

## **PROGRAM DETAILS (PLD 2013)**

## **Keynote Lecture**      **Pulsed Laser Deposition – 25 Years Young**

## Invited Review Talks

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|----------------|---|
| <b>IRT1.1</b>  | <b>Strain control of physical properties in PLD grown films</b><br>A. K. Raychaudhuri   |
| <b>IRT 1.2</b> | <b>Atomically engineered oxide interfaces using pulsed laser deposition</b><br>Ariando  |
| <b>IRT 1.3</b> | <b>Disorder induced quantum effects in PLD grown doped thin films of ZnOL.</b><br>M. Kukreja and Amit K. Das                    |
| <b>IRT 1.4</b> | <b>Optical Properties of Semiconductor Hetero and Nanostructures Grown by Pulsed Laser Deposition</b><br>Samit K. Ray           |
| <b>IRT 1.5</b> | <b>High-energy optical conductivity and anomalous spectral weight transfer in correlated electron systems</b><br>Andriyo Rusydi |
| <b>IRT 1.6</b> | <b>Laser generation of multicomponent nanoparticles in liquids</b><br>R.K. Soni   |
| <b>IRT 1.7</b> | <b>Artificial Ferroic Superlattices</b><br>S.B. Krupanidhi  |
| <b>IRT 1.8</b> | <b>From Superconductor thin films to metal-oxide nanostructures:<br/>25 glorious years of PLD</b><br>M.S.Ramachandra Rao        |

Invited Talks

- |             |  |
|-------------|--|
| <b>IT-1</b> | <b>High quality ZnO-based transparent conducting oxides thin films prepared by pulsed laser deposition technique</b><br>Durga Basak and Arindam Mallick  |
| <b>IT-2</b> | <b>Mirror like thin films of heavy metals via PLD for First Mirror application in Tokamk</b><br>Alika Khare and A T T Mostako  |
| <b>IT-3</b> | <b>Temperature Dependent Effects of Mn-doping on Charge-Transport of NdNiO<sub>3</sub> Thin Films</b><br>Mahesh Chandra, Rakesh Rana, Fozia Aziz, D. S. Rana, K. R. Mavani,  |
| <b>IT-4</b> | <b>Photoelectron Spectroscopy studies on PLD grown ZnO/Ge and ZnO/GaP systems</b><br>Tapas Ganguli, S. D. Singh, R. S. Ajimsha, Vikas Sahu, Ravi Kumar, P. Misra, D.M. Phase, S. M. Oak, L. M. Kukreja and S. K. Deb |
| <b>IT-5</b> | <b>Physics of PLD grown epitaxial TiN(Ni)/p-Si heterojunction</b><br>T. K. Nath  |
| <b>IT-6</b> | <b>Pulsed laser ablation of metallic thin films and multilayers</b><br>P.S. Anil Kumar   |

- IT-7** **Growth of complex oxide epitaxial films and nanowires by Pulsed Laser Deposition and tuning of physical properties controlling growth parameters**  
Barnali Ghosh (Saha)
- IT-8** **Pulsed Laser Deposited Nanocrystalline and Iso-Epitaxial Tugston TrioxideThin Films For Electrochromic And Gas Sensing Applications**  
A.S.Swapna Smitha and O.M.Hussain
- IT-9** **Multiferroicity in oxide films**  
S. Giri
- IT-10** **Studies on synthesizing Ni-Ti SMA thin films using Pulsed Laser Deposition (PLD) for the development of micro-pump**  
I.A. Palani
- IT-11** **Excimer laser technology trends and developments for thin film fabrication**  
Burkhard Fechner, Ralph Delmdahl
- IT-12** **Thermal Expansion Behaviour of Multilayer Oxide Films Prepared by Pulsed Laser Deposition**  
P. Kuppusami
- IT-13** **Resonant Photoemission spectroscopic study of pulsed laser deposited thin films of dilute magnetic semiconductors.**  
D.M. Phase
- IT-14** **Wide Range Temperature Sensing using ZnO as Non-contact Optical Probe**  
Satish Laxman Shinde and Karuna Kar Nanda
- IT-15** **Growth and characterization of conducting transparent titanium dioxide thin films**  
Pratima K. Mishra

