

Poster Presentation Schedule

Date	Themes	Poster IDs
24/07/2025 04.30 pm to 06.30 pm	1. Nano and Structural Materials for Sustainable Developments; 2. Materials for Energy Conversion and Storage; 3. Semiconductor Devices and Display Materials; 4. Electroceramic, Smart and High Temperature Materials and Applications	PP-01 to PP-73
25/07/2025 04.30 pm to 06.30 pm	5. Biomaterials, Bioengineering and Food Technology; 6. Computational Techniques	PP-74 to PP-142

Poster Presentations	
1. Nano and Structural Materials for Sustainable Developments	
PP-01	Thermal Evolution of ZnO and Fe₂O₃ Nanoparticles: Structural, Morphological and Optical Characterization <i>P. M. Swetha, Sudheeendran Kooriyattil</i>
PP-02	Mill it from Red to Black: Story of an Elemental Phosphorus Phase Transition and its Photogenerated ROS <i>Sangeetha S, Feba Susan Thomas, Darbha V Ravi Kumar</i>
PP-03	Switch on Ultrasound and Light: A Carbon Nitride Catalyst for the Piezophotocatalytic Degradation of Antibiotics <i>Anjali Vinay, P Haripriya, Darbha V. Ravi Kumar</i>
PP-04	Development and Evaluation of Naringin-Encapsulated Solid Lipid Nanoparticles for Targeted Breast Cancer Therapy: In Vitro and Computational Studies <i>Sundar Rajan R, Santha Sheela NB, Dhanalakshmi N</i>
PP-05	Novel Oil-Based Reduced Graphene Oxide (rGO) Ink Films preparation using Spin Coating technique for Photocatalytic application. <i>Vijayalakshmi S, N. Pradeep, CG Renuka</i>
PP-06	ZnCo₂O₄ Nanopowder for Heavy Metal Ion Detection through Electrochemical Route <i>Harshitha B and P. N. Anantharamaiah</i>
PP-07	Synthesis of Spinel Structured Cobalt Oxide Nanoparticles for Electrochemical Properties <i>Sachin B and P. N. Anantharamaiah*</i>
PP-08	Enhancing Wastewater Purification: Biochar as a Sustainable Solution for Chromium Adsorption <i>Rucha Godase, Balasubramanian Kandasubramanian, Neelaambhigai Mayilswamy</i>
PP-09	Scalable Fabrication of Nanoporous Antireflective Glass Surfaces for Enhanced Light Transmission in Solar Energy Applications <i>Aradhana Rao, Arvind Kumar, Shivanand Madolappa, B.S. Ravikumar</i>
PP-10	Synergistic Improvement in Thermal Conductivity of Silicone Rubber with A Multi-Dimensional Polydopamine-Coated Multi-Walled Carbon Nanotubes Threaded Silver Nanoflower Networks <i>Madhushree Hegde, Akshatha Chandrashekar, Elizebeth Sleeba, Pramod Hegde, Jineesh Ayippadath Gopi, T Niranjana Prabhu</i>
PP-11	Synergetic Effect of AuNPs Concentration on the Optical and Structural Properties of Sm³⁺-Ion-Doped Lanthanum Borotellurite Glass Host <i>B.N. Swetha, M.K. Kokila, Arpita Paul Chowdhury</i>
PP-12	Impact of Hexane Vapor-Assisted PyC Interface Coating in C_f/SiC Composites: A Process Comparison between PIP and HP+PIP Routes <i>Siddharth Shankar Sahu, Muruges M C, M. Stalin</i>
PP-13	Colorimetric Sensing of Iron Ions by Green Synthesised Nickel Nanoparticles

	<u>Angitha S</u> , Vaishnavi S, K Kamakshi, K C Sekhar
