



NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

DEPARTMENT OF PHYSICS

National Conference on Advanced Materials and Applications
(NCAMA-2019)
December 21-22, 2019

Day-1: 21-12-2019 (Saturday)					
Conference Registration: 09:00 AM - 10:00AM					
	10:00-10:45 AM		INAUGURAL CEREMONY		
	10:45-11:00		HIGH TEA		
	11:00-11:30	IT-1	Enhancement of Critical Current Density in High Temperature Superconductors by <i>D. Behera, NIT Rourkela</i>		
	11:30-12:00 PM	IT-2	Characterization of Materials at Nano Order Scale Length by <i>D.K. Bisoyi, NIT Rourkela</i>		
			Session I (E-Class Room) Session Chair: Dr. D. Behera		Session II (Virtual Class Room) Session Chair: Dr. D.K. Bisoyi
01	12:00-12:10	OT-01	<i>Tripti Richhariya, Nameeta Brahme, D. P. Bisen, Ekta Chandrawanshi, Neekita Shah, Anita Verma</i> , Study on Luminescence Properties of Eu^{3+} doped Calcium Alumino Silicate Phosphor	OT-51	<i>Anjali Shrivastava, A K Shrivastava</i> , Structural, Morphological and Magnetic Properties of Sm Doped Mn-Zn Ferrites
02	12:10-12:20	OT-02	<i>B. R. Verma, R. N. Baghel, D. P. Bisen, N. Brahme, A. Khare</i> , Luminescent Characterization of $\text{CaMgSiO}_4:\text{Dy}^{3+}$ Phosphor for White Light Emitting Diodes	OT-52	<i>L. Thansanga, Alok Shukla, Nitin Kumar, R.N.P. Choudhary</i> , Study of Effect of Y Substitution on Structural, Dielectric, Impedance and Magnetic Properties of Bismuth Ferrite
03	12:20-12:30	OT-03	<i>Manorama Sahu, Ishwar Prasad Sahu</i> , Generation of Green Luminescence by Europium Doped Calcium Zirconium - Silicates Phosphors	OT-53	<i>S. Sahoo, T. Badapanda, S. Sarangi</i> , Study of Dielectric Properties and Conduction Behaviour of Cerium Doped 0.92 ($\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$) - 0.08 (BaTiO_3) Ceramic,
04	12:30-12:40	OT-04	<i>Ishwar Prasad Sahu, Manorama Sahu, D. P. Bisen, N. Brahme, Pradeep Dewangan</i> , Eco-friendly White light Emitting Dysprosium Activated Calcium Zirconium Silicates Phosphors for Solid State Lighting	OT-54	<i>Janita Saji, Benson K Money</i> , Preparation of $\text{Sr}_{0.25}\text{Ba}_{0.75}\text{Nb}_2\text{O}_6$ Ceramics by Solid State Reaction Method
05	12:40-12:50	OT-05	<i>Prashant Kumar Sahu, R. Das</i> , Microstructural, Electrical and Optical Properties Investigation of Bismuth doped Cadmium Selenide Thin Films	OT-55	<i>Angesh Chandra, Shubhashis Basak, M.Z. Khan, Archana Chandra, R.S. Dhundhel, Alok Bhatt</i> , Synthesis and Ionic Conductivity Measurement of a New Potassium Ion Conducting Solid Polymer Electrolytes
06	12:50-01:00	OT-08	<i>K. S. Ojha</i> , Synthesis and Optical Properties of Solvothermally Synthesized CdS-ZnS Core-Shell Nanoparticles	OT-56	<i>Punyatoya Das, P. Lakshmi Praveen</i> , Theoretical Investigation on Absorption Spectral Profile of Tetrazole Liquid Crystals: Hexyl, nonyl end Groups and Solvent effects