### **Poster Presentations**

- PP 1.1** **Hole Transport Properties of a Hybrid Material based Thin Films**  
R. N. Jana, A. Bhattacharya, D. Naskar, S. Chatterjee
- PP 1.2** **Fabrication process for multiferroic  $\text{PbTi}_{0.5}\text{Fe}_{0.5}\text{O}_3$  based micro-cantilevers**  
Seeraz Nawaz, K. Bose, S.Cahkrabarti and V.R. Palkar
- PP1.3** **Magnetization reversal mechanism in hard magnetic epitaxial bilayers: SmCo5/PrCo.**  
A.K. Patra,F. Fleischhauer,S. Oswald, L. Schultz,V. Neu
- PP1.4** **Effect of Al Doping on Electronic, Magnetic and Transport properties of pulsed laser deposited  $\text{La0.7Ca0.3MnO}_3$  Thin Films**  
Manish Kumar, R. J. Choudhary and D. M. Phase
- PP1.5** **Magnetoresistance properties in polycrystalline  $\text{Gd0.7Ca0.3MnO}_3$**   
Sanjay Biswas and Sudipta Pal
- PP1.6** **Magnetism in PLD grown Fe and Al co-doped ZnO Films**  
Savan Katba, Malay Udeshi, Sadaf Jethva, Priyanka Trivedi, M.J. Keshvani,Ashish Ravalia, Megha Vagadia, P.S. Solanki, N.A. Shah,R.J. Choudhary, D.M. Phase and D.G. Kuberkar
- PP1.7** **A simplified analysis on the photoemission from quantum confined structure of optoelectronic nanostructured materials**  
Singha roy and S. Singha Roy

- PP1.8** **Laser Ablated Plasma Plume Diagnostics of Cerium Oxide: Effect of Oxygen Partial Pressure**  
Arun Kumar Panda, Akash Singh,P. Kuppusami,Maneesha Mishra,R.Thirumurugesan and E. Mohandas
- PP1.9** **Effect of Incorporation of Manganese Oxide on the Structural, Morphological and Optical Properties of Nanostructured Zinc Oxide Thin Films Prepared by Pulsed Laser Deposition**  
R. Sreeja Sreedharan, R.Jolly Bose, R. Reshma Krishnan,V.S Kavitha, R. Vinodkumar, S. K. Sudheer, M.Gupta , V.Ganesan and V.P.Mahadevan Pillai
- PP 1.10** **Effect of Annealing on the Structural and Optical Properties of Laser Ablated Nanostructured Barium Tungstate Thin Films**  
V.S. Kavitha , R. Jolly Bose , R. Sreeja Sreedharan ,R. Reshma Krishnan,S. K. Sudheer,V. Ganeshan ,V. P Mahadevan Pillai
- PP 1.11** **A comparative morphological analysis of nano- structured carbon films obtained by pulsed laser deposition and laser molecular beam epitaxy**  
Asit Behera, S. K. Patel
- PP1.12** **Effect of Tin oxide Doping on the Properties of Laser Ablated Nanostructured Indium oxide Films**  
R. Reshma Krishnan, R. Sreeja Sreedharan,S. R. Chalana,R. Jolly Bose,R. Vinodkumar,S. K. Sudheer, V.Ganesan, and V. P. Mahadevan Pillai
- PP 1.13** **Electronic transmission in a comb-shaped quasi-periodic nanostructure**  
Biplab Pal and Arunava Chakrabarti
- PP 1.14** **In-plane antiferromagnetic and out-of-plane ferromagnetic exchange coupling in SrRuO<sub>3</sub>/La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> superlattices**  
B. C. Behera,A. V. Ravindra, P. Padhan, and W. Prellier
- PP 1.15** **Studies of Microstructures, Optical, Nanomechanical and Thermal Expansion Properties of Y<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>, CeO<sub>2</sub> and Gd<sub>2</sub>O<sub>3</sub> Thin films and Y<sub>2</sub>O<sub>3</sub>/ZrO<sub>2</sub> and CeO<sub>2</sub>/Gd<sub>2</sub>O<sub>3</sub> Multilayers Prepared by Pulsed Laser Deposition**  
Maneesha Mishra, P. Kuppusami
- PP 1.16** **2D growth of LaAlO<sub>3</sub>/SrTiO<sub>3</sub> heterointerface using in-situ RHEED**  
Pramod Kumar, Aswin V, Pooja Singh, Anjana Dogra and R.C. Budhani
- PP 1.17** **Pulsed Laser Heating of Gold Nanoparticles for Photothermal Therapy**  
Sanchari Biswas, Aotula T. Imchen, R. K. Soni
- PP 1.18** **Constricted magnetic hysteresis loop in zinc ferrite nanocrystallites**  
Susmita Misra and S. Ram
- PP 1.19** **Pulsed laser deposition of CdS shell layer on Si nanowire core to form Si/CdS radial heterojunction for high efficiency photodetectors**  
Santanu Manna, A. Katiyar and Samit K. Ray
- PP 1.20** **Ferroelectric and dielectric properties of pure and Fe doped BaSnO<sub>3</sub> nanostructures**  
N. Rajamanickam,S. Rajashabala and K. Ramachandran
- PP 1.21** **Optical Properties of Laser Generated Pd and Au@Pd Nanoparticles**  
Navas M.P and R.K Soni

