

	Physical Oral
	Virtual Poster
	Virtual Oral
	Physical Poster

9 August 2022 (Tuesday)	
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IEM Design Competition (Online)

MR 301

Registration

ChemE Car Presentation Competition

Welcoming Reception

10 August 2022 (Wednesday)					
Venue: MR 304 & 305 (9.00 am - 12.20 pm)					
Registration					
Arrival					
Opening Ceremony					
Tea Break					
Plenary Session 1 - Dato' Dr. Mohd Nazlee Kamal (Chief Executive Officer, Solution Biologics Sdn. Bhd.)					
Plenary Session 2 - Kamal Bahrin B Ahmad (Senior Vice President & Chief Executive Officer, PETRONAS Refinery & Petrochemical Corporation Sdn. Bhd.)					
Plenary Session 3 - YBhg. Dato' Ir. Prof. Dr. Zaini Ujang (Secretary General, Ministry of Environment and Water)					
Lunch				Virtual Poster 1	
MR 305	MR 302	MR 303	MR 306	BR 1	BR 2
Session 1 - Chemical Engineering Education / PSE	Session 2 - Process Systems Engineering	Session 3 - Chemical Engineering Fundamentals	Session 4 - Reaction Engineering & Catalyst	Virtual Session 1 - Chemical Engineering Fundamentals	Virtual Session 2 - Cleaner Production and Circular Economy
Tea Break		Physical Poster 1		Virtual Poster 2	
Session 5 - Process System Engineering	Session 6 - Chemical Engineering Fundamentals	Session 7 - Bioproducts, Food & Bioprocessing	Session 8 - Reaction Engineering & Catalyst / Chemical Engineering Fundamentals	Virtual Session 3 - Chemical Engineering Fundamentals/Education	Virtual Session 4 - Nanotechnology and advanced materials
Virtual Session 5 - Waste Treatment & Management					
End of Day 2					
DINNER @ PERDANA KLCC					

11 August 2022 (Thursday)					
MR 305	MR 302	MR 303	MR 306	BR 1	BR 2
Registration					
Session 9 - Reaction Engineering & Catalyst	Session 10 - Process System Engineering	Session 11 - Nanotechnology and Advanced Materials / Chemical Engineering Fundamentals	Session 12 - SDG Special Symposium	Virtual Session 6 - Bioproducts, Food & Bioprocessing	Virtual Session 7 - Process System Engineering
Tea Break	Physical Poster 2			Virtual Poster 3	
Session 13 - Cleaner Production and Circular Economy	Session 14 - Process System Engineering	Session 15 - Oil & Gas / Reaction Engineering & Catalyst	Session 16 - WINNERS OF RESEARCH PAPER COMPETITION	Session 12 - SDG Special Symposium (Virtual)	Virtual Session 8 - Reaction Engineering & Catalyst
Lunch				Virtual Poster 4	
Session 17 - Chemical Engineering Fundamentals / Process System Engineering	Session 18 - Cleaner Production and Circular Economy	Session 19 - Bioproducts, Food & Bioprocessing / Reaction Engineering & Catalyst	Session 20 - Sustainable palm oil / Process Systems Engineering	Virtual Session 9 - Process System Engineering	Virtual Session 10 - Reaction Engineering & Catalyst
Tea Break				Virtual Poster 5	
Session 21 - Bioproducts, Food & Bioprocessing	Session 22 - Reaction Engineering & Catalyst	Session 23 - Waste Treatment & Management / Bioproducts, Food & Bioprocessing	Session 24 - Cleaner Production and Circular Economy	Virtual Session 11 - Waste Treatment & Management / Nanotechnology and advanced materials	Virtual Session 12 - Reaction Engineering & Catalyst
Closing Ceremony					
End of Day 3					

12 August 2022 (Friday)		
		Implana KLCC HOTEL
Virtual Session 13 - Reaction Engineering & Catalyst	Virtual Poster 6	
Virtual Session 14 - Bioproducts, Food & Bioprocessing		Workshop 1 - Fluid flow, pressure drop & hydraulic analysis
Virtual Session 15 - Sustainable palm oil	Virtual Session 17 - Chemical Engineering Applications	
Virtual Session 16 - Chemical Engineering Applications		Workshop 2 - Economics of Industrial Decarbonisation
END OF CONFERENCE		

	Physical Oral
	Virtual Poster
	Virtual Oral
	Physical Poster

9 August 2022 (Tuesday)	
800	IEM Design Competition
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Venue: MR 304 & 305 (9.00 am - 12.20 pm)					
Registration					
Arrival					
Opening Ceremony					
Tea Break					
Plenary Session 1 - Dato' Dr. Mohd Nazlee Kamal (Chief Executive Officer, Solution Biologics Sdn. Bhd.)					
Plenary Session 2 - Kamal Bahrin B Ahmad (Senior Vice President & Chief Executive Officer, PETRONAS Refinery & Petrochemical Corporation Sdn. Bhd.)					
Plenary Session 3 - YBhg. Dato' Ir. Prof. Dr. Zaini Ujang (Secretary General, Ministry of Environment and Water)					
Lunch				1004	1018
				1005	1024
				1007	1026
				1009	1027
MR 305	MR 302	MR 303	MR 306	BR 1	BR 2
Keynote: Prof Moses Oludayo Tade	1217	Ir Dr Chan Tuck Leong	1070	1008	1181
	Ir Razmawata	1106	1094	1016	1189
1134	1201	1014	1095	1045	1196
1055	Ir Shum Keng Yan	1015	1162	1028	1030
Tea Break		1034, 1049, 1054, 1076, 1080, 1082, 1088, 1109, 1113 & 1131		1029	1061
Keynote: Prof Santanu Bandyopadhyay	1021	1023	1120	1175	1093
	1042	1085	1104	1250	1097
1020	1046	Keynote: Prof Jerry Y. Y. Heng	1098	1235	1101
1040	Dr Jit Kai Chin	1111	1111	1137	1170
1062	1171	1089	1249	1002	1019
1158	1193	1107	1116	1010	1096
End of Day 2					
DINNER @ PERDANA KLCC					

11 August 2022 (Thursday)						
MR 305	MR 302	MR 303	MR 306	BR 1	BR 2	
Registration						
1138	Mr Karl Kolmetz	1036	Keynote: Prof Masahiko Matsukata		1006	
1150	1133	1081	1043	1077	1038	
1164	1149	1190	1047	1092	1059	
1165	Dr Zulfan Adli Pains	1248	1050	1117	1159	
Tea Break		1173, 1225, 1123, 1105, 1108, 1099, 1115, 1255, 1258, 1219 & 1222		1064	1100	
Keynote: Prof Ir Dr Aziz Raman	Ir Chong Chee Siang	1203	1103	Session 12 - SDG Special Symposium (Virtual)	1058	
	1160	1213	1228		1060	
1069	1163	1232	1229		1068	
1197	1180	1215	1230		1074	
Lunch					1112	1135
					1151	1183
1156	Nurfarhana Abdul Rahim	1154	1167	1184	1078	
1214	1212	1208	1025	1198	1102	
1157	1234	1168	Mr Tee Wool Keat	1200	1127	
Ir. Rafil Elyas	Mr Hans Tan	1176	1121	1204	1139	
Tea Break				1241	1242	
1118	1195	1114	1187	1126	1140	
1124	1205	1169	1072	1051	1141	
1129	1210	1202	1110	1066	1185	
1142	1211	1207	1152	1067	1194	
Mr Wiroon	1199	1155	1179	1090	1240	
	1037	1236	1260			
Closing Ceremony						
End of Day 3						

