Poster Program

Dec. 01, 2025 (Mon.) 12:00-14:20

Poster No.	Abs. No.	Presenter	Presenter Affiliation	Title
P-01	0004	Taichi Kida*, Minako Deguchi, Masashi Ishikawa*	Kansai University, Japan	Solid-Solid Interface Design for High Energy Density Electric Double Layer Capacitors
P-02	0005	Sumire Fukuda, Junichi Inamoto, Yoshiaki Matsuo, Minako Deguchi, Masashi Ishikawa*	Kansai University, Japan	Capacitive behavior of GLG in FSI-based ionic liquid electrolytes for high voltage operation
P-03	0011	Szu-Chen Wu, Syun-Hong Chou, Ta-Chung Liu*	Minghsing University and Science and Technology, Taiwan	Hierarchical Nitrogen-Doped Porous Carbon Derived from Silk Fibroin/ZIF-8 Composite for High-Performance Supercapacitor Electrodes
P-04	0012	Pradeep Nayak*, Ismayil	Manipal Institute of Technology, India	Chitosan-Dextran Blend Polymer Electrolytes for Magnesium-Ion Devices: From Batteries to Capacitors
P-05	0013	Hao-Lun Juan, Ching-Yu Hu, Hsisheng Teng*	National Cheng Kung University, Taiwan	Design on Electrolyte and Lithiated-Anode for Wide-Temperature Operation of Lithium-Ion Capacitors
P-06	0017	Ryudo Tabata, Mitsuru Yamada, Nobuo Ando, Naohiko Soma, Mika Fukunishi, Futoshi Matsumoto*	Kanagawa University, Japan	An Improved Pre-Lithiation of Graphite Anodes Using Through-Holed Cathode and Anode Electrodes in Laminated Lithium-Ion Battery and Capacitor
P-07	0018	Dahan Sui, Mitsuru Yamada, Nobuo Ando, Naohiko Soma, Mika Fukunishi, Futoshi Matsumoto*	Kanagawa University, Japan	Improvement of High-Rate Performance of LiFePO4 Cathode with Through-Holed LiFePO4/Activated Carbon Hybrid Electrode Structure Fabricated with a Pico-second Pulsed Laser
P-08	0019	Takuya Eguchi,*, Shogo Kawamata, Reiichi Chiba, Seiji Kumagai	Nihon University, Japan	Electrochemical Characteristics of Lithium-ion Capacitors Using Binder-Coated Si Negative Electrode
P-09	0020	Tatsuki Hozumi, Reiichi Chiba, Seiji Kumagai, Daisuke Tashima, Takuya Eguchi*	Nihon University, Japan	Effect of Electrode Heat Treatment on the Rate Characteristics and Cycle Characteristics of Si Electrodes Using Kenaf-Derived Lignin Binder in Half Cells
P-10	0023	Yu-Chun Chen, Chi-Chang Hu*	National Tsing Hua University, Taiwan	Electrochemical Activation Engineering of Alkali-Treated Soft Carbons for High-Performance Energy Storage
P-11	0025	Shilpa Shetty, M. Selvakumar*	Manipal Institute of Technology, India	Engineered $SnCo_2O_4$/Carbon Nanofiber Nanocomposites for Flexible Micro-Supercapacitors, Humidity Sensor and Electrochemical Sensors toward the Sensitive Detection of Pharmaceutical Drug Naproxen
P-12	0026	Yi-Cheng Liao, Wen-Yang Jao, Chi-Chang Hu*	National Tsing Hua University, Taiwan	Enhancing Capacitance in LICs via Optimizing Irreversible Faradaic Reactions during Electrochemical Activation
