	Manjunatha S, Siddanagouda and Dharmaprakash MS	Sol-gel synthesis of Ce ⁺⁴ doped t-zirconia nanoparticles and study of its Photoluminescence properties	ABS - 44 - ICA
07 - Poster - 02	G. Boopathi, S. Gokul Raj, G. Ramesh Kumar and R. Mohan	Preparation, Structure, Morphology and optical properties of Nd ³⁺ doped Gd ₂ O ₃ nanorods	ABS - 85 - ICA
07 - Poster - 03	Kaustab Mandal, Debaleena Bhattacharjee, Kausik Dana and Subrata Dasgupta	Nanoporous Pd/Ag Alloys: Synthesis and Catalytic Activities Towards H ₂ Generation from Formic Acid at Room Temperature	ABS - 164 - ICA
07 - Poster - 04	Qiao-Feng Han, Yi Qin, Jun-Wu Zhu, Xin Wang	Liquid-liquid interfacial synthesis of uniform CdS nanospheres	ABS - 172 - ICA
07 - Poster - 05	Ishani Roy and S. Hazra	Enhanced Crystalline Order in Poly (3-dodecylthiophene) Films by Introduction of a Poor Solvent	ABS - 219 - ICA
07 - Poster - 06	Shafquat Majeed and S. A. Shivashankar	Ultra-fast microwave assisted synthesis of Dy ³⁺ : GdOOH hierarchical structures, thermal conversion to oxide structures and photoluminescent studies	ABS - 261 - ICA
07 - Poster - 07	Raj Kumar and Prem Felix Siril	A Simple Approach for the Synthesis of Nano High Energetic Materials	ABS - 278 - ICA
07 - Poster - 08	Parul Gupta, Rishi Vyas, B.L. Choudhary and S. K. Sharma	Effect of Temperature and Synthesis of Nanostructured SnO ₂ Powder	ABS - 291 - ICA
07 - Poster - 09	Susanta Kumar Saha & Paul S. Braterman	Soft chemistry method of synthesis of mixed metal oxide and mixed metalmetal oxides nanocomposites via layered double hydroxide and their characterizations	ABS - 369 - ICA
07 - Poster - 10	M. Jana, A. Sil and S. Ray	Effect of Size and Doping of Metal Oxide Nanoparticles on Surface Melting	ABS - 393 - ICA
07 - Poster - 11	Sujoy Saha, Sadhan Chanda, Alo Dutta and T. P. Sinha	Structural and Dielectric Properties of NdMnO ₃ nanoparticles	ABS - 415 - ICA
07 - Poster - 12	Sunil Dutt and Prem Felix Siril	Gold@Polyaniline composite nanowires	ABS - 422 - ICA
07 - Poster - 13	Mahesh D. Chaudhary Sunil H. Chaki and M.P. Deshpande	Optical and Thermal Study of Synthesized SnS Nanomaterials	ABS - 445 - ICA

07 - Poster - 14	Bhagavanth reddy G A Madhusudhan D Ramakrishna and G Veerabhadram*	Novel, eco-friendly, one-pot Synthesis of gold nanoparticle as a carrier for delivery of anti-cancer drug	ABS - 465 - ICA
07 - Poster - 15	N. Pushpa M. K. Kokila B.M. Nagabhushana H. Nagabhushana A. Jagannatha Reddy	Hydrothermal synthesis and luminescence properties of ZnO nanophosphor	ABS - 494 - ICA
07 - Poster - 16	Provas Pal Arnab Kanti Giri Asit Baran Panda	Hierarchical Lotus shaped porous MnO ₂ : Solution Route Synthesis and shape dependent improved catalytic activity	ABS - 498 - ICA
07 - Poster - 17	Chandni Khurana Nidhi Andhariya K.Singh OP Pandey and Bhupendra Chudasama	Rapid Synthesis of Silver Nanocubes by Polyol Process	ABS - 508 - ICA
07 - Poster - 18	S. Santra, N.S. Das and K.K. Chattopadhyay	Microwave Assisted Synthesis of Highly Transparent CuBO ₂ Nanocubes	ABS - 512 - ICA
07 - Poster - 19	S. Chall S. S. Mati and S. C. Bhattacharya	Soft Templated Room Temperature Fabrication of Ln ³⁺ Doped Highly Photoluminescent Rare Earth Phosphate Nanomaterials	ABS - 513 - ICA
07 - Poster - 20	Sandeep Kumar L.K. Sahay Anal K. Jha and K. Prasad	Structural, Optical and Magnetic Properties of (Ag _{1/2} Fe _{1/2})TiO ₃ Nanoceramics	ABS - 518 - ICA