PP-14	Recycling of Modeling Wax and Evaluation of its Hardness. A Step Towards Eco-friendly Dentistry. <i>Vaishali K, Karishma Jagadeesh, Madhu G.M, Prashanth G, Fawaz Ayub, Kabilesh Navalan, Manisha Naik, Sonal Tulsyan, Sakshi Shanker</i>
PP-15	Synergistic Effect of Ni and Ce Doping in CuO Nanoparticles for Enhanced Photocatalytic Dye Degradation <i>Supriya K, Lasubon S, Vaishnavi M D and Priyanka K P</i>
PP-16	Investigation of the Effect of Surface Morphology and Crystallinity of WO₃ Thin Films on Gas Sensing Performance. <i>Santosh Kumar, Akula Umamaheswara Rao, Madhuri Surya, Amit Kumar Chawla, Ratnesh K Pandey</i>
PP-17	Enhanced CO Gas Sensing via Synergistic Effects in g-C₃N₄/ Co₃O₄ Heterojunction Nanocomposite <i>Akeel Gul Kaboo, P.N. Anantharamaiah, Shivanand Madolappa, B.S. Ravikumar</i>
PP-18	Ballistic Resistance of Shear Thickening Fluid Reinforced Composite Fabrics <i>Yash Patil, Sanya Haswani, Kritika Chaudhary, Balasubramanian Kandasubramanian, Kshitija Vaidya</i>
PP-19	Evaluation of Flow of Recycled Modeling Wax - A Step Towards Eco-friendly Dentistry <i>Sonal Tulsyan, Vaishali K, Karishma Jagadeesh</i>
PP-20	Synthesis of Nanocrystalline Manganese Oxide via Plasma-Driven Hydrodynamic Cavitation <i>R.S Bharath, A.S Deepak and Vikas M. Shelar</i>
PP-21	Nano-Odontics: Redefining Dentistry Through Nanotechnology <i>Sri Raksha, Kranti.K, Ashwini.S</i>
PP-22	Kinetics, Isotherm and Thermodynamics study of Homocysteine Functionalized Magnetic Nanoparticles from the Scapes of Allium sativum L. for Mercury Remediation <i>Pooja Gour, Jyotsna kumar</i>
PP-23	Hydrogen-Induced Sensing Response in Pd-Capped TiZrV Alloy Thin Films <i>Madhuri Surya, Amit Kumar Chawla, Devesh Kumar Avasthi</i>
PP-24	Flower Extract-Reinforce ZnO Nanoparticles for Sustainable and Enhanced UV Protection <i>Akshay Ruhidas, Vivek Chandel, Kajol Taiwade, Madhulika Meena and Fozia Z. Haque</i>
PP-25	Effect of Doping of Thallium on the Structural and Optical Properties of Green Synthesised Cerium Oxide Nanoparticles <i>Vivek Chandel, Kajol Taiwade, Jyoti Rani, and Fozia Z. Haque</i>
PP-26	1.5 µm Luminescence in Erbium-Doped Boro-Germanate Glasses for Optical Fiber Amplifiers and Telecommunication Applications <i>Rudraprasad H.V., R. Rajaramakrishna, A. Madhu, Sudha D Kamath, Sarbari Bhattacharya</i>

PP-27	Development of Gastro Buoyant Low-Density Foam-Based Formulation of Tramadol Hydrochloride <i>Shreya Banerjee, B. V. Basavaraj, Nikitha S</i>
PP-28	Functional Carbon Nanospheres from Biomass for Membrane Filtration <i>B G Maya Patel, Sk Safikul Islam, Samir Mandal, Suryasarathi Bose, Gurumurthy Hegde</i>
PP-29	Sustainable Orange Peel Biowaste-Derived Carbon Foams as Dual-Functional Materials for Electromagnetic Interference Shielding and Thermal Insulation <i>Mohammed Rahees, Raji S, K. Prabhakaran</i>
PP-30	Investigating the Impact of Clamping on Axial Force in Delivery Valve Holders of Diesel Inline Fuel Injection Pumps <i>Nagesh Rao N, P. M. G. Bashir Asdaque, Viswanathan R, Vinayak B Hemadri</i>
