

(02) Oxide Electronics

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DETAILED PROGRAMME**Tuesday, 17-12-2013****Session I : 16.00 – 18.00**

16.00 - 16.30 Invited Talk (1)	<u>Gavin Lawes</u>	ABS - 492 - ICA Magnetically induced ferroelectric order in transition metal vanadates
16.30 - 17.00 Invited Talk (2)	Heewang Yang and <u>Hyeongtag Jeon</u>	ABS - Email - ICA Stability Enhancement with Nanoparticles on the Amorphous In-Ga-Zn-O Thin Film Transistor
17.00 - 17.15 Oral (1)	<u>Bharathi Rajeswaran,</u> A.M. Umarji	ABS - 143 - ICA Electrical Properties of Monophasic VO ₂ Thin Films Synthesized by Ultrasonic Nebulized Spray Pyrolysis of Aqueous Combustion Mixture (UNSPACM)
17.15 - 17.30 Oral (2)	J.Raja, K.Jang, N.Balaji C.P.Nguyen, J.Cho, J.Jung and <u>Y. Junsin</u>	ABS - 179 - ICA Enhanced stability against temperature and negative bias-stress of nitrogenated InGaZnO thin-film transistors
17.30 - 17.45 Oral (3)	<u>S. Venkateshwarlu,</u> G. Srinivas and Dipti Gupta	ABS - 253 - ICA Low Temperature, Combustion Processed ZnO for Thin Film Transistors
17.45 - 18.00 Oral (4)	Nittaya Tamaekong, Chanitpa Khantha and and <u>Sukon Phanichphant</u>	ABS - 358 - ICA Pt-loaded In ₂ O ₃ Nanoparticles Synthesized by Flame Spray Pyrolysis

Wednesday, 18-12-2013**Session II : 10.15 – 11.15**

10.15 - 10.45 Invited Talk (3)	<u>Carlo Lamberti,</u> Elisa Borfecchia, Giovanni Agostini, Diego Gianolio, Andrea Piovano, Erik Gallo and Lorenzo Mino	ABS - 994 - ICA Low-dimensional oxides investigated by x-ray absorption and emission spectroscopies : a selection of 2D, 1D and 0D cases
10.45 - 11.00 Oral (5)	B.Bhowmik, A.Hazra, K.Dutta and <u>P. Bhattacharyya</u>	ABS - 467 - ICA Development of Pd/TiO ₂ /Si MIS Ethanol Sensor using Nano-TiO ₂ Sensing Layer
11.00 - 11.15 Oral (6)	<u>Pankaj Misra</u> and Ram S. Katiyar	ABS - 484 - ICA Resistive Switching and Current Conduction Mechanisms of Lanthanum based Amorphous Ternary Oxides

Session III : 11.45 – 13.15

11.45 - 12.15 Invited Talk (4)	<u>Michael Lorenz</u>	ABS - 1240 - ICA Pulsed laser deposition of functional oxides for electronic applications
12.15 - 12.30 Oral (7)	<u>S.K. Pandey</u> , Amita Gupta, M.V.S. Suryanarayana and L.N.S. Tomar	ABS - 613 - ICA ZnO based chemical agent sensor
12.30 - 12.45 Oral (8)	<u>Balaji V.</u> , VM Jali, Murali B, S.B. Krupanidhi & Ganesh Sanjeev	ABS - 637 - ICA Impedance studies on electron irradiated ZnO : Li thin films
12.45 - 13.00 Oral (9)	<u>Reema Gupta</u> , Lokesh Rana Kajal Jindal, Anjali Sharma Monika Tomar and Vinay Gupta	ABS - 676 - ICA Development of SAW Devices on various Piezoelectric Thin Films
13.00 - 13.15 Oral (10)	<u>Anirban Chowdhury</u> , Pavan Kumar Bijalwan, Ranjan Kumar Sahu	ABS - 822 - ICA The Role of Alkali to obtain modulated defect concentrations for Cu ₂ O Thin Films on Steel

