



UGC-SAP (DRS II) Sponsored

**National Conference on HARD AND SOFT CONDENSED MATTER PHYSICS
(NCHSCMP-2017)**

2nd – 4th March 2017

Organized by Department of Physics, Tezpur University, Napaam, Tezpur- 784028, Assam

Final list of papers to be presented in NCHSCMP-2017

Category: Oral (Duration = 15 mins , Presentation =12 mins, Discussion =3 mins)

Sl. No.	Presenter's name	Affiliation	Title of papers	Mode of presentation
1.	Mitu Saha	Tripura University, Tripura	Increased efficiency of a fluorescent dye Safranin-O as a biological fluorescence probe	Oral
2.	Pawan Chetri	D.R. College, Golaghat, Assam	Structural and Optical properties of pristine and W doped MoS ₂ layers: A DFT study	Oral
3.	Runjun Sarma	NEIST, Jorhat, Assam	Formation of Metal-Protein-Semiconductor Quantum Dot Complex and Applicability as Cancer cell Probe	Oral
4.	Ajanta Deka	GIMT, Azara, Guwahati, Assam	A DFT study on equilibrium geometries, stabilities and electronic properties of Pd doped Au _n clusters (n=2-9)	Oral
5.	Rajiv Borah	Tezpur University, Assam	Effect of surface modification of MEH-PPV based electrospun nanofibers on fibroblast and pheochromocytoma derived neuronal like cell	Oral
6.	Madhumita Saha	ISI, Kolkata	Rectification at nano-scale level	Oral

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7.	Rocktotpal Baruah	Tezpur University, Assam	A study on behavioural changes of ferrofluid injected substrate based antenna	Oral
8.	Samiran Hazarika	Tezpur University, Assam	Study of structural, morphological and optoelectronic features of nanoscale gadolinium oxyfluoride ($gd_4o_3f_6$) systems	Oral
9.	Biswajit Choudhury	IASST, Guwahati, Assam	An efficient visible light active organic photocatalyst of 2d graphitic carbon nitride nanosheets	Oral
10.	Soma Chakraborty	Tezpur University, Assam	Effect of particle size on absorption effectiveness of hexa- ferrite nanoparticles at microwave ranges	Oral
11.	Bimal K. Sarma	Gauhati University, Assam	Decoration of ZnO microrods by Ag nanoparticles: effect of surface coverage on photoluminescence property and photocatalytic activity	Oral
12.	Dimpi Paul	Tezpur University, Assam	Assessment of losses by exploring the overall communication window on photonic crystal fiber in different material composites	Oral
13.	B.R.K.L Lyngdoh	NEHU, Shillong	Deflection and strain energy of a fixed-fixed carbon nanotube Using nonlocal continuum models	Oral
14.	Iftak Hussain	Tezpur University, Assam	Design and development of a smartphone based absorption sensor for in-field water quality monitoring	Oral

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15.	B. Kharkongor	NEHU, Shillong	Particles dynamics driven by the periodic forces in an asymmetric frictionally inhomogeneous system	Oral
16.	Deep Kuri	Tezpur University, Assam	Laser induced periodic structures on an overdense plasma surface	Oral
17.	Donrich Kharkongor	St. Anthony's College, Shillong	Forced thermal ratchets and stochastic resonance in an inhomogeneous underdamped periodic potential	Oral
18.	Nabadweep Chamuah	Tezpur University, Assam	Silver nano-ink decorated disposable surface enhanced raman scattering (SERS) substrate	Oral
19.	Tribeni Borthakur	J.B College, Jorhat, Assam	Effects of TPD interlayer between organic/electrode interface on the Top contact Pentacene-based organic thin film transistor	Oral
20.	Homen Lahan	Tezpur University, Assam	Graphene-MoO ₃ nanospindles as bifunctional agent for water purification	Oral
21.	Sontara Konwar Boruah	Assam Don Bosco University, Guwahati	Fabrication of non-enzymatic glucose sensor based on N,N'-Bis(2-hydroxy benzylideneamino)benzene coated gold nanoparticles	Oral
22.	Moumita Patra	ISI, Kolkata	Unconventional low field magnetic response of a diffusive with spin-orbit coupling	Oral
23.	Debabrat Kalita	Tezpur University, Assam	Efficient photocatalytic degradation of methyl orange by MoW-Sulfide compound nanoparticles	Oral

Category: Poster (Size of the poster should be limited to width: 90 cm × length: 120 cm)

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1.	Pakiza Begum	Tezpur University, Assam	Theoretical investigation on the interaction of CO ₂ with small (CeO ₂) _n , n=2-4 nanoclusters	Poster
2.	D. Saikia		Structural, Optical and Magnetic studies of Co doped ZnS diluted magnetic semiconductors	Poster
3.	Amrita Deka	Tezpur University, Assam	Luminescence response of surfactant coated MnSe nanoparticles in presence of natural media	Poster
4.	Plaban J. Sarma	Tezpur University, Assam	DFT based calculation on the catalytic activity of anionic Au-Cu dimer for the conversion of no into no ₂ in presence of molecular oxygen	Poster
5.	Bhagyalakhi Baruah	Tezpur University, Assam	Investigation of Optical and Electrical properties of Graphene Oxide and reduced Graphene Oxide	Poster
6.	Chayanika Buragohain	Kaziranga University, Jorhat, Assam	Collective excitation in 3D Yukawa system	Poster
7.	Devalina Sarmah	Tezpur University, Assam	Studies of structural and dielectric properties of IL functionalized polypyrrole	Poster