12 August 2022 (Friday)	
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1041	1065
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1231	1186
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1122	1091
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1130	1147
1209	1244
Ir Shyam Lakshmanan	1245
1247	1246
1071	1063
Keynote: Prof Rethar Abubakar Karimi	1237
1073	1206
1132	1238
1145	1039
Workshop 1 - Fluid flow, pressure drop & hydraulic analysis	
Workshop 2 - Economics of Industrial Decarbonisation	
END OF CONFERENCE	

Paper ID	Authors	Title	Classification
1002	Sin Moh Cheah	INTEGRATING ENGINEERING ETHICS INTO CHEMICAL ENGINEERING CURRICULUM USING CDIO FRAMEWORK	Chemical engineering education
1004	Ryohei Yakata and Yusuke Asakuma	Prediction of temperature distribution during microwave heating by three dimensionless numbers	Chemical engineering fundamentals
1005	Tomioisa Maeda and Yusuke Asakuma	Study for hydration structure in sodium chloride solution through refractive index during microwave irradiation	Chemical engineering fundamentals
1006	Allan Hua Heng Sim and Chunyan Fan	Adsorption and Separation of CO ₂ /CH ₄ in Activated Carbon	Process system engineering
1007	Yusuke Watanabe and Yusuke Asakuma	Maintenance of surfactant desorption by changing microwave irradiation mode	Chemical engineering fundamentals
1008	Yusuke Watanabe and Yusuke Asakuma	Important factors for modification of liquid-liquid interface during microwave irradiation	Chemical engineering fundamentals
1009	Takahiro Takai and Yusuke Asakuma	Non-thermal effect for refractive index of water during pulse microwave irradiation	Chemical engineering fundamentals
1010	Abdul Zahir, Perumal Kumar, Agus Saptoro, Angnes Ngieng Tze Tiong, Samreen Hameed and Milin Shah	Optimization of hydrodynamic parameters for CO ₂ absorption in Rotating Packed Bed	Process system engineering
1013	Alessandra Hausmann, Britta Buck, Tom Simons and Daryl Williams	Novel Approach for the Characterization of Powder Caking	Bioproducts, food and bioprocessing
1014	Myat Kyaw, Nathaniel Dugos, Shinsuki Mori, Susan Roces and Arnel Beltran	FABRICATION AND EVALUATION OF GAS BARRIER PERFORMANCE OF POLYINDENE MEMBRANES BY RF-PECVD	Chemical engineering fundamentals
1015	Shisei Takashige, Afroza Sultana, Hermawan Dwi Ariyanto and Hidefumi Yoshii	Physicochemical properties of emulsified d-limonene spray-dried powder	Chemical engineering fundamentals
1016	Akira Miwano, Takehiro Yonezawa, Noriko Yamauchi, Kouichi Nakashima and Yoshio Kobayashi	Development of a ZrO ₂ -Coating Technique by a Sol-Gel Process	Chemical engineering fundamentals
1018	Sota Koreeda and Yusuke Asakuma	Refractive index measurement of glucose aqueous solution during microwave irradiation	Chemical engineering fundamentals
1019	Swee Kun Yap, Cindy Lee Lai Yeng, Henry Dass Selvaraj, Sachin V. Jangam and Suraj Vasudevan	Virtual Reality Enhanced Education for Undergraduate Chemical Engineers	Chemical engineering education
1020	Dominic Foo	Process Integration for Bioenergy Generation	Process system engineering
1021	Hermawan Dwi Ariyanto, Vita Paramita, Hidefumi Yoshii	Release characteristic of 1-methylcyclopropene from coated paper containing 1-MCP inclusion complex in α -cyclodextrin	Chemical engineering fundamentals
1023	Shamini Anboo and Lau Sie Yon	FACILE SYNTHESIS OF MAGNETIC LIPASE/CU ₃ (PO ₄) ₂ HYBRID NANOFLOWER FOR BIOCATALYTIC APPLICATIONS	Bioproducts, food and bioprocessing
1024	Tao Ban and Chun-Ran Chang	Design of Single-Atom and Frustrated-Lewis-Pair Dual Active Sites for Direct Conversion of CH ₄ and CO ₂ to Acetic Acid	Reaction engineering and catalyst
1025	Cai Li Song and Jofry B Othman	Synthesis and characterization of lignin incorporated carboxymethyl cellulose (CMC) films from oil palm lignocellulosic waste	Sustainable palm oil
1026	Zhongtao Sun, Yi Zhang, Xin Chen and Fangxu Lu	Effect of Rb promoter on Fe ₃ O ₄ microsphere catalyst for CO ₂ hydrogenation to light olefins	Reaction engineering and catalyst

1027	Yakun Zhang, Baocheng Qiu and Yi Zhang	The state of Pt active phase and its surrounding environment during dehydrogenation of ethane to ethylene	Reaction engineering and catalyst
1028	Yiming Chen, Baocheng Qiu and Yi Zhang	An active and stable nickel-based catalyst with embedment structure for CO ₂ methanation	Reaction engineering and catalyst
1029	Zhanggui Hou, Yi Zhang, Wei Sheng and Yi Liu	Homogeneous and highly dispersed Ni-Ru on a silica support as an effective CO methanation catalyst	Reaction engineering and catalyst
1030	Xiong Yin, Hongwei Shi, Yani Hua and Zhan Gao	Hierarchical Nickel/Iron-Layered Double Hydroxide Ultrathin Nanosheets in Situ Grown on Nanocarbon Networks for Enhanced Oxygen Evolution Reaction	Nanotechnology and advanced materials
1034	Kanungnit Chawong, Sunisa Singhawannurat and Panarat Rattanaphanee	Activity and stability of unsupported and supported aluminum catalyst for lactic acid esterification with 1-butanol	Reaction engineering and catalyst
1036	Jia Le Wee, Ming Chiat Law and Yen San Chan	Evaluation of Antifungal Activity of Magnesium Oxide Nanoparticles on Fusarium oxysporum	Nanotechnology and advanced materials
1037	Fanthagiro Rossi Stuard Majing, Yen San Chan, Inn Shi Tan, Ye Hua Tan and Mohd Dinie Muhaimin Samsudin	Honeycomb Tubular Biochar Derived from Palm Leaves as a Potential Adsorbent for VOCs Removal	Reaction engineering and catalyst
1038	Carlo Galicia	Modeling and simulation of SBR and digester performance using GEKKO	Process system engineering
1039	Slyvester Chai, Lock Hei Ngu and Bing Shen How	Development and Optimization of Accelerated Weathering of Limestone for CO ₂ Capture from Cement Industry Gas Emission	Cleaner production and circular economy
1040	Marc Joshua Abad, Andrew Felix Go, Clyde Austin Chua, Kathleen Aviso and Arnel Beltran	A P-Graph Approach to Water Use Optimization in a Fish Processing Industry through Resource Conservation Networks with Material Interception	Process system engineering
1041	Noor Azeerah Abas, Noor Khairin Mohd and Haliza Abdul Aziz	Synthesis and Characterization of Diethylene Glycol Dioleate as Biolubricant Base	Reaction engineering and catalyst
1042	Ianatul Khoiroh and Tommy Hoong Wy Lee	Phase equilibrium measurement and thermodynamic correlation of polybutadiene and dichloromethane mixture	Chemical engineering fundamentals
1043	Satoko Fujioka	SCEJ's actions in line with the Sapporo Declaration for achieving the SDGs	Chemical engineering education
1044	Masahiko Matsukata	How Do Chemical Engineers Contribute to Future by Implementing the Sapporo Declaration?	Chemical engineering education
1045	Juan Carlos Cordova Suarez, Alexander Albuja, Enrique Barreno and Cordova Suarez Manolo Cordova	Technical Analysis for the Use of an ESP Combined with Packing Tools for an Artificial Lifting System	Chemical engineering fundamentals
1046	Terrence Yap Ming Jiet and Vasanthi Sethu	Synthesis of Natural Blue dye from Butterfly Pea (Clitoria ternatea) flowers and its application on Cotton fibres using Ultrasonic-assisted techniques	Chemical engineering fundamentals
1047	Chuan Zhen Ko	Fostering Business for Sustainable Developments With Engineering Knowledge	Chemical engineering education
1049	Sunisa Singhawannurat and Panarat Rattanaphanee	Fabrication and characterization of PLA/HA scaffold by combined of freeze-drying and particulate leaching method for bone tissue engineering	Nanotechnology and advanced materials
1050	Joey Ocon	Transition pathway towards 100% renewable energy across the sectors of power, heat, transport, and desalination for the Philippines	Cleaner production and circular economy
1051	Changlin Liu, Abuliti Abudula and Guoqing Guan	Electrochemical Characteristics of Solid-state Lithium Metal Batteries Based on PEBAX Electrolyte	Nanotechnology and advanced materials
1053	Munammad Saad Khan, Amirun Nissa Kenman, Anjan Lal, Iqbal Ahmed, Hani Abulkhair, Azmi Mohd Shariff, Abdulmohsen Alsaiair, Eydhah Almatrafi and Omar Ramzan	Impact of Tryptophan on the formation kinetics of carbon dioxide hydrates for hydrate-desalination	Reaction engineering and catalyst

