

# Poster Presentation Schedule



# IUPAC2025

Kuala Lumpur Convention Centre, Malaysia

**53rd IUPAC General Assembly (53GA)**  
**12th - 16th July 2025**

**50th World Chemistry Congress (50WCC)**  
**14th - 19th July 2025**

Organised by:



Supported by:



Incorporating **LabAsia2025**

*Venue: Banquet Hall (Level 3)*

## POSTER SESSION 1

Mounting Time: 15th July 2025 0900hrs  
Dismantle Time: 16th July 2025 1600hrs  
Poster Counter: 0700 - 1800hrs

## POSTER SESSION 2

Mounting Time: 17th July 2025 0900hrs  
Dismantle Time: 18th July 2025 1600hrs  
Poster Counter: 0700 - 1800hrs

*Chemistry for  
Sustainable Future*

[iupac2025.org](http://iupac2025.org)



## Poster Presentation Session 1

Mounting Time: 15th July 2025 from 0900 hrs

Venue: Banquet Hall, Level 3

Dismantle Time: 16th July 2025 at 1600 hrs



### Cluster I – Analytical & Forensic

Poster ID	Abstract ID – Title & Author
S1-PP01	1251 – A preliminary study of the local rice breeds using isotope ratio mass spectrometry <i>Mohamad Izharudin Che Amat, Malaysia</i>
S1-PP02	1413 – Beyond the hype: Establishing a universal framework for wearable biochemical sensor standards <i>Paolo Bollella, Italy   Derek Craston, Ruchi Gupta, Zoltán Mester, Tsuyoshi Minami, Takae Takeuchi, Joseph Wang, Luisa Torsi</i>
S1-PP03	2396 – Automated NMR acquisition and processing for high-throughput analytical quality management <i>Sean Bowen, United States</i>
S1-PP04	2419 – I-Spectrochem chemometrics multivariate: Rapid determination of kinematic viscosity (KV) & SimDist high temperature (HT) in vacuum gasoil <i>Mohd Izzat Bin Sulaiman, Malaysia   Muhamad Zaki Bin Ibrahim</i>
S1-PP05	1428 – Development and optimization of an analytical method for air pollution monitoring using canisters by Gas Chromatography-Mass Spectrometry with Thermal Desorption (GC-MS-TD) techniques <i>Amran Bin Ahmad, Malaysia</i>
S1-PP06	1490 – Chemical profiling of New Psychoactive Substances (NPS) received in Sarawak - A pilot study <i>Aishah Abdul Aziz, Malaysia   Hazalinawati Zailani, Wan Nur Syuhaila Mat Desa, Biling Anak Peter Raig</i>
S1-PP07	1542 – Functionalized fullerenes C60 and C70 as novel sorbents in analytical chemistry <i>Marcin Musielak, Poland   Maciej Serda, Madhav Chavhan, Rafał Sitko</i>
S1PP08	1763 – Development of a $\mu$ -solid phase extraction device for efficient environmental pollutant analysis in water <i>Muhammad Nur Hafiz Rozaini, Malaysia   Noorfatimah Yahaya, Muggundha Raoov Ramachandran</i>
S1-PP09	1345 – Determination of organochlorine pesticide residues in Chinese herbal medicines using Gas Chromatography - Tandem Mass Spectrometry (GC-MS/MS): Method validation and measurement uncertainty estimation <i>Lai Ming Ella Wong, Hong Kong, China   Jacky Ya Yin Choi</i>
S1-PP10	1509 – Method validation for the determination of inorganic arsenic in seaweed using HPLC-ICP-MS <i>Ying Ying Low, Malaysia   Hairul Nizwan Bin Ab Manap</i>
S1-PP11	1495 – A comparative study of open and closed vessel acid digestion for heavy metal analysis using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) <i>Madihah Binti Ahmad, Malaysia</i>
S1-PP12	1529 – A study on the occurrence of genetically modified maize and soybean: An overview at the Department of Chemistry Malaysia <i>Izyan Fartini Md Zuri, Malaysia</i>
S1-PP13	1953 – Analysis of sugar content in ready-to-drink sugar-sweetened beverages using UHPLC-ELSD <i>Poh Ling Loo, Malaysia   Muhamad Shafudin Saad, Lailatul Nazira Topani, Mohd Irwan Wahab, Norfadila Binti Mohammad</i>
S1-PP14	1123 – Polymer-modified electrodes for the electroanalysis of trace metal ions and nitrites in water and food samples <i>Modou Fall, Senegal   Ismaila Diédhiou, Momath Lô, Noureddine Raouafi</i>
S1-PP15	2153 – Comparison of HCl:HNO <sub>3</sub> composition in the destruction of Pb and Cu in the surface sediment of the mangrove forest of the Muara Nusa Dua Reservoir <i>Irdhawati, Indonesia   I Nengah Simpen, Maria Goreti Ling</i>
S1-PP16	1636 – Risk analysis of heavy metal contamination on public health in the aquatic area of the Citarum River, West Java province, Indonesia <i>Satriani Aga Pasma, Indonesia   Retno Wulandari, Muhayatun Santoso</i>
S1-PP17	2105 – Advancing biodegradable polymer fiber production with melt electrospinning <i>Yejin Lee, Korea, Rep.   Yun Hyeong Lee, Byung Kwon Kim</i>
S1-PP18	1410 – Are ecstasy still MDMA: The contents of ecstasy tablets seized in Penang state, Malaysia <i>Choon Hiang Ng, Malaysia</i>
S1-PP19	1452 – Are these metal objects from space? A case study of forensic analysis of metal fragments <i>Farah Ad Din Nordin, Malaysia   Saiful Fazamil Mohd Ali, Mohd Izuan Othman</i>

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S1-PP20	1418 – Forensic challenges in paternity testing: A case of molar pregnancy <i>Mohammad Azhar Mat Zin, Malaysia   Muhamad Sufiyan Bin Azah, Mohd Shafizi Bin Ab Aziz</i>
S1-PP21	1445 – Forensic characterization of metallic evidence: A comparative study of XRF and SEM-EDX techniques <i>Syed Fariq Fathullah Syed Yaacob, Malaysia   Ahmad Zaeri Latahir, Chong Kah Wai, Rusyidah Abdul Rahim</i>
S1-PP22	1501 – Development and evaluation of portable NIR technology for the identification of cannabinoids in plant materials <i>Hazirah Hasim, Malaysia   Vanitha Kunalan, Rosman Bawok, Nor Vickneswary</i>
S1-PP23	1504 – Optimizing automated DNA extraction and purification for forensic samples using the EZ1&2 DNA Investigator Kit on the EZ2 Connect Fx with the casework trace protocol <i>Dayang Zarifah Atailah Binti Awang Aemeran, Malaysia   Normazlina Zainudin, Nur Fadzliina Yahaya, Faten Najah Mohd Kassim, Mahzan Md Tab, Siti Hajar Hussin, Nor Aidora Saedon</i>
S1-PP24	1526 – Handheld FTIR unmasks simethicone and polydimethylsiloxane in illegal breast fillers <i>Siti Fairuz Rosli, Malaysia   Zul Helmi Salleh, Mohamad Shazrul Izzuan Azami, Sharmilah Kuppusami</i>
S1-PP25	1534 – Abandoned fetal remains: A case study on forensic DNA profiling <i>Allia Shahril, Malaysia   Hasnulhadi Abdullah, Mohd Nazwantul Idran Mohammad Rushle, Hazwani Hapiz, Siti Hajar Hussin</i>
S1-PP26	1528 – Differentiation of erasable inks in forensic questioned document examination: A pilot study <i>Chee Hau Teo, Malaysia   Nurul Atiqah Mohd Noh, Siti Nur Musliha Mohamad Noor</i>
S1-PP27	1545 – A comparative infrared (IR) spectral analysis of Honda and Perodua automotive paint samples <i>Kah Wai Chong, Malaysia   Farah Ad Din Binti Nordin, Rusyidah Binti Abdul Rahim</i>
S1-PP28	1384 – The sampling location of polymer-bonded explosive traces <i>Viktoryia Varabyova, Belarus   Daria Danilova</i>
S1-PP29	1383 – GC-MS method for assessing the distribution of 2,4,6-trinitrotoluene residues after explosion <i>Daria Danilova, Belarus   Viktoryia Varabyova</i>
S1-PP30	2393 – Automated sample preparation of opioids in blood and urine samples for the determination by Liquid Chromatography Tandem-Mass Spectrometry (LC-MS/MS) <i>Sharmilah Kuppusami, Malaysia   Zul Helmi Salleh, Nor Azmi Abd Karim</i>
S1-PP31	1633 – Investigating solubility and stability in developing standard gas mixtures for insulating oil applications <i>Hadi Fauzi, Malaysia</i>
S1-PP32	1655 – Determination of biogenic amines (cadaverine, putrescine, tyramine, histamine) in milk and wine using High-Performance Liquid Chromatography (HPLC) <i>Anna Salimova, Russian Federation</i>
S1-PP33	2021 – Persistence of cyromazine, tebuconazole and trifloxystrobin residues in red shallot leaves ( <i>Allium cepa</i> var. <i>aggregatum</i> ) <i>Christine Jinang, Malaysia   Lai Lee San, Jisia Jimbau, Ngan Chai Keong, Margaret Abat, Maclin Dayod</i>
S1-PP34	1557 – Development and validation of an analytical method for monitoring Polycyclic Aromatic Hydrocarbons (PAHS) and fat content in cacao mass ( <i>Philippine Tablea</i> ) <i>Jannelle Cristobal, Philippines   Charita S. Kwan, Benelyn D. Dumelod</i>
S1-PP35	2078 – Classification of kimchi consumed in South Korea by country of origin using <i>k</i> -Nearest Neighbors based on elemental composition <i>Yonghoon Lee, Korea, Rep.</i>
S1-PP36	2101 – Estimation of total phenolic content and total carbonyl compounds for identifying natural rubber sheet smuggling into Thailand <i>Orapan Apirakkan, Thailand   Neungrutai Saesaengseerung, Orasa Onjun</i>
S1-PP37	2780 – Quantification of chloride inhibition of oxygen reduction in bilirubin oxidases using protein film electrochemistry <i>Amirah Kamaruddin, Malaysia</i>

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### Cluster I – Analytical & Forensic

Poster ID	Abstract ID – Title & Author
S1-PP38	2758 – Development of optical and electrochemical sensors and biosensors utilizing bis-neocuproin copper (II) complex (cuprac) and its biotechnological applications <i>Selen Ayaz, Turkiye</i>

### Cluster I – Cheminformatics

Poster ID	Abstract ID – Title & Author
S1-PP39	1296 – Interpretable infrared spectra prediction models based on structural neighboring mechanism <i>Chengchun Liu, China   Fanyang Mo</i>
S1-PP40	1346 – Multimodal learning in synthetic chemistry applications: Gas chromatography retention time prediction and isomer separation optimization <i>Jinglong Lin, China   Fanyang Mo</i>
S1-PP41	1482 – Evaluation of the therapeutic potential of a novel curcumin analogs for drug-resistant head and neck squamous carcinoma by targeting PLAU/TREM2/TNC signaling hub <i>Azizah Nur, Indonesia   Ritmaleni, Rumiya, Alexander T.H Wu</i>
S1-PP42	1477 – Deepmass: Unknown compound annotation using semantic mass spectral similarity and chemical space localization <i>Hongchao Ji, China</i>

### Cluster I – Education and Public Understanding

Poster ID	Abstract ID – Title & Author
S1-PP43	1486 – Bringing a chemist's perspective and expertise to policy spaces in the United States <i>Annabelle Lolinco, United States</i>
S1-PP44	1522 – Fostering sustainable development awareness through systems thinking-informed small-scale chemistry experiments in high school education <i>Thanh Vinh Le, Vietnam</i>
S1-PP45	1618 – Applying systems thinking to develop a sustainable heavy metal wastewater treatment process <i>Phuc Nguyen, Vietnam   Tran Thao Phuong, Tran Nguyen Hoang Long, Mai Thi Phuong</i>
S1-PP46	1305 – An inquiry-based learning activity of optical rotation using a 3D-printed polarimeter <i>Kong Ching Wong, Hong Kong, China   Ip Chun Wai, Ng Wang Hei</i>
S1-PP47	1551 – Cultivating systems thinking using the sustainability compass: A case study on grade 12 chemistry topics in Vietnam education curriculum <i>Tai Nguyen Minh, Vietnam</i>
S1-PP48	1388 – Trends in the outcomes of studying chemistry disciplines at a university with a non-chemistry major <i>Judita Lidiková, Slovak Republic   Natália čeryová, Janette Musilová</i>
S1-PP49	2486 – Cultivating scientific inquiry in youth through high school research conferences <i>Rajesh Pandit, Nepal   Rameshwar Adhikari, Om Prakash Basyal, Jaya Ram Ghimire, Elina Maharjan, Prasamsha Panta, Num Kant Parajuli, Manish Man Shrestha, Nelson Rai, Umesh Subedi, Dikshya Suwal, Umesh Thapa</i>