- PP 1.22** **Influence of silver doping on the structural and optical properties of zinc sulfide thin films prepared by pulsed laser deposition**  
S.R .Chalana, R. Reshma Krishnan, R. Sreeja Sreedharan, R. Jolly Bose, R. Vinodkumar, V. Ganesan and V.P.Mahadevan Pillai
- PP1.23** **Synthesis and water oxidation property of cobalt oxide magnetic colloids synthesized by PLA**  
B. K. Pandey A. K. Shahi and R. Gopal
- PP1.24** **Epitaxial ZnO on GaP(1 1 1) substrate grown by using pulsed laser deposition**  
S. D. Singh, Tapas Ganguli, R. S. Ajimsha, P. Misra, L. M. Kukreja, and S. K. Deb
- PP 1.25** **Growth of oriented thin films and nanorods of WO<sub>3</sub> by Pulsed Laser Depositionand observation of large photo conductive response at room temperature**  
Samik Roy Moulik , Sudeshna Samanta, Barnali Ghosh
- PP 1.26** **Effect of Co doping in epitaxial La<sub>1.85</sub>Sr<sub>0.15</sub>CuO<sub>4</sub> thin films**  
P. K. Rout1 and R. C. Budhani
- PP 1.27** **Growth and annealing studies of HfO<sub>2</sub> on Si (100)**  
R.R. Mohanta, V.R.R. Medicherla, Nimai C. Naik
- PP 1.28** **Pulsed Laser Deposition of CrO<sub>2</sub> Thin Films on Lattice-matched TiO<sub>2</sub> Layers**  
S. Dwivedi, V. Chavan and S. Biswas
- PP 1.29** **Growth of Highly Oriented Topological Insulator Bi<sub>2</sub>Se<sub>3</sub> Thin Films by Pulsed Laser Deposition**  
Biswajit Saha, Pragati Chaturvedi and Swaroop Ganguly
- PP 1.30** **Pulsed Laser Ablated WO<sub>3</sub> Nanocrystalline and Iso-Epitaxial Thin Films For Electrochromic And Gas Sensing Applications**  
A.S.Swapna Smitha and O.M.Hussain
- PP 1.31** **Growth and characterization of PLD grown Sb doped ZnO thin films**  
Joynarayan Mukherjee, M. Ramanjaneyulu and M. S. Ramachandra Rao
- PP 1.32** **Structural and optical properties of aluminum doped zinc oxide: formation of nanorods**  
Sanjeev Kumar,Fouran Singh, A.Kapoor
- PP 1.33** **Temperature dependent dielectric properties of Fe<sub>3</sub>BO<sub>6</sub> nanoplates**  
K. Kumari, S. Ram and R. K. Kotnala
- PP 1.34** **Spectroscopic study of interaction between casein and biosynthesized silver nanoparticles**  
Swarup Roy and Tapan Kumar Das
- PP1.35** **Plasmonic Properties of Pulsed Laser Deposited Nanoisland Silver Thin Film**  
Mahima Arya and Anirban Mitra
- PP 1.36** **Dual acceptor doping in ZnO to realize a stable p-type ZnO**  
M. Ramanjaneyulu, Nandita DasGupta and M.S. Ramachandra Rao
- PP 1.37** **Growth and Characterization of PbZr<sub>x</sub>Ti<sub>1-x</sub>O<sub>3</sub> thin films on SrRuO<sub>3</sub> buffered Si by pulsed laser deposition**  
Martando Rath, Brajesh Tiwari and M.S.Ramachandra Rao
- PP 1.38** **Frequency - temperature dielectric response of electromagnetic BiFeO<sub>3</sub> Ceramics**  
Trisha Karan and Shanker Ram

