International Conference on Advanced Materials Development & Performance

11 – 15 July 2017

Organized by
Department of Physics ,
Savitribai Phule Pune University, Pune-411007

Technical Programme

Wednesday, July 12, 2017 (Day # 1)					
From	**-**	**To**	**Talk type**	**Title**	**Presenter**
10:00		10:30	**Inauguration**		
10:30		11:15		Keynote Address: Materials Metrology -	**D. K. Aswal**
11:15		11:45	**High Tea**		
11:45		12:25	PL-1	Manipulation of optical and electrical properties of zno thin films via embedded nano structure	**Ri-Ichi Murakami**
12:25		13:05	PL-2	Electronic Structure of confined systems	**Anjali Kshirsagar**
13:05		14:20	**Lunch**		
14:20		16:10	**Parallel Session 1 to 4**		
16:10		16:30	**Tea**		
16:30		18:00	**Parallel Session 5 to 8**		
19:00		20:00	**Cultural Programme**		
Parallel Session 1: Nano Materials, Smart materials and structures, Functional porous materials, Green Innovation					
14:20		14:45	IT-1	Tuning the Physical Properties of a Silver Nanoparticles Sheet via Immersion Ligand Exchange Reaction	Pangpang Wang.
14:45		15:10	IT-2	Oxide nanomaterials for radiation pollution control	Vilas Shelke
15:10		15:22	CT-1	Processing and characterization of cd / ti co-substituted bifeo3 nanoceramics	Alok Shukla
15:22		15:34	CT-2	Magnetically and thermally tunable dielectric and ac electrical properties of zn doped co-ferrite nanoparticles	Mainak Majumder
15:34		15:46	CT-3	Magnetically and thermally tunable ac electrical transport of la doped ferrite nanoparticles	Supratim Roy
15:46		15:58	CT-4	Fabrication of hybrid gel nanofibrous polymer electrolyte for lithium ion battery	Subhash Kondawar
15:58		16:10	CT-5		

Parallel Session 2: Mechanical & Environmental Properties of materials, Marine Environmental & technology					
14:20		14:45	IT-3	Evaluation of w/c ratio, cover thickness and immersion years to corrosion probability of embedded steel bar in mortar specimen	Kyung man moon
14:45		15:10	IT-4	A study on the laminate pattern of high strength composites applied to the ship	Sungwon yoon
15:10		15:22	CT-6	Dynamics modeling and structural analysis of underwater construction robot	Joon-Young Kim
15:22		15:34	CT-7	Dynamics modeling and behavior analysis of underwater glider system	Sung min hong
15:34		15:46	CT-8	An analysis on carbon fiber hull structure of a new underwater glider	Sang-ki jeoung
15:46		15:58	CT-9	Welding residual stress analysis and fatigue strength assessment at elevated temperature for multi-pass dissimilar material weld between alloy 617 and p92 steel	Juhwa lee
15:58		16:10	CT-10	Assessing welding residual stress and corrosion fatigue strength of dissimilar material weld between alloy617 and 12cr steel	Jeong ho hwang
Parallel Session 3: Electric, Electronic, Magnetic, Optical, Chemical, Ecomaterials and Energy Materials					
14:20		14:45	IT-5	Optical properties of [ta2o5]1-x-[tio2]x (x=0.08) thin films	Mahesh Kumar Agarwal
14:45		15:10	IT-6	Metal oxide-copper-metal oxide multilayer structures for high-performance transparent electrodes	Keh-Moh Lin
15:10		15:22	CT-11	Eco-friendly removal of phosphate from aqueous solution using natural dietary fibers and minerals	Ho Hong Quyen
15:22		15:34	CT-12	Structure property correlation in cr substituted mn-ni-sn ferromagnetic shape memory alloys	Barsha Borgohain
15:34		15:46	CT-13	Heat transfer analysis of pin fins heat sinkusing graphene material – futuristic approach	Manoj Kumar Vedulla
15:46		15:58	CT-14	Ac conductivity of sb2se3 and ag doped as2se3	Ram Murti
15:58		16:10	CT-15	First-principles calculations of half-heusler heterostructures	Abhishek Sharan