### Cluster I – Environmental

Poster ID	Abstract ID – Title & Author
S1-PP50	683 – Insight into the effect of EDTA on photocatalytic performance of bismuth-based materials <i>Qiaofeng Han, China</i>
S1-PP51	964 – Novel phosphotungstic acid modified activated carbon derived from palm biomass for removal of organic dyes from wastewater <i>Abdullah Aldawsari, Saudi Arabia</i>
S1-PP52	1100 – Ultra-thin FeCo(OH) <sub>x</sub> precursor-derived co-doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles on N-doped graphene as highly stable oxygen electrocatalyst <i>Sunglun Kwon, Korea, Rep.</i>

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Poster ID	Abstract ID – Title & Author
S1-PP53	1712 – Costs and human health effects of deploying carbon capture and storage in the US electric power sector <i>Wilson Mcneil, United States   Chelsea Preble, Robert Harley, Corinne D. Scown</i>
S1-PP54	1243 – In silico binding affinity analysis of PCBS with TCE reductive dehalogenase from sulfurospirillum multivorans <i>Alexandrea Beatriz Manangan, Philippines   Nelson R. Villarante, Junie B. Billones</i>
S1-PP55	1368 – Role of thermal adaptation behaviors on the characteristics and respiratory disposition of indoor airborne microplastic <i>Chien Cheng Jung, Taiwan, China   Pei Wei Yeh</i>
S1-PP56	1539 – Valorization of biochar and cow dung for hydrocarbon remediation: Implications for carbon sequestration and sustainable soil restoration <i>Paschal Okiroro Iniaghe, Nigeria   Faustina Onyeyirichi Iniaghe, Godswill Okeoghene Tesi, Wisdom Ivwurie</i>
S1-PP57	1541 – Multifunctional signal tracer-mediated immunosensors: Rational designs and sensing applications <i>Shaomin Shuang, China   Jianyang Feng, Chuan Dong</i>
S1-PP58	1573 – Enhanced hepatic metabolic perturbation of polystyrene nanoplastics by UV irradiation-induced hydroxyl radical generation <i>Peili Huang, China   Juan Li</i>
S1-PP59	1024 – Sewage sludge as alternative substrate for biochar production aimed at CO <sub>2</sub> capture <i>Sandro Froehner, Brazil   Miguel Aisse, Marcos Capitolino Barros Filho, Marcelo Errera</i>
S1-PP60	1503 – Solvent extraction separation of cobalt-iron binary systems in nitric acid media using trialkylamine extractants <i>Bo Zhang, China   Ding Ding</i>
S1-PP61	1336 – Substituent effects in benzoyl thiourea-based chemosensors for selective copper (II) ion detection <i>Hua Yong Goh, Malaysia   Ming Yueh Tan, Siew San Tan</i>
S1-PP62	1481 – Dispersant-assisted volume reduction of radiocesium-contaminated soil <i>Zinnat Ara Begum, Japan   Rashedul Islam Ripon, Iqbal Hossain, Abhijit Barua, Ismail M.M. Rahman</i>
S1-PP63	1483 – Selective separation of radiostrontium from contaminated water using a crown ether-functionalized mesoporous silica sorbent <i>Ismail Md. Mofizur Rahman, Japan   Rashedul Islam Ripon, Iqbal Hossain, Abhijit Barua, Zinnat A. Begum</i>
S1-PP64	1535 – Efficient organic solvent nanofiltration membrane for molecular sieving <i>Hilal Ahmad, Saudi Arabia</i>
S1-PP65	1276 – Assessment of organochlorine pesticide residues in agricultural soils of southern Nigeria and analysis of potential health risks <i>Akwaowo Imoh Inyangudoh, Nigeria</i>
S1-PP66	2771 – Highly efficient dye removal from wastewater using banana stem activated carbon and alum in a synergistic adsorption-coagulation system <i>Marina Mokhtar, Malaysia   Anis Syazwani Salimi, Norain Isa, Nur Fadzeelah Abu Kassim, Nor Aziyah Bakhari</i>
S1-PP67	2529 – Selective hydrogenation of CO <sub>2</sub> to light olefins using alkaline-promoted iron catalysts <i>Babar Ali, Saudi Arabia   Khalid Alhooshani, Saheed Adewale Ganiyu</i>
Cluster I - Green Chemistry	
Poster ID	Abstract ID – Title & Author
S1-PP68	2425 – Green synthesis of copper (II) oxide nanoparticles (CuO-NPs) by using a mixture of fermented rabbit urine and golden apple snail as reducing agent <i>Nurul Izza Taib, Malaysia   Saiyidah Nafisah Hashim</i>
S1-PP69	1864 – Electrogenerated base driven transfer hydrogenation reaction of aromatic ketones <i>Huan Wang, China   Hao Xu, Haihong Wu, Jiaying Lu</i>

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### Cluster I - Green Chemistry

Poster ID	Abstract ID — Title & Author
S1-PP70	1810 — Functionalization of biofilms with antioxidant extracts from olive leaves using glycerol-based green solvents <i>Emilio Jose Gonzalez, Spain   Ana Lafuente, Jaime Tiemblo, Marina P. Arrieta</i>
S1-PP71	1809 — Characterization of green supramolecular solvents and their potential as extraction solvents in biorefinery <i>Maria Gonzalez Miquel, Spain   Andrea Sanchez Monedero, Ismael Diaz, Manuel Rodriguez</i>
S1-PP72	1853 — Rapid synthesis of metal-organic framework <i>Rachel Yie Hang Tan, Malaysia   Lee Choy Sin, Wong Shew Fung, Liew Yun Khoo</i>
S1-PP73	1951 — Zn-MOFs: Synthesis, characterisation and hemocompatibility test <i>Bing Wei Chua, Malaysia   Choy Sin Lee, Mallikarjuna Rao Pichika, Wen Huei Lim</i>
S1-PP74	2135 — Efficient aromatic C–H bond oxygenation with oxoammonium salt <i>Zeyu Wen, China   Wang, Yongtao, Yao, Jia, Li, Haoran</i>
S1-PP75	2030 — Synthesis of bio polyols for rigid sandwich panel applications <i>Bilgehan Guzel, Turkiye   Orhan Kahveci, Sinem Tümük, Erdem Delil</i>
S1-PP76	2107 — Direct growth and post-treatments of ZIF-67 on carbon paper for high-performance electrocatalysis <i>Anh Nguyen, Vietnam   Hyojong Yoo</i>
S1-PP77	2116 — High-capacitance supercapacitor electrodes based on NiCoAl-LDH/graphene aerogel <i>Yebin Park, Korea, Rep.   Hyojong Yoo</i>
S1-PP78	2113 — Zinc-based coordination polymer particle-derived bimetal-nitrogen-carbon for rechargeable zinc-air battery <i>Chaeyeon Kang, Korea, Rep.   Hyojong Yoo</i>
S1-PP79	2120 — Gold nanoparticles decorated graphene aerogel for an excellent glucose-oxidase-like catalytic and stable electrode of glucose biofuel cells <i>Cao Thang Doan, Korea, Rep.   Hyojong Yoo</i>
S1-PP80	2141 — Sustainable textile circularity: Optimizing dye removal for cotton fiber regeneration <i>Bego Gonzalez, Spain   Martinez Rico, O, Dominguez, A</i>
S1-PP81	2452 — Ion-exchange mediated photochemical production of ultrahigh loading single-atom catalysts <i>Yucong Huang, China   Chen Zhongxin</i>
S1-PP82	2455 — Solid-phase upcycling toward the production of ultrahigh-loading single-atom catalysts <i>Guanwu Lian, China   Chen Zhongxin</i>
S1-PP83	2222 — Impactive: European mechanochemists develop greener pharmaceuticals <i>Evelina Colacino, France   Juan José Sáenz De La Torre, Leyre Flamarique, Fernando Gomollon Bel</i>
S1-PP84	2032 — High-entropy nanomaterials for electrocatalytic water splitting <i>Zhenlong Wang, China</i>
S1-PP85	2049 — Carbon-encapsulated Fe nanoparticles in Fe–N–C electrocatalysts for efficient oxygen reduction reaction <i>Gaoyuan Huang, China   Hai Bin Zhu</i>
S1-PP86	1939 — Near Infrared Reflectance Spectroscopy (NIRS) for simultaneous evaluation of soil properties <i>Syazwani Bakar, Malaysia   Irna Syairina Binti Sahari, Margaret Anak Abat</i>
S1-PP87	2485 — An alternative approach to the plant protection with the use of novel ionic derivatives of salicylic acid and benzothiadiazole <i>Maciej Szychalski, Poland   Rafał Kukawka, Artur Strzeliński, Zuzanna Sawinska, Agnieszka Kiniec, Renata Gaj, Marcin Smiglak</i>
S1-PP88	1946 — Prediction of nutrients and proximate compositions in agricultural crops using near infrared reflectance spectroscopy <i>Irna Syairina Binti Sahari, Malaysia   Margaret Abat, Syazwani Bakar</i>

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### Cluster I - Green Chemistry

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S1-PP89	2429 — Enhanced hydrogen production via formic acid dehydrogenation using trimetallic PdNiCo nanoparticles encapsulated in MOFs <i>Norliza Dzakaria, Malaysia   Noor Hayati Ridhwan, Najihah Syahbudin, Muhammad Shafie Norhisham, Nurul Auni Zainal Abidin, Azizul Hakim, Arrozi, U. S. Fd</i>
S1-PP90	2555 — Doping of Zn into CeO <sub>2</sub> nanorod an efficient catalyst for the CO <sub>2</sub> carbonylation with amine reaction <i>Nagendra Kulal, Saudi Arabia</i>
S1-PP91	2782 — Hydrogen-free deoxygenation of microalgae oil to produce sustainable aviation fuel <i>Wei Chun Tung, Malaysia   Wai Kit Tang, Joon Ching Juan</i>
S1-PP92	2783 — Mitigating absolute humidity challenges in ambient-processed CsPbI <sub>3</sub> perovskite solar cells: Triphenylphosphine-based additives for tropical climates <i>Whui Dhong Wong, Malaysia   Bao Lee Phoon, Joon Ching Juan, Lai Chin Wei, Nurhidayatullaili Muhd Julkapli</i>

### Cluster I - Human Health & Well Being

Poster ID	Abstract ID — Title & Author
S1-PP93	1704 — Preliminary study of elemental analysis of illicit tobacco products from selected countries <i>Ujang Tinggi, Australia   Mark Myerson, Madeleine Farrell, Taylor Sillcock, Jim Carter, Stephen Finlayson, Bruce Morton</i>
S1-PP94	1073 — Synthesis, antitrypanosomal activity, ADME and DNA binding of benzothiazole amidoximes and arylimidamides <i>Silvana Raić Malić, Croatia   Valentina Rep Kaulić, Martina Piškor, Sanja Koštrun, Astrid Milić, Marijana Radić Stojković, Amanda Fortes Francisco, Martin C. Taylor, John M. Kelly</i>
S1-PP95	1971 — Kratom alkaloids: Blood-brain and intestinal barrier interactions <i>Nur Aziah Hanapi, Malaysia   Nelson Jeng Yeou Chear, Siti Rafidah Yusof</i>
S1-PP96	2273 — Design, synthesis and mechanistic studies of benzimidazoles as a novel class of therapeutics against drug-resistant oral cancer cells <i>Keng Yoon Yeong, Malaysia   Wai Leng Lee, Hock Siew Tan</i>
S1-PP97	2300 — Dietary supplementation with <i>Eucheuma denticulatum</i> alters plasma metabolites in high-fat diet-fed rats: An NMR-based metabolomic study <i>B Vimala Rmt Balasubramaniam, Malaysia   Mohd Naeem Bin Mohd Nawi, Siti Khadijah Binti Abdul Khalid</i>
S1-PP98	2406 — Two new limonoids from <i>Carapa procera</i> seeds and their antimicrobial activity <i>Matar Seck, Senegal   Moussa Ndao, Samba Fama Ndoye, Ismaila Ciss, Seynabou Sokhna, Lalla Aicha Ba, Insa Seck, Mehdi Beniddird</i>
S1-PP99	1808 — Development of a novel fluorescent probe for the sensitive detection of glutathione in biological fluids <i>Ali Alqarni, Saudi Arabia   Hamdi Mohamed, Ashraf M. Mahmoud, Al Montaser Bellah H. Alib</i>
S1-PP100	2018 — Design, synthesis, and biological evaluation of novel trifluoromethylated imidazonaphthyridine derivatives as potential antimicrobial agents <i>Siew Fang Wong, Malaysia   Goh Joo Kheng, Koh Zhan Ning</i>
S1-PP101	2772 — Neuroprotective properties of plant-derived bioactive compounds: A bibliometric analysis <i>Nor Aziyah Bakhari, Malaysia   Nor Aimi Abdul Wahab, Ainorkhilah Mahmood, Nur Iwani Nor Izaham, Marina Mokhtar, Suhaiza Hasan</i>