- PP 1.39** **Fabrication and Characterization of 2-D Magnetic Antidot Arrays for Applications in Magnonic Crystals**  
N. Porwal, S. Pal, S. Barman, K. Das, A. K. Raychaudhuri ,S. K. Ray and A. Barman,
- PP 1.40** **Comparative study of conventionally and microwave heated dysprosia stabilized zirconia (DySZ)**  
Mukul Pastor, A.C. Pandey and K. Biswas
- PP 1.41** **Pulsed Laser deposition growth of superconducting/ferromagnetic ( $\text{HoBa}_2\text{Cu}_3\text{O}_{7-x}/\text{La}_2/3\text{Ca}_1/3\text{MnO}_3$ ) multilayered thin films**  
A. I. Mallick and M. S. Ramachandra Rao
- PP 1.42** **A New SRR Type Metamaterial Design with Negative Index Band**  
Raghvendra P. Chaudhary, Sumit Saxena and Shobha Shukla
- PP 1.43** **Fabrication of  $\text{SiO}_x$  thin films by Pulsed Laser Deposition Technique in O<sub>2</sub> ambient pressure**  
Partha P Dey and Alika Khare
- PP 1.44** **Optical and morphological studies on laser ablated  $\text{V}_2\text{O}_5$  thin films**  
K. V. Madhuri, K. Srinivasa Rao, O. M. Hussain
- PP 1.45** **Preparation, characterization and optical properties of Gadolinium doped ceria thin films by pulsed laser deposition technique**  
P.Nagaraju, Y.Vijaya Kumar,C.Vishnuvardhan Reddy,M.V.Ramana reddy,D.M Phase and V.Raghavendra Reddy
- PP 1.46** **Structural and magnetic characterization of Pulsed Laser Deposited  $\text{Co}_2\text{FeAl}$  thin films**  
Madhusmita Baral, Detty A. P, Soma Banik, P. Gupta, S. K. Rai, M. Maniraj, S. R. Barman, V. R. Reddy, Tapas Ganguli, L. M. Kukreja and S. K. Deb
- PP 2.1** **Diamond Like Carbon Films Deposited by Pulsed Laser Ablation of Graphite Target**  
Indrajeet Kumar and Alika Khare
- PP 2.2** **Plasmon Enhanced Frequency Upconversion in  $\text{Er}^{3+}/\text{Yb}^{3+}$  doped  $\text{Y}_2\text{O}_3$  Thin Film by Using Gold Film**  
Kaushal Kumar, Manoj Kumar Mahataa & Ram Janay Choudharyb
- PP 2.3** **Nanocrystalline diamond coatings on Ti for biomedical applications**  
Dinesh Kumar, Maneesh Chandran, and M.S. Ramachandra Rao
- PP 2.4** **Dielectric, Impedance and Electrical Conductivity of  $(\text{Zn},\text{Sr})\text{TiO}_3$  composite**  
P. Jayabal, V. Sasirekha, V. Ramakrishnan
- PP 2.5** **Ferroelectricity and ferromagnetism near room temperature: a multilayer engineering of  $\text{SmFeO}_3\text{-BaTiO}_3$**   
A. Ghosh, K. Dey, S. Majumdar, and S. Giri
- PP 2.6** **Structural, morphological, optical and gas sensing properties of platinum incorporated laser ablated nanostructured tungsten oxide films**  
R. Jolly Bose, Navas I,K. S. Tan,Usman Ilyas,R. S. Rawat,Murukeshan Vadakke Matham and V. P. Mahadevan Pillai1
- PP 2.7** **Role of Surfactant and Ablation Time on Growth of Anatase and Rutile  $\text{TiO}_2$  Nanoparticles Using Liquid Phase Pulsed Laser Ablation**  
Amita Chaturvedi, M. P. Joshi, L. M. Kukreja
- PP 2.8** **Effect of annealing on Ferromagnetic resonance in  $\text{FePt/MgO}$  thin films**  
Himanshu Pandey, R. K. Rakshit, K. K. Maurya, Anurag Gupta, R. P. Pant, and R. C. Budhani