07 - Poster - 21	Mala Mukhopadhyay S. Hazra	Growth of Thiol-capped Au Nanoparticles Langmuir-Schaefer films on H-terminated Si substrates	ABS - 520 - ICA
07 - Poster - 22	Chandan H. R, Sneha M Shenoy Subbarao Raikar, Geetha R. Balakrishna	Synthesis of CdSe/ CdS Core/ Shell Structure Using Non-coordinating and reusable Solvent	ABS - 535 - ICA
07 - Poster - 23	Shahzad Ahmad & Rajamani Nagarajan	Synthesis, structure, optical, catalytic and photocatalytic properties of CeO ₂ and CeO ₂ :F nanocrystals	ABS - 536 - ICA
07 - Poster - 24	R. Hari Krishna B.M. Nagabhushana H. Nagabhushana N. Suriya Murthy C. Shivakumara R. P. S. Chakradhar Tiju Thomas	One step Synthesis and Characterization of a Single-Composition Trichromatic White-Light Y ₂ O ₃ :Eu ³⁺ , Zn ²⁺ , Bi ³⁺ phosphor	ABS - 563 - ICA
07 - Poster - 25	Maisnam Victory Mamata Maisnam and Sumitra Phanjoubam	Synthesis of Li-Co Nano Ferrites by Sol-gel Method and their Structural and electrical characterizations.	ABS - 570 - ICA

07 - Poster - 26	R. Swapna M. C. Santhosh Kumar T. Srinivasa Reddy R. Amiruddin	Eu doping and fabrication of ZnO based homojunction by spray pyrolysis	ABS - 596 - ICA
07 - Poster - 27	Kishore K, Madapu S. Dhara	Optimization of Growth of InN nanorods using Chemical Vapor Deposition and Electrical characterization	ABS - 598 - ICA
07 - Poster - 28	A. D. Verma R. K. Mandal and I. Sinha	Aqueous Phase Synthesis of Ag-Cu bimetallic nanoparticles	ABS - 606 - ICA
07 - Poster - 29	Sudheer Kumar Yadav and P. Jeevanandam	Synthesis of CdS-TiO ₂ Nanocomposites by Thermal Decomposition Approach	ABS - 620 - ICA
07 - Poster - 30	A. K. Shahi B. K. Pandey R.Gopal	Microwave Assisted Solvothermal Approach for Architectural Controlled synthesis of CdS Dendrite like, Cedrus tree like, Flower like, Nano/Sub Micro Structures	ABS - 625 - ICA
07 - Poster - 31	K. Jain, S. Kishor Kh. S. Singh M. Odelius and L. M. Ramaniah	Effect of surface ligands on the electronic structure of CdS quantum dots: A first principles DFT study	ABS - 632 - ICA
07 - Poster - 32	Prakash Narayan Singh D. Tiwary and Sinha nanoparticles	Effect of particle size on the adsorption characteristics of magnetic iron oxide	ABS - 652 - ICA
07 - Poster - 33	Joyasree Bhattacharjee S.A. Hussain D. Bhattacharjee	Effect of nano clay platelets and DNA in controlling the H-dimer of Oxazine 4 Perchlorate (OX4) in LbL film	ABS - 653 - ICA
07 - Poster - 34	Ashis Shil S.A. Hussain D. Bhattacharjee	An investigation on the stability of DPPC monolayer at the air-water interface	ABS - 663 - ICA
07 - Poster - 35	Indrajit Kumara Amiya Priyamb and Ravi Kant Choubeya,	Supersaturation-enhanced monodispersity, luminescence efficiency and non-linear optical properties of CdTe quantum dots and nanowires	ABS - 670 - ICA
07 - Poster - 36	S.Amreetha and S.Dhanuskodi	Investigation of the Phase Transformations of Anatase to Rutile in Nano TiO ₂	ABS - 687 - ICA
07 - Poster - 37	Nandni Sharma and Satyendra Singh	Synthesis and characterization of Bi _{0.9} Sr _{0.1} FeO ₃ nanoparticles	ABS - 691 - ICA
07 - Poster - 38	Ch. Srilakshmi H. Vijay Kumar C. Shivakumara K. Praveena	Synthesis and Characterization of Iron doped BaTiO ₃ nanomaterial for Catalytic Transfer Hydrogenation of Aromatic Nitro Compounds	ABS - 703 - ICA