07	01:00-01:10	OT-09	<i>Ganesh Ram Banjare, D.P. Bisen, N. Brahme, Chitrkant Belodhiya, A.K. Upadhyay</i> , Synthesis and Luminescence Behavior of $\text{Ba}_2\text{SiO}_4:\text{Dy}^{3+}$ Phosphors in Presence of Charge Compensator Ions	OT-57	<i>Ashish Baburao Jadhav, SKS Parashar, Syed Amanulla, Deepshikha Datta</i> , Investigation of Electrical, Optical, Mechanical Properties and Structural Characteristics of Calcinated Zinc Oxide-Cerium Oxide Nanoparticle Dispersed Polyvinyl Alcohol Films
08	01:10-01:20	OT-10	<i>Ekta Chandrawanshi, D. P. Bisen, Nameeta Brahme, Tripti Richhariya, Kanchan tiwari</i> , Synthesis and Luminescence Studies of Dy^{3+} Doped $\text{Bi}_4\text{Si}_3\text{O}_{12}$ Phosphor For Cool Light Emission	OT-58	<i>Nripesh Kumar, Alok Shukla, Nitin Kumar</i> , Structural, Electrical and Magnetic Properties of Mechanothermally Synthesized $\text{Bi}(\text{Co}_{0.45}\text{Ti}_{0.45}\text{Fe}_{0.10})\text{O}_3$ Nanoceramic
09	01:20-01:30	OT-12	<i>Jayashri Mahapatro, Sadhana Agrawal</i> , Photoluminescence Behaviour of Gd Doped Barium Hexaferrite	OT-90	<i>P. K. Karsh, Himashu Prasad Raturi, R. R. Kumar, S. Dey</i> , Uncertainty Quantification in Natural Frequency Analysis of Sandwich Plates - A Polynomial Neural Network Based Approach
	01:30-02:30		LUNCH		
	02:30-03:00	IT-3	Lead Free Perovskites Based Environmental Friendly Relaxor Ferroelectrics as Alternate Piezoelectrics Ceramics		

			by <i>P. K. Bajpai, Guru Ghasidas Central University, Bilaspur</i>		
	03:00-03:10		TEA BREAK		
			Session III (E-Class Room) Session Chair: Dr. Sadhana Agrawal and Dr. A.K. Sinha		Session IV (Virtual Class Room) Session Chair: Dr. S. N. Pandey and Dr. K. S. Ojha
01	03:10-03:20	OT-13	<i>Ananya Rout, Sadhana Agrawal</i> , Structural, Morphological and Photoluminescence Behaviour of $\text{Sr}_{10-x}\text{Ba}_x(\text{PO}_4)_6(\text{OH})_2$ Hydroxyapatite	OT-59	<i>Pawan Kumar Yadav</i> , Study of Ionic Conductivity on Mechano-Chemically Synthesized $(1-x)\text{NaNO}_3:x\text{SiO}_2$ System
02	03:20-03:30	OT-14	<i>Sanjay K. Baghel, Nameeta Brahme, D. P. Bisen, Yugbodh Patle, Manju Tiwari</i> , Synthesis and study on luminescence properties of $\text{SrZrSi}_2\text{O}_7:\text{Dy}^{3+}$ Phosphor	OT-60	<i>S K Patnaikuni, S M Saini, R M Chandola, V Choudhary</i> , Study of the Thrediotherapy Treatment Margins in Prostate Cancer with Fuzzy Logic Model
03	03:30-03:40	OT-15	<i>D. B. Zade, V. R. Panse, I. S. Mohurley, N. S. Kokode</i> , Combustion Synthesis and Photoluminescence Studies of Blue Emitting $\text{CaAl}_2\text{O}_9:\text{Ce}^{3+}$ Lamp Phosphors	OT-61	<i>Seema Prasad, D. P. Ojha</i> , Computational Study on Molecular Structures and Vibrational Spectra of Mesogens using the DFT and HF Methods