P-13	0028	Yun-Syuan Liang, Wei-Lun Li, Cheng Wu, I-Ching Tseng, Shih-Lung Yu, Yun-Tai Yu, Kai-hsun Lin, Kuan-Chun Liu, Miao-Ju Lin, Sheng Yun Wu, Meng-Chu Chen*	National Taitung University, Taiwan	Structural and Electrochemical Investigation of $Sr_2SiO_4:Dy^{3+}$ Electrode Materials for Supercapacitors under Co-60 γ Irradiation
P-14	0032	Jarrn-Horng Lin	National Tsing Hua University, Taiwan	Converting Environmental Wastes (CO_2 and biomass) into value-added Carbon Materials and using them in Energy Storage Devices

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P-15	0034	Che-Wei Yan, Jeng-Kuei Chang*	National Yang Ming Chiao Tung University, Taiwan	Multi-Solvent Electrolytes for Enhanced High-Voltage Performance of Electric Double-Layer Supercapacitors
P-16	0036	Jing-Cheng Liang, Yun Ku, Chi-Chang Hu*	National Tsing Hua University, Taiwan	Influence of pore distribution and functional group of Activated Carbon on the Self-discharge of Supercapacitors
P-17	0037	Shih-Sheng Chen, Bo-Hong Chen, Sheng-Kuei Chiu*	National University of Tainan, Taiwan	Hydrothermal Synthesis of Ternary Cobalt-Nickel-Molybdenum Oxide for High-Performance Supercapacitor Electrodes
P-18	0041	Nirmal Kumar Sakthivel, Mani Govindasamy*, Pin Yi Chen*	Ming Chi University of Technology, Taiwan	Synergistic NiCo-LDH/ MXene Nanoribbon Hybrids: In-Situ Engineering for Advanced Capacitor Applications
P-19	0045	Yi-Chen Sun, Yu-Jr Chang, Dhanaprabhu Pattappan, Chen-Chieh Liao, You-Zheng Wu, Yi-Ting Lai*	Ming Chi University of Technology, Taiwan	Activated Carbon Derived from Waste Tire for Supercapacitor Application
P-20	0046	Hsing-Mei Chou*, Yi-Heng Tu, Chi-Chang Hu	National Tsing Hua University, Taiwan	Application of Modified Activated Carbon Systems for Valuable Metal Ion Capture (canceled)
P-21	0051	Jessica Chaparro-Garnica, Emerson Vega-Ramírez, Emilia Morallon, Diego Cazorla-Amorós	Universidad de Alicante, Spain	Sustainable Biomass-Derived N, P Co-Doped Activated Carbons for High-Performance Supercapacitor Electrodes
P-22	0054	Chang-Chieh Yu*, Yi-Heng Tu, Hung-Yi Huang, Chi-Chang Hu	Department of Chmical Engineering, National Tsing Hua University	Polypyrrole Protective Layers on Hydrated Vanadium Oxides as Novel Cation Capturing Materials for Electrochemical Deionization
P-23	0056	Chen-Chieh Liao, Dhanaprabhu Pattappan, Tse-Yang Wang, Yi-Ting Lai*	Ming Chi University of Technology, Taiwan	Electro-assisted construction of silane-bridging modified graphene electrode for electrochemical method in heavy metal removal and pollutant degradation
P-24	0058	Shu-Huei Hsieh*, Zhi-Xin Yang	National Formosa University, Taiwan	Effect of pH during Hydrothermal Fabrication of MoS_2 and MoS_2/GO Composites
P-25	0059	Yue Liu, Yoshikiyo Hatakeyama, Soshi Shiraishi*	Gunma University, Japan	Heat-Treated Fullerene Mixtures for Electrochemical Capacitors
P-26	0060	Seii Yamamoto, Yoshikiyo Hatakeyama, Soshi Shiraishi*	Gunma University, Japan	The Relationship Between Battery Capacity and Double-Layer Capacitance in Lithium–Air Batteries.