1054	Daigo Murakami, Shoji Hirayama, Yuriko Hoshino, Munehiro Hoshino and Mitsuru Sasaki	Recovery of high concentration of amino acids by subcritical water treatment of residuals from vinegar production	Reaction engineering and catalyst
1055	Pau Loke Show	LATEST DEVELOPMENTS IN MICROALGAE TECHNOLOGY	Chemical engineering education
1056	Nik Nurfatmah Pz Binti Nik Pauzi	Non-catalytic esterification of palm fatty acid distillate with 2-ethyl hexanol for high purity production of biolubricant ester	Reaction engineering and catalyst
1057	Tu Lee, Jia De Tseng, Hung Lin Lee and Kuan Lin Yeh	Recyclable Positive Azeotropes for the Purification of Curcumin with Optimum Purity and Solvent Capacity	Reaction engineering and catalyst
1058	Jen Yun Mo, Chih Wei Chen, Hung Lin Lee, Kuan Lin Yeh and Tu Lee	Effects of Scale-Up and Impeller Types on Spherical Agglomeration of Dimethyl Fumarate	Reaction engineering and catalyst
1059	Jing Cheng Wang, Hung Lin Lee, Chi Wen Chiu and Tu Lee	Engineering Terephthalic Acid Product from Recycling of PET Bottles Waste for Downstream Operations	Process system engineering
1060	Yu Kun Peng, Dhanang Edy Pratama, Wen Chen Hsieh, Kuan Yun Lin, Yu-Yung Chen, Chun Chou Lin, Yu Fang Hu and Tu Lee	Unconventional Separation of Arsenic Trioxide from Unused Aqueous Chemotherapeutic Agents by Direct Evaporative Crystallization	Reaction engineering and catalyst
1061	Bo Xie, Chiya Numako, Takashi Naka and Seiichi Takami	Hydrothermal Synthesis of Gallium-based Spinel Oxide Nanoparticles with Different Metal Ion Composition Ratios	Reaction engineering and catalyst
1062	Fahad Matovu and Shuhaimi Mahadzir	Synthesis and optimization of multilevel mixed refrigerant systems using generalized disjunctive programming.	Process system engineering
1063	Mahmoud Magdy Azim, Ikuo Ushiki, Azusa Miyajima and Shigeki Takishima	A novel approach to estimate the solubilities of non-steroidal anti-inflammatory drugs (NSAIDs) in supercritical carbon dioxide by PC-SAFT equation of state	Bioproducts, food and bioprocessing
1064	Chun-Hsiang Chang, Liang-Yi Su, Chih-Yao Tseng, Cheng-Tung Chou, Ming-Wei Yang, Zong-Yu Zhuang and Hung-Chen Chang	Simulation of CO ₂ capture from flue gas of a power plant by a three-bed nine-step vacuum pressure swing adsorption process	Process system engineering
1065	Naoki Yoshihara, Yuya Tahara and Masaru Noda	Machine Learning Method for Determining Chemical Vapor Deposition Conditions for Large-area Graphene Growth	Process system engineering
1066	Jun-Ven Lim, Soo-Tueen Bee and Tin Sin Lee	Preparation and mechanical properties of a graphite nanosheet/nylon 610 nanocomposite using graphite nanosheets treated with supercritical water	Nanotechnology and advanced materials
1067	Jun-Ven Lim, Soo-Tueen Bee and Tin Sin Lee	Fabrication and conductivity of a graphite nanosheet/nylon 610 nanocomposite using graphite nanosheets treated with supercritical water	Nanotechnology and advanced materials
1068	Tadaaki Shimizu, Liuyun Li, Heizo Kato, Akimichi Hatta and Toshinori Kojima	Coil-shaped rotating spiral gas-solid reactor – design procedure for catalytic reaction -	Reaction engineering and catalyst
1069	Takafumi Hanada and Masahiro Goto	Hydrophobic eutectic solvents for sustainable cathode recycling of lithium-ion batteries	Cleaner production and circular economy
1070	Chong Yu Low, Tin Sin Lee, Soo Tueen Bee and Xin Khai Ng	DETERMINATION THE EXTENT OF ACID AND BASIC CONDITION DEGRADE LDPE AS COMPATIBILIZER IN LDPE KENAF COMPOSITE	Reaction engineering and catalyst
1071	Fan Li, Thomas Shean Yaw Choong, Luqman Chuah Abdullah and Siti Nurul Ain Md. Jamil	Investigation of Glyphosate Removal from Aqueous Solution by Calcium Peroxide Nanoparticles	Nanotechnology and advanced materials
1072	Asuka Sakai, Winarto Kurniawan, Masatoshi Kubouchi, Mitsuhiro Inui, Atsushi Mizutani and Taro Kuroda	Evaluation of recycled carbon fiber recovered by chemical decomposition from CFRP using nitric acid treatment	Cleaner production and circular economy
1073	Hui Zhang, Ryo Yoshiie, Ichiro Naruse and Yasuaki Ueki	Degradation behaviors of SOFC by the deposition of potassium compounds on the anode surface	Reaction engineering and catalyst
1074	Noorashikin Saleh, Gagenthiran Ganesan and Nik Nur Atiqah Nik Wee	ADDITION OF 3-AMINOPROPYLTRIEHOXSILANE AS AN ADDITIVE IN IMPROVING QUALITY OF LATEX GLOVE	Reaction engineering and catalyst

