

2024 Bimonthly Most Downloaded Papers

Editorial Board of *Electrochemistry*
The Electrochemical Society of Japan

Month	Title	Authors	Volume, Number, pages, year	DOI	Counts
JAN FEB	Cyclic Voltammetry Part 1: Fundamentals	Hirohisa YAMADA, Kazuki YOSHII, Masafumi ASahi, Masanobu CHIKU, and Yuki KITAZUMI	90(10),102005(2022)	https://doi.org/10.5796/electrochemistry.22-66082	1724
	Electrochemical Impedance Spectroscopy Part 1: Fundamentals	Kingo ARIYOSHI, Zyun SIROMA, Atsushi MINESHIGE, Mitsuhiro TAKENO, Tomokazu FUKUTSUKA, Takeshi ABE, and Satoshi UCHIDA	90(10),102007(2022)	https://doi.org/10.5796/electrochemistry.22-66071	896
	Electrical Conductivity Measurement of Electrolyte Solution	Minoru MIZUHATA	90(10),102011(2022)	https://doi.org/10.5796/electrochemistry.22-66111	595
MAR APR	Cyclic Voltammetry Part 2: Surface Adsorption, Electric Double Layer, and Diffusion Layer	Hirohisa YAMADA, Kazuki YOSHII, Masafumi ASahi, Masanobu CHIKU, and Yuki KITAZUMI	90(10),102006(2022)	https://doi.org/10.5796/electrochemistry.22-66084	673
	Electrochemical Impedance Spectroscopy Part 2: Applications	Kingo ARIYOSHI, Zyun SIROMA, Atsushi MINESHIGE, Mitsuhiro TAKENO, Tomokazu FUKUTSUKA, Takeshi ABE, and Satoshi UCHIDA	90(10),102008(2022)	https://doi.org/10.5796/electrochemistry.22-66080	471
	Study on Prediction Model of Performance and Degradation of LFP/Graphite Lithium-ion Battery (LFP/Graphiteリチウムイオン電池の性能および劣化の予測モデルに関する研究)	Tsutomu HASHIMOTO, Hirokazu MUNAKATA, and Kiyoshi KANAMURA (橋本 勉, 棟方 裕一, 金村 聖志)	89(3),303-312(2021)	https://doi.org/10.5796/electrochemistry.20-00140	374
MAY JUN	Electrochemical Polarization Part 1: Fundamentals and Corrosion	Kentaro KURATANI, Kazuhiro FUKAMI, Hiroaki TSUCHIYA, Hiroyuki USUI, Masanobu CHIKU, and Shin-ichi YAMAZAKI	90(10),102003(2022)	https://doi.org/10.5796/electrochemistry.22-66085	480
	Electrochemical Impedance and Complex Capacitance to Interpret Electrochemical Capacitor	Masayuki ITAGAKI, Satoshi SUZUKI, Isao SHITANDA, and Kunihiro WATANABE	75(8),649-655(2007)	https://doi.org/10.5796/electrochemistry.75.649	357
	Analytical Observation of Cathodic Zinc Deposition in High-Capacity Zinc Oxide Electrodes for Rechargeable Zinc-based Batteries: Influence of the Current Rate in the First Charging	Mitsuhiro KISHIMI, Masahito MORITA, Tatsumi HIRANO, Hisao KIUCHI, Kentaro KAJIWARA, Tomoya KAWAGUCHI, Akiyoshi NAKATA, Hajime ARAI, Eiichiro MATSUBARA, Zempachi OGUMI, Masayuki MORITA, and Takeshi ABE	92(5),057001(2024)	https://doi.org/10.5796/electrochemistry.24-00022	329
JUL AUG	Redox Materials for Electrochemical Capacitors	Masanobu CHIKU, Mozaffar ABDOLLAHIFAR, Thierry BROUSSE, George Z. CHEN, Olivier CROSNIER, Bruce DUNN, Krzysztof FIC, Chi-Chang HU, Paweł JEŻOWSKI, Adam MAĆKOWIAK, Katsuhiko NAOI, Nobuhiro OGIHARA, Naohisa OKITA, Masashi OKUBO, Wataru SUGIMOTO, and Nae-Lih WU	92(7),074002(2024)	https://doi.org/10.5796/electrochemistry.24-70054	444
	Recent Progress in Electrolyte Systems for Supercapacitors	Masashi ISHIKAWA, Kaoru DOKKO, Hsisheng TENG, Simon LINDBERG, Jon AJURIA, Andrea BALDUCCI, and Elzbieta FRACKOWIAK	92(7),074003(2024)	https://doi.org/10.5796/electrochemistry.24-70044	369
	Blending Lithium Nickel Manganese Cobalt Oxide with Lithium Iron Manganese Phosphate as Cathode Materials for Lithium-ion Batteries with Enhanced Electrochemical Performance	Mayu SHIOZAKI, Hiroki YAMASHITA, Yuko HIRAYAMA, Takaaki OGAMI, and Kiyoshi KANAMURA	91(7),077007(2023)	https://doi.org/10.5796/electrochemistry.23-00033	327
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	Relation between Mixing Processes and Properties of Lithium-ion Battery Electrode-slurry	Mitsuhiro TAKENO, Seiji KATAKURA, Kohei MIYAZAKI, Takeshi ABE, and Tomokazu FUKUTSUKA	89(6),585-589(2021)	https://doi.org/10.5796/electrochemistry.21-00076	289
	A Dynamic Analysis of Reversible/Irreversible Capacity Fading of Li-ion Cells Owing to Low-temperature Operation by Differential Capacity Profile	Shuo LI, Sayoko SHIRONITA, Eiji HOSONO, Daisuke ASAKURA, Yoshitsugu SONE, and Minoru UMEDA	92(9),097007(2024)	https://doi.org/10.5796/electrochemistry.24-00081	282
NOV DEC	Electrochemical Impedance Analysis of Lithium Insertion Electrodes Using Symmetric Cells	Kingo ARIYOSHI	92(3),037007(2024)	https://doi.org/10.5796/electrochemistry.24-00013	371
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	Moisture Exposure as Pretreatment of Sulfide Solid Electrolytes for All-Solid-State Batteries	Hikaru SANO, Yusuke MORINO, Akihiro SHIOTA, Tsukasa TAKAHASHI, Norihiko MIYASHITA, and Koji KAWAMOTO	92(11),117002(2024)	https://doi.org/10.5796/electrochemistry.24-00090	342