

(06) Photonic Materials

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DETAILED PROGRAMME

Wednesday, 18-12-2013

Session I : 10.15 – 11.15

10.15 - 10.45 Invited Talk (1)	S. Anantha Ramakrishna and Govind Dayal	ABS - Email - ICA Design and fabrication of infra-red metamaterial perfect absorber
10.45 - 11.15 Invited Talk (2)	Murukeshan Vadakke Matham	ABS - 1525 - ICA Nanoscale fabrication of features using plasmonic interference and their applications

Session II : 11.45 – 13.30

11.45 - 12.15 Invited Talk (3)	Achanta Venu Gopal	ABS - 1522 - ICA Nanostructured materials for photonic and plasmonic studies
12.15 - 12.45 Invited Talk (4)	Tadaaki Nagao	ABS - Email - ICA Plasmon-enhanced photocatalyst and vibrational spectroscopy for the green nanotechnology
12.45 - 13.00 Oral (1)	Bivas Saha, Gururaj V Naik, Sammy Saber, Jing Liu, Joseph Irudayaraj, Eric Stach, Vladimir M. Shalaev, Alexandra Boltasseva, Timothy D. Sands	ABS - 407 - ICA TiN/(Al,Sc)N Metal/Dielectric Superlattices for Metamaterial applications in the visible range
13.00 - 13.15 Oral (2)	Rabaya Basori, K.Das and A.K. Raychaudhuri	ABS - 66 - ICA Large photoresponse of Cu:7,7,8,8-tetracyanoquinodimethane of a single nanowire and nanowire arrays formed as aligned nanobridges
13.15 - 13.30 Oral (3)	D.N. Bose & S. Pal	ABS - 1658 - ICA Determination of hole effective mass and fine structure constant from transport properties of layered chalcogenide GaTe

Session III : 16.00 – 18.00

16.00 - 16.30 Invited Talk (5)	G. Vijaya Prakash	ABS - Email - ICA Inorganic-organic layered perovskites: Fabrication to photonic applications
16.30 - 17.00 Invited Talk (6)	Aditya K. Dharmadhikari	ABS - 1520 - ICA Femtosecond laser based inscription inside transparent materials
17.00 - 17.15 Oral (4)	Quan Lu, Jian Wang, Cong Liang, Fei Xu, and Zuimin Jiang	ABS - 288 - ICA Strong Infrared Photoluminescence and Electroluminescence from Black Silicon formed by Femtosecond Laser Irradiation

17.15 - 17.30 Oral (5)	Neelima Basavaraju, Suchinder Sharma, Aurelie Bessiere, Bruno Viana, Didier Gourier and Kaustubh Priolkar	ABS - 546 - ICA Sol-gel synthesis of ZnGa ₂ O ₄ :Cr ³⁺ Nanophosphors for <i>In Vivo</i> Optical Imaging
17.30 - 17.45 Oral (6)	Ravi Kiran Saripalli, K. Raghavendra Rao, H.L.Bhat and Suja Elizabeth	ABS - 145 - ICA Growth and Characterization of Glucoronolactone : An Organic material with potential Non-Linear Optical (NLO) and Laser Applications

Thursday, 19-12-2013

Session IV : 10.15 – 11.15

10.15 - 10.45 Invited Talk (7)	Sushil Majumdar, Ravitej Uppu and Anjani Kumar Tiwari	ABS - Email - ICA Ordered and disordered linear chains of microresonators
10.45 - 11.15 Invited Talk (8)	R. Vijaya	ABS - 1585 - ICA Lasing in Opaline Microcavities

Session V : 11.45 – 13.15

11.45 - 12.15 Invited Talk (9)	B.V.R. Tata	ABS - 1556 - ICA Self-assembly Methods for Fabricating Large Size Photonic Crystals
12.15 - 12.30 Oral (7)	Naoki Yoshida, Kohei Toyama, Shingo Ono, Takayuki Hayashi, Michiharu Ota, Takayuki Yanagida, Yuni Yokota and Akira Yoshikawa	ABS - 935 - ICA Evaluation of Ce ³⁺ : LiCaAlF ₆ Single Crystal by using Femtosecond Laser Pulses
12.30 - 12.45 Oral (8)	Saleem Shaik, Tanmoy Maiti	ABS - 1436 - ICA Growth of CdS Nanowires by AC Electro Deposition Technique using in-house processed PAA Template for Plasmonic characterization
12.45 - 13.00 Oral (9)	L.N. Tripathi, Praveen M, Pranay Valson, and J.K. Banu	ABS - 1477 - ICA Long range energy transfer and emission anisotropy in CdSe quantum dot monolayer using gold nanorod nano-antenna