PP-31	Optical and Photocatalytic Properties of Carbon Dots Produced via Eco-Friendly Green Synthesis <i>M D Vaishnavi, Lasubon S, Supriya K and Priyanka K P</i>
2. Materials for Energy Conversion and Storage	
PP-32	Effect of Slurry Mixing Techniques on LMO Cathodes: A Pathway to Enhanced Efficiency in Lithium-Ion Batteries for Scalable Applications <i>P. Vipin Kumar, Anagha P. Vincent, B. S. Nishchith, Ravikumar T, S. G. Bubbly, S. B. Gudennavar</i>
PP-33	High-Performance Zn₂GeO₄/VS₂ Composite Electrode for Li-Ion Batteries with Enhanced Stability and Capacity Retention <i>Anusha B R, Appu S, Udayabhanu, Alexis Maurel, Prashantha K</i>
PP-34	Electrochemical Impedance Spectroscopy for Li-ion Battery Diagnosis <i>Monika MN, Ravikumar T</i>
PP-35	Diode Laser Induced CoFe-PBA Electrocatalyst for Efficient Oxygen Evolution Reaction <i>Sundarraj Sriram, Abdul Junaid, Haritha, and K. Sudhakara Prasad</i>
PP-36	Synthesis and Study of Carbon-Based Nanomaterials as Efficient Electrocatalyst for Hydrogen Evolution Reaction <i>Rwishitosh Ghosh, Ashwini Anshu, Balaram Sahoo</i>
PP-37	Effect of Varying Synthesis Temperature and Precursor Concentration on the Electrochemical Behaviour of N-Doped RGO <i>Gomathi Sri Pavithra S, Vadithya Sunitha, Sarvesh Kumar, Balaram Sahoo</i>
PP-38	Chlorine or Oxygen Free Direct Sea Water Electrolysis Driven by PGM Free Carbon <i>Rakesh Gowdihalli Nagaraj Radha Shivaramaih Ravi Kumar T</i>
PP-39	An Experimental Study to Simulate Vehicle Charge Air Cooler Delta Temperature on Engine Dynamometer to Optimize Air Fuel Ratio and minimize Air Pulsation Deviation During Final Vehicle Calibration <i>Rajendra Kumar Jagadeesh, Viswanathan Rajan, P M G Bashir Asdaque, V.B. Hemadri</i>

PP-40	Stability and SEI layer, Characteristics of Urchin-Shaped NiCo₂O₄/SnS₂ Nanocomposite as an Anode for Lithium-Ion Batteries <i>Appu S, Anusha B R, Udayabhanu, Muhiuddin M, Rahman M R, Prashantha K</i>
PP-41	Computational Study of Single Atom Transition Metals on MXene and Ligand Effect as an Efficient Electrocatalysts for Hydrogen Evolution Reaction <i>Hemavathi. N.J and Suman Kalyan Sahoo</i>
PP-42	Cysteine-Assisted Hydrothermal Synthesis of Mn(OH)₂ Electrode Materials on Nickel Foam for High-Performance Supercapacitors <i>Venkatesha N, Chandu V. V. Muralee Gopi, Supreetha S, Mohammad Y. Al-Haik, Saleh T. Mahmoud, Bashar Issaaf, Yousef Haikhi, Ihab M. Obaidat</i>
PP-43	Synthesis of Cobalt-encapsulated Graphitic Carbon Layers Derived through Syzygium Cumini Dry Leaves for Water Splitting Applications <i>Ansil M and P. N. Anantharamaiah</i>
PP-44	N-doped Graphitic Layer Encapsulated AuCo Nanoparticles as Core – Shell Structured Catalyst for Supercapacitor Cum Zn-Air Batteries <i>Ashwini Anshu, Sarvesh Kumar, Balaram Sahoo</i>
PP-45	Optimizing Bandgap and Electrochemical Characteristics of Sb₂O₃ Nanostructures for Dual Photocatalytic–Supercapacitor Applications <i>Shivamurthy, Mohammed Salman K, C.G Renuka, N. Pradeep</i>
