

**POSTER PRESENTATION
MONDAY 10TH SEPTEMBER 2018**

- PI-001 Synthesis and Electrochemical Characterization of Core-Shell Hollow Sulfur Particles as Li-S Battery Cathode Materials
Sukeun Yoon (Korea)
- PI-002 Hydrogen Production Via Methane Reforming in Steam Plasma at Atmospheric Pressure
Daehyun Choi (Korea)
- PI-003 Development of Small-Scale Educational Experiments in Chemical Engineering for Undergraduate Students
Lisa Ichinose (Japan)
- PI-004 Design of Multichannel-Sample Instrument for Testing of Oxidation Stability of Fatty Acid Methyl Ester (Biodiesel)
Wachiraporn Pisitaro (Thailand)
- PI-005 Adsorption of Nickel (II) Ions Using 8-Hydroxyquinoline Immobilized on Fish Scales of *Barbonymus Gonionotus*
Nisakorn Thongkon (Thailand)
- PI-006 Enzyme Kinetic Analysis in Formate Reduction to Formaldehyde Using Aldehyde Dehydrogenase by One-Election Reduced Methylviologen
Tomoya Ishibashi (Japan)
- PI-007 Interaction Between Diphenylviologen Derivative and Malic Enzyme for Carbon-Carbon Bond Formation from CO₂ as a Feedstock
Takayuki Katagiri (Japan)
- PI-008 Single Process for CO₂ Capture and Sequestration Into CaCO₃ Using Chemical Regeneration
MinHye Youn (Korea)

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- PI-009 Biodiesel Production of Wasted Cooking Oil by Using Calcium Oxide Doped with Strontium Ion (Sr^{2+} -CaO) as a Catalyst
Apisit Prokaew (Thailand)
- PI-010 A New Zinc (II) Coordination Polymer Based on 5-Nitroisophthalate; Synthesis, Crystal Structure and Selective Fluorescence Sensing of Acetone
Sukanya Mingphimai (Thailand)
- PI-011 Optimization of Biodiesel Production from Palm Oil Obtained from Decanter Cake of Small Crude Palm Oil Mill Using Response Surface Methodology
Shewa Ahmadi Pirshahid (Thailand)
- PI-012 The EPR Spectroscopy and Electrochemical Study of Silver(II) Porphyrin Complexes
Tossapon Phromsatit (Thailand)
- PI-013 Leaves of Rosa Species - Green Synthesis of Silver Nanoparticles and Their Antioxidant and Antimicrobial Properties
Autthavit Nuchthanom (Thailand)
- PI-014 Toxicological Effects of 24 L-Phenylalanine Derived Ionic Liquids against Marine and Clinically Relevant Bacteria
Dewi Kurnianingsih Arum Kusumahastuti (Estonia)
- PI-015 The New Aldehyde Deformylating Oxygenase from Pseudomonas Plecoglossicida for Renewable Energy
Supacha Buttranon (Thailand)
- PI-016 Effect of Coligands Arrangements on Adsorption Properties of Phosphonate Metal Organic Frameworks
Aurelia Visa (Romania)

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- PI-017 Adsorption of Metal Ions From Waste Waters by Conventional and Unconventional Metal Organic Frameworks Based on Phosphonates
Bianca Maranescu (Romania)
- PI-018 Leaves of Rosa Species Green synthesis of Silver Nanoparticles and their Antioxidant and Antimicrobial Properties
Autthavit Nuchthanom (Thailand)
- PI-019 Process of Allicin Extraction with Pulsed Electric
Petch Nakasiri (Thailand)
- PI-020 Application of Glyceline Deep Eutectic Solvent and CO₂ as Working Fluid in Absorption Chiller
Laetitia Cesari (France)
- PI-021 Removal of Phosphate Ion by Ferric Ions Adsorbed on Cation Exchange Resin
Onchanok Juntarasakul (Thailand)
- PI-022 Assessment of Irrigated and Rain-Fed Rice Field on Stable Carbon Isotope in Soil
Wutthikrai Kulsawat (Thailand)
- PI-023 Isotopic and Chemical Fingerprint of Groundwater and Surface Water Interactions in Kamphang-Phet, Thailand
Boonsom Porntepkasemsan (Thailand)
- PI-024 Rapid Methane Hydrate Formation with Hollow Silica and Activated Carbon
Pramoch Rangsunvigit (Thailand)
- PI-033 Novel Multi-Dimensional Nanocarbons and their Applications in Electrochemical Energy Storage
JoonHo Bae (Korea)