Parallel Session 4: Synthesis and Characterization of Materials, General Materials, Non destructive inspection					
14:20		14:45	IT-7	Chemical mapping of gold nanorods formed by a novel polymer-immobilised seeds mediated technique; NEXAFS and XRF characterisation	Majid K. Abyaneh
14:45		15:10	IT-8	Investigation of solvent effects on crystal structure of cross-linked lysozyme crystals	Yohei Yamada And Tomoki Yabutani
15:10		15:22	CT-16	Commercial solder alloy: an electrocatalyst for reduction of co2 to formate	Swarda Khatavkar
15:22		15:34	CT-17	Electrical properties of ald-hfo2 thin films deposited on surface nitride germanium	Khushabu Agrawal
15:34		15:46	CT-18	Towards understanding of iso-conversional study of crystallization by using various heating rates (vhr) method	Ankita Srivastava
15:46		15:58	CT-19	Low temperature synthesis of tungsten carbide using high surface area carbon and graphite: production and characterization of wc	Dinesha Kumar U
15:58		16:10	CT-20	Pseudocapacitance behavior of chemically synthesized manganese sulfide: effect of supersaturation	Mangesh A. Desai
Parallel Session 5: Nano Materials, Smart materials and structures, Functional porous materials, Green Innovation					
16:30		16:55	IT-9	Syntheses and properties of copper hydroxide nanosheets and controlled deposition	Masashi Kurashina
16:55		17:20	IT-10	Growth and applications of indium-oxynitride nanodots on optoelectronic devices	Wen-Cheng Ke
17:20		17:32	CT-21	Effect of organic vapours on activation energies of metal phthalocyanines dispersed glasses	R Ridhi Gandhi
17:32		17:44	CT-22	Xps and field electron emission investigations of 2d mos2@ 1d brookite tio2 nanorods hetero-architectures	Rupesh Devan
17:44		17:56	CT-23	Hydrothermal synthesis and structural characterization of nanocrystalline perovskite manganite sm0.55sr0.45mno3	Harshit Agarwal

Parallel Session 6: Surface modification process and evaluation					
16:30		16:55	IT-11	Krf laser pulses effect on microstructure of batio3 films	Suryavamshi Kanth
16:55		17:20	IT-12	Application of ultrasonic assisted soldering method to hard-to-solder material	Daisuke Yonekura
17:20		17:32	CT-24	Effect of ion bombardment condition on substrate surface properties	Hitoshi Sugiyama
17:32		17:44	CT-25	Development of digital image correlation method based on deep learning for strain measurement of material at tensile test	Hyeon-Gyu Min
17:44		17:56	CT-26	Optical properties tuning of al-si-n nanocomposite coating through deposition parameters during sputtering.	Soni
Parallel Session 7: Electric, Electronic, Magnetic, Optical, Chemical, Ecomaterials and Energy Materials					
16:30		16:55	IT-13	Effect of annealing temperature on molecular ordering of poly(3,3‴-dialkylquarterthiophene) polymer thin film	Arun Singh
16:55		17:07	CT-27	Characterizations of la-doped ceria synthesized by coprecipitation method as an electrolyte for solid oxide fuel cells	Ryota Minakata
17:07		17:19	CT-28	Deposition of dc-sputtered ito thin films by controlling exhaust pressure as a new experimental parameter	Koji Ikenaga
17:19		17:31	CT-29	Silica aerogel low-k films towards inter layer dielectric (ild) application	Anil Gaikwad
17:31		17:43	CT-30	Stimulating multiferroicity in ‘a’ site modified perovskite a(mn)tio3	Mukilraj.T
17:43		17:55	CT-31	On free vibration analysis of fgpm cylindrical shell using rayleigh ritz method	Amit Gahlaut
Parallel Session 8: Composite materials					
16:30		16:55	IT-14	Manufacturing and properties of cotton and jute fabric reinforced pla composites	Jieng-Chiang Chen
16:55		17:20	IT-15	Easy cellulose nanofiber extraction from residue of agricultural crops	Antonio Nakagaito
17:20		17:32	CT-32	Fabrication and characterization of gold/polypyrrole underwater bimorph actuator	Samir Panda
17:32		17:44	CT-33	Complex impedance spectroscopy of (1-x)%l0.7s0.3mno3-(x)%wax hybrid nanocomposites (0.05 ≤ x ≤ 1.0)	Debajit Deb
17:44		17:56	CT-34	Room temperature magnetoelectric coupling, dielectric and impedance studies of 0.5 zn0.3ni0.7fe2o4 - 0.5 homno3 nanocomposite	Rajesh Debnath