PP-46	Enhancing Barrier and Mechanical Properties of PET-Based Laminates via Surface Activation and Printed Anodized Aluminum Layers <i>Atul Kumar Verma, Balasubramanian Kandasubramanian, Kshitija Vaidya</i>
PP-47	Strategic Design and Facile Synthesis of Nickel Phenylphosphonate Micro flower Nanostructures for Next-Generation Energy Storage Devices <i>Dileep Thotakuri, Sivaprakasam Radhakrishnan, Rokkala Divya</i>
PP-48	Influence of Ytterbium on Physical, Structural and Optical Properties of Lithium Aluminum Borate Glasses for Energy Storage Device Applications <i>Nagaraju J and Eraiah B</i>
PP-49	Global Impact & Outlook of Lithium in Energy Applications: Current Trends and Future Challenges towards sustainable Environment <i>Shashank P, Murali Krishna Panchangam, Nagaraju Kottam</i>
PP-50	Co, Cu, La, Ni, Mg-based High-Entropy MOF Incorporated 2D Ti₃C₂T_x MXene for Supercapacitor Application <i>Poornima A L, Nikhil Prabhakar, Pramoda K, Rangappa Keri</i>
PP-51	NiCo₂S₄ as High-performance Electrode Material for Next-Generation Supercapacitors <i>Dhanyashree K R, Usharani S R, Chandra Prabha M N, R Hari Krishna</i>
PP-52	Highly Active Amorphous Cobalt Decorated ZIF-67 for Enhanced Water-Splitting Reactions <i>P.A.Junaid, S.Sriram, K giddaerappa, K. Sudhakara Prasad</i>
PP-53	Biomass Derived Carbon Supported Electrocatalyst for Alkaline Water Splitting <i>B Sirichandana, R Silviya, Nainesh Patel, Gurumurthy Hegde</i>

PP-54	Boron doped Nickel Iron Layered Double Hydroxide Electrocatalysts for Alkaline Oxygen Evolution Reaction <i>Manashri Patil, Shravani Sharma, Narasimman Rajaram</i>
PP-55	Bifunctional Electrochemical Approach with In-Situ Engineered Mixed Metal Oxides Grafted on Activated Carbon Cloth for the Sustainable Reduction of Carbon Dioxide & Hydrogen Evolution Reaction <i>Rohan Magadum, Akshay Gandigawad, Arvind H. Jadhav</i>
PP-56	Synthesis, Characterization and Electrochemical Properties Of V-Substituted Spinel Type Cobalt Oxide Synthesized Via Glycine-Nitrate Combustion Method <i>Rahul Krishna and P N Anantharamaiah</i>
3. Semiconductor Devices and Display Materials	
PP-57	Green Synthesis of Eu Doped Ytria Stabilized Zirconia, Characterization and its Applications as Photocatalyst and Antibacterial Activities <i>H. Gujjaramma, B.S. Krishna</i>
PP-58	Pyridine-Bridged Molecular Flexibility: Unlocking New Insights into FWHM and ΔE_{ST} <i>Svadha Devi, P. Rajamalli</i>
PP-59	Unlocking the Potential of Orange-Red Emission from Engineered Y_2WO_6 Nano phosphors with Sm^{3+} Integration for Solid-State Lighting Applications <i>Akshay Arjun, H.B. Premkumar, H. Nagabhushana, G.P. Darshan</i>
PP-60	Structural and Optical Properties of Ho^{3+}-Doped Aluminate Phosphors for Green LEDs Applications <i>Tejas, A. Princy, S Masilla Moses Kennedy, Sudha D Kamath</i>
PP-61	Magnetically Recoverable and Reusable $BiOCl/YIG$ Nanocomposite for High-Efficiency Rhodamine B Photodegradation <i>Naveed Rahman, Yathish R, P. N. Anantharamaiah, N. Manikanda Prabu</i>