04	03:40-03:50	OT-16	<i>D. B. Zade, V. R. Panse, I. S. Mohurley, N. S. Kokode</i> , Photoluminescence Analytical Study of Ce^{3+} Activated Blue Emitting SrAl_2O_9 Lamp Phosphors	OT-62	<i>Manju Sahu, Niranjana Kumar, Digeshwari, R. C. Agrawal, Y. K. Mahipal</i> , Physical and Electrochemical Property Studies on Sodium (Na^+) – ion Conducting Nano – Composite Electrolyte Membranes
05	03:50-04:00	OT-17	<i>P.K. Upadhyay, Vikas Kumar Jain, A. K. Shrivastav, Shashank Sharma, Ravi Sharma</i> , Green and Chemically Synthesized ZnO Nanoparticles: A Comparative Study	OT-63	<i>Ankit Kumar Pandey, Anuj Kumar Sharma</i> , Metallic Grating based Plasmonic Sensor Utilising MoS_2 Monolayer: Performance Evaluation
06	04:00-04:10	OT-18	<i>R. K. Chandrakar</i> , Optical Properties and Characteristics of Rare Earth Doped MgO Phosphors	OT-64	<i>P. K. Parida, B. Pradhan, S. Sahoo</i> , Band Energies in Tow-Band Model for Iron Based Superconductors in the Coexistence State
07	04:10-04:20	OT-19	<i>Raunak Kumar Tamrakar, Kanchan Upadhyay</i> , Effect of Praseodymium Doping on Optical Response of ZnO Phosphor	OT-65	<i>Piyusha Priyadarshini, S. Arun Kumar, Ankita Mohanty, Smita Mohanty, Sanjay K. Nayak, Ananthakumar Ramadoss</i> , Preparation and Electrochemical Characterization of Activated Carbon Composite Derived from Idli Waste as Electrode for Supercapacitors
08	04:20-04:30	OT-20	<i>Kanchan Upadhyay, Raunak Kumar Tamrakar</i> , Red-Light-Emitting Polymer Composite Based on PVDF Membranes and Europium doped Gd_2O_3 Phosphor	OT-66	<i>Sakti Prasan Mohanty, C. S. Mishra, S. K. Sahoo, G. Palai</i> , Reflectance - Temperature Characteristics of AlGaIn Semiconductor at Three Communication Windows,
09	04:30-04:40	OT-21	<i>Jagjeet Kaur, Sitieshwari Chandraker</i> , Preparation and Crystal Structure Analysis of Dy^{3+} Doped $\text{Sr}_2\text{ZnSi}_2\text{O}_7$	OT-67	<i>J. Brahma, S. Sahoo</i> , Quantum Hall effect in trilayergraphene
10	04:40-04:50	OT-22	<i>Neha Dubey, Vikas Dubey, Jagjeet Kaur</i> , Enhancement of Photoluminescence Spectra of Eu^{3+} Doped $\text{Gd}_2\text{Zr}_2\text{O}_7$ Phosphor	OT-68	<i>J. Tripathy, L. Yi-Han, Md. S. Sazi, b R. M. Dickson</i> , Single Photon vs Two Photon Excitation of Silver Nanocluster
11	04:50-05:00	OT-23	<i>Sunil Patidar, G.F. Ansari, S.K. Mahajan</i> , Influence of Silver Nanoparticles on Raman and Photoluminescence of Heat Treated Ag-Er Codoped Tungsten Tellurite Glasses	OT-69	<i>Shambhu Sharan, Ratnesh Kumar Patel, Ravi Shankar, Prateek Khare</i> , Extraction of Fluorescent Carbon Dots from Water Hyacinth for Methylene Blue Removal
12	05:00-05:10	OT-24	<i>Yugbodh Patle, Nameeta Brahme, D.P. Bisen, Sanjay Baghel, Kamlesh Thakkar, Sukhraj Nureti</i> , Thermoluminescence Studies of Cerium Doped $\text{Ba}_2\text{ZnSi}_2\text{O}_7$ Phosphor	OT-70	<i>Nirlipta Mallick, Dharm Pal, A. B. Soni</i> , Improving the Mechanical, Water Vapour Permeability, Antimicrobial Properties of Corn-Starch /Poly Vinyl Alcohol film(PVA): Effect of Rice Husk Fiber & Alovera Gel