Session VI : 16.00 – 18.00

16.00 - 16.30 Invited Talk (10)	C.K. Jayashankar	ABS - 1544 - ICA Synthesis and characterization of Luminescent Materials: Photonic Applications
16.30 - 17.00 Invited Talk (10)	Debabrata Goswami	ABS - Email - ICA Nanophotonics: Control at Sub-diffraction limit through femtosecond light-matter interaction

17.00 - 17.15 Oral (10)	N. Bhuvaneswari, R. Dhanasekaran	ABS - 153 - ICA Growth and Characterization of Tris Thiourea Magnesium Zinc Sulphate (TTMZS)
17.15 - 17.30 Oral (11)	K. Koteswara Rao B. Nagamani Naidu	ABS - 1417- ICA Preparation, characterization and emission studies of $\text{Bi}_2\text{MoO}_6:\text{Eu}^{3+}$
17.30 - 17.45 Oral (12)	Rahul T.K. and Sandhyarani N.	ABS - 438 - ICA Fabrication of Photonic Crystals via Self Assembly of Colloidal Microspheres: Formation, Inverse Structures and Properties

Friday, 20-12-2013

Session VII : 10.15 – 11.15

10.15 - 10.45 Invited Talk (11)	G.V. Pavan Kumar	ABS - 1528 - ICA Nanowire-Photonics: Plasmonic and Excitonic
10.45 - 11.15 Invited Talk (12)	Shobha Shukla	ABS - Email - ICA Solar Energy Concentration using Planar Metallic Nanostructures for Efficient Photodevices

Session VIII : 11.45 – 13.15

11.45 - 12.00 Oral (13)	S. Brahadeeswaran, T. Takahashi, M. Yoshimura M. Tani, S. Okada, S. Nashima, Y. Mori, M. Hangyo, H. Ito and T. Sasaki	ABS - 1077 - ICA Terahertz waves using DAST and DASC NLO Single Crystals
11.45 - 12.00 Oral (14)	L. Tanuj Kumar, T. Vishwam, S. Sreehari Sastry	ABS - 1575 - ICA Dielectric study of benzothiazole-based liquid crystals under radio frequency region

Poster Session :

Wednesday, 18-12-2013, 14.00-15.30

06 - Poster - 01	J. T. Ingle A.B.Gawande R.P.Sonekar S.K.Omanwar	Combustion Synthesis and Photoluminescence Properties of Blue Phosphor $\text{CaAl}_2\text{B}_2\text{O}_7:\text{Eu}^{2+}$ Under UV,VUV Excitation.	ABS - 356 - ICA
06 - Poster - 02	Manish Kr Mishra Goutam De	Tunable colour emitting $\text{Cd}_{0.5}\text{Zn}_{0.5}\text{S}:\text{Cu}$ QDs confined in organically modified SiO_2 films showing high quantum yield	ABS - 417 - ICA
06 - Poster - 03	Surajit Brojabasi and John Philip	Magnetic Nanofluid — A Tunable Photonic Material	ABS - 522 - ICA
06 - Poster - 04	Deepti. A. Rukade and Varsha Bhattacharyya	Synthesis of single phase titanium dioxide thin films by plasma oxidation technique	ABS - 562 - ICA