- PP 2.9** **Effect of preparation method on photocatalytic properties of titanium dioxide (TiO<sub>2</sub>) thin films**  
R. Lavanya and V. Vasu
- PP 2.10** **Electrical characterisation of flexible organic light emitting diodes with Al doped ZnO electrodes deposited by Laser pulse deposition**  
Rajesh Awasthy , J.K. Sharma, R. Swami, Swati Sahu, A.K.Verma and Sanjay Tiwari ,
- PP 2.11** **Magnetic diode behavior of Mn<sub>0.01</sub>Sn<sub>0.99</sub>O<sub>2-x</sub> /p-Si heterojunction**  
S. Bhaumik, S. K. Ray and A. K. Das
- PP 2.12** **Influence of substrate temperature on Zinc Sulphide thin films by RF magnetron sputtering technique for photovoltaic applications**  
T.S. Shyju and P. Kuppusami
- PP 2.13** **Deposition and characterization of nanocrystalline copper indium disulphide thin films by photochemical method for Solar cell applications**  
R.Suriakarthick, V.Nirmalkumar, T.S.Shyju, R.Gopalakrishnan1
- PP 2.14** **CdSe nanoparticles produced by liquid phase pulse laser ablation**  
A. K. Shahi, B. K. Pandey and R. Gopal
- PP 2.15** **Light emission from Er doped Ge nanocrystals embedded in Al<sub>2</sub>O<sub>3</sub> matrix**  
R. Aluguri, S. Manna, and S. K. Ray
- PP 2.16** **Unusual metal like nature in nanosized Zn<sub>0.5</sub>Ni<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> with reduced dielectric constant**  
D.Vanidha, A.Arunkumar and R.Kannan
- PP 2.17** **The influence of thickness on the Band Gap of vacuum evaporated CuSbS<sub>2</sub> thin films for solar cell applications**  
Thiruvenkadam .Sa, Leo Rajesh.Aa
- PP 2.18** **Synthesis and characterization of SnO<sub>2</sub> based thin films prepared by pulsed laser deposition for functional applications**  
S. K. Sinha, S. K. Ray, I. Manna
- PP 2.19** **Tuning the Curie temperature to an unprecedented maximum in La0.5Sr0.5CoO<sub>3</sub> thin films**  
Kaustuv Manna, D. Samal, Suja Elizabeth and P. S. Anil Kumar
- PP 2.20** **Growth and characterization of ZnO-SnO<sub>2</sub> composite thin films**  
T. Rakshit, I. Manna, and S. K. Ray
- PP 2.21** **Effect of Substrate Induced Stress on Structure and Band Gap of Cobalt Ferrite Thin Films**  
Venkata Ravindra A, Bhaskar Chandra Behera, Prahallad Padhan and Wilfrid Prellier
- PP 2.22** **Si/ZnS radial heterojunction fabricated by pulsed laser deposition for white light emission**  
Ajit K. Katiyar, Arun Kumar Sinha, S. Manna, and S. K. Ray
- PP 2.23** **Ion Beam Studies of Ultra-small Silicon Nanoparticles prepared by Ultrafast Laser Ablation**  
V.S. Vendamani, Syed Hamad, S. Venugopal Rao, A.P. Pathak and S.V.S. Nageswara Rao,
- PP 2.24** **Giant low temperature positive junction magnetoresistance in PLD grown CoFe<sub>2</sub>O<sub>4</sub>/SiO<sub>2</sub>/p-Si Magnetic diode like heterojunction**  
Jaganandha Panda, A. Santhosh Kumar and Tapan Kumar Nath