1075	Shinsuke Nagamine, Mika Akagi, Kyuya Nakagawa and Takashi Kobayashi	Effect of coagulant composition on soy protein-based fibers prepared by wet spinning	Bioproducts, food and bioprocessing
1076	Ryo Yamada and Mitsuru Sasaki	Production of chain oligopeptides from diketopiperazine by pulse discharge method	Bioproducts, food and bioprocessing
1077	Amritha Nissa Keshavani, Muhammad Saad Khan, Bhajan Lal, Iqbal Ahmed, Hani Abulkhair, Azmi Mohd Shariff, Abdulmohsen Alsaier, Eydah Almatrafi and Omar Basmah	Exploration of L-tryptophan assisted desalination process in a simulated porous media environment	Bioproducts, food and bioprocessing
1078	Ziguang Yang, Keito Togami and Motoaki Kawase	Effects of Temperature and Gas Partial Pressure on Chemical Vapor Deposition Process of Bismuth-based Perovskite Thin Film	Reaction engineering and catalyst
1080	Sumire Ichimaru	Graphene-based catalysis for conversion of marine-based feedstocks under microwave irradiation	Reaction engineering and catalyst
1081	Fahimah Abd Lah Halim, Takuya Tsujiguchi, Yugo Osaka and Akio Kodama	Molybdenum containing carbon nanofiber supported palladium catalyst for formic acid electrooxidation reaction	Nanotechnology and advanced materials
1082	Yuri Ogasawara, Armando Quitain, Tetsuya Kida and Yusuke Inomata	Glycerol conversion to GTBE using graphene oxide under microwave irradiation	Reaction engineering and catalyst
1084	Seichi Takami and Xiaoqian Zhao	Sub- and supercritical hydrothermal synthesis of Y3Al5O12 nanoparticles doped with rare earth elements	Nanotechnology and advanced materials
1085	Taichi Yoshioka and Takashi Kuroiwa	Activation of lipase by the hydration-aggregation method and its application to triglyceride modification in nonaqueous media	Bioproducts, food and bioprocessing
1086	Taiga Nakazaki, Yuichiro Akimaru, Hiroyuki Iyota and Hayato Masuda	Effect of supercooling phenomenon on liquid freezing in cylindrical vessel	Reaction engineering and catalyst
1087	Ryu Ukawa-Sato and Chihiro Fushimi	Design and Techno-Economic Analysis of Levulinic Acid Production Process from Biomass by Using Co-product Formic Acid as a Catalyst with Minimal Waste Generation	Reaction engineering and catalyst
1088	Yumeto Kashiwazaki, Yusuke Horiki, Jun Sawai, Kazumitsu Naoe and Masanao Imai	Preparation conditions of Pickering emulsions stabilized by antibacterial silver nanoparticle via ultrasonication	Nanotechnology and advanced materials
1089	Pugon Santoso, Kosuke Minaminata, Yugo Isinimine, Taniguchi Hiromasa, Takuya Komada, Ryo Sato, Masahiro Goto, Tomoya Takashima, Toki Taira and Nobuo Komino	Synergistic antifungal activity by combining amphotericin B with lipidated chitinase	Bioproducts, food and bioprocessing
1090	Nurul Nazihah Amerhaider Nuar, Siti Nurul Ain Md. Jamil and Thomas Shean Yaw Choong	Synthesis of calcium peroxide nanoparticles with starch as biotemplate for the degradation of organic dye in aqueous solution	Nanotechnology and advanced materials
1091	Takuya Minamiguchi, Yuta Mizutani, Ryuichi Ashida and Motoaki Kawase	Reduction of various metal ions by low-grade carbonaceous resources at a low temperature for chemical energy conversion	Reaction engineering and catalyst
1092	Artima Lairattanakul, Suvimol Surassmo, Uracha Ruktanonchai and Apinan Soottitantawat	Microencapsulation of extracted holy basil oil in modified starch by spray drying	Bioproducts, food and bioprocessing
1093	Tue Tri Nguyen, Kiet Le Anh Cao, Tomoyuki Hirano and Takashi Ogi	Preparation of Macroporous Pectin Particles with High Specific Surface Areas and Interconnected Pore Networks for Enhancement of Protein Adsorption Capacity	Nanotechnology and advanced materials
1094	Snehlata Kumari and Sonali Sengupta	Ultra-deep denitrogenation of model fuel by oxidation over sulfated geopolymer catalyst followed by extraction with water	Reaction engineering and catalyst
1095	Snehlata Kumari, Biswajit Saha and Sonali Sengupta	Study of the oxidation reaction of dibenzothiophene with sulfated geopolymer catalyst	Reaction engineering and catalyst
1096	Xindong Yin, Shuhei Miyamoto, Keita Taniya, Yuichi Ichihashi and Satoru Nishiyama	Gas-phase Oxidation of Benzene over Cu Catalyst Loaded on MFI Type Molding Zeolite	Reaction engineering and catalyst
1097	Eka Lutfi Septiani, Kiet Le Anh Cao, Tomoyuki Hirano, Nobuhiro Okuda, Hiroyuki Matsumoto, Yasushi Enokido and Takashi Ogi	Investigation of densified spherical and submicron-sized FeNi particles on their magnetic characteristics	Nanotechnology and advanced materials