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- PI-035 Synthesis, Structural Characterization and Alcohol Sensor Application of Cobalt(II) β -Diketonate Complexes Containing 2-Aminopyrimidine and Imidazole Ligands
Pornsan Lueangseephet (Thailand)
- PI-036 Green Extraction of Flavonoids from Passiflora Waste
Danielle Silva Francischini (Brazil)
- PI-037 TiN–SBA-15 Mesoporous Materials for CO₂ Dry Reforming Enhancement
Sukkaneste Tungasmita (Thailand)
- PI-045 Synthesis and Properties of Biodegradable Polyurethanes using Polycaprolactone Diol and Lysine Triisocyanate
Yosuke Awagakubo (Japan)
- PI-046 Synthesis of Novel Degradable Polyurethane from Plant-based Curcumin
Takuma Otani (Japan)
- PI-047 Crosslinking Reaction and Biodegradability of Urethane Acrylate with Natural Rubber
Hiroto Matsuno (Japan)

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- PII-001 Catalyst-Free Cascade C-H-Functionalization In Water By Using Molecular Oxygen: A Multi-Component Green Approach To 1,3-Oxazines
Paran Jyoti Borpatra (India)
- PII-002 Fe₂O₃ loaded on ZrO₂ as an Efficient Reusable Catalyst for the Facile, Green, One-Pot Synthesis of Novel Functionalized 1,4-Dihydropyridine Derivatives.
Venkata Hanumath Sai Sandeep Bhaskaruni (South Africa)
- PII-003 A Reusable Bifunctional Catalyst for Glycolysis of Polyethylene Terephthalate
Yasamin Bide (Iran)
- PII-004 Solvent-Free Microwave Accelerated Synthesis of Phthalide-Fused Indolines
Sheryn Shue Ling Wong (Malaysia)
- PII-005 Light Induced Barton Free-Radical Reaction to Synthesize Rhinacanthin Analogues
Chaiyawat Aonsri (Thailand)
- PII-007 Synthesis of Guanidines Directly from Thiourea Mediated by Hypervalentiodine in Water
Jakkrit Srisa (Thailand)
- PII-009 Biogenic AgNPs by Acacia Arabica Leaf Extract: Synthesis and Antimicrobial Activity
Neena Arora (India)
- PII-010 Iodo-BODIPY Derivatives as Photocatalysts for Photooxidation of Thiol Under Visible Light
Piyamaporn Tangkasemsamran (Thailand)
- PII-011 Ion Exchange Capacity of Zeolite a with Zinc Nitrate and its Antimicrobial Activity.
Harnish Kaur Kartar Singh (Malaysia)

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- PII-012 High Levels of Ammonium Removal by an Ion Exchange Process Using Synthetic Zeolite
Sooyeon Ahn (Korea)
- PII-013 Biodegradation of Tetracycline Antibiotics Using Laccase Enzyme Immobilized at Chitosan Bead
Dawoon Jeong (Korea)
- PII-014 Photodegradation of Carbofuran Pesticide by TiO₂ under UV Illumination
Panlekha Manpetch (Thailand)
- PII-015 Expression and Purification of Multicolor Luciferase from the Japanese fireflies, *Pyrocoelia Miyako* which can be used as Toxic Detection.
Vinutsada Pongsupasa (Thailand)
- PII-016 Green Chemistry for Chlorination of Aromatic Compounds by Tryptophan Halogenases
Kridsakorn Prakinee (Thailand)
- PII-017 Utilizing Nature's Oxidant: A Base-Metal Catalyzed Oxidative C-H Amination to form Pharmaceutically Relevant Amino-Heterocycles.
Peter Clark (United Kingdom)
- PII-018 Enzymatic Synthesis of Glucosyl Palmitate Catalyzed by Carica Papaya Lipase
Ninnapat Tiensri (Thailand)
- PII-019 Reaction of Pyranose 2-Oxidase with its Carbohydrate Substrates and Pyranose Dehydrogenase Coexpression with GroEL/GroES Chaperone in *E. Coli*.
Pangrum Punthong (Thailand)

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- PII-020 Selectively Biomimetic Oxidation of Alkyl and Aromatic Sulfides Catalyzed by the Iron Porphyrin and its Mechanism Probe
Xinrui Zhou (China)
- PII-021 Extraction of Biologically Active Compounds and their Successive Concentration by Using Membrane Processes
Bartosz Tylkowski (Spain)
- PII-022 A Green And Facile Approach For The Microwave Synthesis Of Fluorescent Carbon Dots For Selective Detection Of Picric Acid
Nakorn Niamnont (Thailand)
- PII-023 The Application of Microwave Cooperation with Hot Air Drying to Produce Grade a of Crude Palm Oil by a Small Crude Palm Oil Mill
Rayakorn Nokkaew (Thailand)
- PII-024 Structural Analysis of 2-Hydroxypropyl- β -Cyclodextrin: Replica Exchange Molecular Dynamics Simulations (REMD)
Khaniittha Kerdpol (Thailand)
- PII-025 Path Integral Molecular Dynamics Simulations for Muoniated Thioformaldehyde Radicals
Narissa Kanlayakan (Thailand)
- PII-026 Copper-catalyzed aerobic benzylic sp^3 C-H Oxidation Mediated Synthesis of 2,4,5-Trisubstituted Imidazoles Via a Domino Multi-Component Reaction
Vineet Jeena (South Africa)
- PII-027 Molecular Dynamic Simulations Reveal Substrate Binding Mechanism of Glycerophosphodiesterase
Nayana Bhat (Thailand)