Sl. no.	Presenter's name	Affiliation	Title of paper	Mode of presentation
9.	Dhruba Jyoti Saikia	J.B. College, Jorhat, Assam	Improved performance of organic light emitting diode with vanadium pentoxide layer on fto surface for anode modification	Poster
10.	Madhabi Devi	Tezpur University, Assam	Morphological, structural and electrochemical studies of <i>in-situ</i> reduced graphene oxide - polypyrrole nanotubes nanocomposites	Poster
12.	Prathana Borah	Tezpur University, Assam	Formation of nonlinear structures in strongly coupled dusty plasma near liquid-solid transition region	Poster
13.	Saurabh J. Hazarika	Tezpur University, Assam	Investigation on the superheating aspect of embedded nanoscale mos ₂ systems subjected to energetic irradiation	Poster
14.	Swati Baruah	Kaziranga University, Jorhat, Assam	Study of phase transition in strongly coupled plasmas	Poster
15.	Arunav Phukan	Tezpur University, Assam	Dual t-slotted patch antenna performance on structurally modified dielectric and nano ferrite based magnetodielectric substrate	Poster
16.	Biplob Gogoi	Tezpur University, Assam	A qualitative aspect of mechanical properties of nanowires and nanocomposites	Poster

Sl. no.	Presenter's name	Affiliation	Title of paper	Mode of presentation
17.	Dhruba J. Gogoi	Tezpur University, Assam	Thin flexible microwave absorber from electronic waste-rubber composite material	Poster
18.	Arati Sarma	Tezpur University, Assam	Electrochemical Immunosensor based on Graphene oxide doped Poly(3,4-ethylenedioxythiophene) modified with Gold nanoparticlesto detect Aflatoxin B ₁	Poster
18.	Dipangkar Borah	Tezpur University, Assam	Metamaterial based non-metallic and flexible electromagnetic absorber	Poster
19.	Kashmiri Baruah	Tezpur University, Assam	Origin of magnetic moment in spinorbit coupled zigzag phosphorene monolayer	Poster
20.	Mahmuda Begum	Tezpur University, Assam	Effects of ion flow on transport properties of Dusty plasma	Poster
21.	Mayuri Bora	Tezpur University, Assam	Charge-density wave in low-dimensional layered nanostructures	Poster
22.	Priyanki Kalita	NIT, Meghalaya, Shillong	Unique properties of higher homologous 5O.m Schiff based liquid crystalline monomer	Poster
23.	Namita Ojah	Tezpur University, Assam	Synthesis and characterization of chitosan coated pva/silk nanofibers	Poster
24.	Swati n. Aideo	Tezpur University, Assam	Study of structural colour in Redbase Jezebel butterfly (<i>DeliasPasithoe</i>)	Poster

Sl. no.	Presenter's name	Affiliation	Title of paper	Mode of presentation
24.	Pratikshya Bezbaruah	Tezpur University, Assam	Role Of interaction mechanism on structure formation in complex plasma	Poster
25.	Rituraj Dutta	Tezpur University, Assam	Enhancement in Electrochemical Properties of Ionic Liquid incorporated MOF-CuBTC based Polymer Electrolyte Nanocomposite Irradiated with Oxygen Swift Heavy Ion	Poster
26.	Madhumita Nath	Tezpur University, Assam	A theoretical study on magnetic nanoparticle-based specific absorption rate for hyperthermic treatment	Poster
27.	Nand K. Gaur	Tezpur University, Assam	DFT study on H-abstraction from HFE-7500[n-C ₃ F ₇ CF(OC ₂ H ₅)CF(CF ₃) ₂] initiated by OH radicals	Poster
28.	Manash Jyoti Borah	Tezpur University, Assam	Nanocatalyst for production of biodiesel from non-edible oil: a review	Poster
29.	M.N. Borah	D.R. College, Golaghat, Assam	characterization of chemically deposited nanocrystalline cdse thin films from transmittance spectra	Poster
30.	Lakhi Chetia	Tezpur University, Assam	Superior photocatalytic activity of titania nano phase coated diatom frustule	Poster

Sl. no.	Presenter's name	Affiliation	Title of paper	Mode of presentation
31	Ramakrishna Madaka	IIT Guwahati	Study of Morphological Evolution in Hydrogenated Amorphous Silicon (a-Si:H) Thin Films by Atomic Force Microscopy	Poster
32	J. Hazarika	Tezpur University, Assam	Micro-Emulsion Synthesis and Study of Morphology, Structural, Optical and Thermal Properties of Polypyrrole Nanoparticles	Poster
33	Syeda Mushrif Zahan	Tezpur University, Assam	A Review on Synthesis of Graphene by Pyrolysis: Nanomaterials and Nanostructures	Poster
34	Dunasmitta Gogoi	Tezpur University, Assam	Hierarchical Structures of Nickel Ferrite	Poster

All the selected participants are requested to send the scanned copy of the duly filled registration form to nchscmp@gmail.com on or before February 18, 2017.