1098	Quoc Hao Nguyen, Jinsoo Kim and Kyungmin Im	Design of an iron, cobalt, and nitrogen co-doped carbon catalyst for enhanced high oxygen reduction reaction performance derived from metal-organic framework and conducting polymer complexes	Reaction engineering and catalyst
1099	Quoc Hao Nguyen, Jinsoo Kim and Kyungmin Im	Synthesis of Co ₉ S ₈ @NC Hollow Nanocages from composite of Metal-Organic Framework and polypyrrole and their application for water splitting	Reaction engineering and catalyst
1100	Takashi Saeki, Aya Kaide and Shigeyuki Nagasaka	Energy saving of fluid transportation of ground thermal energy system by drag reducing effect	Cleaner production and circular economy
1101	Noorashikin Saleh and Nur Izzah Ahmad Juanda	Extraction of Methyl Phenol in Selangor River using Solid Phase Extraction Technique Coupled with UV-Vis Spectrophotometry	Waste treatment and management
1102	Mauricio Córdova Udaeta, Cheng Bowen, Shigeshi Fuchida, Yutaro Takaya, Jun Horiuchi, Hiroyuki Masuoka, Keishi Oyama and Chiharu Tokoro	Comparative study on the oxidation of manganese ions by sodium hypochlorite and potassium permanganate under low pH conditions	Reaction engineering and catalyst
1103	Jia Wen Chong, Lik Yin Ng, Suchithra Thangalazhy Gopakumar, Kasturi Muthoosamy and Nishanth Chemmangattuvalappil	Design of Bio-oil/Solvent Blend with Economic Considerations Using Computer Aided Molecular Design	Process system engineering
1104	Toan Minh Pham, Kyungmin Im and Jinsoo Kim	A Highly Stable W-doped TiO ₂ Supported Pt Electrocatalyst for Oxygen Reduction Reaction in Acidic Media	Reaction engineering and catalyst
1105	Toan Minh Pham, Kyungmin Im and Jinsoo Kim	Synthesis of Low-Pt-Based Electrocatalyst Derived from Porous MOF-808(Zr)-NH ₂ Nanoparticles Towards Oxygen Reduction Reaction	Reaction engineering and catalyst
1106	Tomoya Tsuji, Peck Loo Kiew and Taka-Aki Hoshina	Partition coefficient of a new odorant, 2-hexyne, in liquefied petroleum gas cylinder	Chemical engineering fundamentals
1107	Mintallah Mousa A Allouzi, Suchithra Thangalazhy-Gopakumar, Suyin Gan and Lai Yee Lee	Torrefaction of Olive Jift Biomass with Low Density Polyethylene (LDPE) Plastics and Their Interactive Effects	Reaction engineering and catalyst
1108	Yoonmo Koo, Kyungmin Im and Jinsoo Kim	Spray pyrolysis-assisted synthesis of Ruthenium doped MoO ₂ sphere for high mass activity of hydrogen evolution reactions over a wide pH range	Reaction engineering and catalyst
1109	Satoshi Honjo, Airi Hirobe, Kazumitsu Naoe, Masanao Imai and Jun Sawai	Stearate Liquid Marbles for Bacterial Cellulose Production: Preparation conditions of Bacterial Cellulose	Bioproducts, food and bioprocessing
1110	Mitsuo Yamamoto, Sara Tanaka and Takeshi Sato	Consumer willingness for introducing paper bags made from agricultural waste in Egypt	Cleaner production and circular economy
1111	Lim Semin, Jeong Sungkuk and Kim Jinsoo	Synthesis of MOF-808/PEBAX mixed-matrix membranes for CO ₂ /N ₂ separation with different sizes of MOFs	Reaction engineering and catalyst
1112	Seiji Matsuo, Chiharu Tokoro and Yasunaga Iwasaki	Optimal operating conditions for high quality tomato cultivation in plant factories in hot and humid regions of Asia	Process system engineering
1113	Taka-Aki Hoshina, Kento Fujita, Masaki Okada, Tomoki Takahashi, Tomoya Tsuji and Hidetaka Yamada	Carbon dioxide absorption effect on electric conductivities for aqueous solution of 2-aminoethanol, 2-(methylamino)ethanol, and 2-(butylamino)ethanol at 313.2 K	Reaction engineering and catalyst
1114	Siti Norzamia Nadzmi, Mardhiyah Mohd Bakir and Irene Lock Sow Mei	Digitalization for Sustainable Water Management in Petroleum Production and Processing Facilities	Waste treatment and management
1115	Sion Oh, Kyungmin Im and Jinsoo Kim	Spray Pyrolysis-Derived Hollow CoFe-NC@CNT Electrocatalyst with Improved Stability and Activity for Oxygen Reduction Reaction	Reaction engineering and catalyst
1116	Sion Oh, Kyungmin Im, Sungjong Yoo and Jinsoo Kim	Spray pyrolysis-derived atomically dispersed hollow spherical bimetallic(Co, Fe) electrocatalysts with improved stability for Oxygen Reduction reaction in acidic media	Reaction engineering and catalyst
1117	Noriko Yamauchi, Yosuke Noshiro, Shohei Tada, Makoto Ogata and Yoshio Kobayashi	Fabrication of glyco-immobilized fluorescent PMMA particles encapsulating magnetically responsive Fe ₃ O ₄ particles	Bioproducts, food and bioprocessing
1118	Anchali Kalidason and Takashi Kuroiwa	Encapsulation of Alpha-Mangostin into Chitosan-Oleic Acid Complexes: An Attempt to Improve Its Stability and Oral Bioavailability	Bioproducts, food and bioprocessing

1119	Yuying Jiang, Bo Cheng and Zhan Gao	A reduced temperature solid oxide fuel cell with nanostructured electrodes	Nanotechnology and advanced materials
1120	Lee Youngbin, Im Kyungmin and Kim Jinsoo	Low-loading platinum alloy electrocatalyst supported on hollow carbon for the four-electron oxygen reduction reaction	Reaction engineering and catalyst
1121	Wan Ying Chai, Heng Jin Tham, Kenneth Tze Kin Teo and Min Keng Tan	OPTIMIZATION OF FED-BATCH BAKER'S YEAST FERMENTATION USING DEEP REINFORCEMENT LEARNING	Process system engineering
1122	Disni Gamaralalage, Yuichiro Kanematsu, Denny Ng, Steve Foong, Viknesh Andiappan, Dominic Foo and Yasunori Kikuchi	Domestic woodchips and imported PKS for the future of power generation in Japan. A Life Cycle Analysis of Malaysian Palm Kernel-Shells for Biomass-derived Power generation in Japan.	Sustainable palm oil
1123	Retsu Nakamura, Hiroaki Okano, Nobuyuki Matsuda, Jun Sawai, Kazumitsu Naoe and Masanao Imai	Preparation of bacterial cellulose membrane via liquid marble method and its water permeation behavior	Bioproducts, food and bioprocessing
1124	Anju Pilakka Veedu, Kazunori Nakashima, Takahiro Sato and Satoru Kawasaki	Control of Adhesion property of Mussel Foot Protein by Fusing Soluble Protein	Bioproducts, food and bioprocessing
1126	Chengyu Xie, Yoko Kurokochi, Yukie Saito, Ahmed Hassanin, Mitsuo Yamamoto	Effect of steam and wash treatment on the property of composite made from date palm residue and PLA	Waste treatment and management
1127	Treerat Vacharanukrauh	TECHNO-ECONOMIC COMPARISON OF DIFFERENT REACTOR TYPES USED IN THE MANUFACTURE OF FRUCTOOLIGOSACCHARIDES FROM SUCROSE	Reaction engineering and catalyst
1129	Mai Takagi, Masumi Yamada, Rie Utoh and Minoru Seki	Development of Flow-through Microwells Made of Porous Materials for Perfusion Culture of Mammalian Cells	Bioproducts, food and bioprocessing
1130	Frederick Jit Fook Phang, Juan Jing Chew, Bing Shen How, Nishar Hameed, Soh Kheang Loh, Suzana Yusup and Jaka Sunarso	Effect of temperature and time on empty fruit bunches (EFB) and oil palm trunks (OPT) derived hydrochar for biofuel production: A comparison	Sustainable palm oil
1131	Muhammad Waffieq Syarafuddin Mazlan, Sayu Hanibuchi, Yuka Tokoro, Kazuma Aiki, Jun Sawai, Kazumitsu Naoe and Masanao Imai	Open cultivation of microorganisms in Pickering emulsions stabilized by stearate microparticles	Bioproducts, food and bioprocessing
1132	Koki Wada, Ryosuke Sakurai, Shinichiro Okumura, Hayato Masuda and Hiroyuki Iyota	Effect of Polymer Addition on Dynamic Leidenfrost Phenomenon	Reaction engineering and catalyst
1133	Junya Takayoshi, Yasunori Okano, Yuhsuke Hamano and Gen Aoki	Numerical simulation of polymer melt flow and solidification in an injection molding filling process	Process system engineering
1134	Faiezin Osmas, Yong Han Pua, Ming Tan Tham and Wean Sin Cheow	Real-time Data Conditioning for Process Operations: Application to a Spray Dryer	Process system engineering
1135	Kazuhiro Takeda and Makoto Yasuda	Ensemble machine learning to predict the selectivity from 3D information of π -pocket catalysts	Process system engineering
1137	Ming Zhang, Mikiro Hirayama, Kei Mizuta and Susumu Nii	Determination of Peclet number from flow visualization inside an extraction column of "emulsion-flow type"	Chemical engineering fundamentals
1138	Runa Hemmi, Takeru Sato, Masumi Yamada and Minoru Seki	Continuous separation of submicrometer-sized particles using microfluidic devices integrated with porous substrate as sieving matrices	Reaction engineering and catalyst
1139	Tatsuo Abe	Risk assessment of nickel compounds based on Daphnia magna assay	Reaction engineering and catalyst
1140	Heak Vannak, Yugo Osaka, Takuya Tsujiguchi and Akio Kodama	Carbon Dioxide Recovery from Air by a Conductively Heated and Cooled Temperature Swing Adsorption Packed with an Amine based Solid Adsorbent	Reaction engineering and catalyst
1141	Sevgi Polat, Ruud Kortlever and H. Burak Eral	Electrochemical cell design and performance evaluation of polyvinyl ferrocene/carbon nanotube electrodes for selective formate separation	Reaction engineering and catalyst
1142	Hiroki Obayashi, Rie Wakabayashi, Noriho Kamiya and Masahiro Goto	Co-assembly with peptide amphiphiles through complementary hydrogen bonding facilitates non-endocytic cellular internalization of small molecules	Bioproducts, food and bioprocessing