06 - Poster - 05	Bincy Rose Vergis Nagaraju Kottam B.M. Nagabhushana R. Hari Krishna Tiju Thomas	Removal of malachite green from aqueous solution by adsorption onto combustion derived nano CuFe_2O_4	ABS - 578 - ICA
06 - Poster - 06	Akshta Rajan H.K.Yadav Vinay Gupta1 and Monika Tomar	Plasmonic enhancement of optical absorption of UV radiation by Pt Nanoparticles dispersed on ZnO thin film	ABS - 676 - ICA
06 - Poster - 07	Ayushi Paliwal Monika Tomar Vinay Gupta	Complex dielectric constant of various Biomolecules as a function of wavelength using Surface Plasmon Resonance	ABS - 676a - ICA
06 - Poster - 08	Sushama.D P.Predeep	The study of variations in optical properties of rare earth doped tellurite glass	ABS - 698 - ICA
06 - Poster - 09	Shama Perween Biswajit Mishra and Deepa Khushalani	ZnTiO_3 : Synthesis, Characterization and Exclusive Visible Light Photocatalysis	ABS - 725 - ICA
06 - Poster - 10	B C Hemaraju and A P Gnana Prakash	Synthesis, Growth and Optical Properties of 5-Chloro-2(3H)benzoxazolone Picrate Crystal for Nonlinear Optical (NLO) Applications	ABS - 729 - ICA
06 - Poster - 11	P.A. Praveen and R. Ramesh Babu	Effect of Annealing Temperature on Nonlinear Optical Properties of Mn-BMZ Thin films	ABS - 732 - ICA
06 - Poster - 12	Vishnu Prasad Shrivastava Jitendra Kumar and Sri Sivakumar	Fine tuning of emission through heterostructure photonic crystal	ABS - 768 - ICA
06 - Poster - 13	Rajendra P. Panmanda Vivek Matea Ganapathi Kumarb Satish M. Mahajanb Bharat B. Kalea Suresh. W. Gosavic	Design and fabrication of $\text{Mn}^{2+}@ \text{Bi}_2\text{S}_3$ quantum dots–glass nanosystems and their advanced magneto optical properties	ABS - 773 - ICA
06 - Poster - 14	Amit Kumar Vishwakarma M. Jayasimhadri B. Siviah D. Haranath, Kiwan	Synthesis and photo luminescence studies of europium doped BaNb_2O_6 phosphor for solid state lighting applications	ABS - 788 - ICA
06 - Poster - 15	Y. Rakesh Kumar H. Sekhar and D. Narayana Rao	Tuning linear optical properties by Fe doping in cuprous oxide	ABS - 797 - ICA
06 - Poster - 16	S. Nirmala Sri Devi E.K. Girija	Role of Ethanoic Acid on Growth and Characterization of L- Valine	ABS - 868 - ICA
06 - Poster - 17	Naoki Yoshida Takayuki Tsuji Shingo Ono Yuui Yokota Takayuki Yanagida and Akira Yoshikawa	Optical properties of $\text{Nd}^{3+}:\text{LuF}_3$ Thin Films Grown by Pulsed Laser Deposition for Vacuum-Ultraviolet Light Source	ABS - 935 - ICA

06 - Poster - 18	R. Khanam D. Mohanta	Structural, optical and thermal stability of nanoscale titania with Ag-doping	ABS - 961 - ICA
06 - Poster - 19	S.K. Sharma Y.P. Singh Sunil Verma and K.S. Bartwal	Influence of EDTA on growth kinetics and optical properties of KDP crystal	ABS - 1073 - ICA
06 - Poster - 20	Shahab Ahmad and G. Vijaya Prakash	Inorganic-organic multiple quantum wells: From Fabrication to optoelectronic applications	ABS - 1091 - ICA
06 - Poster - 21	Suman Shakya and G.Vijaya Prakash	Three Dimensional Photonic structures of PbO from self-assembled templates	ABS - 1143 - ICA
06 - Poster - 22	Preeti Padhye and Pankaj Poddar	Lanthanide ion doped rare earth fluoride crystals: controlled synthesis, morphology tuning and luminescence study	ABS - 1220 - ICA
06 - Poster - 23	P. Ajay Kumar, S. Umamar Pasha, M. Ghanashyam Krishna, S. Venugopal Rao	Microstructural manipulation of the nonlinear optical response of ZnO thin films grown by thermal evaporation technique	ABS - 1293 - ICA
06 - Poster - 24	Sabitha P V Sheenu Thomas V.P.N. Nampoore	Synthesis and Optical Characterization of Mn:ZnS Nanoparticles.	ABS - 1301 - ICA
06 - Poster - 25	Raj Kumar Ramamoorthy and Anil K. Bhatnagar	Enhancement of Erbium Photoluminescence in Tellurite Glasses: Silver Nanoparticles	ABS - 1333 - ICA
06 - Poster - 26	Vishal N.Pathak Prashant Mistry Keyur Hingarajiya K. D. Patel, G.K.Solanki and V. M. Pathak	Thickness Dependent Structural and Optical Characteristics of Pb Doped Tin Selenide Thin Films	ABS - 1382 - ICA
06 - Poster - 27	Pawan K. Kanaujia Shahab Ahmad and G. Vijaya Prakash	<i>In-situ</i> studies of intercalation dynamics in device-quality inorganic-organic semiconductor thin film fabrication	ABS - 1413 - ICA
06 - Poster - 28	Saleem Shaik Tanmoy Maiti	Growth of CdS Nanowires by AC Electro Deposition Technique using in-house processed PAA Template for Plasmonic characterization	ABS - 1436 - ICA
06 - Poster - 29	M.Praveena L.N.Tripathi and J.K.Basu	Plasmonic Tuning of Photoluminescence from Semiconducting Quantum Dot Assemblies	ABS - 1550 - ICA
06 - Poster - 30	R.G. Joshi B.V.R. Tata and J. Brijitta	Entanglement Effect on Melting of Photonic Crystals of Thermo-responsive Microgels	ABS - 1623 - ICA