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- PII-028 Modification of Natural Pigment from Sappanwood for Dye Sensitized Solar Cell
Application: Computational Study
Jitnapa Sirirak (Thailand)
- PII-029 Molecular Understanding of Propane Dehydrogenation on Promising Ni(111)
Catalyst
Tinnakorn Saelee (Thailand)
- PII-030 Photocatalytic Adsorptive Desulfurization of Model Diesel Fuel using Bifunctional
O_x-TiO₂
Pawnprapa Pitakjakpipop (Thailand)
- PII-031 Enhanced Photocatalytic Activity of TiO₂ by Modified Surface with Natural Lac-Dye
Cheewita Suwanchawalit (Thailand)
- PII-032 Facile Synthesis and Characterization of CuS Nanoplatelets by Sonochemical-
Assisted Approaches based on a High Concentration Copper Precursor Solution
Young-In Lee (Korea)
- PII-033 Esterification of Glycerol and Acetic Acid using Tungstophosphoric Acid
Immobilized on Amino-Functionalized Porous Materials
Chutima Tangku (Thailand)
- PII-034 Structural Modification of Carbohydrate using Porous Phenolsulfonic Acid-
Formaldehyde Resin (PAFR) as Catalyst in Esterification and Transesterification
Pranpariya Ponpakdee (Thailand)
- PII-035 Screening of Silica-Supported Binary Catalysts for Oxidative Coupling of Methane
Thanaphat Chukeaw (Thailand)

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- PII-036 Straightforward Design for Phenoxy-imine Catalytic Activity in Polyethylene
Polymerization: DFT + QSAR Studies
Pongsakorn Chasing (Thailand)
- PII-048 Determination of Organophosphorus Pesticides Residues in Some Vegetables
Khin Swe Swe Aung (Myanmar)

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- PIII-001 Utilization of Biomass as Fillers in Elastomer Industry
Sunday Honesty Egboh (Nigeria)
- PIII-002 Synthesis and Characterization of Hydroxyapatite from Bone and Resorcinol-
Formaldehyde/HAp Nanocomposite
Arun Acharya (Nepal)
- PIII-003 A Novel Polyhedral Oligomeric Silsesquioxane Based Ionic Liquids (POSS-ILs)
Polymer Electrolytes for Lithium Ion Batteries
Yufeng Xu (China)
- PIII-004 Synthesis, Characterization and Antimicrobial Activity of Anilinium Caboxylate Ionic
Liquids
Ajoy Kumer (Bangladesh)
- PIII-005 A Fluorogenic Probe for Fluoride Detection in Aqueous Media and HepG2 Human
Liver Carcinoma Cells
Kantapat Chansaenpak (Thailand)

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- PIII-006 Transparent luminescent Nanopaper Based on Graphitic Carbon Nitride
Nanosheets Grafted Oxidized Nanofibrillated Cellulose with Excellent Thermal and
Mechanical Properties for Anti-Counterfeiting Applications
Lan Mu (China)
- PIII-007 Hydroxyethylsulfone Based Reactive Coalescing Agents for Water Borne Coating
with Low Environmental Impact
Balamurugan Ramalingam (Singapore)
- PIII-008 Research on a New Adsorbent Material for I-131 in Nuclear Waste Based on the
Structure of Nanometer Atom Clusters
Rongzhen Wu (China)
- PIII-009 Fabrication of High Thermal Conductivity and Excellent Mechanical Strength
Composites Filled with Multi-Scale Hybrid Particles
Lin Mao (China)
- PIII-010 Green and Smart Carboxymethyl Guar Gum-Gelatin Semi-Interpenetrating
Hydrogels for on Demand Drug Delivery
Sonia Kundu (India)
- PIII-011 Preparation and Characterization of Bromothymol Blue Loaded Ph Responsive
Nanoparticles as a Labeling Agent for Development of Bacterial Detection
Rattanawan Tangporncharoen (Thailand)
- PIII-012 Fabrication and Evaluation of N-Phthaloyl Chitosan as Blend Component in
Chitosan Based Membrane
Christine Dyta Nugraeni (Indonesia)