- PP 2.25** **Strain induced first order magnetic phase transition in epitaxial Sm<sub>0.55</sub>Sr<sub>0.45</sub>MnO<sub>3</sub> thin film**  
S. K. Giri, P. T. Das and T. K. Nath
- PP 2.26** **Studies on Yttria Stabilized Zirconia Coating Developed by Pulsed Laser Deposited**  
Subhasisa Nath, Indranil Manna,S. K. Ray and Jyotsna Dutta Majumdar
- PP 2.27** **Synthesis of Quantum Critical Pd<sub>1-x</sub>Ni<sub>x</sub> Nanoalloys**  
P. Swain, Suneel K. Srivastava and Sanjeev K. Srivastava1
- PP 2.28** **Facile hydrothermal synthesis of PVP assisted WO<sub>3</sub> nanorods**  
V. Rajendran, S. Gnanam, K. Anandan, J. Gajendiran ,R. Vijayalakshmi, J. UmaV. Revathi, S. Usharani
- PP 2.29** **Effect of Laser Energy on the Electrical, Optical and photoconductivity Properties of ZnO Thin Films Prepared by Pulsed Laser Deposition Technique**  
Arindam Mallick and Durga Basak
- PP 2.30** **Crack free DC sputtering of metal thin film on soft elastomers for thin film application**  
Debashis Maji and Soumen Das
- PP 2.31** **Carrier transport phenomena in Zn<sub>1-x</sub>V<sub>x</sub>O thin films grown by pulsed laser deposition**  
D. Saha, R. S. Ajimsha and L. M. Kukreja
- PP 2.32** **SPR and NLO Behavior of PLD Deposited Cu Thin Films**  
G. P. Bharti, Raja Bonia, Partha P Dey, A. T. T. Mostako Satchi Kumari and Alika Khare
- PP 2.33** **Electrical and dielectric properties of Bi<sub>2</sub>Te<sub>3</sub> nanosheets: scope of novel storage of renewable energy in nanoelectronics**  
Punita Srivastava and Kedar Singh
- PP 2.34** **Plasmonic response of silver nanoparticles in different liquid media grown by pulsed laser ablation**  
B.N. Singh, B.T. Rao, S. Verma, A.S. Thakur, S. Vaid, A.K. Srivastava1 and L.M. Kukreja
- PP 2.35** **Effect of alumina capping on plasmon resonance characteristics and stability of silver nanoparticle films grown by pulsed laser deposition**  
Shweta Verma, B.Tirumala Rao, D. Reynolds, V. Ganesan and L.M. Kukreja
- PP 2.36** **Plasmonic characteristics of gold nanoparticle films of gradient thickness grown by pulsed laser deposition**  
B.Tirumala Rao, S. Verma, R. Singh, S.K.Rai and L.M. Kukreja
- PP 2.37** **Effect of Ambient Oxygen Pressure on the Structural, Electrical and Optical Properties of Pulsed Laser Deposited Eu Doped ZnO Thin Films**  
A. Mandal, S. D. Shinde, K. P. Adhi, S. K. Adhi1
- PP 2.38** **Pulsed Laser Deposited Praseodymium zinc Molybdate coating for anticorrosion applications**  
SurendhiranDevaraj and N.Victor Jaya
- PP 2.39** **Optimization of process parameters for growth of stoichiometric Co<sub>2</sub>FeAl thin films using pulsed laser deposition**  
Detty A P, Madhusmita Baral, Soma Banik, S K Rai, Mahendra Babu,Pragya Tiwari,M Maniraj, S R Barman, Tapas Ganguli, S K Deb and L M Kukreja
- PP 2.40** **Fabrication of Ga:ZnO/P:ZnO homojunction using pulsed laser deposition**  
R. S. Ajimsha, Amit. K. Das, V. K. Sahu, M. P. Joshi, and L. M. Kukreja

- PP 2.41** **Giant exchange bias and ferromagnetic evidence of CaRuO<sub>3</sub> in Pr0.5Ca0.5MnO<sub>3</sub>/CaRuO<sub>3</sub> superlattice**  
Sanjay Kumar, Shivendra Tripathi, V.Eswara Phanindra and D.S. Rana
- PP 2.42** **Bismuth ferrite/polymer based hybrid piezoelectric photovoltaic thin film**  
M. Dewan and S. Ram
- PP 2.43** **Electrical and optical properties of Mg<sub>x</sub>Zn<sub>1-x</sub>O/ZnO heterostructures**  
Amit K. Das, R. S. Ajimsha and L. M. Kukreja
- PP 2.44** **Magnetization reversal in Pr<sub>1-x</sub>Gd<sub>x</sub>MnO<sub>3</sub>**  
Sanjay Biswas and Sudipta Pal
- PP 2.45** **Effect of Substrate Temperature, Film Thickness on the Structural and Electrical Properties of Pulsed Laser Deposited BaPbO<sub>3</sub> thin films deposited on Si/SiO<sub>2</sub> substrates**  
Satish B, M K Jayaraj
- PP 2.46** **Nanomechanical Properties of of TiN/ZrN Multilayers Prepared by Pulsed Laser Deposition**  
G.Pradhaban, P. Kuppusami
- PP 2.47** **Evidence of ultraviolet transparency of graphene on SrTiO<sub>3</sub> induced by excitonic Fano anti-resonance**  
Pranjal Kumar Gogoi, Paolo E. Trevisanutto, Chan La-O-Vorakiat, Ming Yang Iman Santoso, Teguh Citra Asmara, Yuan Ping Feng, Kian Ping Loh, T. Venkatesan, Elbert E. M. Chia, Antonio H. Castro Neto, Andriyo Rusydi
- PP 2.48** **Influence of oxygen partial pressure on the dielectric properties of Ba(Zr<sub>0.15</sub>Ti<sub>0.85</sub>)O<sub>3</sub> thin films grown on Pt(111) substrates using pulsed laser deposition**  
M.L.V. Mahesh, A.R. James and V.V. Bhanuprasad