### Cluster I - Inorganic & Bioinorganic

Poster ID	Abstract ID — Title & Author
S1-PP102	1567 — Photosensitising agents for antibacterial and anticancer treatment: Ruthenium polypyridyl/Schiff base complexes <i>Kuan Teng Tan, Malaysia   Ke Hui Lee, Pei Yi Tan, Wei Meng Lim, Yun Khoon Liew, Chun Wai Mai, Lai Chun Wong, May Lee Low</i>

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### Cluster I - Inorganic & Bioinorganic

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S1-PP103	1933 — Synthesis, characterization and antitumoral activity in ovarian cancer cells of new gold(I) complexes <i>Adam Ahmed Abdallah Sulaiman, Saudi Arabia   Naike Casagrande, Cinzia Borghese, Donatella Aldinucci, Anvarhusein A. Isab</i>
S1-PP104	2209 — Synthesis, structural characterization, and catalytic performance of Pd(II) complexes with fluorine and methyl-substituted Schiff bases: Experimental and theoretical insights <i>Shahrul Nizam Ahmad, Malaysia   Amalina Mohd Tajuddin, Nova Pratiwi Indriyani, Aditya Wibawa Sakti, Nor Mas Mira Abd Rahman, Nor Saadah Mohd Yusof</i>
S1-PP105	1271 — General synthesis of oxides/oxides interfaced spheres for solar H <sub>2</sub> fuel <i>Muhammad Waqas, Saudi Arabia</i>
S1-PP106	1590 — Implications of symmetry and orientation of naphthyl substituents of metallosalen and salpn-based naphthalene complexes in their CO <sub>2</sub> electroreduction capabilities <i>Dalice Marie Pinero Cruz, Puerto Rico   Christopher A. Samaniego Rodriguez, Darién O. Kercado Colón, Jemily Acosta Mercado, Javier O. Rivera Reyes, Alanys V. Luna Ramírez, Yomaira Pagán Torres, Miguel Sepúlveda Pagán, John Paul Jones</i>
S1-PP107	1725 — Ring opening polymerization of rac-lactide by transition metal complexes ligated by aminomethylquinoline derived ligands <i>Hyosun Lee, Korea, Rep.</i>
S1-PP108	1861 — Suzuki coupling of twisted amides: An effective Pd precatalyst strategy <i>Yu Hsiang Liu, Taiwan, China</i>
S1-PP109	2029 — Synthesis and characterization of bis(imino)acenaphthene ligands bearing various fluoreted substitution <i>Bilgehan Guzel, Turkiye   Burcu Darendeli, Elif Torun, Nora Ahmed</i>
S1-PP110	2502 — Chelating “carbone” ligands: Synthesis, metal coordination and reactivity study <i>Bamlaku Semagne Aweke, Taiwan, China   Wen Ching Chen, Glenn. P.A. Yap, Lili Zhao, Tiow Gan Ong</i>
S1-PP111	2505 — Synthesis and characterization of chiral binap-carbone metal complexes and their application in catalysis <i>Yingyu Chen, Taiwan, China   He Xin Xiao, Wen Ching Chen, Tiow Gan Ong</i>
S1-PP112	2506 — Isolated carbon(I) species featuring a carbone cation radical <i>Hexin Xiao, Taiwan, China   Yi Chen Chan, Tiow Gan Ong</i>
S1-PP113	2508 — A versatile carbodicarbene precursor: Exploring coordination and reactivity with transition metals and main group elements <i>Zhexin Wu, Taiwan, China   Jiun Shian Shen, Glenn P. A. Yap, Tiow Gan Ong</i>
S1-PP114	2512 — Palladium and iridium: Carbodicarbene complexes: Formation and unexpected reaction selectivities <i>Min Xuan Zhang, Taiwan, China   Jiun Shian Shen, Zhe Xin Wu, Wen Ching Chen, Chen Hsun Hung, Glenn P. A. Yap, Tiow Gan Ong</i>
S1-PP115	2513 — Isolable two-coordinate germanium (II) di-cation <i>Yinzhi Weng, Taiwan, China   Bamlaku Semagne Aweke, Lei Qin, Lili Zhao, Tiow Gan Ong, Glenn P. A. Yap</i>
S1-PP116	2560 — Hidden frustrated Lewis pairs based on carbodicarbene-borane complexes <i>Pohung Huang, Taiwan, China   Geetanjali S. Sontakke, Jiun Shian Shen, Yin Zhi Weng, Bamlaku Semagne Aweke, Glenn P. A. Yap, Tiow Gan Ong</i>
S1-PP117	2327 — Hydrophobic modification of SBA-15 with encapsulated In <sub>2</sub> O <sub>3</sub> catalyst: Enhanced CO <sub>2</sub> -to-methanol conversion efficiency <i>Heng Zhang, China   Dongfang, Wu</i>
S1-PP118	2509 — Coupling with heteroarene and arenol via Ni-catalyzed C–H/C–OH activation <i>Sinyu Chen, Taiwan, China   Ting Hsuan Wang, Tiow Gan Ong, Chen Hsun Hung</i>
S1-PP119	2503 — Mechanistic study of nickel-catalyzed carbon-oxygen bonds arylation reaction of heteroaryl ethers <i>Jiun Shian Shen, Taiwan, China   Ting Hsuan Wang, Ping Yu Chen, Lili Zhao, Tiow Gan Ong</i>
S1-PP120	2504 — Machine learning-guided monodentate ligand map with electronic and steric features and its application in catalysis <i>Chen Hsun Hung, Taiwan, China   Tiow Gan Ong</i>

## Poster Presentation Session 1

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Cluster I - Inorganic & Bioinorganic	
Poster ID	Abstract ID — Title & Author
S1-PP121	1365 — Exploring histatins: The relationship between the coordination chemistry and antimicrobial activity <i>Emilia Dzien, Poland   Joanna Watly, Daniela Valensin, Miquel Adrover, Agnieszka Matera Witkiewicz, Magdalena Rowinska Zyrek</i>
S1-PP122	1475 — Trimetallic palladium-based catalyst supported on Schiff base conjugated graphitic carbon nitride in hydrogen gas generation <i>Ai Ling Koh, Malaysia   Ming Yueh Tan, Siew San Tan, Abdulkareem G. Al Sultan, Nurul Asikin Mijan, Yun Hin Taufiq Yap</i>
S1-PP123	2278 — Synthesis of ZSM-5 zeolite from Padma River sand as an alternative source of silica <i>Abul Kalam Md Lutfor Rahman, Bangladesh   Aparna Sarker, Robayath Jahan Rabeya, Nasrin Akter Nadi</i>
S1-PP124	2557 — Hydrogenolysis of xylitol to alcohols and diols over nickel supported on mixed metal oxides <i>Mzamo Shози, South Africa   Vuyolwethu Ndabankulu, Alisa Govender, Holger Friedrich</i>
S1-PP125	2129 — Tailoring calcium content and bioactivity in SiO <sub>2</sub> -CaO mesoporous bioactive glass nanoparticles for bone tissue engineering <i>Ekarat Meechoowas, Thailand   Usanee Pantulap, Phitsamai Kamonpha, Savarin Sinaviwat, Sureerat Yodthuan, Nuttawan Sawangboon</i>
S1-PP126	1244 — Catalytic oxidation over iron incorporated mesoporous molecular sieves (Fe-JLU-15) <i>Khalida Chellal, Algeria   Bachari Khaldoun, Sadi Farida</i>
S1-PP127	2769 — Performance analysis of GLDA and HEDTA as chelators for calcium and ferrum ions at 80 °C <i>Karimah Kassim, Malaysia   Ahmad Shalabi Md Sauri, Emily S Majanun, Mohd Fazli Mohamat, Najmiddin Yaakob, Muhamad Kamil Yaakob, Ahmad Zahir Hafiz, Farhana Jaafar Azuddin</i>
Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID — Title & Author
S1-PP128	1685 — Rylenediimide-triazinyl radicals: Initial study <i>Georgia Zissimou, Cyprus   Christos P. Constantinides, Daniel B. Lawson, Panayiotis A. Koutentis</i>
S1-PP129	1732 — Synthetic strategies to bioactive $\beta$ -carboline <i>Ahmad Saifuddin Mohamad Arshad, Malaysia   Nur Aziah Hanapi, Mohd Nizam Mordi</i>
S1-PP130	2190 — Synthesis of luminescent $\alpha,\beta$ -unsaturated oxadiazoles: Determination of their photophysical properties <i>Eugenio Hernandez Fernandez, Mexico   Zuleyma Martínez Campos, Susana T. López Cortina, Israel López, Mónica E. Anaya Tamez, David J. Michaelis</i>
S1-PP131	2094 — Discovery of novel pyridine derivatives as a potential herbicide <i>Soyoung Lee, Korea, Rep.</i>
S1-PP132	1838 — Ligand-free CuCl-catalyzed N-arylation of 1,2,4-triazole with aryl bromides <i>Yong Chua Teo, Singapore   Ang Wei Zhi, Chloe Low Kah Yee</i>
S1-PP133	1866 — Potential of chloroalkene as peptide bond isostere <i>Tetsuo Narumi, Japan   Mio Takeda, Sayuri Takeo, Chihiro Iio, Ai Sakakibara</i>
S1-PP134	2031 — A simple molecular design strategy for red multiple resonance emitters <i>Haowen Chen, China</i>
S1-PP135	1950 — Synthesis and evaluation of 1,4-naphthoquinone derivatives as DNA intercalating agents <i>Nadezhda Danilenko, Russian Federation   Andrei I. Khlebnikov</i>
S1-PP136	2072 — Exploring the influence of electronic effects on the reactivity of pentafulvenes <i>Manisha Hota, Australia   Emma Keller, Todd Gillam, Chris Blencowe, Anton Blencowe</i>
S1-PP137	2080 — Shuttling motion of stimulus-responsive rotaxanes with steric barriers on the axial component <i>Masahiro Muraoka, Japan   Hiroyuki Yoshimitsu, Shintaro Kawano, Motohiro Shizuma</i>
S1-PP138	2092 — Self-assembled nanoparticles: A strategy to overcome the pharmacokinetic limitations of peptide therapeutics <i>Hyunsuk Hwang, Korea, Rep.</i>