07 - Poster - 39	Anjana Kothari and T. K. Chaudhuri	Inkjet printing of in-situ prepared solution-based oxide inks	ABS - 704 - ICA

07 - Poster - 40	C. Shivakumara Sukanti Behera Anu K John N. Dhananjaya and H. Nagabhushana	Photocatalytic and luminescence properties of Nd ³⁺ , Eu ³⁺ and Cu ²⁺ - doped ZnO nanoparticles	ABS - 719 - ICA
07 - Poster - 41	Meenakshi and Rajamani Nagarajan	Wurtzite CuInS ₂ : Solution based one pot direct synthesis and its doping studies with non-magnetic Ga ³⁺ and magnetic Fe ³⁺ ions	ABS - 750 - ICA
07 - Poster - 42	Anil R. Bari and Lalchand A. Patil	Dimethyl Methyl Phosphonate (DMMP) detection using Pt-modified nanostructured ZnO thick films	ABS - 756 - ICA
07 - Poster - 43	Sanjay K. Apte Sunil N. Garaje Sonali D. Naik and Bharat B. Kale	Fabrication of orthorhombic CdS quantum dots in germanate glass matrix and its excellent photocatalytic activity for H ₂ production from H ₂ S photosplitting under solar light.	ABS - 773 - ICA
07 - Poster - 44	A. T. Raghavender Nguyen Hoa Hong K. Vijaya Kumar	Cobalt Ferrite Nanoparticles For Biomedical Applications	ABS - 776 - ICA
07 - Poster - 45	T. Muthukumarasamyvel S. Chandirasekar and N. Rajendiran	Cholic acid functionalized star poly (ε-Caprolactone) encapsulated anisotropic gold nanoparticles	ABS - 808 - ICA
07 - Poster - 46	Hemlata J. Sharma Pallavi T. Patil Diptee V. Jamkar, S. B. Kondawar	Fabrication of Electrospun Nanofibers of Al-doped SnO ₂ for Hydrogen Gas Sensor	ABS - 889 - ICA
07 - Poster - 47	B. G. Ganga and P. N. Santhosh	Synthesis and characterization of Ellipsoidal shaped CuO nanostructures	ABS - 910 - ICA
07 - Poster - 48	Mohit Chawla and Prem Felix Siril	Controlling the morphology of bi-metallic nanocomposites of Mn and Co using a polyol reduction method	ABS - 949 - ICA
07 - Poster - 49	S. Hazarika and D. Mohanta	Study of structural and optical properties of nanoscale Tb ³⁺ doped Gd ₂ O ₃ system	ABS - 957 - ICA
07 - Poster - 50	Akhilesh Tripathi Indra Bahadur, S. K. Jain and R. K. Shukla	Synthesis and Characterization of CuO-Polyaniline Composite Materials	ABS - 964 - ICA
07 - Poster - 51	Xuang Li Naoki Kishi, Tetsuo Soga	Synthesis of aligned copper oxide nanowires on fluorine-doped tin oxide glass substrate	ABS - 998 - ICA
07 - Poster - 52	D. Prakashbabu R. Hari krishna B. M. Nagabhushana H. Nagabhushana C. Shivakumara H. B. Ramalingam R. Chandramohan	Influence of different precursors on photoluminescence of hydrothermally derived ZrO ₂	ABS - 1022 - ICA
07 - Poster - 53	H. Wagata, X. Xiao N. Zettsu S. Oishi and K. Teshima	Flux Grown KTiNbO ₅ Crystals for Removal of Metal Ions in Aqueous Solutions	ABS - 1038 - ICA

07 - Poster - 54	Jagadeesha Angadi.V Rudraswamy.B	Enhancement of Electrical properties of $MnFe_2O_4$ by γ – Irradiation	ABS - 1045 - ICA
07 - Poster - 55	Parveer Kaur and Bhupendra Chudasama	Synthesis of IR Responsive Gold Nanorods for Photothermal Therapy of Cancerous Tumors	ABS - 1067 - ICA
07 - Poster - 56	Vikash Kumar Ravi Amiya Priyam	Facile single-step synthesis of water-soluble, luminescent CdSeTe Alloyed Quantum Dots	ABS - 1100 - ICA
07 - Poster - 57	Karunakar Rao Kudle Ramchander Merugu Y. Prashanthi M.P. Pratap Rudra	A greener approach for the synthesis of silver nanoparticles using the leaf extracts of <i>Acacia senegal</i> (L.)Wild.	ABS - 1103 - ICA