1145	Rie Wakabayashi, Ayato Higuchi, Masahiro Goto and Noriho Kamiya	Self-assembled peptide fibers with enzymatic reactivity for potential delivery of biotherapeutics	Bioproducts, food and bioprocessing
1147	John Larry Corpuz, Michael Castro and Joey Ocon	A Techno-Economic Assessment of the Newly Waived Off-grid Areas in the Philippines	Process system engineering
1149	Senthil Kumar Arumugasamy	USAGE OF BIOMASS GASIFIER FOR DRYING SOAKED PADDY IN A REVERSIBLE AIRFLOW FLATBED DRYER: ARTIFICIAL NEURAL NETWORK MODELING	Process system engineering
1150	Madiah Miskan, Mototake Furuhashi, Yugo Osaka, Akio Kodama and Takuya Tsujiguchi	Effect of anode catalyst layer improvement on mass transport and performance of Direct Formic Acid Fuel Cell	Reaction engineering and catalyst
1151	Kaito Teruya, Taketoshi Koita, Takao Namihira and Chiharu Tokoro	Demonstration of the effectiveness of the separation technique of lithium-ion battery cathode materials using the electric pulse method for efficient separation	Cleaner production and circular economy
1152	Phei Li Lau, Priyanka R. Jagadish, Yee Heng Ang, Grace Yeyen Chin, Yat Wai Loo, Jin Wei Yap, Mohammad Khalid Siddiqui and Andy Chan	Development of a thermoelectric composite for sustainable energy-harvesting from recycled carbon fibre incorporated with CZTS.	Cleaner production and circular economy
1154	Shuichi Yamamoto	A mechanistic model based approach with on-line monitors for accelerated food drying process development	Bioproducts, food and bioprocessing
1155	Masumi Nasukawa and Takeshi Omasa	The role of surge tanks for integrated bioprocessing	Bioproducts, food and bioprocessing
1156	Hiroyuki Matsuda, Yuki Ohashi, Shoki Takamatsuya, Keiji Kawai, Kiyofumi Kurihara and Katsumi Tochigi	Solid-Liquid Equilibria of Ternary System Ethanol + Diethyl Carboanate + Diphenyl Carbonate	Chemical engineering fundamentals
1157	Katsumi Tochigi, Hiroyuki Matsuda and Kiyofumi Kurihara	Prediction of Phase Equilibria and Transport Properties Using ASOG and PRASOG Group Contribution Methods	Chemical engineering fundamentals
1158	Mohd Amran Mohd Yusof and Yi Jing Chan	A comparative analysis on the performances of four different In-ground Lagoon Anaerobic Digester in the treatment of Palm Oil Mill Effluent (POME)	Sustainable palm oil
1159	Riezqa Andika and Mark Philip Purba	Design and Simulation of Pressure Retarded Osmosis for Hydroponics Fertigation	Process system engineering
1160	Sara Kazemi Yazdi, Hung Yi Hia, Kashwin Selvanathan and Kishaan Ragu	Development of Carbon Dioxide and Hydrogen Sulphide Prediction Model for POME Treatment Using Machine Learning	Process system engineering
1162	Mohd Amran Mohd Yusof and Chan Yi Jing	Effects of operational differences in palm oil mills on Palm Oil Mill Effluent (POME) characteristics	Sustainable palm oil
1163	Waleligne Molla Salliew, Zainal Ambri Abdul Karim and Tamiru Alemu Lemma	Investigation of the effect of Variable Inlet Guide Valve Drift, Fouling and Erosion on Three shaft Gas Turbine Performance	Process system engineering
1164	Rim Ismail, Mohammed Ali Saad, Ali Sardar, Muftah El-Naas and Abdelbaki Benamor	Development of a novel Cu-based dual function material for CO ₂ Capture and Hydrogenation	Reaction engineering and catalyst
1165	Areeg Tageldin, Mohammed Ali Saad, Sardar Ali and Abdelbaki Benamor	Rhodium Promoted Bimetallic Dual Functional Material for Integrated Co ₂ Capture and Conversion	Reaction engineering and catalyst
1167	Jason Zhao Hong Hwang, Viknesh Andiappan and Denny K. S. Ng	OPTIMISATION STRATEGY TO ACHIEVE NET-ZERO IN PALM OIL SECTOR VIA CIRCULAR ECONOMY MODEL	Sustainable palm oil
1168	Nicholas Yung Li Loh, Billie Yan Zhang Hiew, Svenja Hanson and Lai Yee Lee	Application of Graphene Oxide-Silica Xerogel for the Continuous Removal of Crystal Violet Dye	Reaction engineering and catalyst
1169	Wan Ting Tee, Suchithra Thangalazhy-Gopakumar, Suyin Gan and Lai Yee Lee	Removal of Organic Water Pollutants using Functionalised Graphene Oxide Adsorbents	Waste treatment and management
1170	Nurul Husna Mohd Yusoff, Chien Hwa Chong, Voon-Loong Wong, Kean How Cheah and Yoke Kin Wan	3D-Printed PEGDA Monolith with Robust Silane-Grafted Chitosan for Enhanced Textile Wastewater Treatment: Response Surface Methodological Approach	Waste treatment and management

