

## Poster Presentation

No.	Title of the paper	Author(s)	Page
P-01	Enhancing supercapacitor performance by means of urea-infused NiCo metal-organic framework composite electrodes	<u>Meiying Pei</u> , Meiying Cui, Seok Kim*	1
P-02	Synthesis of highly active double metal cyanide catalysts for producing polyether polyols using hydrothermal method	<u>So-Young Kim</u> , Il Kim*	2
P-03	Controlled Synthesis of Polyester Polyols Based on Prussian Blue Analogues-Catalyzed Ring-Opening Polymerization of Cyclic Esters	<u>ByeongRyeol Moon</u> , Il Kim*	3
P-04	Synthesis of non-isocyanate polyurethane foam with sustainable waste vegetable oil obtained from nature	<u>Byeol Han</u> , Il Kim*	4
P-05	Synthesis of polycarbonate polyols via copolymerization and terpolymerization of CO <sub>2</sub> with epoxides for non-isocyanate polyurethane	<u>Ju-Yeong Heo</u> , Il Kim*	5
P-06	Improvement of acetate productivity in CO <sub>2</sub> microbial electrosynthesis by different ratio of medium replacement	<u>Ji In Yoo</u> , Jung Rae Kim*	6
P-07	Anti-solvent free vacuum assist-perovskite solar cell by using Ammonium salt additives	<u>Kyungmin Lee</u> , Hyo Jung Kim*	10
P-08	Transmissive-to-Black Electrochromic Fabric Devices Containing NIR-absorbing Asymmetric Viologens	<u>Do Yeon Kim</u> , Jong S. Park*	11
P-09	Triethoxysilyl-Terminated Telechelic Liquid Butadiene Rubber with Disulfide Linkages for EV Tire Tread	<u>Haeun Choi</u> , Sanghoon Song, Gyeongdong Yeom, Donghyuk Kim, Seongyeon Kim, Junhwan Jeong, Kiwon Hwang, Sang-Woo Joo, Sungwook Chung*, Wonho Kim*, Hyun-jong Paik*	13
P-10	Fabrication of Epoxy Composite Reinforced with Epoxy Microspheres Coated RGO and BPEI for Increasing Thermal Conductivity	<u>Dayoung Kim</u> , Suyeon Lee, Ahram Jeong, Dong Gi Seong*	14
P-11	Enhancement of shock wave attenuation of structure-modified aramid fiber reinforced plastic using polydimethylsiloxane	<u>Tae Kyeom Kim</u> , Shin Woo Ryu, Jae Jun Lee, Dong Gi Seong*	15
P-12	Steering Actuation Direction in Liquid Crystal Elastomer Fibers: From Contraction to Expansion	<u>Seungjoon Oh</u> , Jin-Hyeong Lee, Suk-kyun Ahn*	16

P-13	Covalent Adaptable Networks Incorporating Both Aminoester and Imine Bonds Toward Rapid Reprocessing	<u>Sooji Hwang</u> , Suk-kyun Ahn*	17
P-14	Enhancement of germination and photosynthetic cell growth of <i>Haematococcus pluvialis</i> by mechanical collision	<u>Catherine Christabel</u> , Hyoji Yu, Sangui Kim, Laxmi Priya Sathiyavahisan, Dea Prianka Ayu Ilhamsyah, Bolam Kim, You-Kwan Oh*	18
P-15	Predicting dyeing color properties of recycled PET by Artificial Neural Network	<u>HyeokJun Cho</u> , Jung Eun Lee, Seung Geol Lee,*	19
P-16	Effect of Strong Metal-Support Interaction in Carbon Nanotube Synthesis	<u>Jiwoo Kim</u> , Jaegun Lee*	20
P-17	Metal-intercalated Layered Double Hydroxide catalyst for Carbon Nanotube Synthesis	<u>Yeon Su Shin</u> , Jaegun Lee*	21
P-18	Improved Stability of Silicon Anode through the Synergistic Robust Network Structure and Hydrogen Bonds of Cross-linked Waterborne Polyurethane Binder	<u>Taekyun Kwon</u> , Jin Hong Lee*	22
P-19	Stress-dissipative Elastic Waterborne Polyurethane Binders for Silicon Anode with High Structural Integrity in Lithium-ion Batteries	<u>Ji-oh Kim</u> , Jin Hong Lee*	23
P-20	A Multifunctional Interlocked Binder with Synergistic In Situ Covalent and Hydrogen Bonding for High Performance Si Anode in Li-ion Batteries	<u>Eun Sol Lee</u> , Jin Hong Lee*	24
P-21	Molecular Design for Highly Cross-linkable Poly(vinylidene fluoride) (PVDF) Terpolymer Binders for High Performance of Silicon Anode in Lithium-Ion Batteries	<u>Eun Young Lim</u> , Hin Hong Lee*	25
P-22	Efficient Removal of Dye from Water Using a Core-Shell Structure of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> @ TiO <sub>2</sub>	<u>Kyubeom Lee</u> , Yu- jeong Jeong, Sungwook Chung*	26
P-23	Multi-functionalized Liquid Co-Polymer as Processing Aids for Electric vehicles	<u>Junhwan Jeong</u> , Yeonguk Kim, Jaehyeok Lee, Sanghoon Song, Seungyeon Kim, Wonho Kim, Sungwook Chung*	27
P-24	BreakLab: GUI application for adsorption breakthrough simulation	<u>Hassan Muhammad</u> , Yoon Sunghyun, Yongchul G. Chung*	28

P-25	Synthesis and Characterization of Polyrotaxane based on Modified $\beta$ -Cyclodextrin	<u>Chaijun Lee,</u> Jinwoong Jung, Ildoo Chung*	29
P-26	Synthesis and Characterization of Dental Hybrid Composite Utilizing Catechol Polymers	<u>Chaeyoung Jeon,</u> Sujin Kim, Ildoo Ching*	30
P-27	Biocompatible and Biodegradable L-Lysine Polyurethane (LPU) Nanoparticles for Drug Delivery System	<u>Soojeong Choi,</u> Seoeun Oh, Ildoo Chung*	31
P-28	Comparison of two processes of surface-modified cellulose and ultra high molecular weight poly propylene composites	<u>Jae-Ryong Lee, Ju-Hong Lee</u> Won-Bin Lim, Jin-Gyu Min, Ji-Hong Bae and PilHo Huh*	32
P-29	All solid polymer battery with thiophene derivatives for low interfacial resistance	<u>Ju-Won Hwang,</u> Yul Eum, and Nam-Ju Jo*	33
P-30	Rheological and Mechanical Properties of Polylactic Acid/Polyethylene Oxide/Cellulose Nanocrystal (CNC) Nanocomposites	<u>Daehan Oh,</u> Sumkun Lee, Seunghyeon Jin, Kyu Hyun*	34
P-31	Investigation of Particle Dispersibility of Anode Slurries for Lithium-ion Battery using Nonlinear-Linear Viscoelastic Ratio (NLR)	<u>Jeonghyeon Lee,</u> Minseo Park, Jaehyun Kim, Kyu Hyun*	35