07 - Poster - 58	Balaji. Ketharachapalli and Raj Kishora Dash	Rational Synthesis of Morphology Controlled Bi_2Te_3 Nanostructured Thermoelectric Materials	ABS - 1111 - ICA
07 - Poster - 59	Mokhtar Ali and Vadali V. S. S. Srikanth	Honey Aided Solution Synthesis of Cu_2O	ABS - 1112 - ICA
07 - Poster - 60	N. Ibrayev A. Zeynedinov A. Ibrayeva Zh. Ospanova	Influence of anodizing conditions on the optical properties of nanoporous aluminum oxide doped with rhodamine 6G	ABS - 1238 - ICA
07 - Poster - 61	Santosh Patil, Ashok Shinde, Yogesh Sethi, Sanjay Apte, Milind Kulkarni, Sonali Naik, Jalindar Ambekar, Sanjay Kolekar, Bharat Kale	Growth of CdSe Quantum dots in Glass and its use for solar hydrogen production	ABS - 1244 - ICA
07 - Poster - 62	Abhishek Dhar Dhananjay Ghosh Dr. Uttam Roy Choudhuri	Synthesis and characterization of Al_2O_3 impregnated nano sulphated super acidic zirconium oxide for catalytic isomerization of n-hexane at normal condition	ABS - 1300 - ICA
07 - Poster - 63	H Basantakumar Sharma	Dielectric properties and tunability of low temperature processed nanocrystalline $Ba_{0.6}Sr_{0.4}TiO_3$ thin films	ABS - 1308 - ICA
07 - Poster - 64	Soram Bobby Singh and H Basantakumar Sharma	Influence of space charge layers in the dielectric properties of nanoscale $Ba_{0.6}Sr_{0.4}TiO_3$ thin films	ABS - 1308a - ICA
07 - Poster - 65	Manjri Singh Manish Kumar Singh and R.K.Mandal	Stabilization of Nanocrystalline Silver by <i>Sella and Mansoori</i> Rice starch	ABS - 1311 - ICA
07 - Poster - 66	Ashokraja C. and Balakumar S.	Microwave Synthesis of Uniform Gold Nanoparticles and its Study on SERS Enhancement of Methylene Blue Dye	ABS - 1314 - ICA
07 - Poster - 67	Sovan Kumar Panda Sreeddyuti Chakraborti Sarnali Chatterjee and Rajendra N. Basu	Investigation of Different Synthesis Approaches for Silver and Gold Colloidal Nanoparticles by Citrate Reduction of Metal Salts	ABS - 1380 - ICA

07 - Poster - 68	G.T. Smagulova Y.T. Aliev B.T. Lesbayev A.Y. Bakkara, G.T. Ustaeva, N.G.Prikhodko Z.A. Mansurov	Submicron Composite Electrospun – Fibers of Polymethylmethacrylate and Polycapromid	ABS - 1405 - ICA
07 - Poster - 69	K. Vijaya Kumar and V. Durga Praveena	Biological synthesis of copper nanoparticles using <i>Achyranthes aspera</i> leaf extract and their antibacterial activity	ABS - 1429 - ICA
07 - Poster - 70	H. Rath, B.N. Dash A. Benyagoub and N.C. Mishra	Comparative Study of Track Formation in Rutile and Anatase Phases of TiO ₂ by Swift Heavy Ion Irradiation	ABS - 1448 - ICA
07 - Poster - 71	Nitish Roy and Debabrata Pradhan	Facets Dependent Photocatalysis of Anatase TiO ₂ Nanocrystals	ABS - 1461 - ICA
07 - Poster - 72	P. Ramana Reddy N. K. Udayashankar and Ajith K. M.	Studies of Structural Properties of Porous Anodic Alumina Templates prepared using two Step Anodization Process	ABS - 1470 - ICA
07 - Poster - 73	S. Ramesh K.C. James Raju and C. Vishnuvardhan Reddy	Synthesis and characterization of SDC20 nanopowders	ABS - 1541 - ICA
07 - Poster - 74	Himanshu Srivastava Mahendra Babu Tapas Ganguli A.K. Srivastava and S.K. Deb	Cross-sectional investigation of as grown α -Fe ₂ O ₃ nanowires on iron substrate	ABS - 1559 - ICA
07 - Poster - 75	M. Bradha T. Vijayaraghavan S.P.Suriyaraj R. Selvakumar Anuradha M. Ashok	Synthesis of photo catalytic La _(1-x) A _x TiO _{3-δ} (A= Ba, Sr, Ca) nano perovskites and their application for photo catalytic oxidation of congo red dye in aqueous solution	ABS - 1588 - ICA