PP-62	Europium-Activated $Ag_2O-Na_2O-TeO_2-B_2O_3$ Glasses: Enhanced Orange-Red Luminescence for Optical Device Applications <i>S.K. Amrutha, K. Keshavamurthy, B.N. Swetha</i>
PP-63	Improving Efficiency and Delayed Lifetime in Thermally Activated Delayed Fluorescence Emitters for OLEDs <i>Shana Shirin M A, Nisha Yadav, P. Rajamalli</i>
PP-64	Optical and Structural Properties of TiO_2 doped Sodium Borate Glasses <i>B.Pruthviraja, B.Eraiah</i>
PP-65	Effect of Glycerol Doping on the Charge Transport Properties of PEDOT:PSS Thin Films <i>Varalakshmi B N, Sarojani Kommoju, M. Raveendra Kiran, Hidayath Ulla</i>
PP-6	Nanoporous Anodic Alumina-Zinc Ferrite Heterojunction Architectures for Enhanced Visible-Light-Driven Photocatalytic Hydrogen Production <i>Suraj Sunil Joshi, Suresh D Kulkarni, and K S Choudhari</i>
4. Electroceramic, Smart and High Temperature Materials and Applications	

PP-67	Investigation of Electric Modulus and AC Conduction Mechanism of Dy-Doped Bismuth Sodium Titanate <i>Niket Naik, Chandana C, Shivanand Madolappa</i>
PP-68	Low-Temperature synthesis and Structural Analysis of $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ Ferrite via Solid State Reaction Route <i>Bharath.C, Basavaraj Angadi, Nagaraja.T, Shidaling Matteppanavar</i>
PP-69	Radiation Shielding Potential of Er^{3+}- Doped BiCl_3 in Lithium Phosphate Glasses: A Charge-Less Interaction Study for Nuclear SMRs <i>Shwedha Priya D., Manjunatha, M. M. Hosamani, K. J. Mallikarjunaiah</i>
PP-70	Multiferroic behavior of $\text{BiFeO}_3\text{-PbTiO}_3\text{-DyFeO}_3$ Ferroelectric System <i>Ram Prakash Singha, Sujoy Sahab and Rajeev Ranjan</i>
PP-71	Energy Storage Materials and Their Applications in Sensors and Actuators <i>Mr. Jishor E.K and Dr. Sujoy Saha</i>
PP-72	Reactive hot pressing of Ultra High-Temperature Ceramics (UHTCs) <i>Sharika U Shankar, L Rangaraj, Mahesh M, Srihari S</i>
PP-73	Cu-substituted Barium Hexaferrite Nanoceramics: Magnetic and Catalytic Properties <i>R.V. Vaishali and P. N. Anantharamaiah</i>
5. Biomaterials, Bioengineering and Food Technology	
PP-74	Removal of Methylene Blue Dye from Aqueous Solution using Acetyl Functionalized Hamil Grass Nanocellulose <i>Jyothy G Vijayan and T. Niranjana Prabhu</i>
PP-75	Characterization of Mechanical and Physical Properties in Biodegradable Paper Materials <i>Pooja M. E, Madhusudhan Nayak C, Hanumantharaju K N, Anusha M B, Chennappa Gurikar and Lokesh A.C</i>
PP-76	Tumor-on-a-Chip Models: Advances in Bioengineered Platforms for Cancer Research and Drug Testing <i>Avani Ghodke, Aliza Irfan and Debasish Kar</i>
PP-77	Comparative Evaluation of Soft and Hard Tissue Healing and Implant Stability of Hydrophilic Vs Conventional Titanium Dental Implants – A Randomized Clinical Trial <i>Dr. Swaroop Varghese M, Dr. Prabhuji MLV, Dr. Suhana Shamsuddeen</i>