Session IV : 16.00 – 18.00

16.00 - 16.30 Invited Talk (5)	<u>Werner Paulus</u>	ABS - Email - ICA Impact of long-range structural correlations for the reactivity of solid oxides : Example of non-stoichiometric Ruddlesden Popper phases
16.30 - 17.00 Invited Talk (6)	D. Pravarthana, M. Lacotte, A. David and W. Prellier	ABS - 1594- ICA High-Throughput Synthesis of Complex Oxide Thin Films
17.00 - 17.15 Oral (11)	Pranab Biswas, P. Banerji	ABS - 1004 - ICA Anomalous conduction behavior vis-a-vis the charge compensation mechanism in annealed ZnO/Si-GaAs
17.15 - 17.30 Oral (12)	<u>Surajit Saha</u> , W.M. Lu, Bing-Chen Cao, Chun-Xiao Cong, B. Gu, X. Wang, Z.Q. Liu, K. Gopinathan, A. Annadi, Tarapada Sarkar, Amar S., S.W. Zeng, M. Venkatesan, Ariando and T. Venkatesan	ABS - 1249 - ICA Transfer of magnetic information via polar oxide : who carries it?
17.30 - 17.45 Oral (13)	<u>S. Upreti</u> , K. Mukherjee, A. Bag, S. Mallik and C.K. Maiti	ABS - 1574 - ICA Conduction Mechanisms in AAO Memristors : Morphology Dependence

Thursday, 19-12-2013

Session V : 16.00 – 18.00

16.00 - 16.30 Invited Talk (7)	<u>Tatsuo Okada</u> , Daisuke Nakamura, Tetsuya Shimogaki and Hiroshi Ikenoue	ABS - 972 - ICA Controlled Growth of ZnO Nano-Crystals and their Lasing Characteristics
16.30 - 17.00 Invited Talk (8)	<u>Toshio Kamiya</u> and Hideo Hosono	ABS - 1662 - ICA Impurity and Defects in Oxide Semiconductors
17.00 - 17.15 Oral (14)	<u>E. Varadarajan</u> , M. Kathiresan and V. Natarajan	ABS - Email - ICA Analytical and FEM analysis of different piezoelectric materials for low frequency energy harvesting applications
17.15 - 17.30 Oral (15)	<u>K. Fabitha</u> M. S. Ramachandra Rao, C. Sudakar	ABS - Email - ICA Effect of ZnO buffer layer on the microstructure of ZnO grown on different substrates by low temperature hydrothermal method

Poster Session :

Wednesday, 18-12-2013, 14.00-15.30

02 - Poster - 01	S.S. Kalagi, S.S. Mali D.S. Dalavi, P.S. Patil	Switching characteristics and electro coloration studies in R.F. sputtered WO ₃ thin films	ABS - 159 - ICA
02 - Poster - 02	X.Zhang, K.Kobayashi Y.Kohno, Y.Tomita, Y.Maeda and S.Matsushima	Growth of p-type ZnOS Films by Pulsed Laser Deposition	ABS - 296 - ICA
02 - Poster - 03	L. Robindro Singh	Critical view on the luminescence emission of ZnO ZnO:Eu and ZnO:Eu/Y ₂ O ₃	ABS - 357 - ICA
02 - Poster - 04	Arun Kumar N and R. Vijayaraghavan	Synthesis and Optical band gap modulation of Mg _{1-x} Co _x Sb ₂ O ₆ (x = 0.0 - 1.0) trirutile solid solution	ABS - 478 - ICA
02 - Poster - 05	M. Ramanjaneyulu, Nandita Das Gupta and M.S. Ramachandra Rao	Effect of Nitrogen on structural and optical properties of P doped ZnO thin films	ABS - 534 - ICA
02 - Poster - 06	Saritha, A.C., Sasanka Kumar S., Hansa K, Subha P.P., Vikas L.S., Shijeesh M.R. and M.K. Jayaraj	Off axis pulsed laser deposition of transparent, p-type semiconducting SnO thin films	ABS - 539 - ICA
02 - Poster - 07	Rakesh Kumar Sonker, Anjali Sharma, Monika Tomar, Vinay Gupta, B.C. Yadav	ZnO-SnO ₂ nanocrystalline composite structure for efficient low temperature detection of NO ₂ gas	ABS - 676 - ICA
02 - Poster - 08	Tanushree Das, Bikram keshari Das, Kajal Parashar, S.K.S. Parashar	Effect of Ca ⁺² doping on Structural, Electrical and FT-IR studies of ZnO	ABS - 720 - ICA