Thursday, July 13, 2017 (Day # 2)					
From	**-**	**To**	**Talk type**	**Title**	**Presenter**
9:30	-	10:10	PL-3	Large-scale epitaxial graphene fabricated by high-temperature graphitization of sic substrate	**Masao Nagase**
10:10	-	10:50	PL-4	Nanotechnology based Smart Materials for Wearable Technologies	**Ravi Silva**
10:50		11:20	**Tea**		
11:20	-	13:10	**Parallel Session 9 to 12**		
13:10		14:30	**Lunch**		
14:30	-	15:10	PL-5	HWCVP as a potential tool for growing SiNWs: Application to Supercapacitors	**R O Dusane**
16:50		16:30	**Parallel Session 13 to 16**		
16:30	-	16:50	**Tea**		
16:30		18:15	**Posters (PP 1 to 140)**		
19:30		21:30	**Dinner: hosted by ICON Analyatical Equipments, Mumbai**		
Parallel Session 9: Nano Materials, Smart materials and structures, Functional porous materials, Green Innovation					
11:20		11:45	IT-16	Utilization of peroxy compounds for selective separation of vanadium, molybdenum and tungsten	Tomoki Yabutani
11:45		12:10	IT-17	Theoretical calculation of lattice thermal conductivity in zno nanowires	Sameer Galagali
12:10		12:22	CT-35	Fast scan cyclic voltammetry; a novel method to study the co poisoning of catalyst on direct methanol fuel cells	Durgasha Poudyal
12:22		12:34	CT-36	Visible-light-driven photocatalytic performance of znin2s4 architectures	Sangeeta Adhikari
12:34		12:46	CT-37	Facile synthesis of graphene via a green reduction of graphene oxide by tagetus erecta (marigold flower)	Shivanjali Shahane
12:46		12:58	CT-38	Effect of zno nanoparticles on germination, growth characteristics and chlorophyll content in wheat plants (triticumaestivum l)	Jayashri Bagawade
12:58		13:10	CT-39	Synthesis, characterization and electromagnetic properties of er doped nickel zinc ferrite nanoparticles	Ravindra Kambale

Parallel Session 10: Mechanical & Environmental Properties of materials, Marine Environmental & technology					
11:20		11:45	IT-18	Free vibration analysis of anti-symmetric composite sandwich plates	Sailipsa Sahu
11:45		12:10	IT-19	On the prediction of diffusion coefficient for water absorption in natural fibre reinforced polymer composites	Ratnam Paskaramoorthy
12:10		12:35	IT-20	Industrial application of slag fiber through the evaluation of mechanical property	Chang Wook Park
12:35		12:47	CT-40	The study of stress concentration of self-reinforced pet composites by digital image correlation method	Po-Chun Lin
12:47		12:59	CT-41	A study on the design for high strength composites applied to the intermediate shaft of the ship	Tae-Yeob Kim
12:59		13:11	CT-42	Effect of the heat-treated halloysite nanotubes on the mechanical properties of gfrp	Soo Jeong Park
Parallel Session 11: Electric, Electronic, Magnetic, Optical, Chemical, Ecomaterials and Energy Materials					
11:20		11:45	IT-21	Multiparameter Optoelectronic Sensor Nodes for Smart Fiber Sensor Networks	A D Shaligram
11:45		12:10	IT-22	Future of Dye Sensitized Solar Cells	Habib M. Pathan
12:10		12:22	CT-43	Ag embedded zno nanorods as plasmonic photoanodes for enhanced photoelectrochemical water splitting	Mohit Prasad
12:22		12:34	CT-44	Estimation of band offset for chalcogenide solar cells	Sachin Rondiya
12:34		12:46	CT-45	Two-dimensional photonic crystal formed by cubic-spline structure for polarization beam-splitting applications	Rachel Darthy.R
12:46		12:58	CT-46	Synthesis and luminescence characterization in eu/dy/tb doped limgbo3 phosphor synthesized via sol-gel route	Mangesh Yerpude
12:58		13:10	CT-47	Application of benzo[α]phenoxazine derivatives [m-5b, m-6b] as a photosensitizer intio2 based dye sensitized solar cells.	Suprabha Sahoo
Parallel Session 12: Alloys & Compounds, Concrete Materials, Fatigue and fracture and High temperature structural materials					
11:20		11:45	IT-23	Experimental characterization of micro structural changes during creep in alloy 600 by acoustic non linearity	Minati Kumari Sahu
11:45		12:10	IT-24	A study on the fretting wear characteristic of scm415 alloy steel	Tae-Gyu Kim
12:10		12:22	CT-48	Study on contact angle of tool steel surface treated by electron beam alloying technique.	Ryuchu Kanda