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Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID — Title & Author
S1-PP139	2091 — Self-adjusting $\alpha$ -helical peptides assembly for mRNA nanotube formation and magnetic control of $\alpha$ -helical peptide assembly and disassembly <i>Zhihao Zhang, Korea, Rep.</i>
S1-PP140	2112 — Rh (III)-catalyzed C(sp <sup>2</sup> )-H activation/annulation for the construction of pyrimidinyl-incorporated pyrrolo[3,4- <i>b</i> ]indole-diones <i>Yong Rok Lee, Korea, Rep.   Muhammad Saeed Akhtar, Mohammad Aslam, Sonaimuthu Mohandoss</i>
S1-PP141	2214 — Peptide synthesis in aquaculture: IL-8 derivatives for pathogen control in salmon farming <i>Paula Santana, Chile   Constanza Guzmán, Nicolás Galleguillos, David Ramírez, Fanny Guzman</i>
S1-PP142	2673 — Desymmetrization of cyclohexadienones through phase-transfer catalyzed stereoselective intramolecular aza-Michael addition with chiral sulfinamide nucleophiles <i>Bing Syuan Wu, Taiwan, China   Tiow Gan Ong, Cheng Che Tsai</i>
S1-PP143	2376 — Stereodivergence in chalcogen and hydrogen bond-based organocatalysis <i>Tomas Hodik, Czechia</i>
S1-PP144	1644 — Synthesis of 2,4,5-trisubstituted oxazoles from copper-mediated benzylic sp <sup>3</sup> C-H aerobic oxidative annulation of ketones and amines via a cascade reaction <i>Vineet Jeena, South Africa</i>
S1-PP145	1925 — Synthesis and study of some physicochemical characteristics of new 1,8-naphthalimide-conjugated hemorphin analogs <i>Petar Todorov, Bulgaria   Stela Georgieva, Jana Tchekalarova</i>
S1-PP146	2641 — Exploring pyrazolone azomethine analogues: Synthesis, X-ray crystallography, biological evaluation, and in silico studies <i>Mohammad Sayed Alam, Bangladesh   Junaid uddin Ahmed</i>
Cluster I – Polymer & Materials	
Poster ID	Abstract ID — Title & Author
S1-PP147	1820 — Dynamic crosslinking of commodity thermoplastics to create recyclable thermosets via perfluorophenyl nitrene C-H insertion <i>Zhi Yuan Lee, Singapore</i>
S1-PP148	1823 — Efficient near-infrared upconversion organic light-emitting diodes <i>Yingli Shi, China</i>
S1-PP149	1841 — Development of ionic-conductive hydrogels for wearable sensors: Exploring cation effects and their impact on performance <i>Mei Yu Yeh, Taiwan, China   Dian Huan Ji</i>
S1-PP150	1854 — Chirality-guided design and self-assembly of supramolecular hydrogels <i>Hsin Chieh Lin, Taiwan, China</i>
S1-PP151	1896 — Development of a paper-based microfluidic device for colorimetric detection of lead ions <i>Sopharen Houn, Cambodia</i>
S1-PP152	1912 — Phase behavior modulation of lamellar surfactant aggregates for surface modifications <i>Rui A Goncalves, Singapore</i>
S1-PP153	1998 — Development of transparent substrates with imprinted patterns for stretchable electronics <i>Byungwook Yoo, Korea, Rep.   Chul Jong Han, Min Jae Sung</i>
S1-PP154	2574 — Inhibitive effect of tridentate hydrazone ligands towards corrosion of mild steel in 3.5% NaCl solution saturated with CO <sub>2</sub> <i>Amalina Mohd Tajuddin, Malaysia   Balqis Auni Badrul Hisyam, Zainiharyati Mohd Zain, Nurul Fazlina Edayah Rasol, Noor Asnida Asli</i>
S1-PP155	2252 — Interactions at material-biofilm interfaces: Preliminary synchrotron-based studies for next-generation living coating systems <i>Wojciech Pajerski, Slovenia   Katarzyna M. Sowa, Pawel Korecki, Pawel Wrobel, Tomasz Kolodziej, Faksawat Poohphajai, Anna Sandak</i>

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### Cluster I – Polymer & Materials

Poster ID	Abstract ID – Title & Author
S1-PP156	2253 – Green strategies for next-generation coating systems: Microbial approaches at material interfaces <i>Wojciech Pajerski, Slovenia   Anja černoša, Ana Gubenšek, Anna Sandak</i>
S1-PP157	2478 – High-performance polymer-based luminescent solar concentrators enabled by MDMO-PPV: Efficiency, stability, and scalability <i>Betul Canimkurbey, Turkiye   Furkan Isik</i>
S1-PP158	1756 – Polysaccharide-based wound dressing with nanoflowers as a advanced biomaterials for wound therapy <i>Dorota Chelminiak Dudkiewicz, Poland   Miloslav Machacek, Klara Konecna, Kinga Mylkie, Aleksander Smolarkiewicz Wyczachowski, Marta Ziegler Borowska</i>
S1-PP159	760 – Nanofiltration membrane for dye/salt separation <i>Xin Wang, China   Ying Zhang, Shencheng Pan</i>
S1-PP160	1949 – Optimization of mucilage extraction from <i>Opuntia ficus-indica</i> for eco-friendly materials <i>Siziwe Gqoba, South Africa   Ignatia Khumalo, Grace Ngubeni</i>
S1-PP161	1449 – Application of polymethylethoxysiloxane-polyethylene glycol and silica sol in ethylcellulose in cement systems as modifiers <i>Neila Bekturganova, Kazakhstan   I.V. Kolesnikova, N.O. Samenova, A.S. Suvorov</i>
S1-PP162	1468 – Dye inclusion and aggregation control using stimuli-responsive copolymer with cyclodextrin hosts <i>Shintaro Kawano, Japan   Jenni Lie, Masahiro Muraoka, Motohiro Shizuma</i>
S1-PP163	1407 – Effect of metal-organic framework on hydrogen volume fraction in the oxygen-rich anode catalyst layer of proton exchange membrane water electrolyzer <i>Keun Hwan Oh, Korea, Rep.   Inku Kang, Won Jong Choi</i>
S1-PP164	1408 – Novel titin-inspired high-performance polyurethanes with self-healing and recyclable capacities based on dual dynamic network <i>Haopu Xie, China</i>
S1-PP165	1420 – Half-full filled aerogels with a 348% increment in energy absorption and a retained high electromagnetic shielding performance <i>Dongmei Hu, China</i>
S1-PP166	1440 – Effect of the cooling temperature on mechanical properties of PPS composites with high loading of GF for film capacitor housing <i>Seo Hwa Hong, Korea, Rep.   Pyoung Chan Lee, Beom Gon Cho</i>
S1-PP167	1640 – A study on the durability of metal-composite hybrid joints fabricated using insert injection molding in automotive driving environments <i>Yeong Won Lim, Korea, Rep.   Younki Ko, Jinho Park</i>
S1-PP168	1982 – Anode engineering with in-situ coated UiO-66-NH <sub>2</sub> on graphite for enhanced anode performance in lithium-ion battery <i>Noor Fazriyana Hamidon, Malaysia   Adam Azizi Abd Azis, Hayyiratul Fatimah Mohd Zaid, Nurul Akmaliah Dzulkurnanin, Khairulazhar Jumbri</i>
S1-PP169	2154 – Effect of molecular weight of polyethylene glycol as plasticizer on ionic conductivity of starch/LiClO <sub>4</sub> solid polymer electrolyte <i>Syuhada Mohd Tahir, Malaysia</i>
S1-PP170	1438 – FRET-assisted optical waveguide based on flexible molecular crystals <i>Shotaro Hayashi, Japan</i>
S1-PP171	1311 – Synthesis of locust bean gum/titanium dioxide hydrogel nanocomposites for methylene blue removal <i>Boitumelo Motshabi, South Africa</i>
S1-PP172	1256 – Atomistic insight into photovoltaic cells via 2D heterostructure engineering <i>Poomani Govender, South Africa   Francis Opoku</i>
S1-PP173	1818 – Mn(III) O <sup>n</sup> N <sup>o</sup> complexes as water-tolerant and environmentally benign catalysts for polyurethane foam synthesis <i>Wei Chieh Chang, Germany   Jaroslaw Mormul</i>

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Cluster I – Polymer & Materials	
Poster ID	Abstract ID – Title & Author
S1-PP174	1583 – UV-barrier poly (lactic acid) film with light-stabilised EU complexes as filler <i>Linze Liu, China   Tungalag Dong, Lijun Song, Xueyan Yun</i>
S1-PP175	1855 – Development of a natural rubber latex with palm-oil based non-isocyanate polyurethane-acrylate plasticizer <i>Ki Yan Lam, Malaysia   Choy Sin Lee, Yun Khoon Liew, Siang Yin Lee, Jia Yu Ng, Ying Hong Lim, Suvashyree A/P Rajagopal</i>
S1-PP176	2132 – Direct extraction of natural cannabinoids from hemp leaves and sustainable PLGA nanocarriers for enhanced CBD delivery <i>Sumontha Ramangkoon, Thailand</i>
S1-PP177	2185 – Repurposed dielectric-poled functional polymers for supercapacitor: A novel strategy for energy and environmental remediation <i>Priyanka Bhardwaj, India   Tridib Kumar Sinha</i>
S1-PP178	2472 – Bioactive wound dressing based on chitosan-gelatin nanofibers loaded with curcumin/ chrysin-functionalized metal-organic frameworks <i>Yoon Yee Then, Malaysia   Soo Ghee Yeoh, Norizah Abdul Rahman, Yun Khoon Liew, Wei Meng Lim, May Lee Low, Lai Chun Wong</i>
S1-PP179	2482 – Biowaste-derived composite membranes for oil/water separation <i>Nurul Amni Abdullah, Malaysia   Azizah Baharum, Rizafizah Othaman</i>
Cluster II – SDG3 Good Health & Well Being	
Poster ID	Abstract ID – Title & Author
S1-PP180	2501 – Synthesis and biological evaluation of novel coumarin derivatives bearing sulfonamide moiety as potent $\alpha$ -glucosidase inhibitors <i>Imran Syahrul, Malaysia</i>
S1-PP181	1101 – Phytochemicals as biopesticides for safer pest management and healthier ecosystems <i>Susanne Wiedmer, Finland   Rahim Ullah, Tehreem Ashraf, Kari Hartonen</i>
S1-PP182	1409 – Investigation of anti-diabetic potential using molecular simulation studies of dibenzylidene-cyclohexanone curcumin analogs <i>Ranti Kamila Habibie, Indonesia</i>
S1-PP183	1780 – Silica aggravates pulmonary fibrosis through disrupting lung microbiota and amino acid metabolites <i>Lin Tian, China</i>
S1-PP184	2257 – Synthesis of the chromone-thiosemicarbazone scaffold as promising $\alpha$ -glucosidase inhibitors: An in vitro and in silico approach toward antidiabetic drug design <i>Rima Alharthy, Saudi Arabia</i>
S1-PP185	2404 – Evaluation of the anti-HIV and anti-DENV activities of some triazenes <i>Matar Seck, Senegal   Seynabou Sokhna, Natacha Mérindol, Marie Pierre Girard, Insa Seck, Samba Fama Ndoye, Issa Samb, Marc Passet, Erwan Le Gall, Lionel Berthoux, Isabel Desgagné Penix</i>
S1-PP186	2304 – Synthesis, antimicrobial evaluation, ADMET prediction, molecular docking and dynamics studies of pyridine and thiophene moieties containing chalcones <i>Mohammad Mostafizur Rahman, Bangladesh   Sumita Saznin Marufa, S M Anyet Ullah Shohag, Hiroshi Nishino, Mohammad Sayed Alam, Md. Aminul Haque</i>
S1-PP187	2285 – Synthesis, antimicrobial and antioxidant evaluation with in silico studies of new thiazole Schiff base derivatives <i>Md Aminul Haque, Bangladesh   Md. Shahzada Shah, Mohammad Mostafizur Rahman, Md. Din Islam, Abdullah Al Macktuf, Junaid Uddin Ahmed, Hiroshi Nishino</i>

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### Cluster II - SDG7: Affordable & Clean Energy

Poster ID	Abstract ID — Title & Author
S1-PP188	2474 — Engineering nanocatalysts for hydrogen evolution: A focus on structure–activity relationships <i>Nosipho Moloto, South Africa   Siyabonga Nkabinde, Zakhele Ndala, Lineo Mxakaza, Victor Mashindi</i>
S1-PP189	2307 — Biodiesel additive formulation and its application <i>Noor Fitri, Indonesia   Khofifah, Irfan Aditya Dharma, Nurcahyo Iman Prakoso, Qomarudin Sukri</i>

### Cluster II - SDG13: Climate Action

Poster ID	Abstract ID — Title & Author
S1-PP190	1113 — Synthesis of sorbents for CO <sub>2</sub> capture from construction and demolition waste as raw materials <i>Gaukhar Yergazyeva, Kazakhstan</i>
S1-PP191	727 — The ethical dimension of green chemistry: Pathways to a sustainable future <i>Mani Omprakash Srivastava, India</i>

