

## National Conference on Recent Trends in Materials Science and Technology – 2019

Poster Session	S Venue:	Students Activity Center (SAC) IIST Thiruvananthapuram
Poster Session 1	8 December 2019: 17	.05 – 19.00 Hrs
	Posters: P001 – P069	
	03(213, 1001 - 1003)	
Poster Session 2	.9 December 2019: 17	.45 – 19.15 Hrs
	Posters: P070 – P0125	

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P001	Engineered Molybednum Disulshide Nanostucture For Waste Water Treatment Applications Merin Mary Sebastian, Heera Hari, Kalarikkal Nandakumar
P002	Influence of Fuel on the Properties of Sol-gel Auto-combustion Derived Cobalt Ferrite Nanoparticles Bhadrapriya B C, Bosely Anne Bose, Nandakumar kalarikkal
P003	A Facile Fluorescent Approach for the Detection of Trinitrophenol Using WS <sub>2</sub> Quantum Dots <i>Neema P M, Jobin Cyriac</i>
P004	Treatment of High Energy Explosive Effluent by Using Photo-Catalytic Degradation Neha Bisht, Sridhar Rao, Saurabh Deshwal, P.K.Khanna
P005	Synthesis and Environmental Applications of Nanostructured Molybdenum disulfide-A Review Priyanka, Pawan K. Khanna
P006	Investigation on the Effect of Biosynthesized ZnO Nanoparticles on Oryza sativa L. in the Study of Antioxidant Defense System by Estimating the Activity of Enzymatic Antioxidants <i>Rekha C, Bhanupriya S &amp; V. Meera, Anaswara G Nath, Ashitha</i>
P007	Enhancement of the Photocatalytic Activity of TiO <sub>2</sub> by MoS <sub>2</sub> /TiO <sub>2</sub> Composite

	for the Degradation of RhB Dye Merin Tomy, Merin Mary Sebastian, Nandakumar kalarikkal
P008	A Comparative Study on Properties of Single Atom- and Heteroatom- Doped Graphene Denet Davis, Bhadrapriya B C, Bosely Anne Bose. Nandakumar Kalarikkal
P009	Green Synthetic Method of Gold Nanoparticles Sarah John
P010	Synthesis and Characterization Of A Highly Fluorescent Tripeptide Stabilized Gold Nanocluster For Bioimaging Applications Hema Santhakumar, Ramapurath. S. Jayasree
P011	Synthesis and Biomedical Applications of CuO nanoparticles- Antibacterial treatment M. Sappani Muthu
P012	Synthesis and Characterisation of Graphene oxide and its Antibacterial activity against gram positive and Gram Negative Bacterial Strains <i>Fathima Beevi.A, G.Sreekala, B. Beena</i>
P013	Green Synthesis of Silver Nanoparticle and Catalytic Degradation of Methylene Blue Surya K R, Anoop S Nair
P014	Highly Hydrophobic Nanolayers of Kaolinite for Solar Cell Coatings Sisira. M. K., Anju. P., Prasad. V. S.
P015	Polyaniline Derived Nitrogen Doped Graphene Quantum Dots for the Sensitive and Selective EC Sensing of Toxic Heavy Metal ions Saisree S., Arya Nair J. S., Aswathi R., K.Y.Sandhya
P016	Synthesis and Study of Graphene-MoS <sub>2</sub> composites: Versatility in Environmental applications <i>Arya Nair J S, Saisree S, Sandhya K Y</i>
P017	Nano-infiltration as a strategy to enhance microwave attenuation Jagadeshvaran P L, Harsha Nallabothula, Aishwarya Vijayan Menon, Suryasarathi Bose
P018	Ligand Induced Etching of Pt-Ni Mixed Clusters Ann Mary Tomy, Neema P M, Jobin Cyriac
P019	Thermal Properties And Crystallanity Studies Of Synthesized Nano Cellulose From Acacia Caesia Seena K.Thomasa, P.M.Sabura Beguma, Jyotishkumar Parameswaranpillai