12:22		12:34	CT-49	Fretting fatigue properties of ti-6al-4v alloy with cr/crn multilayer	Kento Anzai
12:34		12:46	CT-50	Electrical and thermal properties of ndfeo3 ceramics	Vikash Kumar Jha
12:46		12:58	CT-51	Cd(oh)2 nanowires: synthesis and field emission properties	Vivekanand S. Bagal
12:58		13:10	CT-52	Implementation of deep learning method on estimation of fatigue properties from monotonic mechanical properties	G.Navaneetha Krishnan
Parallel Session 13: Nano Materials, Smart materials and structures, Functional porous materials, Green Innovation					
15:15		15:40	IT-25	Ultrafast spectroscopic study on interfacial electron transfer in solar cell nanomaterials	Akihiro Furube
15:40		15:52	CT-53	High photoresponsivity and broadband photodetection in nanosheets of bi2te3 topological insulator	Alka Sharma
15:52		16:04	CT-54	Natural hibiscus dye and synthetic organic eosin y dye sensitized solar cells using titanium dioxide nano particles photoanode: comparative study	Swati Kulkarni
16:04		16:16	CT-55	Investigation of the role of mn doping on structural, dielectric and optical properties of ndfeo3	Shahid Husain
16:16		16:28	CT-56	Novel optoelectronic device based on topological insulator-carbon nanotube heterostructure for broadband photodetection	Biplab Bhattacharyya
Parallel Session 14: Sensors and Biomedical Applications and Biomaterials					
15:15		15:40	IT-26	Low Invasive Biosensor for Continuous Glucose Monitoring	Mikito Yasuzawa
15:40		15:52	CT-57	Tuning of absorption wavelength and intensity by Mg impurity inCaS:Ce	Geeta Sharma
15:52		16:04	CT-58	Development of novel fuel sensor for bio-fuel combustion engine	Bhavesh R. Javale
16:04		16:16	CT-59	Fetpp functionalized nanotube based sensors for the detection of aliphatic and aromatic group of compounds	Arti Rushi
16:16		16:28	CT-60	Au nanoparticles tailored functionalized swnts for room temperature detection of carbon monoxide	Kunal Datta

Parallel Session 15: Synthesis and Characterization of Materials, General Materials, Non destructive inspection					
15:15		15:40	IT-27	Synthesis and Characterization of Negative Thermal Expansion of Zr2(WO4)(PO4)2 System	Kei-Ichiro Murai
15:40		15:52	CT-61	Wet chemical preparation of calcium phosphates	Byeongwoo Lee
15:52		16:04	CT-62	Synthesis of Boron Nitride (BN) using Hydrothermal Route	A M Funde
16:04		16:16	CT-63	Interface study of la0.67ca0.33mno3/bifeo3/la0.67ca0.33mno3 multayer using time of flight-secondary ion mass spectroscopy	Mukesh Vahare
16:16		16:28	CT-64	Bio-synthesized Silver Nano Particles: Enhancer Current Capacity in Microbial Fuel Cell	Laleh Khajehkarimoddini
Parallel Session 16: Composite materials					
15:15		15:40	IT-28	The study of pin hole tensile properties of self-reinforced pet composites	Chang-Mou Wu
15:40		15:52	CT-65	Pet-fe0 magetic nanocomposite for the removal of sparfloxacin	Vaibhav R. Chate
15:52		16:04	CT-66	Stress analysis of laminated composite shell subjected to different loadings using abaqus software	Mahesh Sutar
16:04		16:16	CT-67	Temperature dependent study of al2o3-glass composite thick films on steel substrate	Ghanasham D. Shirke
16:16		16:28	CT-68	Deformation and stress analysis of laminated composite beam by using higher order shear deformation theory	Nivedan Pandey