13	05:10-05:20	OT-25	<i>Mohammad Ziyauddin Khan, Umakaant Shrivastava, Vikas Mishra</i> , Thermoluminescence (TL) of UV irradiated $\text{CaAl}_2\text{O}_4:\text{Dy}$ Phosphors	OT-71	<i>Manoj Kumar Banjare, Ramesh Kumar Banjare, Prashant Mundeja, Kallol K. Ghosh</i> , Spectroscopic Studies the Interaction of Biomolecules with Ionic Liquids: A Comparative Study
14	05:20-05:30	OT-35	<i>Subhanshu Sekhar Sahu, Bijay Kumar Sahoo</i> , Role of Polarization Electric Field on Thermal Conductivity of $\text{GaN}/\text{In}_{0.9}\text{Ga}_{0.1}\text{N}$ Superlattices	OT-72	<i>Khilawan Patel, Alekha Kumar Sutar, Tungabidya Maharana</i> , A Novel Method for the Removal of Uranium by Using Carboxyl Functionalized Graphene Oxide
	07:00-08:00 PM		Musical Eve		
	08:00-09:00 PM		Dinner		

Day-2: 22-12-2019 (Sunday)					
	09:30-10:00 AM	IT-4	Metal oxide/hydroxide composite: Energy storage material for super capacitor application <i>by S. N. Pandey, MNNIT Allahabad</i>		
			Session V (E-Class Room) Session Chair: Dr. K. S. Ojha and Dr. Anju Pansari		Session VI (Virtual Class Room) Session Chair: Dr. S. Dey and Dr. Sudha Kumari
01	10:00-10:10	OT-26	<i>D.K. Golhani, B. Gopal Krishna, M. Jagannadha Rao, Ayush Khare</i> , Microbial-Induced Phase Transition of GeO ₂ and its Study by XRD and Raman Spectrum	OT-73	<i>Jyoti Goswami, Manish Kumar Rai</i> , An Extractive Spectrophotometric Methodology for the Determination of Pymetrozine in Numerous Environmental and Agricultural Samples
02	10:10-10:20	OT-27	<i>V.K. Chandra</i> , Quantum Efficiency of Single Layer Organic Light Emitting Diodes	OT-74	<i>Pradeep Kumar Dewangan, Fahmida Khan</i> , Fabrication of L-Cysteine Functionalized Graphene Quantum Dots as a Fluorescent Nanosensing Probe for Determination of Mercury
03	10:20-10:30	OT-28	<i>Pranav Singh, N.K. Pandey, Prakash Dubey</i> , Synthesis and Luminescence Properties of CaZrO ₂ :Eu ³⁺ Nanophosphors	OT-75	<i>Vinayak Sahu, Fahmida Khan, Pradeep Kumar Dewangan, Komal Kashyap</i> , Synthesis of Blue Fluorescent Carbon Dots for Sensitive and Selective Detection of Glucose in Biological Samples
04	10:30-10:40	OT-29	<i>T. R. Sanodiya, Piyush Jha</i> , Mechanoluminescence of Green Quartz Crystal found in Gour River Jabalpur	OT-76	<i>Rama Devi, Kavita Tapadia, Tungabidya Maharana</i> , Fabrication and Characterization of Polypyrrole Nanoparticles for Supercapacitor Electrode Materials
05	10:40-10:50	OT-30	<i>Pranav Singh, Gajendra Singh, N.K. Pandey, Y.K. Sharma</i> , Development of SrAl ₂ O ₄ :Eu,Dy Nanophosphor Mechanoluminescent Film for Impact Sensor	OT-77	<i>Pranay K Patra, Snigdha Gochhayat, Debidutta Debasish, Shubhra Bajpai, Sachida N Sahu, Saroj K Singh</i> , Development of value added product from flyash (industrial waste)