1171	Hanee Farzana Hizaddin, Fildza Amirah Khalit and Aisyah Ilyani Ismail	Development of a Comprehensive Screening Method of Deep Eutectic Solvents for the Separation of Toluene-Heptane Mixtures	Chemical engineering fundamentals
1172	Treerat Vacharanukrauh and Apinan Soottitantawat	Techno-economic Comparison of Different Reactor Types Used in the Manufacture of Fructooligosaccharides from Sucrose	Bioproducts, food and bioprocessing
1173	Natsuko Tashiro and Mitsuru Sasaki	Development of novel method for selective conversion of dibutyl phosphate into phosphoric acid with the vapor-phase pulsed discharges	Reaction engineering and catalyst
1175	Sevgi Polat and H. Burak Eral	Influence of osteopontin on calcium oxalate crystallization in artificial urine	Chemical engineering fundamentals
1176	Jose Maria Lomas, Natalia Villota and Andrea Guevara	Kinetic modelling of hydrogen peroxide concentration dosed to degrade sulphamethoxazole by UV/H ₂ O ₂	Reaction engineering and catalyst
1178	Joyce Tiong, Thomas C. K. Yang and Yeow Hong Yap	Complete removal of CO at ambient conditions using copper manganese oxide (CuMnOx) catalysts synthesised via co-precipitation with ultrasonic irradiation	Reaction engineering and catalyst
1179	Svenja Hanson, Chengyu Wang and Qichuan Shi	The overlooked potential of ultra-low temperature biochar	Cleaner production and circular economy
1180	Purusothmn Nair S Bhasker Nair, Dominic C.Y. Foo, Raymond R Tan and Michael Short	An Optimal Decarbonisation Policymaking Software Framework Inspired by Process Integration	Process system engineering
1181	Jin Voon Poi, Jia Ying Chua, Kien Ming Pen and Kian Fei Yee	Valorization of durian biomass waste into biochar-derived supercapacitor electrode materials	Cleaner production and circular economy
1182	Khai Shern Andersson T'Ng, Yoven Khor, Shu Wen Chang, Ke Ming Lim, Jing Brenden Su and Kian Fei Yee	A study on green and sustainable conversion of coffee ground waste into activated carbon via novel advanced self-activation approach	Cleaner production and circular economy
1183	Wei Wang and Yuxin Zhao	Rational Design and Fabrication of Copper@Polypyrrole Nanowires Aerogels for Piezoresistive Pressure Sensing	Nanotechnology and advanced materials
1184	Weng Pin Wong, Rashmi Walvekar, Mohammad Khalid and Mahesh Vaka	Economic and correlation analysis of parabolic trough collector (PTC) system in Malaysia, China and United States	Process system engineering
1185	Sim Ley Boon, Fu Jile and Chen Binghui	Study on High Temperature Hydrothermal Resistant Mn-Based Catalysts for Catalytic Oxidation of Ethyl Acetate	Reaction engineering and catalyst
1186	Wei Hang Desmond Goh, Hui Shen Lau and Wai Fen Yong	Life cycle assessment and techno-economic analysis on mixed matrix membranes for CO ₂ capture	Cleaner production and circular economy
1187	Suguru Noda, Heng Yi Teah, Mochen Li, Kentaro Kaneko, Yuichi Yoshie and Tomotaro Mae	Greener production of carbon nanotubes and battery applications	Cleaner production and circular economy
1189	Aya Kaide and Takashi Saeki	Production of biodiesel fuels (BDF) from waste edible oils with fluctuating properties using batch-type equipment	Cleaner production and circular economy
1190	Glebert Dadol and Noel Peter Tan	Removal of Inhibitor Compounds from Monosaccharides by Nanofiltration using a Thin-Film Nanofibrous Composite Membrane	Nanotechnology and advanced materials
1193	Zauyah Zamzam and Yoshikazu Kato	A New Invention on Energy-Saving High Efficiency Mixer For The Industrial Scale Practice	Chemical engineering education
1194	Sen Zhao, Jianjun Li, Jile Fu and Binghui Chen	Rational design of the Ni catalyst for low temperature benzene hydroalkylation	Reaction engineering and catalyst
1195	Woo Chang Sung, Hyun Seung Jung, Jun Young Kim, Jong Wook Bae and Dong Hyun Lee	Parametric studies on DME carbonylation to MA in a fluidized bed reactor	Reaction engineering and catalyst
1196	Kening Qin and Weng Hoong Lam	Comparative Life Cycle Assessment on the Utilization of Biopolymer-based Biosorbent for Copper Removal in Wastewater Treatment	Cleaner production and circular economy

1197	Mike Jayson Maquidang, Alyssa Mae Alib, Eken Zoe Calooy, Dave Anthony Villasista, Jayson Santos, Jonathan Jared Ignacio and Shiela Mae Amilbangsa	Centella asiatica L. extract as green corrosion inhibitor for low carbon steel under tropical seawater condition	Cleaner production and circular economy
1198	Xu Zhang and Ban Zhen Hong	AI-CFD Modeling for Chemical Vapor Dispersion in Laboratory	Process system engineering
1199	Wai Yin Wong	EFFECT OF TWO-POT HEAT TREATMENT ON FE-N-C/TI3C2 TOWARDS THE OXYGEN REDUCTION REACTION FOR FUEL CELL APPLICATION	Reaction engineering and catalyst
1200	Tan Wei Jian and Ban Zhen Hong	Investigation of Ammonia Water Evaporation Rate via Molecular Dynamics Simulation	Process system engineering
1201	Sanmel Cambarijan, Lianne Mican Lloren, Gladys Joyce Lomibao, John Christian Paderna, Shiela Mae Amilbangsa and Jonathan Jared Ignacio	Analysis of Cashew (Anacardium Occidentale) Nut Shell as Waste-derived Lost Circulation Material for Water-based Drilling Fluids	Chemical engineering fundamentals
1202	Joshua Bon Roco and Arnel Beltran	Optimizing Viability of Urban-Industrial Wastewater Management Strategies via P-graph	Waste treatment and management
1203	Shiela Mae Amilbangsa, Joshua Guzman, Prince Panes, April Faye Molina and Jonathan Jared Ignacio	Mechanistic Understanding of the Filter Cake Characteristics of Water-based Drilling Fluids with Waste Coconut Husks using 2k Factorial Design	Oil, gas & petrochemicals
1204	Han Wei Beh	Predictive Capability of Artificial Neural Network in n-Butene Skeletal Isomerization over Hierarchical ZSM-35 Zeolite	Process system engineering
1205	Jose M. Lomas, Natalia Villota and Sebastien Jankelevitch	Effect of pH on changes in color during sulphamethoxazole oxidation by UV/H2O2	Reaction engineering and catalyst
1206	Teck Ann Yeow and Jian Ping Tan	An Insight into Sustainable Circular Bioeconomy for Farm Management using Black Soldier Fly Larvae (BSFL)	Cleaner production and circular economy
1207	Cyrille Loro, Erlaine Opiso, Vannie Joy Resabal, Ivyleen Bernardo-Arugay, Joseph Ortenero, Arnel Beltran, Richard Alorro, Carlito Tabelin, Michael Angelo Bernalillo and Aileen Ordoñez	Application of spherical fuzzy analytic hierarchy process (SFAHP) in treatment technology selection for acid mine drainage (AMD)	Waste treatment and management
1208	Kam Yenh Hua, Paul Matejtschuk, Meenu Wadhwa, Sarah Hedberg and Daryl Williams	High-throughput formulation screening methods for prediction of protein stability	Bioproducts, food and bioprocessing
1209	Amer Said Ismail and Tan Ping	Review on the present state of the palm oil milling process and potential oil extraction rate (OER) enhancement methods	Sustainable palm oil
1210	Wee-Jun Ong	Modulating of non-noble metal semiconductors for solar/electro-to-chemical conversion: Bridging atomic-level insights with experimental analysis	Reaction engineering and catalyst
1211	Sue-Faye Ng and Wee-Jun Ong	Surface active-site engineering of N-rich carbon nitride allotropes for catalytic H2 production in acidic and alkaline media	Reaction engineering and catalyst
1212	Xin-Quan Tan and Wee-Jun Ong	Integrating Aspen Plus and life cycle assessment (LCA) study of photocatalytic, thermocatalytic dry methane reforming and biomass gasification toward syngas generation	Cleaner production and circular economy
1213	Hannah Jane Cenita, Christian Niervo, Kristin Danielle Marie Florendo, Geri Marice Dela Rosa, Shiela Mae Amilbangsa and Jonathan Jared Ignacio	Controlling the pH of prehydrated bentonite slurry containing acidic bio-based additive and its performance on filtration properties	Oil, gas & petrochemicals
1214	Szu-Han Chou, Chong Wei Ong and Cheng-Liang Chen	Simulation and Experimental Validation of Trace Gas Leakage Detection by Acoustic Method	Process system engineering
1215	Ramuel John Inductivo Tamargo	Microwave-Assisted Catalyst- and Additive-Free Multicomponent Synthesis of Diverse Bipyridines and their Heavy Metal Sensing Properties using Biorenewable and Safe Dipolar Aprotic Solvent	Reaction engineering and catalyst
1217	Naye Anne Ormeon, Eucer Rio Marañon, Alyssa Jean Olivina, Michael Angelo San Jose, Jonas George Arcilla, Karl Patrick Garcia, Shiela Mae Amilbangsa and Jonathan Jared Ignacio	Material Selection for Sweet Gas Production Pipeline: Application of Analytic Hierarchy Process and Failure Mode and Effects Analysis	Process safety and loss prevention
1218	Allian Peñaranda, Selina Khae Montederamos, Trisha Anne Bautista, Marc Joshua Salazar, John Cedric Pascual, Roy Alvin Malenab and Jonathan Jared Ignacio	Application of INVS DEMATEL in Health, Safety, Environment, and Ergonomic Assessment of Tire Manufacturing Industry During COVID-19 Pandemic	Process safety and loss prevention

