

2022 Annually Most Downloaded Papers

Editorial Board of *Electrochemistry*
The Electrochemical Society of Japan

Ranking	Title	Authors	Volume, Number, Pages, Year	DOI	Counts
1	Electrochemical Impedance and Complex Capacitance to Interpret Electrochemical Capacitor	Masayuki ITAGAKI, Satoshi SUZUKI, Isao SHITANDA, Kunihiro WATANABE	75(8),649-655(2007)	https://doi.org/10.5796/electrochemistry.75.649	1567
2	Property, Electronic and Crystal Structures, Thermodynamic Stability, and Cathode Performance of $\text{Li}_x(\text{Mn, Co, Ni, M})\text{O}_2$ (M=Al, Ti, Fe) as a Cathode Active Material for Li Secondary Battery (リチウム二次電池正極活物質 $\text{Li}_x(\text{Mn, Co, Ni, M})\text{O}_2$ (M=Al, Ti, Fe) の物性, 結晶・電子構造, 熱力学的安定性と電池特性)	Yasushi IDEMOTO, Takaaki MATSUI (井手本 康, 松井 貴昭)	75(10),791-799(2007)	https://doi.org/10.5796/electrochemistry.75.791	1331
3	Impact of Surface Coating on the Low Temperature Performance of a Sulfide-Based All-Solid-State Battery Cathode	Yusuke MORINO	90(2),027001(2022)	https://doi.org/10.5796/electrochemistry.21-00126	1324
4	Cycle Degradation Analysis by High Precision Coulometry for Sulfide-Based All-Solid-State Battery Cathode under Various Potentials	Yusuke MORINO, Hirofumi TSUKASAKI, Shigeo MORI	90(4),047003(2022)	https://doi.org/10.5796/electrochemistry.22-00018	1264
5	Properties of Carbon-coated SiO-C Negative Electrodes for Sulfide-type All-solid-state Batteries (導電性カーボンで被覆したSiO-C塗布負極の硫化物型全固体電池特性)	Naoto OKUZAWA, Yuki YAMAMURA, Naoya ISHII, Hideyuki MORIMOTO (奥澤 直人, 山村 侑生, 石居 直也, 森本 英行)	90(2),027003(2022)	https://doi.org/10.5796/electrochemistry.21-00129	1105
6	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, 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	1099
7	Poly(vinylidene fluoride-hexafluoropropylene)-Based Gel Electrolytes for Lithium Ion Secondary Batteries (PVdF-HFPをベースとしたゲル電解質およびリチウムイオン二次電池への適用)	Xingjiang LIU, Yoshitsugu SONE, Saburo KUWAJIMA (劉 興江, 曾根 理嗣, 桑島 三郎)	69(1),21-26(2001)	https://doi.org/10.5796/electrochemistry.69.21	1030
8	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, 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/electrochemistry.78.42	981
9	Predictive Zeta Potential Measurement Method Applicable to Nonaqueous Solvents in High-concentration Dispersion Systems for the System of LiClO_4 -Propylene Carbonate Solution and LiCoO_2 Powder Sheet	Yoshimasa SUZUKI, Minoru MIZUHATA	90(10),103001(2022)	https://doi.org/10.5796/electrochemistry.22-66050	979
10	AC Impedance Analysis of the Degeneration and Recovery of Argyrodite Sulfide-Based Solid Electrolytes under Dry-Room-Simulated Condition	Hikaru SANO, Yusuke MORINO, Akinori YABUKI, Shimpei SATO, Naohiko ITAYAMA, Yasuyuki MATSUMURA, Masahiro IWASAKI, Masahiro TAKEHARA, Takeshi ABE, Yasuo ISHIGURO, Tsukasa TAKAHASHI, Norihiko MIYASHITA, Atsushi SAKUDA, Akitoshi HAYASHI	90(3),037012(2022)	https://doi.org/10.5796/electrochemistry.22-00013	894