07 - Poster - 76	T. Dixit P. A. Palod K. Bhargava A. Bilgaiyan, A. Palani and V. Singh	Investigation on effect of Concentrations on the Nucleation of ZnO nanostructures using Hydrothermal Process for LED Applications	ABS - 1599 - ICA
07 - Poster - 77	Venkata Ravindra A Bhaskar Chandra Behera and Prahallad Padhan	Structure, Morphology, and Magnetization of CoFe ₂ O ₄ -CoO Nanocomposites	ABS - 1617 - ICA
07 - Poster - 78	Manjiri A. Mahadadalkar Ashwini P. Bhirud Ravindra S. Sonawane, Bharat B. Kale	Nanostructured Pt-CdIn ₂ S ₄ Marigold flowers for Photocatalytic hydrogen production by water splitting	ABS - 1675 - ICA
07 - Poster - 79	Ashwini P. Bhirud Rupali P. Waichal Latesh K. Nikam and Bharat B. Kale	Nanostructured p-type Nitrogen-doped ZnO photocatalyst for environmentally benign solar hydrogen production	ABS - 1675a - ICA

07 - Poster - 80	D. Shanthini Keerthana K. Namratha C.S. Vicas and K. Byrappa	Biocompatibility Testing of Iron Oxides Synthesized under Soft Reduced Hydrothermal Conditions	ABS - Email 1 - ICA
07 - Poster - 81	K. Jagadish S. Srikantaswamy and K. Byrappa	Low Temperature Solvothermal Synthesis of Carbon Nanotubes	ABS - Email 2 - ICA
07 - Poster - 82	K.R. Raksha S. Ananda and K. Byrappa	Photo-catalytic behavior, Impedance studies and biological activity of Electrochemically synthesized SeS ₂ and Se: ZnS nano particles	ABS - Email 3 - ICA
07 - Poster - 83	B.S. Srinath V. Ravishankar Rai and K. Byrappa	Gold Salt Concentration Dependent Extracellular Nanoparticles Synthesis using <i>Enterobacter aerogenes</i> and <i>Klebsiella pneumonia</i> .	ABS - Email 4 - ICA
07 - Poster - 84	Sumana Y. Kotian K. M. Lokanatha Rai and K. Byrappa	Synthesis and Characterisation of a New Series of Oxazoline Derivatives for the Study of their Liquid Crystalline Properties	ABS - Email 5 - ICA
07 - Poster - 85	B.S Supriya B. Basavalingu and K. Byrappa	Hydrothermal Synthesis of Carbon Nanotubes	ABS - Email 6 - ICA
07 - Poster - 86	C.S. Vicas K. Namratha K. Byrappa	Solvothermal synthesis of Zinc and Cobalt doped Nickel Ferrite nanoparticles with selective surfactants and application in cancer therapy	ABS - Email 7 - ICA
07 - Poster - 87	J.Jaishree Akansha Shukla Ashok Kumar and Sri Sivakumar	PEG-modified polymer encapsulated rare-earth metal ion doped nanoparticles for visible to NIR fluorescence imaging of cancer cells	ABS - Email 8 - ICA
07 - Poster - 88	M. Nabeel Rashin and J. Hemalatha	Experimental and Theoretical Studies on Thermo Physical Properties of CuO Coconut oil Nanofluids	ABS - Email 9 - ICA
07 - Poster - 89	Aradhana Jyotsana Gulab Singh Maurya Awadhesh Kumar Rai, B.K.Ghosh	Optical property of Nd ³⁺ doped Y ₂ O ₃ nanophosphor	ABS - Email 10 - ICA
07 - Poster - 90	S. Sutha S. C. Vanithakumari R. P. George K. R. Ravi U. Kamachi Mudali and Baldev Raj	Synthesis and Characterization of Superhydrophobic Self Cleaning Coatings	ABS - Email 11 - ICA
07 - Poster - 91	D.V. Anantha K. Namratha C.S. Vicas and K. Byrappa	Hydrothermal Synthesis of TiO ₂ Nanoparticles and its Effect on Tumor Cells	ABS - Email 12 - ICA
07 - Poster - 92	S. C. Vanithakumari R. P. George and U. Kamachi Mudali	Fabrication of Superhydrophobic Surface on Anodized Titanium Using Silanes	ABS - Email 13 - ICA