06	10:50-11:00	OT-31	<i>Gajendra Singh, Pranav Singh</i> , Synthesis and Mechanoluminescence of CaAl ₂ O ₄ :Eu,Dy Nanophosphor by Combustion Method	OT-78	<i>Saroja Sahoo, Mohammad Ziyaeddin Khan, Umakaant Shrivastava</i> , Thermal Insulation Ceramic Material by Using Coal Combustion Waste Fly Ash and Waste Glass with Medicinal Organic Adsorbate
07	11:00-11:10	OT-32	<i>Akhilesh Jadhaw, Anubha S Gour, Piyush Jha</i> , Mechanoluminescence of Eu and Dy Co-doped Sr ₂ Al ₂ SiO ₇ Water-Resistant Phosphor	OT-79	<i>Mohammad Ziyaeddin Khan, Umakaant Shrivastava, Vikas Mishra</i> , A Study on Components of Fly Ash of Different Locations and its Utilization for Production of Improved Quality Materials: A Review
08	11:10-11:20	OT-33	<i>Piyush Jha, Ayush Khare</i> , Development of ZnS:Mn Mechanoluminescent Film for Impact Sensor	OT-80	<i>Lokeshwar Mahto, Dharm Pal</i> , Preparation and Characterization of Amphiphilic Polymer Coating for Marine Biofouling Control
09	11:20-11:30	OT-36	<i>Lekha Verma, Ayush Khare</i> , Synthesis and Characterization of CdTe Thin Film on FTO substrate by Electrodeposition Technique for CdTe/CdS Solar Cells	OT-81	<i>Rakhi Pal, Bidisha Sarangi, Deepshikha Datta, Syed Amanulla</i> , Effect of Rice Husk Ash Concentration and its surface Modification on Fiber Reinforced Epoxy Composite's Mechanical Properties,
10	11:30-11:40	OT-37	<i>Devjyoti Lilhare, Ayush Khare</i> , Effect of Annealing on Structural, Morphological and Optical Properties of CdTe/CdS Thin Films	OT-82	<i>Shaikh Raj, Amruta Pattnaik, Sayantan Sarkar, Deepshikha Datta, Bimal Das</i> , Environment-Friendly and Non-Acidic Extraction-Flocculation Method for Refining of Waste Lubricating Oil
11	11:40-11:50	OT-38	<i>Pooja Kumari, Devjyoti Lilhare, Vikas Lahariya</i> , Structural and Optical Characterization of Cadmium Sulfide Nanocrystals encapsulated by PVP and sodium hexametaphosphate	OT-83	<i>Sudha Kumari</i> , Development of Gold Nanoparticles Decorated Plasmonic Biosensor for the Detection of the Biomolecules
12	11:50-12:00 PM	OT39	<i>Tarkeshwar Sinha, Ayush Khare</i> , Effect of Precursor Ratios on the Structural, Morphological and Optical Properties of CBD-CdS Films	OT-84	<i>Stuti Mohanty, Balasubramaniam Saravanakumar, Smita Mohanty, Sanjay K. Nayak</i> , Investigation of the Mechanical Properties of Himalayan Nettle Fibers and Nano Calcium Carbonate (CaCO ₃) Reinforced Polypropylene composite
13	12:00-12:10	OT-40	<i>Shailraj Narang, Anubha Singh Gour, Meera Gupta</i> , Study of Interrelationship between International Sunspot Numbers, Solar Flare Index, Cosmic Ray Intensity with Occurrence of Various Types of Solar Radio Bursts for the Solar Cycle 21 to 24	OT-85	<i>Nibedita Patra, Nilmapriyadarsini Swain, Smita Mohanty, Sanjay K. Nayak, Anantha kumar Ramadoss</i> , Fabrication of Binder Free 3D-NiO/Ni Networks as an Electrode Material for High Performance Hybrid Supercapacitor