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- PIII-013 On the Interaction of Tri-N-Butylmethylphosphonium Dimethylphosphate with Elemental Sulfur
Efrem Krivoborodov (Russian Federation)
- PIII-014 Modification of Chitosan With Citric Acid as Green Scale Inhibitor for Industrial Water Cooling System
parinya Jitreewas (Thailand)
- PIII-015 Efficient Synthesis of Pyrrolo-Lactones from Reducing Sugars and Amino Acids.
Ik joon In (Korea)
- PIII-016 Photocatalytic Hydrogen Production with Simultaneous Biodiesel Wastewater Treatment using Metal Decorated TiO₂
Patsakol Prayoonpunratn (Thailand)
- PIII-017 Eco-Friendly Branched Biopolymer Films from Guar Gum Propionate for Bacteria Free Food Preservation
Aatrayee Das (India)
- PIII-018 Utilizations of Green Extracts for Determination of Ferrous Ion
Abdulnaser Hajisamoh (Thailand)
- PIII-019 Preparation of Palm Date (Phoenix Dactylifera L) Fruits Extracts and Pharmacological Evaluation of TNF Stimulated PSCS
Reem Al-Alawi (Oman)
- PIII-020 Designing Mineralisable Building Blocks for Green Chemicals
Grete Raba (Estonia)
- PIII-021 Chemical Composition and Morphological Change of Refractory Ceramic Fiber by Dissolution
Teruhisa Hongo (Japan)

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- PIII-022 Encapsulation of Magnetic Nanoparticle via Droplet-based Microfluidics for Targeting Drug Delivery System
Ratchanon Sukthai (Thailand)
- PIII-023 Bio-Based Reactive Diluent Derived from Cardanol and its Application in Polyurethane Acrylate (PUA) Coatings with High Performance
Yun Hu (China)
- PIII-024 A Novel Zeolite A/Poly (Vinyl Alcohol) Hydrofilm Composite for Application of Calcium Removal from Water
Duangkamon Viboonratanasri (Thailand)
- PIII-025 Separation of Phenols from Lignin Pyrolysis Oil using Ionic Liquid
Fabrice Mutelet (France)
- PIII-026 Preparation and Characterization of Rubber Composites using Reclaimed Rubber as Filler
Htoon Nay Oo (Myanmar)
- PIII-027 Temperature Indicator Based on Paper Coated with Anthocyanins Extracted from Red Cabbage
Linda Thiraphattaraphun (Thailand)
- PIII-028 Eggshell Membrane as a Sustainable Source of Antioxidant
Wanida Wattanakaroon (Thailand)
- PIII-029 In Vitro Determination of Anticancer Activity of Selected Marine Sponges of Sri Lanka
Nadishani Sathsara Senarathne (Sri Lanka)

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- PIII-030 Biobased Chemistry and Technology: Derivatives of Galactarolactone as Key Intermediates for Sustainable Products and Materials
Jiemeng Li (Italy)
- PIII-031 Solvent-free Exterior Coating using New Concept
Melissa Prawirasatya (Singapore)
- PIII-032 Lignin Separation and Transformation to Valuable Chemicals from Hardwood using Acidic Heterogeneous Catalysts
Isara Mongkolpichayarak (Thailand)
- PIII-033 Membrane Materials for Methane Recovery from Oxidative Coupling of Methane
Jung Hyun Lee (Korea)
- PIII-034 Effect of Mixed Tween 80 with Biosurfactant on Critical Micelle Concentration, Soil Sorption and Interfacial Tension with Diesel
Pajaree Boonyathai (Thailand)
- PIII-035 Early Biofouling Detection by Ambient Ionization Mass Spectrometry and Imaging for Sustainable Reverse Osmosis
Swathy Jakka Ravindran (India)
- PIII-036 Energy, Environmental and Physical Properties Comparison of Thermal, UVA and UV-LED Initiation Systems for Polymer Hydrogels
Maytinee Yooyod (Thailand)
- PIII-037 PLA/PCL/CAB Ternary Blend Nanofiber Scaffolds as Skin Tissue Engineering: Morphology, Crystallinity and Thermal Properties
Nantaprapa Tuancharoensri (Thailand)

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- PIII-046 Fabrication of Peanut Hulls-Methylmethacrylate Biopolymer Through Radical Copolymerisation for Pb(II) Removal from Wastewaters
Upenyu Guyo (Zimbabwe)
- PIII-053 Mild Functionalization of Carbon Nanotubes for Improvement of Filtration and Antibacterial Performance of Polyethersulfone Membranes
Muna Hamed Al-Hinai (Oman)
- PIII-059 Aqueous-Based Synthesis and Characterization of Styrene Maleic Anhydride Microspheres for Wastewater Treatment
Patchara Punyamoongwongsa (Thailand)