Friday, July 14, 2017 (Day # 3)					
From	**-**	**To**	**Talk type**	**Title**	**Presenter**
9:30	-	10:10	PL-6	Melting Behavior at High temperature of the Slag and its Fiberization Characteristics	**Yun-Hae Kim**
10:10	-	10:50	PL-7	Preparation and application of nano energy materials from bio-mass	**Juncai Sun**
10:50	-	11:20	**Tea**		
11:20	-	13:10	**Parallel Session 17 to 20**		
13:10	-	14:30	**Lunch**		
14:30	-	16:15	**Posters (PP 141to 282)**		
16:15	-	16:30	**Tea**		
16:30	-		**Buses will leave for Banquet venue**		
19:30	-	21:30	**Banquet : hosted by Singhgad Institute of Technology, Lonavala**		

Parallel Session 17: Nano Materials, Smart materials and structures, Functional porous materials, Green Innovation					
11:20	-	11:45	IT-29	Highly stable nanostructured quantum dot-glassy phase advanced energy materials	Bharat B. Kale
11:45	-	12:10	IT-30	Organic Conducting Polymer / Carbon Nanotubes Nano-composite for Detection Heavy Metal Ions	Mahendra D. Shirsat
12:10	-	12:22	CT-69	Cation distribution and magnetostrictive properties of cobalt ferrite nanoparticles	Sandip G Kakade
12:22	-	12:34	CT-70	Nanocrystalline bismuth doped zinc oxide thermoelectric materials	Nazilla Solemonian
12:34	-	12:46	CT-71	Structural, morphological and electrical properties of nickel doped zno nanoparticles synthesized via sol-gel auto combustion	Pallavi Undre
12:46	-	12:58	CT-72	Magnetic and Dielectric Properties of Fe doped CdSe Nanomaterials	Sayantani Das
12:58	-	13:10	CT-73	Photocatalytic reduction of chromium (vi) in aqueous solution with aeroxide® tio2	Priyanka Sane
Parallel Session 18: Mechanical & Environmental Properties of materials, Marine Environmental & technology					
11:20	-	11:45	IT-31	On ground test of al6061 structure influenced from space proton irradiated by mc-50 cyclotron	Yong-Hong Kim
11:45	-	12:10	IT-32	Using nano-particle reinforced polyurethane as wire guides in wire sawing process	Chunhui Chung
12:10	-	12:22	CT-74	Stochastic free vibration analysis of plates and shells using finite strip method	Avaya Kumar Satapathy
12:22	-	12:34	CT-76	Effect of chromium addition on properties of sinter – forged fe-cu-c alloy steel	Vinay R Kulkarni
12:34	-	12:46	CT-77	Static and dynamic mechanical behavior of pure and cnt filled bisphenol-a based epoxy using nanoindetation characterization technique.	Amrinder Pal Singh
12:46	-	12:58	CT-78	Environmental resistance and mechanical properties of glass, basalt and slag fibers	Chang Wook Park
12:58	-	13:10	CT-79	Micromechanical based displacement and load distribution for double lap multi-bolt composite bolted joint	Supriya Jadhav

Parallel Session 19: Synthesis and Characterization of Materials, General Materials, Non destructive inspection					
11:20	-	11:45	IT-33	Carbon-based Composites for Energy Storage Systems	Toyoko Imae
11:45	-	12:10	IT-34	Radiation induced synthesis/processing of materials and their applications	S S Dahiwale
12:10	-	12:22	CT-79	Expanding the magnetocaloric operation range in rapidly solidified off-stoichiometric ni-mn-cu-ga ribbon by optimal annealing	Sushmita Dey
12:22	-	12:34	CT-80	Ferroelectric and Piezoelectric Properties of (Ba0.95Ca0.05)(Ti0.92Zr0.06Sn0.02)O3 Lead-Free Electroceramic	Bharat G. Baraskar
12:34	-	12:46	CT-81	Evaluation of radiological attenuation properties of lipids using gamma ray spectrometry	Prashant Kore
12:46	-	12:58	CT-82	Improvement of structural, morphological and optical characterization by zn doping in cb deposited cds material.	Bhaskar Munde
12:58	-	13:10	CT-83	Facile Synthesis, Physicochemical Characterization and Cytotoxicity Study of CFO NPs for Biomedical application	Sumayya M. Ansari,
Parallel Session 20: Composite materials					
11:20	-	11:45	IT-35	Effect of fiber permeability by heat-treated hnt on manufacturing rim composites	Soo Jeong Park
11:20	-	11:45	IT-36	Are polymer surfaces stable under long exposure of water?	Arun G. Banpurkar
11:45	-	11:57	CT-84	Thermally tunable dielectric and electrical properties and room temperature magneto - electric coupling of x zn0.5co0.5fe2o4 – (1-x) pzt composites	Sarit Chakraborty
11:57	-	12:09	CT-85	High Oxide Ion Conductivity below 500 °C in Garnets LaxY3-xFe5O12+d	D. R. Bhosale
12:09	-	12:21	CT-86	Investigation of gamma irradiation effects on the structural, morphological and magnetic properties of Co-Mn ferrite	Bhavana Keshvani
12:21	-	12:33	CT-87	Arc Plasma Synthesis of Plasma Torch Gas Flow Assisted Nanocrystalline Lanthanum Hexaboride and Its Field Emission Properties	Shalaka A. Kamble
12:33	-	12:45	CT-88	Room temperature operable (iron oxide –polyaniline) nanocomposite sensor for the detection of hazardous ammonia gas	Manisha Bora