PP-78	“Targeted Periodontal Therapy”- Convolvulus pluricaulis hydrogel for Chronic Periodontitis in Diabetic Patients: A Randomized Clinical Trail <i>Soumya N Sajjan, Greeshma Chandrashekar, Ashwini Shivananje Gowda, Rajamanickam Deveswaran, Mahantesha S, M K Akhila, Suyash Gupta</i>
PP-79	Functional Analysis of Lyophilized Human Breast Milk Used as a Biomaterial for Regeneration: In-silico Characterization <i>Rutuja Biradar, Ashmitha Kishan Shetty, Anbu Jayaraman, Deveswaran Rajamanickam</i>
PP-80	Detection of Explosive Picric Acid via ESIPT Inhibition employing Experimental and Theoretical Insights

	<i>Pavithra S, Keshav Semwal, Vishnu S and Avijit Kumar Das</i>
PP-81	Synthesis and Characterization of N-Chloroacetyl-4-Aminobenzophenone Derivatives as Potential Antimicrobial and Antifungal Agents <i>Rakshith V Bharadwaj, Pavitra P Munavalli, and Jyotsna Kumar</i>
PP-82	Biopolymer and Biodegradable Materials from Cellulose <i>Raksha K. S and Sanjana V and Debasish Kar</i>
PP-83	Valorization of Fruit and Vegetable Peels for Bioactive Compounds and their Incorporation into Pearl Millet Functional Bar <i>Namrata L. Patil, Rajeshwari S K., Vijayalaxmi K., Archana G. Lamdande, S.R. Garud</i>
PP-84	Evaluation of 2% Bromelain gel with 0.2% Chlorhexidine gel as Subgingival Local Drug Delivery following Scaling and Root Planing in Stage II / III and Grade B Periodontitis - Randomized Control Clinical Trail <i>Vamsi Venkata Krishna Sai, Rudrakshi.c, Prabhuji MLV</i>
PP-85	Antibacterial activity of N, O and S-containing heterocyclic compounds <i>Rhushikesh C. Deokar, Saikat Sinha, Ramesh B. Dateer</i>
PP-86	Assessment of Anti- Fungal and Anti- Inflammatory properties of Cynadon dactylon as an Intracanal Medicament: An In-vitro study <i>Kulkarni Radhika Ashok, Desai Simran Prakash, Aishwarya Arun Koparde, Shwetha G, Deveswaran Rajamanickam</i>
PP-87	The effect of herbal serum on the management of gingivitis adjunctive to non-surgical therapy. A randomised controlled clinical trial. <i>Dr. Megna KM, Dr Rashmi Paramashivaiah, Dr M L V Prabhuji, Dr. Akash R Prasad</i>
PP-88	DNA Binding and Biological Activity of Synthesized Schiff Base Metal Complexes <i>Shashank R Srivatsa, Vishnuvardhan T.K, Murali Krishna P, Prashanth Rakaraddi</i>
PP-89	Analysis of antibacterial activity and cytotoxicity of Ormocarpum sennoides herbal leaf extract: An In Vitro Study. <i>Tallam Muralikrishna, Vinaya Rudresh, Aysha Jebin, Prabhuji MLV</i>
PP-90	A Comparative Analysis of Neem Oil Density and Viscosity Using Microwave-Assisted Extraction and Supercritical Fluid Extraction <i>Mouresh. M, Christy Ramola. E, Yaduraj K P, Rohith. M, Nivetha. K, Swetha. M, Rakesh.B, Dhanush Velnithi.M, Jesu Jayarin. P</i>
PP-91	Enhanced Extracellular Matrix Protein Expression on Xyloglucan-PRP Fibrous Scaffold against H₂O₂–Induced Damage in Human Dermal Fibroblasts <i>Shanmathy Somasundaram and Hanumantha Rao Balaji Raghavendran</i>
PP-92	Nickel Ion Release from Orthodontic Brackets in the Presence of Three Different Mouthwashes- A Comparative In-vitro Study <i>Shreepriya J V, Nirajita Bhaduri, Aparna, Khushi, Paul Mampilly</i>