14	12:10-12:20	OT-41	<i>Naman Shukla, Anil Kumar Verma, Sanjay Tiwari</i> , Perovskite Solar Cells: A Viable Alternative Photovoltaic Technology	OT-86	<i>Chinmayee Dash, Dillip Kumar Bisoi</i> , A Study on Structure-Property Relationship of Microwave Irradiated Sunn Hemp Fiber and its Environmentally Conditioned Polymer Composite
15	12:20-12:30	OT-42	<i>Rajesh Lalwani, Brijlata Sharma, R. Das</i> , Preparation of Nanocrystalline Some Rare Earth Doped CdS Thin Films and Their Characterization for Solar Cell Application	OT-87	<i>Mohit Kumar Sahu, Raj Kumar Sahu</i> , Modeling and Optimization of Upsetting Parameters of Aluminum 7075 Alloy Using Grey-Taguchi Method
16	12:30-12:40	OT-43	<i>Aloke Verma, A. K. Diwakar, R. P. Patel, Anita Verma</i> , Characterization of	OT-88	<i>Sanghamitra Dash, Shubhra Bajpai, Saroj K. Singh, Debidutta Debasish</i> , Thermally Synthesized Ba ₃ Sr ₁

			Photovoltaic Property of a $\text{CH}_3\text{NH}_3\text{Sn}_{1-x}\text{Ge}_x\text{I}_3$ Lead Free Perovskite Solar Cell		$x\text{Al}_2\text{Si}_2\text{O}_8$ nanomaterials and its Applications for Both Thermal and Environmental Barrier Coating (T/EBCs)
17	12:40-12:50	OT-44	<i>Neha Anchal, Bijay Kumar Sahoo</i> , Polarization mechanism and Shockley Read Hall recombination Quantum Efficiency of InGaN/GaN Blue LED	OT-89	<i>Shobha Kulshrestha, A.K. Shrivastava</i> , Comparative Analysis on Structural, Morphological, Mechanical and Optical Properties of Organic NLO Semiconductor Materials
18	12:50-01:00	OT-45	<i>Priyanka Sahare, Bijay Kumar Sahoo</i> , Effect of Temperature on Electron Leakage and Efficiency Droop of AlGa _{0.1} N UV LED	OT-91	<i>Gemaraju Srikar, B. Siva Prasad</i> , Experimental Investigations on Cylindrical Composite Pipes Under Lateral Compression Loading,
19	01:00-01:10	OT-46	<i>Anju Pansari, Bijaya Kumar Sahoo</i> , Pyroelectricity of Al _{0.1} Ga _{0.9} N Alloy	OT-92	<i>N. Kumar, M. K. Manoj</i> , Dry Sliding Wear Behavior of Al-Mg-Si /X B ₄ C (x=3.5, 7.0, 10.5, 14 &17.5 wt %) / Composites Against to Automobile Brake Material
20	01:10-01:20	OT-47	<i>B. Sahoo, D. Behera</i> , Effect of Ho ₂ O ₃ Nanoparticles on Critical Parameters of YBCO Superconductor	OT-93	<i>R. Verma, M.J. Rathod, R.K. Goyal</i> , A Review on the Effect of Processing Techniques and Functionalization of Filler on Mechanical Properties of Polymer Nanocomposites
21	01:20-01:30	OT-48	<i>Sakshi Sharma, A. K.Shrivastav, Anjali Oudhia, Mohan L Verma</i> , A First Principle Study of Structural, Electronic and Optical Properties of ZnO Bucky Ball Structure	OT-94	<i>Priyanka S. Yadav, Dr. Sandeep P. Butee</i> , Oxide Dispersion Strengthened Alloys- A Review
	01:30-02:30	LUNCH			
	02:30-03:00	IT-5	High Power Terahertz Pulse Generation and its Prospectus: Spectroscopy and Imaging <i>by Mukesh Jewariya, NPL, New Delhi</i>		