### Cluster III - Symposium on Chemical Safety and Security

Poster ID	Abstract ID — Title & Author
S1-PP192	1626 — Chlorine as a dual-use chemical: The role of chemical analysis in enhancing chemical security <i>Nurhazlina Hamzah, Malaysia</i>
S1-PP193	827 — Enhancing chemical security infrastructure at Benue State University, Makurdi, Nigeria <i>Linus Aposu, Nigeria</i>
S1-PP194	1489 — Responsible care and nicer globe driving excellence in chemical safety and security <i>Pranav Kumar Tripathi, India</i>
S1-PP195	1226 — Biosecurity concerns in chemical research: Threats and mitigation strategies <i>Prakash Balu, India</i>
S1-PP196	1340 — Assessment of chemical safety and security knowledge in Tunisian academic and research institutions: Identifying gaps and training needs <i>Amal Rabti, Tunisia   Younes Moussaoui, Ridha Ben Salem, Hatem Ben Romdhane</i>
S1-PP197	2035 — Chemical safety and security in Vietnam <i>Xuan Sinh Nguyen, Vietnam</i>

### Cluster I - Human Health & Well Being

Poster ID	Abstract ID — Title & Author
S1-PP198	1890 — Pitaya-oil blend powder with two improved fatty acid ratios: Development and characterization <i>Zhi Xuan Yuo, Malaysia   Thed Swee Tee</i>

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Cluster I – Analytical & Forensic	
Poster ID	Abstract ID – Title & Author
S2-PP01	1237 – The evolution of multidisciplinary research: A journey of analytical excellence at the department of chemistry Malaysia <i>Noor Azimah Sulaiman, Malaysia   Farah Idwani Abd Rahman, Fathiah Ahmad Zubaidi, Izharudin Che Amat, Wan Farah Nasuha Wan Iskandar</i>
S2-PP02	1492 – Development of surface plasmon interface excitation ion source <i>Yongyi Li, China   Qian An, Zhihui Huang, Xiangyu Wang, Zhenwei Wei</i>
S2-PP03	1537 – Quantitative analysis of seven anthelmintic drugs in livestock and fishery products using LC-MS/MS <i>Miok Kim, Korea, Rep.</i>
S2-PP04	1572 – Online monitoring of interface reactions by ambient mass spectrometry <i>Na Na, China   Yiyang Yin</i>
S2-PP05	2386 – Examination of photodynamic therapy by ambient mass spectrometry <i>Yiyang Yin, China   Jin Ouyang, Na Na</i>
S2-PP06	2420 – Improved efficiency and time consumption for lead analysis in gasoline by XRF <i>Mohd Izzat Bin Sulaiman, Malaysia   Muhamad Zaki Bin Ibrahim, Mohd Izzat Bin Sulaiman</i>
S2-PP07	1839 – Calcium nanomodulators for dual-mode cancer therapy via in situ mineralization and mitochondrial dysfunction <i>Yan Zhang, China   Yingxia Miao, Zongjin Qu</i>
S2-PP08	1474 – Smart connector, innovative solution to temperature calibration <i>Norliza Abd Hamid, Malaysia</i>
S2-PP09	1426 – Sensitive xanthine detection using xanthine dehydrogenase and $[\text{Os}(\text{bpy})_2\text{Cl}_2]^+$ with low interference <i>Taeyeon Yoo, Korea, Rep.</i>
S2-PP10	1315 – Modification of BDD surface by electrochemical reduction of diazonium salts for biosensor applications <i>Peter čambal, Czechia   Karmelita Hubčuková, Karolína Schwarzová Pecková</i>
S2-PP11	1448 – Boron-doped diamond nanomaterial for electroanalytical application <i>Prastika Krisma Jiwanti, Indonesia</i>
S2-PP12	1427 – Gold nanoparticle-mediated electron transfer from ammonia-borane to $\text{Ru}(\text{NH}_3)_6^{3+}$ for highly-sensitive biosensing <i>Seong Jin Park, Korea, Rep.</i>
S2-PP13	1417 – An amperometric glucose biosensor based on nanozyme and glucose oxidase modified electrode <i>Asta Kausaite Minkstimiene, Lithuania   Austėja Orintaite, Aiste Krikstaponyte, Almira Ramanaviciene</i>
S2-PP14	1424 – Highly sensitive electrochemical immuno-sensors using enzymatic precipitation of Prussian blue <i>Eunji Tak, Korea, Rep.</i>
S2-PP15	1478 – Screening synthetic cathinones mixed with instant coffee and fruit juice powder using hydrophobic carbon dot probes <i>Yao Te Yen, Taiwan, China</i>
S2-PP16	1502 – Laser-ablated nickel nanoparticles as an electrochemical platform for insulin detection <i>Renata Orinaková, Slovak Republic   Ivana Šišoláková, Martin Cvek</i>
S2-PP17	1842 – Near-infrared optogenetic upconversion nanoparticle complex for high-efficiency in split-Cas9 system for gene editing <i>Yan Zhang, China   Pengfei Shi, Yuqi Zhang</i>
S2-PP18	1696 – Challenges and strategies in developing electrochemical glucose biosensor based on gold nanostructures <i>Almira Ramanaviciene, Lithuania   Katazyna Blazevic, Kristina Sobol, Asta Kausaite Minkstimiene</i>
S2-PP19	1897 – Synthesis of molybdenum nitride and nickel nitride as microelectrode materials for hydrogen gas sensing <i>Saiful Arifin Shafiee, Malaysia</i>

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### Cluster I – Analytical & Forensic

Poster ID	Abstract ID – Title & Author
S2-PP20	2446 – Effect of pH on the formation of cyanide ion-curcumin colour complexes for detection of cypermethrin in treated wood <i>Tumirah Khadiran, Malaysia   Nuraqilah Mardhiah Samsul Alam, Mohd Amirul Mukmin Abdullah</i>
S2-PP21	1266 – Beyond standards: The advancements in calibration at the department of chemistry Malaysia <i>Irain Bahari, Malaysia</i>
S2-PP22	2571 – In-syringe dispersive micro solid phase extraction method for aflatoxins in peanut by HPLC <i>Nor Shifa Shuib, Malaysia   Bahruddin Saad</i>
S2-PP23	2587 – Colorimetric methods as green analytical chemistry tools in fuel and biofuel quality control <i>Paola Mello, Brazil   Alice P. Holkem, Gabrielle Dineck Iop, Flávia Fernandes De Oliveira, Rochele Sogari Picoloto, Edson Irineu Muler, Juliano Smanioto Barin</i>
S2-PP24	2645 – Rapid identification of antioxidants in biodegradable plastics by Surface-Assisted Laser Desorption Ionization Mass Spectrometry <i>Muyi He, China   Yun Ling, Chang Wang, Minli Yang, Wei Guo</i>
S2-PP25	2657 – A covalent organic framework-coated steel substrate as a mass spectrometric ionization source for the effective enrichment and rapid detection of phthalates in beverages <i>Minli Yang, China</i>
S2-PP26	2582 – Quantification of caffeine and trigonelline in Malaysian instant coffee products using validated RP-HPLC method <i>Lai Chun Wong, Malaysia   Lee Yen Mae, Cherlyn Cheng Chen Xi</i>
S2-PP27	2674 – Malaysian cocoa validation programme <i>Badrul Hisyam Zainudin, Malaysia   Suzannah Sharif, Mohamed Yusof Ishak, Izzreen Ishak, Chin Hui Han</i>
S2-PP28	2001 – Determination of ceramide and sphingoid bases in cosmetic products by GC-MS with trimethylsilylation derivatization <i>Shi Ngai Pang, Malaysia   Norsyariza Abd Aziz, Yee Chung Lee, Ng Khan Loon, Toh Mong Sah</i>
S2-PP29	2535 – Electrochemical detection of oxybenzone using polypyrrole-imprinted polymer modified screen-printed gold electrode <i>Mohd Azerulazree Jamilan, Malaysia   Vinotdhni Kanthymathynathan, Mohd Fairulnizal Md Noh, Faizatul Shimal Mehamod</i>
S2-PP30	1758 – Mid-infrared cavity ring-down spectroscopy for spectral reference data and ultra-trace detection of gas species <i>Michelle Bailey, United States   Eisen C. Gross, Joseph T. Hodges, Adam J. Fleisher</i>
S2-PP31	1827 – Detection of adulterant in <i>Aloe barbadensis</i> miller gel using Fourier Transform Infrared Spectroscopy (FTIR) with chemometrics <i>Khye Er Loh, Malaysia   Ghim Hock Ong</i>
S2-PP32	1921 – Aprepitant-loaded PLGA nanoparticles for lung cancer: Pharmaceutical and anti-cancer perspectives <i>A Alper Ozturk, Turkiye   Elif Kaya Tilki, Selin Engür öztürk</i>
S2-PP33	2211 – Analytical evaluation of antimicrobial properties of paraprobiotic <i>Lactobacillus rhamnosus</i> for cosmeceutical applications <i>A Alper Ozturk, Turkiye   Pervin Soyer</i>
S2-PP34	2356 – Geographical variation in phytochemical composition of <i>Eurycoma longifolia</i> root extracts and their anti-SARS-CoV-2 activity <i>Norazlan Mohamad Misnan, Malaysia   Lam Kok Wai, Maizatul Hasyima Omar, Mohd Ridzuan Mohd Abd Razak</i>
S2-PP35	1705 – Effect of different hydrophilic lipophilic balance value on stability of Sacha inchi oil emulsion <i>Nabilah Hauzin, Malaysia   Nurul Lina Mohamad, Ros Haniza Borhan</i>
S2-PP36	2774 – Experimental design, and analytical performance of activated carbon for microextraction of polycyclic aromatic hydrocarbons in <i>Camellia sinensis</i> <i>Wan Nazihah Wan Ibrahim, Malaysia   Nur Zabirah Zabi, Nordiana Suhada Mohamad Tahiruddin, Nurul Auni Zainal Abidin, Sazlinda Kamaruzaman, Noorfatimah Yahaya, Sheela Chandren, Nursyamsyila Mat Hadzir</i>

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Cluster I – Cheminformatics	
Poster ID	Abstract ID – Title & Author
S2-PP37	2076 – Integrating machine learning and in silico approaches to identify novel Innexin-2 hemichannel inhibitors for antiparasitic drug development <i>Yorley Duarte, Chile   Sbarbaro Christopher, Seron Nicolás, Loncón Macarena, Márquez Valeria</i>
S2-PP38	2179 – An integrated strategy of UHPLC-ESI-MS/MS combined with bioactivity-based molecular networking for identification of dengue activity from <i>Brucea javanica</i> (L.) Merr <i>Nor Syaidatul Akmal Mohd Yousof, Malaysia   Mohd Ridzuan Mohd Abdul Razak, Nor Hadiani Ismail</i>
S2-PP39	2362 – Platforms for automated storage and analysis of chemical data <i>Philippe Gantzer, Japan   Yuuya Nagata, Pavel Sidorov</i>
S2-PP40	2591 – Machine learning-based prediction of compound aqueous solubility using molecular descriptors and fingerprints <i>Chian Ying Teo, Malaysia   Wong Zi Yang, Pravina A/P Ellambarathi, Fong Pui Kwan</i>
S2-PP41	2245 – Preliminary in silico studies of phytochemicals from selected herbal plants as potential Japanese encephalitis virus inhibitor <i>Afiq Azil, Malaysia</i>
Cluster I - Education & Public Understanding	
Poster ID	Abstract ID – Title & Author
S2-PP42	1513 – Integrating education for sustainable development into a chemistry-centered STEM initiative: A case study of the 'Journey of Plastic' in Vietnam <i>Xuan Phu Pham, Vietnam</i>
S2-PP43	1579 – Fostering systems thinking in high school chemistry through card-based learning: A case study in Vietnam <i>Tuan Nguyen Minh, Vietnam   Tai Nguyen Minh, Nhu Do Hien</i>
S2-PP44	2068 – Building card set for chemical education <i>Israel Lopez, Mexico   Arlethe Y. Aguilar Villarreal, Eugenio Hernández Fernández, Alejandro Vázquez, Carlos Puente</i>
S2-PP45	1927 – Enhancing stereochemistry education through inquiry-based learning and concrete molecular models <i>Chun Wai Ip, Hong Kong, China   Ignatius Ip, Elvis Wang Hei Ng</i>
S2-PP46	1745 – “Chemtastic biodiversity!” Teaching and learning chemistry from, with and for biodiversity <i>Tejas Joshi, India</i>
S2-PP47	2577 – Technology enhanced experiment based learning in surface chemistry lectures <i>Swee Yee Chin, Malaysia   Teo Chian Ying</i>
S2-PP48	1906 – The effect of chemical experiments on learning satisfaction of 10 grade students <i>Chanthirit Son, Cambodia</i>
Cluster I – Environmental	
Poster ID	Abstract ID – Title & Author
S2-PP49	1625 – Effect of supercritical solvent media on the deoxygenation of palmitic acid over Ni-based catalyst <i>Wajahat Waheed Kazmi, Saudi Arabia   Faysal M. Al Khulaifi</i>
S2-PP50	1829 – <i>Saccharomyces cerevisiae</i> immobilized zirconium modified cellulose for phosphate sequestration from water <i>Parvathi R, India   K. Krishna Priyanka, M. Christina Nilavu, Sathyapaul A. Singh, Vidya Rajesh, N. Rajesh</i>
S2-PP51	2026 – Direct Z-scheme MoS <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> CO <sub>3</sub> nanocomposite for photocatalytic degradation of methylene blue <i>Kian Mun Lee, Malaysia   Chin Wei Lai, Mohd Rafie Johan, Joon Ching Juan</i>
S2-PP52	2084 – The ligand conjugation/electron-donating effect on Cu(I) elevates the conversion of carbon dioxide to ethylene <i>Youchao Song, China</i>
S2-PP53	2559 – Polybutylene terephthalate-derived metal-organic frameworks as adsorbents for water purification <i>Hiroki Konno, Japan   Koki Satoh, Shintaro Iwaya, Momoka Someya</i>