P020	Controlling the Oxidation of Copper Nanostructures Adarsh S Pillai, Remya Krishnan, Sabitha Ann Jose, K. P. Surendran
P021	Effect of Precursors on The Synthesis Of Hexagonal Boron Nitride Nanostructures S. Dhanavel, R. Raja Madhavan and R. Asuvathraman
P022	Organometallic Gels of Organotin Dithiocarbamates Kandasamy Gopal, Aparna G, Eeswar Unnikrishnan, Arya Muraleedharan, Anjana Ram
P023	Synthesis of One Directional K0.5Na0.5Nb0.9Sb0.1O3 based Nano-Rod as a Pressure Sensor for Thermal Management Application Akhilesh Kumar Sharma, Himanshu Shekhar Panda
P024	Synthesis and Characterization of Carbon Nanomaterials/ Metal Nanoparticle Composite Membrane for Water Purification Varsha M V, N Gomathi
P024-A	Nonionic Surfactants With Solid And Solution State Emissions: Synthesis, Characterisation And Photophysical Property Evaluations Aditya Gohad, Athira S. Vijayan, Chithra R. Nair, KG Sreejalekshmi
P025	Sustainable Carbon-Based Functional Material for Sodium Ion Storage and CO <sub>2</sub> Capture Applications Linsha Vazhayal, Praveen Wilson, Kuttan Prabhakaran
P026	Electrochemical Determination of Hg(II) ions by N <sub>2</sub> Plasma Functionalized Reduced Graphene Oxide Anupama K N, Uthara Renjith, Chandichan Alex, Athul A S, Varsha M V, N Gomathi
P027	A Thermo Responsive Shape-Memory Polymer Nanocomposite Derived From Poly (Caprolactone) And Polystyrene-Block-Polybutadiene-Block-Polystyrene Packed With Carbon Nanofiber Sithara Gopinatha, P. Radhakrishnan Naira, Suresh Mathew
P028	Shape and Color Memory Effects and Associated Properties of PVA film by in-situ Polymerization of 2D Metal-Organic Compound Aswathy B., Praveena P., Hasna M.A, Alex P. A., Vysakh K. K., Saju Pillai, M. Padmanabhan
P029	Investigation on PVA/CS Blend Nanocomposite Electrolyte Membranes As An Ionic Separator For DMFC Applications S Selvarohini, P. Bahavan Palani, K Murugalakshmi, R Pandeeswari
P030	Facile Self-polymerisation of a Molecular Metallo-ligand by cis-trans Isomerization to 1-Dimensional Coordination Polymer for Functional Purpose Devika Harikrishnan, Anjana A., Vysakh, K. K., Alex P. A., M. Padmanabhan

P031	Hetero-bimetallic and Metal-cluster MOF Compounds for Functional Applications: Synthesis, Crystal Structure, Spectral and Magnetic Properties <i>Ardra, V. S., Ashna Sabu, Vysakh, K. K., Alex P. A., Akshay Nair, Arjun A, M.</i> <i>Padmanabhan</i>
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P035	Synthesis of Transition Metal Based MOFs for Water Remediation Sona John, Beena Mathew, Ebey P.Koshy, Cincy George
P036	Removal of Orange G From Aqueous Solution Using Ragi Husk: Batch Adsorption Studies Basil Wilson, Vinu V. Dev, Sibin Antony, V. Arun, K. Anoop Krishnan
P037	Non-destructive testing and Imaging using Holography Leya Robert, Santhi A.
P038	Natural Cotton Derived Carbon composite foam for thermal insulation Chithra. A, Praveen Wilson, Sujith Vijayan, R. Rajeev and K. Prabhakaran
P039	Synthesis of Hexahydro Acridinedione Soumya Ramalingam
P040	Embelia Ribes Extract Loaded Electrospun Marine Polysaccharide Nanofibres For Controlled Calcium Chelation Jomit T Mathew, Tomlal Jose E, Sebastian Antony, George K V
P041	Targeted Delivery of Curcumin by Protein Stabilised Gold Nanocluster for Cancer Therapy Meegle S. Mathew, Kavya Vinod, Kuruvilla Joseph
P042	Hybrid Nanoprobes for the In-Vivo Imaging of liver fibrosis Ariya Saraswathy, Shaiju S Nazeer, Nimi N, R.S.Jayasree
P043	3D metal complexes of 1,3-bis (2-pyridylimino) isoindoline as DNA intercalators Reshma G, Varada Padmanabhana, Unnimaya R. Naira, Parvathy P. B, Naveen V. Kulkarni, Parvathy Venugopal, Rajaguru Aradhya