Saturday, July 15, 2017 (Day # 4)					
From	**-**	**To**	**Talk type**	**Title**	**Presenter**
9:30	-	10:10	PL-8	Eco-friendry preparation of (oxy)nitrides for pigments, phosphors and electrodes	**Toshihiro Moriga**
10:10	-	10:50	PL-9	The application of phase diagram in materials science and engineering	**Yee-Wen Yen**
10:50	-	11:20	**Tea**		
11:20	-	12:35	**Parallel Session 21 to 23**		
12:35	-	13:15	Concluding Session		
13:15	-	14:30	**Lunch**		
Parallel Session 21: Nano Materials, Smart materials and structures, Functional porous materials, Green Innovation					
11:20	-	11:45	IT-37	Advanced 2D inorganic Layered materials: Synthesis, Properties and Applications	Dattatray Late
11:45	-	12:10	IT-38	Phase, morphology and property tuning of nano-structured samples using thermal plasma route.	V L Mathe
12:10	-	12:22	CT-89	Stress analysis of laminated composite beam subjected to different loading conditions using abaqus software	Narendra Kulkarni
Parallel Session 22: Sensors and Biomedical Applications and Biomaterials					
11:20	-	11:45	IT-39	Biosensor and sensor instrumentation – for health care delivery, a case stdy of human tongue and proposed obesity biosensor	Aithal Kodavoor
11:45	-	11:57	CT-90	Performance study of novel bragg fiber waveguide bio-sensor in presence of defect layer	Ritesh Chourasia
11:57	-	12:09	CT-91	Poly aniline/poly n methyl pyrrole co polymer for detection of volatile organic compounds	Mansi Kothari
12:09	-	12:21	CT-92	Hydrothermally synthesized wo3 and wo3-ag nanostructures with monoclinic phase for non-enzymatic glucose sensing application	Rajeswari Ponnusamy
12:21	-	12:33	CT-93	Synthesis of CdS-Bi2S3 Heteroarchitectures and its Humidity Sensing Application	Mahendra Pawar

Parallel Session 23: Synthesis and Characterization of Materials, General Materials, Non destructive inspection					
11:20	-	11:45	IT-40	Spectroscopy and devices of few layer 2D materials	Abhay Shukla
11:45	-	12:10	IT-41	Synthesis of Nanomaterials using Laser ablation in liquid solution	Pankaj M. Koinkar
12:10	-	12:22	CT-94	Functional Bi2S3 based heterostructures as a field emitter	Sambhaji S. Warule
12:22	-	12:34	CT-95	Effect of precipitation conditions on crystallization of tio2 powders	Punam Wani

Parallel Session 24: Electric, Electronic, Magnetic, Optical, Chemical, Ecomaterials and Energy Materials					
11:20	-	11:32	CT-96	Exploration of photo-physical characteristics of mixed znsno3 and zn2sno4 phases for photovoltaic application	Manikandan Marimuthu
11:32	-	11:44	CT-97	Bilayered nanocrystalline tio2- nb2o5 photoanode for dye sensitized solar cell	Niyamat Beedri
11:44	-	11:56	CT-98	Cu2znxfe1-xsns4 alloy nanocrystals: band gap engineering for the thin film solar cell applications	Yogesh Jadhav