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Cluster I – Environmental	
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S2-PP54	2578 – Sustainable synthesis of functionalised carbon quantum dots for copper ion detection <i>Tong Ling Tan, Malaysia   Chuah Jia Syuen, Lai Jun Jie, Yong See Wei, Suraya Abdul Rashid</i>
S2-PP55	2694 – Comparison between single-chamber and dual-chamber photocatalytic fuel cell on synthetic dye removal efficiency and power generation <i>Meng Guan Tay, Malaysia   Jia Chee Liu, Antonio Choon Kiat Anak Niang</i>
S2-PP56	1850 – Synthesis, characterization, corrosion inhibition, and mechanistic studies of Nitrobenzaldehyde Meldrum's acid in 1M HCl <i>Nur Nadia Dzulkifli, Malaysia   Sheikh Ahmad Izaddin Sheikh Mohd Ghazali, Fazira Ilyana Abdul Razak, Suhaila Sapari</i>
S2-PP57	1923 – Nitrite determination in water samples based on electrochemical method using diazotization coupling reaction with Cefixime <i>Stela Georgieva, Bulgaria   Artem Bezfamilnii, Petar Todorov</i>
S2-PP58	1891 – Efficient self-catalytic reactors for catalytic C1 molecular conversion <i>Hao Huang, Japan</i>
S2-PP59	2539 – Magnetic field-assisted CO <sub>2</sub> reduction: Modulating magnetic moments and molecular bonding for enhanced catalysis <i>Shilin Wei, China</i>
S2-PP60	1903 – Membranes functionalization with non-volatile solvents for gas separation – DES and ILS as a sustainable approach <i>Pedro Carvalho, Portugal   Beatriz F. Esteves, Bruna R. M. Ferreira, Isabella Souza, Filipe H. B. Sosa, João Peres Ribeiro</i>
S2-PP61	1985 – Adsorption isotherm for CO <sub>2</sub> capture using manganese oxide synthesized via precipitation method: The effect of adsorbent activation <i>Azizul Hakim Lahuri, Malaysia   Muhammad Azli Yusof Nor Azman, Syawal Mohd Yusof, Siti Sarahah Sulhadi, Salma Samidin, Nur Farhana Jaafar, Norazzizi Nordin, Norliza Dzakaria</i>
S2-PP62	2325 – Variations in soil organic matter composition of tropical peatland in Sarawak, Malaysia using <sup>13</sup> C NMR spectroscopy <i>Lulie Melling, Malaysia   Faustina E. Sangok, Akira Watanabe, Nur Azima Busman</i>
S2-PP63	2761 – Zinc oxide nanostructure and defect modulation for integrated energy and water applications <i>Choon Yian Haw, Malaysia   Gan Wee Chen, Liow Jo Ey, Lim Kok Loong, Goh Jin He, Tan Kar Woon</i>
S2-PP64	2762 – Bifunctional phase-engineered NiSe <sub>2</sub> /Ni <sub>3</sub> Se <sub>4</sub> @NiCoFe-LDH/Nickel foam nanosheets electrocatalyst for efficient hydrogen production and urea oxidation <i>Nabilah Saafie, Malaysia   Wee Jun Ong</i>
S2-PP65	2766 – Revolutionized quantum efficiency of graphene oxide based composites for organic pollutants remediation <i>Siti Nor Atika Baharin, Malaysia   Syafarina Farisa Sateria, Ahmad Husaini Mohamed, Kavirajaa Pandian Sambasevam, Zulhatiqa Zolekafeli</i>
S2-PP66	2781 – Phytochemical analysis, antioxidant and antibacterial activity of ecoenzyme soap from rock melon ( <i>cucumis melo</i> L.) Peels <i>Wan Zuraida Wan Mohd Zain, Malaysia   Nur Sakinah Asyaa, Amyra Hazwani Ghazalia, Siti Alwani Ariffin, Afiqah Mohammadc, Neneng Windayanid</i>
S2-PP67	2789 – Trap inlaid cationic hybrid composite material for efficient segregation of toxic chemicals from water <i>Sahel Fajal, India   Writakshi Mandal, Samraj Mollick, Yogeshwer D. More, Arun Torris, Satyam Saurabh, Mandar M. Shirolkar, Sujit K. Ghosh</i>
Cluster I – Green Chemistry	
Poster ID	Abstract ID – Title & Author
S2-PP68	2178 – Synthesis of environmentally friendly cationic surfactant from hemp seed oil <i>Nergiz Cengiz, Turkiye   Ismail Kasapoğlu</i>

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Cluster I – Green Chemistry	
Poster ID	Abstract ID – Title & Author
S2-PP69	1229 – The ion behavior and storage mechanism of 2D MoO <sub>3</sub> layer structure in an air-stable hydrated eutectic electrolyte for aluminum-ion energy storage <i>Jin Ming Chen, Taiwan, China</i>
S2-PP70	1247 – Electrosynthesis of benzimidazole-fused quinazolinones via a cascade addition-desulfurization-cyclization process <i>Thu Khuyen Nguyen, Thailand</i>
S2-PP71	1403 – Small-scale titration as a green chemistry-based alternative: A comparative study with conventional methods <i>Marc Kye Peng Tang, Malaysia   Sheau Huey Chong</i>
S2-PP72	2548 – Amorphous-crystalline interface induced internal electric fields for electrochromic smart window <i>Shi Zhang, China</i>
S2-PP73	1326 – Study on the selectivity of TOPO based DESS for PGMS extraction <i>Lingen Guo, Japan   Yutaro Takaya, Chiharu Tokoro</i>
S2-PP74	1400 – Dithiocarbamate-functionalized cellulose for effective separation of lead from chelator-washed soil effluents <i>Pranta Sarker, Japan</i>
S2-PP75	1684 – Synthesis, evaluation as herbicides and ecotoxicity of new cyclopeptides with inhibitory activity on cyanobacteria <i>Gloria Lourdes Serra Lemes, Uruguay</i>
S2-PP76	1241 – Greener and rapid magnetic solid phase microextraction method using Fe <sub>3</sub> O <sub>4</sub> @Al <sub>2</sub> O <sub>3</sub> /AC for chromatographic determination of neonicotinoid pesticides in vegetable oils <i>Masixole Sihlahla, South Africa   Philiswa Nomngongo, Nomvano Mketi</i>
S2-PP77	1508 – Adsorption of heavy metals from acid mine drainage using poly (hydroxamic acid) ligand <i>Nozipho Mabaso, South Africa</i>
S2-PP78	1517 – Pinecone-derived adsorptive bio-nanocomposites as enhancers for mono- and co-doped amorphous TiO <sub>2</sub> in wastewater remediation application <i>Kgomotso Mtshatsheni, South Africa</i>
S2-PP79	1548 – Synthesis of magnetite (Fe <sub>3</sub> O <sub>4</sub> ) nanoparticles functionalised with cyclodextrin via polydopamine coating for the remediation of tetracycline and ciprofloxacin from aqueous solution <i>Agnes Pholosi, South Africa   Emmanuel Adisa, Samson Akpotu, Vusumzi Pakade</i>
S2-PP80	1729 – Investigation of the effectiveness of food grade reagents in the extraction of cellulosic plant fibers <i>Jennifer Antonio, Philippines</i>
S2-PP81	1442 – Sustainable analytical techniques: Comparing small-scale and conventional UV-Vis methods for chromium (III) nitrate analysis <i>Sheau Huey Chong, Malaysia   Jia Wei Wong</i>
S2-PP82	2160 – Sodium rich layered oxide cathodes for high capacity sodium-ion batteries <i>Oliver Thomas, United Kingdom   Robert A House, Peter G Bruce</i>
S2-PP83	1714 – Highly efficient catalytic preparation of bio jet-fuel precursors by amino-functionalized basic $\gamma$ -Al <sub>2</sub> O <sub>3</sub> <i>Yuanyuan Wang, China</i>
S2-PP84	2690 – Nucleophilic activation of elemental chalcogenes in the presence of ionic liquids <i>Natalia Tarasova, Russian Federation   Efrem Krivoborodov, Samson Muradyan, Darya Andriyanova</i>
S2-PP85	2788 – Quantum chemical investigations into the structural and spectroscopic properties of choline chloride-based deep eutectic solvents <i>Ashrafur Hasan, Bangladesh   Ismail M. M. Rahman, M. Rithoan Hossain, Faisal Islam Chowdhury</i>
Cluster I - Human Health & Well Being	
Poster ID	Abstract ID – Title & Author
S2-PP86	2039 – <i>Physalia physalis</i> jellyfish components: Pepsin-solubilized collagen characterization and polyphenols composition <i>Ines Ferreira, Portugal   Carla Pires, Andreia Silva, Narcisa Bandarra, Amélia Rauter, Rosário Bronze</i>

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Cluster I - Human Health & Well Being	
Poster ID	Abstract ID – Title & Author
S2-PP87	1233 – Carnosine: A promising champion molecule for combating type 2 diabetes <i>Charlie Lavilla, Philippines</i>
S2-PP88	1371 – Toxicological evaluation of Cucur atap extract in rats: A fixed-dose study under OECD Guideline 420 <i>Bee Ping Teh, Malaysia   Azlina Zulkapli, Siti Zubaidah Che Lem, Suganthi Jeyabalan, Maizatul Hasyima Omar, Amirrudin Muhammad, Tavinraj Rajendran, Nurulfariza Ramli, Wan Mohamad Adham Afiq Wan Zainuzzaman, Zahra Afni Ahmad, Siau Thien Chen, Dalnitha Lea Nichol, Muhd Zaim Mohamad Akhir, Voon Yee Lin, Mohd Ridzuan Mohd Abd Razak, Norizah Awang, Ami Fazlin Syed Mohamed</i>
S2-PP89	2495 – Tiny droplets, big impact: Nanoemulsion of lutein and zeaxanthin for vision protection <i>Nicholas Tung, Malaysia   Lai Chun Wong, Lim Chaw Jiang, Lim Wei Meng, Liew Yun Khoon, Cheong Kok Whye</i>
S2-PP90	1337 – Photocytotoxic evaluation and isolation of chemicals from <i>Strobilanthes crispata</i> (L.) Blume leaf extracts against skin cancer cells <i>Chee Shien Chen, Malaysia   Loke Chui Fung, Poh Tze Ven, Lai Oi Ming, Tan Siow Ping</i>
S2-PP91	1405 – Development of hypoxia-activated prodrugs of second generation analogues of Bedaquiline for treatment of latent tuberculosis <i>Christine Kim, New Zealand   Jiney Jose, Michael Hay, Peter Choi</i>
S2-PP92	2765 – Natural products from the edible seaweed <i>Halymenia hawaiiensis</i> <i>Leng Chee Chang, United States</i>
S2-PP93	2259 – From synthesis to human health: Exploring quinazoline derivatives for multitarget neurological and infectious disease therapy <i>Nishtha Nishtha, India   Manish Kumar, Neelam Sharma, Vijay Sharma</i>
Cluster I - Inorganic & Bioinorganic	
Poster ID	Abstract ID – Title & Author
S2-PP94	2176 – The chemistry of 10-vertex electron-rich carborane clusters <i>Vlastimil Nemeč, Czechia   Jan Vrana, Josef Holub, Maksim A. Samsonov, Ales Růžicka</i>
S2-PP95	1304 – Organonickel complexes based on the alkyl-chain effect for highly efficient solar-driven evaporation and electricity <i>Jen Shyang Ni, Taiwan, China</i>
S2-PP96	1297 – Chiral-metal organic frameworks (CMOF) based circularly polarized flexible spin light emitting diodes <i>Mujahid Mustaqeem, Saudi Arabia   Mohammed Ashraf Gondal</i>
S2-PP97	2361 – Exploring novel zinc complexes with picolinato derivatives: Synthesis and analysis <i>Misel Hozjan, Slovenia</i>
S2-PP98	2096 – Controllable syntheses of a two-dimensional coordination framework and its discrete heteroleptic building blocks <i>Thanh Nhan Nguyen, Korea, Rep.   Hyojong Yoo</i>
S2-PP99	974 – Two-dimensional hexaaminophenyl conductive metal-organic framework for high-performance lithium-sulfur batteries <i>Yongsheng Fu, China</i>
S2-PP100	990 – Synergistic solvent extraction of lanthanoids with traditional ligands (4-acylpyrazolone and bidentate nitrogen bases) in a nontraditional diluent confirmed by NMR <i>Maria Atanassova Petrova, Bulgaria</i>
S2-PP101	1107 – Synthesis and characterisation of dipyrrolic ligands and their metal complexes <i>Sadhna Mathura, South Africa</i>
S2-PP102	2484 – Processing of metal-organic frameworks for arsenic removal from petroleum products <i>Kanokwan Kongpatpanich, Thailand   Phakawan Thinsongnoen, Kunlanat Sriphumrat</i>
S2-PP103	2521 – Aerobic photodecomposition of pyrene-based metal-organic framework NU-1000 <i>Wenyi Zeng, Singapore</i>