1219	Byoung Wan Lee, Bongjun Choi, Seamin Park and Young-Seok Kim	Transparent freestanding Ti3C2Tx MXene conductive film for surface-functionalized electromagnetic wave shielding and electronic materials using polar aprotic organic solvent	Chemical engineering fundamentals
1222	Jin Su Hwang, Kyeong Youl Jung and Young-Seok Kim	Effective radiative cooling of dark-tone paints prepared by near-infrared reflective pigments	Chemical engineering fundamentals
1225	Hai Anh Hoang and Dukjoon Kim	High-voltage stable solid-state lithium battery based on the nano-conductor imbedded flexible hybrid composite solid electrolyte with hyper-ion conductivity and thermal, mechanical, and adhesive stability	Nanotechnology and advanced materials
1228	Chai Yi Ding, Pang Yean Ling, Steven Lim, Woon Chan Chong, Lai Chin Wei and Abdullah Ahmad Zuhairi	Enhanced sonocatalytic degradation of Congo Red by using oil palm empty fruit bunch-derived cellulose/silver doped on titanium dioxide composite	Sustainable palm oil
1229	Amni Haslinda Alpandi, Hazlina Husin and Akhmal Sidek	Characterization of Malaysian Jatropha Seed Oil and Discovering Process of Powdered Jatropha Leaves	Chemical engineering fundamentals
1230	Shie Teck Tiew, Nishanth Chemmangattuval, Jia Wen Chong, Raymond Tan, Kathleen Aviso, Yick Eu Chew, Ho Yan Lee and Yi Peng Heng	A novel predictive model for the design of fragrant molecules using rough set-based machine learning	Process system engineering
1231	Dhanang Edy Pratama, Wen-Chen Hsieh, Ahmed Elmaamoun, Hung Lin Lee and Tu Lee	Recovery of Active Pharmaceutical Ingredients from Unused Solid Dosage Form Drugs	Bioproducts, food and bioprocessing
1232	Amni Haslinda Alpandi, Hazlina Husin and Akhmal Sidek	Investigation of Jatropha-Based Inhibitors on Penara Waxy Crude Oil Apparent Viscosity	Oil, gas & petrochemicals
1234	Eidon Chung Han Chua, Siaw Khur Wee, Sie Yon Lau, Jibrail Kansedo, Sharul Dol, King Hann Lim and Anuj Nishanth Lipton	Microbial and Enzymatic Degradation for Biohydrogen Production by Bacillus sp. & Cereibacter sp.	Cleaner production and circular economy
1235	Korawit Maneeyot and Nuttapol Lerkkasemsan	Adsorption of Paraquat at High Concentration in Synthetic Wastewater by Using TiO2-Coated on Grain Activated Carbon from Coconut Shell	Chemical engineering fundamentals
1236	Billie Yan Zhang Hiew, Wan Ting Tee, Nicholas Yung Li Loh and Lai Yee Lee	Potential Application of Silica Aerogel in Treating Methylene Blue in Wastewater	Waste treatment and management
1237	Chanin Panjapornpon, Patcharapol Chinchalongporn, Santi Bardeeniz, Ratthanita Makkayatorn and Witchaya Wongpunnawat	Reinforcement Learning Control with Deep Deterministic Policy Gradient Algorithm for Multivariable pH Process	Process system engineering
1238	Chanin Panjapornpon, Patamawadee Chomchai, Santi Bardeeniz and Nanthasit Aiamsaartsri	Two-stage Deep Learning Fault Detection and Identification for Vinyl Chloride Monomer Process with Aberrant Measurements	Process system engineering
1240	Haruumi Takeda, Tsubasa Takada, Erika Okita, Takafumi Horie and Masahiro Yasuda	Formation of NOx for Metal Dissolution in Nitric Acid	Reaction engineering and catalyst
1241	Ya-Nan Zhou	Approaching Practically Accessible and Environmentally Adaptive Sodium Metal Batteries with High Loading Cathodes through In-Situ Interlock Interface	Reaction engineering and catalyst
1242	Mengyu Yan, Na Li and Weiyu Shen	Fabrication and modification of high performance sulfonated aromatic polymer membrane for pervaporation desalination	Reaction engineering and catalyst
1243	Han Duzhao	A Graphene-Coated Thermal Conductive Separator to Eliminate the Dendrite-Induced Local Hotspots for Stable Lithium Cycling	Reaction engineering and catalyst
1244	Jiangqi Zhou, Aiyue Sun and Duzhao Han	Packing sulfur species by phosphorene-derived catalytic interface for electrolyte-lean lithium-sulfur batteries	Reaction engineering and catalyst
1245	Zhuofan Gan and Wei Tang	Confinement of Pt NPs by Hollow-Porous-Carbon-Sphere via Pore Regulation with Promoted Activity and Durability in Hydrogen Evolution Reaction	Reaction engineering and catalyst
1246	Zichun Xiao	A Universal Strategy For N-Doped 2D Carbon Nanosheets With Sub-Nanometer Micropore For High-Performance Supercapacitor	Nanotechnology and advanced materials
1247	Chunqing Cai, Adroit T.N. Fajar, Takafumi Hanada and Masahiro Goto	Integrated Leaching and Selective Recovery of Cobalt Using an Amino Acid-Based Aqueous Biphasic System from Spent Lithium-ion Batteries	Cleaner production and circular economy

1248	Vikram Karde, Christopher R. Cheeseman and Jerry Y. Y. Heng	Shell waste based functionalised coatings for generating superhydrophobic surfaces	Chemical engineering fundamentals
1249	Vikram Karde, Marv J. Khala, Colin Hare and Jerry Y. Y. Heng	A quick and contactless analysis of powder mixing conditions using a shear-sensitive coloured tracer	Chemical engineering fundamentals
1250	Lynne Jerisa Castro, Araceli Monsada, Jayvee Tabal, Zamantha Nadir Martin, Clairezelle Maclaine Cruz, Jeffrey Aborot and Angela Salvador	Application of Intelligent Data Analysis System (IDAS) in Methamphetamine-HCl FTIR Spectra	Chemical engineering fundamentals
1251	Yu Fu	Zwitterionic Covalent Organic Frameworks: Attractive Porous Host for Gas Separation and Anhydrous Proton Conduction	Reaction engineering and catalyst
1255	Siew Shee Lim, Christopher De Sheng Wong, Rui Hong Teoh, Ming Xiang Hor, Jia Rhen Loo, Raymond Girard R. Tan and Dominic Foo	Techno-economic and environmental assessment of ultraviolet crosslinked fish scales gelatin nanofibers for wound healing	Cleaner production and circular economy
1258	Yick Eu Chew, Wei Wen Wee, Timothy Walmsley and Dominic Chwan Yee Foo	Heat Recovery of Milk Powder Production With Recirculation of Exhaust Air	Process system engineering
1260	Yen Wei Chin and Sze Pheng Ong	Drying Characteristics and Energy Efficiency of Heat Pump Dryer for Industrial Electroplating Sludge Drying	Process system engineering