

2021 Bimonthly Most Downloaded Papers

Editorial Board of *Electrochemistry*
The Electrochemical Society of Japan

Month	Title	Authors	Volume, Number, pages, year	DOI	Counts
JAN FEB	Hydrothermal Synthesis and Electrochemical Properties of $\text{Li}_2\text{Fe}_x\text{Mn}_x\text{Co}_{1-2x}\text{SiO}_4/\text{C}$ Cathode Materials for Lithium-ion Batteries	Hiroki YAMASHITA, Takaaki OGAMI, and Kiyoshi KANAMURA	83(6),413-420(2015)	https://doi.org/10.5796/electrochemist.ry.83.413	366
	Effects of Pressure on Stability of Nafion Membrane under Water Electrolysis (ナフィオン膜の電解条件下での安定性に及ぼす圧力の影響)	Hiroyuki MICHISHITA, Kei-ichi AKABORI, Keiji TANAKA, Hiroshige MATSUMOTO, Daizou HARUTA, Yoshinori NAGATA, Nagaaki YAMAMOTO, and Tatsumi ISHIHARA (道下 浩征, 赤堀 敬一, 田中 敬二, 松本 広重, 春田 大蔵, 永田 吉憲, 山本 壽昭, 石原 達己)	78(1), 42-49(2010)	https://doi.org/10.5796/electrochemist.ry.78.42	176
	First-principles Study of the Bulk Properties for LiMPO_4 Compounds ($M=\text{Mn, Fe, Co, Ni}$) as Cathode Materials for Lithium Ion Battery (第一原理バンド計算によるリチウムイオン電池正極材料 LiMPO_4 ($M=\text{Mn, Fe, Co, Ni}$)のバルク特性の研究)	Masanobu NAKAYAMA, Masataka WAKIHARA (中山 将伸, 脇原 将孝)	76(10),752-762(2008)	https://doi.org/10.5796/electrochemist.ry.76.752	159
MAR APR	High-Pressure Synthesis of Cation-Disordered Rock-Salt Oxyfluorides with High Crystallinity	Takeshi UYAMA, Kazuhiko MUKAI, and Ikuya YAMADA	89(2),94-99(2021)	https://doi.org/10.5796/electrochemist.ry.20-65130	3679
	Strategy for Cyclability Prolongation of $\text{Li}_3\text{VO}_4/\text{Li}_3\text{V}_2(\text{PO}_4)_3$ Full Cells Based on Charge-Discharge Cycling Simulation	Yu CHIKAOKA, Reiko OKUDA, Etsuro IWAMA, Masafumi KUWAO, Wako NAOI, and Katsuhiko NAOI	89(2),204-210(2021)	https://doi.org/10.5796/electrochemist.ry.20-00162	601
	Effect of Separator and Anode on Electrochemical Characteristics and Crystal Structure of Lithium-ion Battery Cathode Material $0.4\text{Li}_2\text{MnO}_3\cdot 0.6\text{LiMn}_{1/3}\text{Ni}_{1/3}\text{Co}_{1/3}\text{O}_2$	Noriko KASAI, Ryota FUJISHIMA, Naoya ISHIDA, Naoto KITAMURA, and Yasushi IDEMOTO	89(2),148-156(2021)	https://doi.org/10.5796/electrochemist.ry.20-00126	246
MAY JUN	Interfacial and Internal Proton Conduction of Weak-acid Functionalized Styrene-based Copolymer with Various Carboxylic Acid Concentrations	Athchaya SUWANSOONTORN, Katsuhiko YAMAMOTO, Shusaku NAGANO, Jun MATSUI, and Yuki NAGAO	Advanced Online Publication	https://doi.org/10.5796/electrochemist.ry.21-00042	181
	High-speed Removal of Nitrate from Aqueous Solutions by the Electrolytic Method (電解法による水溶液中の硝酸性窒素の高速除去)	Naoki HIRO, Tomohito KOIZUMI, Tsuyoshi RAKUMA, Daizou TAKAOKA, and Kikuo TAKIZAWA (広 直樹, 小泉 友人, 梁間 毅, 高岡 大造, 滝沢 貴久男)	70(2), 111-116(2002)	https://doi.org/10.5796/electrochemist.ry.70.111	164
	Effect of Na_3BO_3 Addition into $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Single-Phase All-Solid-State Batteries	Akira NISHIO, Nobuaki SHIRAI, Hironari MINAMI, Hiroaki IZUMI, Atsushi INOISHI, and Shigeto OKADA	89(3), 244-249(2021)	https://doi.org/10.5796/electrochemist.ry.21-00023	141
JUL AUG	Effects of Lithium Salt Concentration in Ionic Liquid Electrolytes on Battery Performance of $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2/\text{Graphite}$ Cells	Takuya TAKAHASHI, Masashi ISHIKAWA, Yosuke UGATA, Kaoru DOKKO, And Masayoshi WATANABE	89(5), 455-460(2021)	https://doi.org/10.5796/electrochemist.ry.21-00075	221
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	Capacity Deterioration Analysis of Li-ion Battery Cathode $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ Material by Soft X-ray Absorption Spectroscopy (リチウムイオン電池正極材料 $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ の劣化解析)	Tetsuo NAGAMI, Toyokazu NOMOTO, Harue SUGIYAMA, Shoji TACHIKI, Ren SAKAMOTO, and Toshiaki OHTA (永見 哲夫, 野本 豊和, 杉山 陽榮, 立木 翔治, 坂本 康, 太田 俊明)	89(4),363-369(2021)	https://doi.org/10.5796/electrochemist.ry.21-00031	175
SEP OCT	A Trifluoroacetate-based Concentrated Electrolyte for Symmetrical Aqueous Sodium-ion Battery with NASICON-type $\text{Na}_2\text{VTi}(\text{PO}_4)_3$ Electrodes	Kosuke NAKAMOTO, Ryo SAKAMOTO, Yuki NISHIMURA, Jingyu XIA, Masato ITO, and Shigeto OKADA	89(5), 415-419(2021)	https://doi.org/10.5796/electrochemist.ry.21-00056	313
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	Free Analysis and Visualization Programs for Electrochemical Impedance Spectroscopy Coded in Python	Kiyoshi KOBAYASHI and Tohru S. SUZUKI	89(2),218-222(2021)	https://doi.org/10.5796/electrochemist.ry.21-00010	186