	03:00-03:10	TEA BREAK			
			Session VII (E-Class Room) Session Chair: Dr. Mukesh Jewariya and Dr. S. Dey		Session VII (Virtual Class Room) Session Chair: Dr. K. S. Ojha and Dr. R. K. Chandrakar
01	03:10-03:20	OT-49	<i>Vishal Thakur, Narender Kumar, Mohan L Verma, Anil Kumar Choubey, Homendra D Sahu, B Keshav Rao</i> , Structural and Electronic Properties of 1D Hybrid Graphene/BN Atomic Chain: A First Principle Study	OT-96	<i>Arvind Kumar Sinha, Srikumar Panda</i> , Three Dimensional Natural Transform and its Applications
02	03:20-03:30	OT-50	<i>G. Nag Bhargavi, Tanmaya Badapanda, Ayush Khare, M. Shahid Anwar, Nameeta Brahme</i> , Oxygen Vacancy Related Conduction Behavior in BaZr _{0.05} Ti _{0.95} O ₃ Ceramic	OT-97	<i>Arvind Kumar Sinha, Nishant Namdev</i> , Computational Approach of Tumor Growth in the Human Body with a Significant Technique the Rough Set
03	03:30-03:40	OT-06	<i>D. S. Kshatri, Shubhra Mishra, Ayush Khare, Sanjay Tiwari</i> , Surface Morphology of SrAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ Thin Films Deposited by E-beam Evaporation Deposition Method	OT-98	<i>Arvind Kumar Sinha, Pradeep Shende</i> , An Efficient Way of Uncertainty Assessment in Material Classification
04	03:40-03:50	OT-07	<i>Shubhra Mishra, D. S. Kshatri, Ayush Khare, Sanjay Tiwari</i> , Structural Properties of SrS:La ³⁺ Thin Films Deposited by E-beam Evaporation Deposition Method	OT-99	<i>Arvind Kumar Sinha, Radhakrushna Sahoo</i> , Third-Generation Wavelet Optimization Technique for the Solution of Partial Differential Equations in Material Sciences
05	03:50-04:00	OT-11	<i>Kamlesh Thakkar, Ravi Sharma, Nameeta Brahme, D.P. Bisen, Tripti Richhariya</i> , Luminescence studies of rare earth doped CdB ₄ O ₇ phosphor	OT-100	<i>R. P. Patel, Durga Verma</i> , First-principles Studies of Pure and Eu ²⁺ Doped Sr ₂ SiO ₄ Phosphor, Based on Electronic Structure and Optical Properties,
06	04:00-04:10	OT-34	<i>Priyanka Roy, Numeshwar Kumar Sinha, Ayush Khare</i> , Influence of Defect Density and Layer Thickness of Absorption Layer on the Performance of Tin Based Perovskite Solar Cell	OT-101	<i>K. K. Pathak, Mimi Akash Pateria, Kusumanjali Deshmukh, Piyush Jha</i> , Structural, Optical and Electrical Properties of Neodymium doped CdSe Thin Film
07	04:10-04:20	OT-95	<i>Sushmita Dey</i> , Electrocaloric Cooling Materials: A Step Towards Zero Global Warming and Energy Efficient Refrigeration	OT-102	<i>Goverdhan Yadu, Lekhrum Verma, Madhuri Devnath, Hema Sahu, Menka Sahu, Devina</i> , Growth and Characterization of (Cd-Zn)S Thin Films,
08	04:20-04:30			OT-103	<i>A. K. Mahaptara, T. Badapanda, S. Sarangi</i> , Investigation of conduction mechanism in Dysprosium doped Barium Tiatanate ceramic: An impedance spectroscopy analysis
	04:30 - 05:30	VALEDICTORY FUNCTION			