02 - Poster - 09	Shubra Singh, Kapil Gupta, Sumithra Menon, M.S. Ramachandra Rao	Room temperature electrochemical oxidation studies on nanostructured CaFeO _{2.5} composites	ABS - 728 - ICA
02 - Poster - 10	L.S. Vikas, M.K. Jayaraj, Joaquim Puigdollers and Aldrin Antony	Substrate dependence on the orientation of electrodeposited ZnO nanorods	ABS - 770 - ICA
02 - Poster - 11	Vijay Kumar, Y.C.Goswami, V.Ganesan and P. Rajaram	Synthesis of SnO ₂ nanostructures using New Ultrasonic assisted Sol Gel Route	ABS - 805 - ICA
02 - Poster - 12	Y.C. Goswami, UPS Gahlaut, Vijay Kumar and RK Pandey	Synthesis of ultra small Copper doped ZnO nano particles by Chemical Route	ABS - 805a - ICA
02 - Poster - 13	PT Yasir Beeran and M Abdul Khadar	Deposition and characterization of Al-doped nanostructured ZnO thin films for optoelectronic applications	ABS - 921 - ICA
02 - Poster - 14	Joydip Sengupta, Arifeen Ahmed and Rini Labar	Structural and Optical Properties of Post Annealed Mg Doped ZnO Thin Films for Optoelectronics Applications	ABS - 1058 - ICA
02 - Poster - 15	Vidya U. Kondkar, Deepti Rukade, D. Kanjilal and Varsha Bhattacharyya	Synthesis of embedded SnO ₂ Structures by Ion Implantation at varying Fluence	ABS - 1213 - ICA
02 - Poster - 16	Shubhankar Das, A. Rastogi, P.C. Joshi, Z. Hossain, W. Prellier and R.C. Budhani	Phase Transition at Low Temperature in VO ₂ Nanowires	ABS - 1224 - ICA
02 - Poster - 17	K.C. Sanala and M.K. Jayaraja	Growth of Cu _(1-x) Cr _x O _{2-δ} Thin Films and Fabrication of Thin Film Transistor by RF Magnetron Sputtering	ABS - 1283 - ICA
02 - Poster - 18	M. John Silvester Raju and S.S. Bhattacharya	Characterization of antimony doped tin oxide nanopowders produced by flame synthesis	ABS - 1422 - ICA
02 - Poster - 19	K. Mohan Kant, K. Sethupathi and M.S. Ramachandra Rao	Thickness dependence of magnetotransport properties of Fe ₃ O ₄ thin films deposited by pulsed laser deposition	ABS - 1646 - ICA
02 - Poster - 20	Gopal S.P.P., Jayanta Parui and Krupanidhi SB	Growth modulation in pulsed laser ablated 2H-BaMnO ₃ thin films on platinised silicon	ABS - Email - ICA
02 - Poster - 21	Kapil Gupta, Shubra Singh and M.S. Ramachandra Rao	Behaviour of Brownmillerite CaFeO _{2.5} in CO ₂ containing atmosphere: structural and optical changes	ABS - Email 1 - ICA
02 - Poster - 22	Manjunatha Pattabi Arun Kumar Thilipan G	Studies on Morphology and Electrical Properties of Gd ₂ O ₃ Thin Film	ABS - Email 2 - ICA

02 - Poster - 23	Anjali Sharma, Lokesh Rana Reema Gupta, Anil Arora, Monika Tomar and Vinay Gupta	Integrated Microheater based SnO ₂ Semi-conductor Sensor for NO ₂ Gas	ABS - 676 - ICA
02 - Poster - 24	Punit Tyagi, Monika Tomar and Vinay Gupta	Room Temperature Sensing of SO ₂ Gas using Pt/SnO ₂ Film Sensor Structure	ABS - 676a - ICA
02 - Poster - 25	Avneet Singh, Anjali Sharma, Monika Tomar, Vinay Gupta	RF sputtered SnO ₂ thin film based CO gas sensor	ABS - 676b - ICA