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Cluster I - Inorganic & Bioinorganic	
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S2-PP104	2580 – Quantitative study on the influence of bromide ions toward the reduction kinetics for size-tunable palladium nanocubes <i>Yilin Zhao, China</i>
S2-PP105	1739 – Dual targeting of A549 lung cancer spheroids using ruthenium (II) polypyridyl complex and PARP inhibition <i>Haslina Ahmad, Malaysia</i>
S2-PP106	2147 – Sol-gel-derived bioactive glass as a reference standard for in vitro apatite formation: A comparison with melt-quench glass <i>Usanee Pantulap, Thailand</i>
Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID – Title & Author
S2-PP107	1078 – Synthesis and biological evaluation of alkali metal salts of tryptanthrin-6-oxime <i>Anastasiia Kovrizhina, Russian Federation   Khlebnikov A.I., Plotnikov E.V.</i>
S2-PP108	1455 – Mechanism of action and catalytic efficiency of dicyanopyrazine photoredox catalyst <i>Miroslav Ludwig, Czechia   Zuzana Buresova, Monika Grygarova, Pavlina Perglova, Filip Bures</i>
S2-PP109	1069 – Design and synthesis of novel $\alpha$ -Mangostin's Analogues as potential neuroprotective agent <i>Kooi Yeong Khaw, Malaysia</i>
S2-PP110	1157 – Piperidine-aromatic amine hybrids in immunotherapy approaches <i>Aigul Malmakova, Kazakhstan   Yu V.K., Baktybayeva L.K.</i>
S2-PP111	2319 – Thiazole-Schiff base containing thiosemicarbazones: Synthesis, antimicrobial and antioxidant activity with ADMET prediction, molecular docking study and dynamics simulation <i>Md Mizanur Rahman, Bangladesh   Mohammad Mostafizur Rahman, Md. Aminul Haque</i>
S2-PP112	2270 – A novel hydroxyphosphonates as stimulators of plant growth <i>Aigul Malmakova, Kazakhstan   Otegulova K.B., Nurlanuly N.</i>
S2-PP113	1348 – Novel antiparkinsonian agents based on Prottremine <i>Nikolai Li Zhulanov, Russian Federation   Alexandra Podturkina, Anastasia Filippova, Alla Pavlova, Konstantin Volcho, Tatyana Tolstikova, Nariman Salakhutdinov</i>
S2-PP114	1314 – Iridium-catalyzed decarbonylative annulation of benzoic pivalic anhydrides with alkynes <i>Takanori Matsuda, Japan   Koichiro Yamada, Yixuan Lin, Yuki, Ito, Hirotsugu Suzuki</i>
S2-PP115	2710 – Predominant compounds of <i>Neolitsea mollissima</i> essential oils from trail to Gunung Tanggung (Pahang and Perak border), Malaysia <i>Nor Azah Binti Mohamad Ali, Malaysia   Saidatul Husni Saidin, Mohd Shafik Yuzman, Nurliyana Abdul Latif</i>
S2-PP116	2543 – Perfluoro alkyl chain influence on photophysical properties and molecular packing of fluorophores <i>Shirisha Chettukindhi, Taiwan, China</i>
S2-PP117	1306 – Palladium-mediated site-selective C–H bond activation and arylation of 9(10H)-acridinone and mechanistic investigation: Stoichiometric and catalytic approaches <i>Jean Ho Chu, Taiwan, China   Jin Lee, Guan Wei Liao, Lin En Zeng, Chien Wen Lin, Ching Hung Cheng, Wen Chieh Lin, Li Ching Shen, Guo Feng Chen, Rong Chang, Andrew C. H. Sue</i>
S2-PP118	1309 – Synthesis of coumarinolignoid sapiumin C analogs utilizing rhodium catalyzed arylation <i>Irene Kim, New Zealand   Patrick Pan, Lisa Pilkington, David Barker</i>
S2-PP119	1514 – Copper-catalysed synthesis of propargyl alcohol and derivatives from acetylene and other terminal alkynes <i>Leo Saputra, Germany</i>
S2-PP120	1691 – Ladder-type fused benzodithiophene-based non-fullerene acceptors for high-efficiency organic solar cells <i>Longyun Shi, Korea, Rep.</i>

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Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID – Title & Author
S2-PP121	1828 – Phytochemical and pharmacological investigation of mangrove plant species from Sine-Saloum (Senegal) using ethnopharmacological approach and molecular networking <i>Djibril Fall, Senegal   Cheikhouna Gaye, Yoro Tine, Elnur Garayev, Anne Bousquet Mélou, Béatrice Baghdikian</i>
S2-PP122	2671 – Molecular mechanism of differential alteration of N-glycans in frozen-thawed meat <i>Chang Wang, China</i>
S2-PP123	1362 – Isolation of carbazole alkaloids from <i>Murraya koenigii</i> leaves <i>Viven Ting, Malaysia</i>
S2-PP124	1382 – Pancreatic lipase inhibitory effects of <i>Murraya koenigii</i> root extracts <i>Wai Ting Chong, Malaysia   Liew Sook Yee, Tan Siow Ping</i>
S2-PP125	332 – Elucidation of the electrophilic potential of some biologically active Michael receptor molecules derived from plants <i>Basim Asghar, Saudi Arabia   Nizar El Guesmi</i>
S2-PP126	2152 – Synthesis of dihydropyrimidine - Triazole, pyrazolo pyridines and N-heterocycle chalcones derivatives as cancer MDR agents <i>Yeray Rodríguez, Chile   Efraín Polo Cuadrado, Glaucio Valdameri</i>
S2-PP127	1393 – Structure-activity relationship of carbazole alkaloids isolated from <i>Murraya koenigii</i> against cancer cell lines <i>Ying Xin Chew, Malaysia   Mohd Azlan Nafiah, Siow Ping Tan</i>
S2-PP128	1397 – Mechanochemical synthesis of $\alpha,\beta$ -dibromoketones using pyridinium tribromide <i>Wei Jin Chang, Malaysia   Sook Yee Liew, Thomas Kurz, Siow Ping Tan</i>
S2-PP129	995 – In vitro antioxidant, anti-inflammatory, anti-cancer and in silico molecular docking studies of <i>Xanthosoma sagittifolium</i> (L.) Schott (yellow flesh cultivar) <i>Rachael Ekong, Nigeria</i>
Cluster I - Physical & Biophysical	
Poster ID	Abstract ID – Title & Author
S2-PP130	1550 – Interfacial accumulation of polymers in emulsified aqueous multiphase systems <i>Daniel Pliego Sosa, Netherlands</i>
S2-PP131	1821 – Studying multiphase reactions in microdroplets via single particle spectroscopic platform <i>Yuan Pin Chang, Taiwan, China</i>
S2-PP132	2169 – Host-guest complexation of Dapivirine and Cucurbit[n]uril: Insight from molecular dynamics simulation <i>Nadtanet Nunthaboot, Thailand   Jirasak Thipphichai, Chananya Ratchakom, Thitiya Boonma</i>
S2-PP133	2440 – Reaction dynamics in solution probed by femtosecond infrared spectroscopy <i>Manho Lim, Korea, Rep.</i>
S2-PP134	2164 – Computational screening of novel inhibitors from an in-house library targeting the ligand binding domain of human androgen receptor <i>Bodee Nutho, Thailand</i>
S2-PP135	2770 – Photophysical properties of 3,3'-diethylthiacarbocyanine iodide (Cy3) fluorescent molecular rotor in deep eutetic solvents and organic molecular solvents <i>Mohd Azizi Bin Nawawi, Malaysia   Putri Nurfarrah Syofea Rosllan, Norhafizah Jaafar, Muhammad Arif Danial Zazuli</i>
S2-PP136	1191 – Molecular origin and quenching mechanism of photoluminescent carbon quantum dots from ammonium citrate <i>Ryan Asri Wan, Saudi Arabia   Asem Alenaizan, Mohammad N. Siddiqui, Almaz S. Jalilov</i>

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Cluster I – Polymer & Materials	
Poster ID	Abstract ID – Title & Author
S2-PP137	2433 – Smart polymers in drug delivery: Advancing precision medicine for safer and targeted therapeutics <i>Zainab Ngaini, Malaysia   Vannessa Lawai</i>
S2-PP138	1948 – Sunlight-driven green approaches to construct degradable hydrogel-based wearable sensors <i>Jun Hu, China   Guo Dong Fu</i>
S2-PP139	1945 – Bio-based supramolecular photochromic coating <i>Yuting Tian, China   Guodong Fu</i>
S2-PP140	2025 – Yolk-shell Fe <sub>3</sub> O <sub>4</sub> @P(DVB-co-MAA) magnetic microspheres loaded with Ag nanoparticles as high-efficiency catalysts for nitroaromatic compound reduction <i>Xinyu Chen, China</i>
S2-PP141	2056 – Structure-engineered microspheres for enhanced sensitivity in luminescent oxygen channeling immunoassays <i>Yingrui Nie, China   Yong Jiang</i>
S2-PP142	2063 – Synthesis, characterisation, and evaluation of palm oil-based polyesteramide for carotene solid dispersion <i>Nagaloshni Pragalatha, Malaysia</i>
S2-PP143	1955 – A pH-responsive covalent organic network: Morphology change leads to capture and removal of phosphate ions from water <i>Gunanka Hazarika, India</i>
S2-PP144	2184 – Eliminating triboelectric effects in flexible devices: A strategic approach for antistatic coatings and tribo-less piezoelectric response <i>Anshika Passi, India   Tridib Kr. Sinha</i>
S2-PP145	2295 – Selective ion-transporting polymeric layers for advanced zinc ion batteries <i>Yanghyun Cho, Korea, Rep.   Jongha Hwang, Dong Ok Shin, Minsu Gu, Woo Jin Song</i>
S2-PP146	2359 – PLLA-based modified food packing materials <i>Jiahui Du, China   Xueyan Yun, Tungalag Dong</i>
S2-PP147	2320 – Initiator-free crosslinking process without organic solvent for lithium metal batteries based on polymer electrolyte <i>Chi Keung Song, Korea, Rep.   Sanghyun Park, Woo Jin Song, Kyung Jin Lee</i>
S2-PP148	2402 – Dynamic crosslinked self-healing binder for high-performance silicon anodes <i>Minju Song, Korea, Rep.</i>
S2-PP149	1694 – Sol-gel polymerization of molecularly imprinted o-cresol: Preparation, characterization and application <i>Mohamad Raizul Zinalibdin, Malaysia   Norshahida Samsuri, Ahmad Huzairan Abdul Ghafar, Suraini Mat Yasin</i>
S2-PP150	1444 – Synthesis, photophysical and electrochemical properties of Di(1-benzothieno)[3,2-b:2',3'-d]pyrrole derivatives with D-π-D type structural configuration <i>Chihjung Hsu, Taiwan, China   Yung Sheng Yen</i>
S2-PP151	1252 – Proposing the imprinted PENA modified electrode for specific determination of urinary uric acid concentration <i>Hsiao Yu Cheng, Taiwan, China   Mei Jywan Syu</i>
S2-PP152	1330 – Mimicking human thinking for discovering new materials and yielding new knowledge in an emerging field <i>Shuangyan Tian, China   Fanyang Mo, Ting Lei</i>
S2-PP153	1329 – Unveiling the potential of BmImTFSI-functionalized poly (acrylic acid)-based ionogel polymer electrolyte for electrical double layer capacitor (EDLC) application <i>Kar Kien Ong, Malaysia   L.P. Teo, Chiam Wen Liew</i>
S2-PP154	1559 – Preparation of stimuli-responsive hydrogel particles and adsorption/desorption of organic dye <i>Hyo Takahashi, Japan   Masahiro Muraoka, Motohiro Shizuma, Shintaro Kawano</i>