PP-93	Electrical Characterization of Gum Rosin Thin Films <i>Sameena Sulthana, Sharath. P, Varalakshmi B N, Hidayath Ulla, M. Raveendra Kiran</i>
PP-94	Effect of the Antimicrobial Peptide GL13K on Dental Implant Surfaces: A Review <i>Shailja Dutta, Prabhuji M.L.V, Suhana Shamsuddeen</i>

PP-95	A Dual Therapy of Nanostructured Lipid Carrier Loaded with Teriflunomide—A Dihydro-Orotate Dehydrogenase Inhibitor and an miR- 155-Antagomir in Cuprizone-Induced C57BL/6J Mouse <i>Anushree P, Trideva Sastri Koduru, Vishal N. Gupta, Balamuralidhara Veeranna, Shanmuganathan Seetharaman</i>
PP-96	Application of Ultrasonication in Edible Paper Production for Eco-Conscious Packaging <i>Chaitradeepa G M, Hanumantharaju KN, Chennappa Gurikar, Lokesh AC, Anusha M B</i>
PP-97	Bilayer Mucoadhesive Buccal Films of Amla for Treatment of Aphthous Stomatitis <i>Syeda Mohsina Batul, Vinay Prasad, Yogesh Tambad, Saikat Paul, Vandana, Abhay Suresh and Sindhu Abraham</i>
PP-98	Development of a Polymer-Based Sensor on 3D Architectures: From Legacy Neural Materials to Adaptive Interfaces <i>Dr. Shabari Girishan, Prof. Haridk Pandya, and Prof. Hari Thotta</i>
PP-99	Biomimetic Strategies for Periodontal Ligament Fiber Regeneration Using Nanofibers and 4D Smart Scaffolds <i>Eman Safi, Ashwini.S</i>
PP-100	Transforming Silver Diamine Fluoride: The Role of Rare Earth Elements in Combating Staining – an in-vitro study <i>Dr. Aishwarya Arun Koparde, Dr. Lalitha S Jairam, Dr. Akshay Arjun, Likhith Balse, Dr. Premkumar HB</i>
PP-101	Antibiofilm Activity of Mo-CeO₂ Nanoparticles: A Sustainable Strategy to Combat Microbiologically Influenced Corrosion <i>Bhargavi Vadappi, M. N. Chandrababha, R. Hari Krishna, Usharani S R</i>
PP-102	Tiny tech, Big Impact: Advances in Nanobots and Microbots for Therapeutic Delivery <i>Abhinav S, Gaurisha Tripathi, Ruthika Gowri K & Debasish Kar</i>
PP-103	Decanoic Acid-Orchestrated by One-Pot Synthesis of Unsymmetrical Bis(indolyl)methanes by Carbonyl Reagents: An Efficient Strategy for Accessing Biologically Relevant Molecules <i>Ravi Kumar Merneedi, Megha Balha and Mamata Singh</i>
PP-104	Sustainable Valorization of Turmeric Waste: Essential Oil Extraction and Encapsulation Using Various Carrier Materials <i>Vijayalaxmi K., Mauli V.Khating., Shyam R. Garud, Archana G. Lamdande</i>
PP-105	Design and Development of a Portable Device for Rapid Decalcification of Oral Hard Tissue Specimens <i>S.V. Sowmya, Dominic Augustine, Upasana Das, Vijayalakshmi B.V, Syeda Taniya Firoz, Vikas B, T. Niranjana Prabhu, Akshata Chandrashekar, Madhushree Hegde</i>
PP-106	Application of Cold Plasma and Hurdle Technology for Improving the Shelf-life of Paneer <i>Vipin J, Adityasukumar Pasagadi, F Magdaline E E and Heartwin A. Pushpadass</i>
PP-107	Zero Liquid Discharge – Scope for Future Application in Food Industry <i>Aprna Sharma and Ashwini Mugale</i>