P044	Nanohydroxyapatite Reinforced Photocrosslinked Gelma-Pegda Hydrogel Scaffold For Bone Tissue Engineering. Sreekanth Sreekumaran, Arun A Rauf, G Muraleedhara Krurp
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P046	Biosynthesis of Iron Oxide Nanoparticles Using Piper Betel Leaf Extract and Evaluation of its Antibacterial Activity Jumna Yoonus, R.Resmi, B.Beena
P047	Fabrication of Inherently Radiopaque Biocompatible Polymer For Vascular Embolization Gopika V. Gopan, K. Kezia Susan, Aleesha Vahab, Reshmi Govindan, Enakshy Rajan Jayadevan, Roy Joseph
P048	Luminescent Layered Double Hydroxide Quantum Dots Based Polymer Nanocomposites Lakshmi V., Sruthi Suresh, E. Bhoje Gowd
P049	Stereocomplex Formation between Star-Shaped Enantiomeric Poly(lactide)s from the Amorphous Blends <i>N.M. Praveena, S. Nagarajan, E. Bhoje Gowd</i>
P050	Ultra Low Dielectric Constant Aerogels of Syndiotactic Polystyrene with Nanoporous Channels ( $\varepsilon$ ) and Cavities ( $\delta$ ) Vipin G. Krishnan, Angel Mary Joseph, K.P. Surendran, E. Bhoje Gowd
P051	Dewetting of Polymer Films On Porous Substrates Rahul Sathyanath, Sreeram K. Kalpathy
P052	Phase Behavior Of Polymer Systems by CALPHAD Technique: A prospectus Rinsha Padmarajan P.V, Hari Kumar K.C, Sreeram K. Kalpathy
P053	Structural and Transport Properties Of Iota-Carrageenan /Poly (Ethylene Glycol) blend electrolyte Membrane <i>M Gurubharathi, P Bahavan Palani, K Murugalakshmi, S Selvarohini</i>
P054	Photoinduced and Substrate Wettability-driven Patterning of Azo-based Thin Polymer Films <i>Swathi Erekath. Sreeram K. Kalpathy</i>
P055	Facile Synthesis and Evaluation Of Cuo /Chitosan Nanocompsites As Biocontrol Agents. <i>R.Resmi, Jumna Yoonus, B.Beena</i>

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<b>P060</b> Polymer Surface Modification by Plasma Treatment: A Review Ananthu Prasad, Miran Mozetic, Sabu Thomas
<b>P061</b> Supertough Nanostructured Self Assembled Thermosets - Aerospace and Automobile Applications <i>Remya V R, Sabu Thomas, Oluwatobi.S.Oluwafemi</i>
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<b>P063</b> Tribological and Corrosion Behaviour of Ni-SiC-LDH Composite Coatings Aluminium Alloys Jerin K. Pancrecious, Sarah B. Ulaeto, T.P.D. Rajan, E. Bhoje Gowd
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P066Lithium-ion Pouch Cells For Space Applications Bibin John, Saju KT, Vinod V, Anoopkumar V, Sumol V Gopinath, Jamal Nawaz Ansari, Aiswarya Samridh, Satish R, Deepak Srivastawa, Arjun Raj M, Vijayakuma PS, Mercy TD
P067All Carbon Dual Ion Batteries Bibin Pattavathi, Subalakshmi Palani, M. M. Shaijumon
P068     All-Organic Potassium Ion Hybrid Capacitor

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P075	Dehydrogenation of Alcohols Catalysed by Nickel-Diphosphine Complexes Arathi R. Varma, Swathy S, Nakul S, Meenu K, Naveen V. Kulkarni, Kamlesh Kumar
P076	Effect of Annealing Temperature on Electrochemical Properties of Ni(OH) <sub>2</sub> /RGO Supercapacitor Electrode Yusuf Khana, Palash Chandra Maitya, Akanksha Uradeb, Indranil Lahiri
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P082	Synthesis, Characterizations And Electrochemical Applications Of Cuni <sub>2</sub> s <sub>4</sub> /Graphene Oxide Hybrid <i>Liya Katharine Shaji, Kala M.S., Anju K Nair, Sruthy Xavier</i>
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