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Cluster I – Polymer & Materials	
Poster ID	Abstract ID – Title & Author
S2-PP155	1496 – Cyanate resin composite material <i>Yijia Zhou, China</i>
S2-PP156	1500 – Self-healing hydrogels printed by photoinduced 3D printing techniques for biomedical applications <i>Maria D'aloia, Italy   Ignazio Roppolo, Francesca Frascella</i>
S2-PP157	1872 – Comparison of nanocellulose extracted from oil palm mesocarp fibre using acid hydrolysis and TEMPO oxidation methods <i>Jo Sze Lean, Malaysia   Jeck Fei Ng, Siau Hui Mah, Chai Yee Chin, Harrison Lik Nang Lau, Soek Sin Teh</i>
S2-PP158	1689 – Low dark current organic X-ray sensors based on a medium bandgap polymer donor <i>Hyeseong Ko, Korea, Rep.</i>
S2-PP159	1581 – Photocurable polymers and their interaction with terahertz radiation: A pathway to 4D printable polymeric meta-devices for 6G technologies <i>Beatrice Tosetto, Italy   Fabrizio Candido Pirri, Giancarlo Rizza, Ignazio Roppolo</i>
S2-PP160	1942 – Prediction on structural properties and CO <sub>2</sub> solubility in MIL-88@PEO as thin mixed matrix membrane using MD simulation <i>Mohamad Adil Iman Ishak, Malaysia   Khairulazhar Jumbri, Hayyiratul Fatimah Mohd Zaid</i>
S2-PP161	2007 – Thermoelectric properties enhancement of Bi <sub>2</sub> Te <sub>3</sub> thin film via in doping <i>Angella Thng, Malaysia   Muhammad Ubaidah Syafiq Mustaffa, Nurfarhana Ahmad Musri, Puvaneswaran Chelvanathan, Mohd Sukor Su'ait, Nadhrah Md Yatim, Assayidatul Laila Nor Hairin</i>
S2-PP162	2312 – Interface modification and structural control of tunnel layer/active layer in polymer-grafted gold nanoparticle floating-gate memory <i>Kailin Tang, China</i>
S2-PP163	1414 – Mechanical properties of anthracene-based host-guest complexes <i>Yuto Hino, Japan</i>
S2-PP164	1487 – Synthesis of $\pi$ -conjugated molecular co-crystal toward anisotropic photon transport <i>Mahiro Nakabayashi, Japan   Matsuo Takumi, Shotaro Hayashi</i>
S2-PP165	1411 – Fluorinated D-A-D type $\pi$ -conjugated molecular crystals: 2D elasticity and active optical waveguide <i>Keigo Yano, Japan</i>
S2-PP166	2269 – Improved polar VOC detection with an inorganic-organic hybrid chemiresistive sensor: Examining sensitivity, selectivity, and environmental effects <i>Shreshth Dobriyal, India   Tridib Kumar Sinha</i>
S2-PP167	1201 – Nanoarchitectonics of indium sulfide/exfoliated graphite/multiwalled-carbon-nanotubes-based nanocomposite in benzyl alcohol and its effect on aqueous symmetrical supercapacitors <i>Jian Hong Liew, Malaysia   Mui Yen Ho, Jyh Tsung Lee, Teck Hock Lim</i>
S2-PP168	1344 – Synthesis, characterization, and application of magnetic S/Fe <sub>3</sub> O <sub>4</sub> (SuFeO) nanocomposite for heavy metal capture and antimicrobial activity <i>Yong Hong Shiow, Malaysia   Khatijah Binti Mohamad Yusoff, Vuanghao Lim, Joon Ching Juan, Rafidah Binti Zainon, Chui Fung Loke, Teck Hock Lim</i>
S2-PP169	1433 – Nanofloating arrays of ordered assembled gold nanoparticles modified with polymer/azobenzene dual-ligands <i>Liangzhu Jiang, China</i>
S2-PP170	1859 – Sustainable surfactant-modified montmorillonite: A plant-based alternative to conventional organoclays <i>Nur Aliaa Zulkefli, Malaysia   Mohd Aidil Adhha Abdullah, Mazidah Mamat, Mohamad Khairi Mohd Zainol, Norizah Binti Mhd Sarbon, Azlin Fazlina Bt Osman</i>
S2-PP171	1812 – Synthesis and characterization of nanocomposites based on spinel ferrite oxide and polypyrrole Zn <sub>0.3</sub> Mg <sub>0.7</sub> Fe <sub>2</sub> O <sub>4</sub> @PPy for active material for industrial applications <i>Guene Makhtar, Senegal   Modou Gningue Diop, Mamadou Gueye, Momath Lo</i>
S2-PP172	1746 – Innovative intelligent food packaging incorporating $\kappa$ -carrageenan/polyaniline films <i>Kar Yan Fong, Malaysia   Ishak Ahmad, Sook Wai Phang</i>

## Poster Presentation Session 2

Mounting Time: 17th July 2025 from 0900 hrs

Venue: Banquet Hall, Level 3

Dismantle Time: 18th July 2025 at 1600 hrs



Cluster II – SDG3 Good Health & Well Being	
Poster ID	Abstract ID – Title & Author
S2-PP173	2507 – Exploring the natural product of therapeutic potential of kaffir lime from the insights of LC-MS orbitrap analysis perspective <i>Kathleen J Jalani, Malaysia   Fatimah Salim, Nurulfazlina Edayah Rasol, Adiez Sapura Azmi</i>
S2-PP174	2500 – Chemical profiling and quantification of selected anthraquinones from the roots extracts of <i>Rennellia borneensis</i> Baill <i>Nurunajah Ab Ghani, Malaysia   Nur Afiqah Nadhiah Ammar Rushdan, Nurufazlina Edayah Rasol, Wan Mohd Nuzul Hakimi W Salleh, Adlin Afzan, Monica Suleiman</i>
S2-PP175	2572 – Stilbenes from <i>Hopea ferrea</i> of limestone forests: A promising source of antibiofilm agents <i>Nurul Izzah Mohd Sarmin, Malaysia</i>
S2-PP176	2573 – Chemical profiling and antimicrobial evaluation of secondary metabolites from arctic fungi induced by epigenetic modifiers <i>Siti Hajar Sadiran, Malaysia</i>
S2-PP177	2687 – LC-MS/MS-Driven compound annotation and isolation from Malaysian <i>Uncaria</i> species <i>Fatimah Salim, Malaysia   Nursyaza Husna Shaharuddin</i>
S2-PP178	2041 – Natural products as potential inhibitors of ALK5 against idiopathic pulmonary fibrosis: In silico docking analysis <i>Bandar Ali A Alyami, Saudi Arabia   Ahmed K. Hamdy, Al Montaser Bellah H. Ali</i>
S2-PP179	2079 – GCMS-based phytochemical analysis of <i>Glycosmis pentaphylla</i> leaves: In-vitro assessment of antidiabetic, antioxidant, anti-inflammatory, and anticancer properties against MDAMB-231, A549, and HEP-G-2 cancer cell lines <i>Yahya Alqahtani, Saudi Arabia</i>
Cluster II – SDG6: Clean Water & Sanitation	
Poster ID	Abstract ID – Title & Author
S2-PP180	2271 – Assessment of surface water quality associated with upstream artisanal mining activities in Prek Te area, Cambodia <i>Socheata Korng, Cambodia</i>
S2-PP181	2598 – Ensuring data integrity in volatile organic compound (VOC) analysis: A qualities assurance approach for river water assessment <i>Jamilah Karim, Malaysia   Nasehir Khan E.M. Yahaya</i>
S2-PP182	2672 – Pyrolysis: An innovative alternative for alum sludge treatment <i>Nur Izzati Md Saleh, Malaysia   Muhd Shahril Nizam Ismail, Muhammad Abdullah, Nasehir Khan E.M Yahya</i>
Cluster II - SDG7: Affordable & Clean Energy	
Poster ID	Abstract ID – Title & Author
S2-PP183	2099 – Development and characterization of ScSZ-SDC composite cathodes for intermediate-temperature solid oxide fuel cells <i>Kang Huai Tan, Malaysia</i>
Cluster II - SDG13: Climate Action	
Poster ID	Abstract ID – Title & Author
S2-PP184	1641 – Enhancing general chemistry education for allied health: Development and validation of greenlab, a green chemistry-intensive laboratory manual <i>Romulo Jr Macadangdang, Philippines</i>
S2-PP185	2138 – One pot synthesis of 3,4-dihydro-3-hydroxyisochroman-1-one and evaluation of its acetal derivatives as new class of mosquitocidal compounds <i>Gautam Patel, India   Pradeep T. Deota</i>
S2-PP186	1947 – Towards sustainable plantation strategies via application of nanofertilizers for nutrient efficiency <i>Nor Farhana Khadiran Farhana, Malaysia</i>
S2-PP187	2230 – Driving chemistry for sustainable change <i>Mandar Bodas, India</i>

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Mounting Time: 17th July 2025 from 0900 hrs

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Dismantle Time: 18th July 2025 at 1600 hrs



### Cluster II - SDG13: Climate Action

Poster ID	Abstract ID – Title & Author
S2-PP188	2756 – Innovating green and low-carbon technologies to enable carbon peaking and carbon neutrality: Progress of green carbon <i>Xiang Qiu, China</i>

### Cluster III - Symposium on Chemical Safety and Security

Poster ID	Abstract ID – Title & Author
S2-PP189	1915 – AI machine learning development in chemical safety: Predictive algorithms and protective measures based on nine GHS symbol classifications <i>Hooi Ling Lee, Malaysia   Muhammad Aiman Hazmir, Tiem Leong Yoon</i>
S2-PP190	979 – Empowering communities: Advancing chemical safety and security through innovation and education <i>Ridha Ben Salem, Tunisia</i>
S2-PP191	1416 – Establishing a management system for the safety and security of chemical substances <i>Belkacem Benguella, Algeria</i>
S2-PP192	1619 – Toward cohesive chemical safety and security education in ASEAN <i>Armando Jr. Guidote, Philippines   Anna Carissa M. San Esteban, Hooi Ling Lee</i>
S2-PP193	1741 – Implementation of chemical security initiatives in Thailand & ASEAN <i>Sutthipas Wongsiriporn, Thailand   Chalernsak Karnchanawarin</i>
S2-PP194	2015 – Security and transportation codes - Responsible care implementation in chemical industry <i>Eko Pratikto, Indonesia</i>
S2-PP195	2775 – Systematic literature review: Characteristics of confined space hazards in the construction sector <i>Mohd Akhir Bin Ahmad, Malaysia</i>

### Cluster I – Environmental

Poster ID	Abstract ID – Title & Author
S2-PP196	1446 – Effective removal of quinolones from actual water matrices by activated peroxy-monocarbonate via magnetic carbon-based heterogeneous catalyst <i>Haoqi Yang, China   Botao Zhang</i>
S2-PP197	1439 – Degradation of antibiotics by peroxy-monocarbonate activation via MOF-derived nanoreactors <i>Botao Zhang, China   Haoqi Yang</i>

### Cluster II - SDG13: Climate Action

Poster ID	Abstract ID – Title & Author
S2-PP198	1299 – Synthesis of nickel-based cerium oxide hollow spheres catalyst for dry reforming of methane to efficient syngas production <i>Ijaz Hussain, Saudi Arabia   Khalid R. Alhooshani, Saheed A. Ganiyu</i>