PP-108	Studies on Magnetic Field Extraction of Molecular Iodine in Aqueous Media: A Water Disinfectant Solution for Human Space Flight Programme <i>Jayalatha T., R. Radhika , Rekha Krishnan G , Deepthi L Sivadas , Appala Raju, Deepa Devapal</i>
PP-109	Superhydrophillic Hierarchical Porous Carbon from Freeze-Dried Biowaste: A Potential Adsorbent for CO₂ <i>Rekha Krishnan G, T. Jayalatha, R. Radhika, Deepthi L Sivadas, K. Deepa Devapal, K. Prabhakaran</i>
PP-110	Investigation of AC Electrical Properties in Xanthan Gum Thin Films <i>Sharath. P, Varalakshmi B N, Sameena Sulthana, Hidayath Ulla, M. Raveendra Kiran</i>
PP-111	Hydrogel Horizons: Utilizing Papaya Seeds for Gingival Healing <i>Harsh Agarwal , Gourabjit Singha</i>
PP-112	Development of a Sol-Gel Based Glaze for Dental Restorations. <i>Saneyai Jha , Sivaranjani Gali</i>
PP-113	Formulation and Evaluation of a Carica Papaya Seed-Based Mucoadhesive Hydrogel for The Management of Refractive Gingival and Other Intraoral Inflammation <i>Harshita K, Dr. Greeshma C, Harshita Harlalka, Harsh Agarwal, Mridula G, Gourabjit Singha, Shweta</i>
PP-114	Atmospheric Cold Plasma as a Non-Thermal Intervention for Enhancing the Shelf-Life of Whey <i>Adityasukumar Pasagadi, F Magdaline E E, Heartwin A. Pushpadass and M S Roopesh</i>
PP-115	<i>Stress Distribution in Bone-Level and Tissue-Level Implants with Angulated Abutments under Various Occlusal Load Directions – Finite Element Analysis</i> <i>Dr. Aditya R Mohan, Dr. Suma S, Dr. Vibha Shetty</i>
PP-116	Nutritional Composition and Sensorial Analysis of Amaranth Seed-Based Food Products <i>Reedhika Puliani, Bhavana S</i>
PP-117	Bridging Biomaterials and Periodontal Therapy: Formulation and Evaluation of Minocycline-Loaded Wafers for Local Drug Delivery <i>Sanjana Hemashree, Greeshma Chandrashekar, Lavanya Ramamurthy, Sharon Furtado, Ashwini S, Mahantesha S</i>
PP-118	Microencapsulation of <i>Lactiplantibacillus plantarum</i> (Lp91) in Biopolymeric Hydrogel Beads <i>Shruthi P.A., F. Magdaline Eljeeva Emerald, Heartwin A. Pushpadass and Rashmi H.M</i>
PP-119	Enhancing Sorghum Drought Tolerance: Comparative Efficacy of Bio-Priming with Endophyte Strains and Bioagents <i>Poornima Koradhanyamath, Basave Gowda, Doddagoudar S. R., Shakuntala N. M., Arunkumar Hosamani, Savitha A. S. Satyanarayan Rao</i>
6. Computational Techniques	
PP-120	Single Atom Decorated Ti₃C₂O₂ Monolayer (MXene) for Hydrogen Evolution Reaction (HER): A DFT Study <i>Shravya, Hemavathi N J, and Suman Kalyan Sahoo</i>

PP-121	Unveiling the Potential of Lithium Hexafluorophosphate (LiPF₆) as a Solid-Electrolyte Material: A First-Principles Perspective on Structural, Electronic and Thermal Properties <u>Arjun Suvilal, Anjaly Baiju Krishna, Diya Jayakrishnan, Krishnendhu, Malavika, Rakesh Vamadevan</u>
PP-122	Industrial Robot with Dual Vision Systems for High-Precision Liquid Metal Placement in PCB Manufacturing <u>A Micheal Raj, Viswanathan Rajan, P M G Bashir Asdaque</u>
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