P-27	0064	Camille Douard, Hugo Mazoyer, David Brown, Olivier Crosnier, Zineb El Kacemi, Laurence Athouël, Jean-Yves Mevellec, Julio Cesar De Luca, Yannick Amosse, Achraf Belkhiri, Jon Ajuria, Paulo Luis, Maria Arnaiz, Thierry Brousse	Nantes Université, CNRS, France	A second life for recycled carbon fibers in Sodium ion capacitors
P-28	0069	Yao-Yang Chang, Jarrn-Horng Lin*, Yu-Hsien Liao	National Tsing Hua University, Taiwan	Hierarchical Porous Carbon Derived from Sodium Ligninsulfonate for Enhanced Electric Double-Layer Capacitors Performance
P-29	0070	Po-Hung Wang, Jarrn-Horng Lin*, Li-Ming Lu	National Tsing Hua University, Taiwan	Converting waste polyethylene terephthalate into hierarchical porous carbons for high-performance Supercapacitors
P-30	0077	Nicharee Panyaporn, Naeti Jaiphian, Sonti Khamsanga, Jiaqian Qin, Prasit Pattananuwat*	Chulalongkorn University, Thailand	Kenaf Fiber-Derived Carbon/Polyaniline Composites for Sustainable Zinc-Ion Hybrid Supercapacitors

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P-31	0078	Suthima Suthasup, Phetkla Sonsang, Chatr Panithipongwut Kowalski, Prasit Pattananuwat*	Chulalongkorn University, Thailand	Boosting Photoinduced Charging Efficiency in Polyaniline Supercapacitors via Zn(II)-Porphyrin Integration
P-32	0079	Pannarot Kitpimonkul, Nicharee Panyaporn, Prasit Pattananuwat*	Chulalongkorn University, Thailand	Polyaniline/Tungsten Trioxide Composite Films for Dual-Functional Electrochromic and Supercapacitor Applications
P-33	0082	Takumi Ambe*, David Quintero, Mana Iwai, Sho Kitano, Koji Fushimi, Hiroki Habazaki	Hokkaido University, Japan	Influence of the dielectric-conductive interface on the breakdown voltage of conductive polymer solid capacitors
P-34	0086	Yen-Shuo Huang, Tzu-Chi Su , Sanna Gull, Han-Yi Chen*	National Tsing Hua University, Taiwan	3D porous reduced graphene oxide-coated zinc anodes for highly-stable aqueous zinc-ion capacitors via electrostatic spray deposition
P-35	0088	Chung-Xun Chuang, Jeng-Yu Lin*	Tunghai University, Taiwan	Dimethyl sulfoxide–based hybrid deep eutectic electrolytes for wide-window and low-temperature for high-performance supercapacitors
P-36	0089	Po-Yu Shen, Jeng-Yu Lin*	Tunghai University, Taiwan	Binder-Free $Co_{0.85}Se/Ni_3Se_2$ Heterostructured Electrode Prepared via Electrodeposition for High-Rate Electrochemical Energy Storage
P-37	0090	Shota Kuchimoto, Keisuke Muramatsu*, Yuki Tokura, Wataru Sugimoto*	Shinshu University, Japan	Selective Dissolution of Birnessite-Type MnO_2 to Create Open Pores Serving as Pathways to Interlayer Surfaces
P-38	0091	Zhi-Ting Huang, Marcin Krajewski, Jeng-Yu Lin*	Tunghai University, Taiwan	Engineered PVDF-HFP/deep eutectic solvent membranes as non-flammable and flexible quasi-solid-state electrolytes for safe and flexible high-voltage supercapacitors
P-39	0095	Olivier Crosnier, Célia Clementz*, Sandrine Berthon-Fabry, Phillipe Happiot, Corinne Lagrost, Yann Leroux	Nantes Université - CNRS - IMN, France	Aryldiazonium grafted porous carbon electrode materials for electrochemical capacitors
P-40	0098	Yun Ku, Hao-Yu Ku, Ai-Ling Huang, Hung-Yi Huang, Wen-Yan Chang, Jing-Cheng Liang, Chi-Chang Hu*	National Tsing Hua University, Taiwan	Unraveling Self-Discharge Mechanisms and Long-Term Stability in EDLCs with Solvent Additives
P-41	0057	Wei-Cheng Chen , Lu-Yin Lin *	National Taipei University of Technology, Taiwan	Mn-G Modified Cobalt Sulfides for Supercapacitor Applications
P-42	0040	Kenji Machida[1*], Satoyuki Tatsumi[1], Kazuya Koseki[1], Kazuhiro Nagahara[1], and Hidenori Okuzaki[2]	Nippon Chemi-Con Corporation, Japan	Development of a 450V High-Voltage Aluminum Polymer Capacitor
P-43	0039	Yan-You Liu, Lu-Yin Lin	National Taipei University of Technology, Taiwan	Facile Solvent-Engineered Synthesis of ZIF-67 Derivatives toward High-Performance Supercapacitor Electrodes
P-44	0035	Nindita Kirana, Jeng-Kuei Chang*	National Yang Ming Chiao Tung University, Taiwan	Fabrication of Thin Lithium-Metal Anode Using Stabilized Lithium Metal Powder for High-Energy-Density Supercapacitors
P-45	0024	Alar Jänes*, Jaanus Eskusson, Karl-Sten Põder, and Enn Lust	University of Tartu, Estonia	High Energy Density Zn-Ion Hybrid Supercapacitors
P-46	0100	Ching-Yu Peng*, Wei-Han Chen	Department of Water Resources and Environmental Engineering, Tamkang University, Taiwan	Application of Rice Husk Activated Carbons in Flow-Electrode Capacitive Deionization (FCDI) System for Remediation of Nickel-Containing Groundwater