

2020 Bimonthly Most Downloaded Papers

Editorial Board of *Electrochemistry*
The Electrochemical Society of Japan

Month	Title	Authors	Volume, Number, pages, year	DOI	Counts
JAN FEB	Ex-situ Analysis of Lithium Distribution in a Sulfide-based All-solid-state Lithium Battery by Particle-induced X-ray and Gamma-ray Emission Measurements	Yuto YAMADA, Kota SUZUKI, Kazuhiro YOSHINO, Sou TAMINATO, Takahiro SATOH, Martin FINSTERBUSCH, Tomihiro KAMIYA, Akiyoshi YAMAZAKI, Yoshiaki KATO, Kazuhisa FUJITA, Kunioki MIIMA, Satoshi HORI, Masaaki HIRAYAMA, Ryoji KANNO	88(1),45-49(2020)	https://doi.org/10.5796/electrochemistry.19-00048	277
	Property, Electronic and Crystal Structures, Thermodynamic Stability, and Cathode Performance of $\text{Li}_x(\text{Mn, Co, Ni, M})\text{O}_2$ ($M = \text{Al, Ti, Fe}$) as a Cathode Active Material for Li Secondary Battery (リチウム二次電池正極活物質 $\text{Li}_x(\text{Mn, Co, Ni, M})\text{O}_2$ ($M = \text{Al, Ti, Fe}$)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	212
	Effect of Concentrated Electrolyte on Aqueous Sodium-ion Battery with Sodium Manganese Hexacyanoferrate Cathode	Kosuke NAKAMOTO, Ryo SAKAMOTO, Masato ITO, Ayuko KITAJOU, Shigeto OKADA	85(4),179-185(2017)	https://doi.org/10.5796/electrochemistry.85.179	203
MAR APR	EDLC Characteristics of Carbon Materials Prepared from Coal Extract	Hiroki WATANABE, Toshinori INOUE, Naoki KIKUCHI, Maki HAMAGUCHI, Tomoki TSUMURA, Masahiro TOYODA	88(3),119-126(2020)	https://doi.org/10.5796/electrochemistry.20-63011	349
	Development of a Small-sized Electrolyzed Water Generator for Sterilization (殺菌用小型電解水作製装置の開発)	Noriyuki KITAORI, Mayuko YOSHIOKA, Kota SEKIDO, Norihiko OHNISHI, Nanoka MAEDA, Saya MATSUSHI (北折 典之, 吉岡 真由子, 関戸 広太, 大西 則彦, 前田 菜花, 松石 早矢)	81(8),627-633(2013)	https://doi.org/10.5796/electrochemistry.81.627	303
	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	271
MAY JUN	Analysis of Three-dimensional Porous Network Structure of Li-ion Battery Electrodes (三次元空隙ネットワーク解析によるリチウムイオン電池電極の評価法の開発)	Hitoshi FUKUMITSU, Kenji TERADA, Shogo SUEHIRO, Katsuhiko TAKI, Yongsung CHEON (福満 仁志, 寺田 健二, 末広 省吾, 滝 克彦, 千 容星)	83(1),2-6(2015)	https://doi.org/10.5796/electrochemistry.83.2	241
	Recent Advances in Supercapacitors: Ultrafast Materials Make Innovations	Naohisa OKITA, Etsuro IWAMA, Katsuhiko NAOI	88(3)83-87(2020)	https://doi.org/10.5796/electrochemistry.20-H6301	239
	Lithium Dendrite Formation on a Lithium Metal Anode from Liquid, Polymer and Solid Electrolytes	Yasuo TAKEDA, Osamu YAMAMOTO, Nobuyuki IMANISHI	84(4)210-218(2016)	https://doi.org/10.5796/electrochemistry.84.210	205
JUL AUG	Lithium Metal Negative Electrode for Batteries with High Energy Density: Lithium Utilization and Additives	Kazuki YOSHII, Hikari SAKAEBE	88(5),463-467(2020)	https://doi.org/10.5796/electrochemistry.20-00085	408
	Exploring Factors Limiting Three-Na ⁺ Extraction from $\text{Na}_3\text{V}_2(\text{PO}_4)_3$	Yuji ISHADO, Atsushi INOISHI, Shigeto OKADA	88(5)457-462(2020)	https://doi.org/10.5796/electrochemistry.20-00080	303
	Static Capacitance at the Electrochemical Liquid-liquid Interface Between Ionic Liquids and Eutectic Ga-In Alloy Measured Using the Pendant Drop Method	Naoya NISHI, Yasuro KOJIMA, Seiji KATAKURA, Tetsuo SAKKA	86(2),38-41(2018)	https://doi.org/10.5796/electrochemistry.17-00081	279
SEP OCT	Electrochemical CO_2 Reduction Using Gas Diffusion Electrode Loading Ni-doped Covalent Triazine Frameworks in Acidic Electrolytes	Yuxin WU, Kazuhide KAMIYA, Takuya HASHIMOTO, Rino SUGIMOTO, Takashi HARADA, Katsushi FUJII, Shuji NAKANISHI	88(5),359-364(2020)	https://doi.org/10.5796/electrochemistry.20-64036	394
	Durability Analysis of the REIMEI Satellite Li-ion Batteries after more than 14 Years of Operation in Space	Omar S. MENDOZA-HERNANDEZ, Linda J. BOLAY, Birger HORSTMANN, Arnulf LATZ, Eiji HOSONO, Daisuke ASAKURA, Hirofumi MATSUDA, Masayuki ITAGAKI, Minoru UMEMA, Yoshitsugu SONE	88(4),300-304(2020)	https://doi.org/10.5796/electrochemistry.20-00046	330
	Development of Vanadium Ion Redox Capacitor	Yuuya HANZAWA, Sachio YOSHIHARA	88(3),112-118(2020)	https://doi.org/10.5796/electrochemistry.20-63002	215
NOV DEC	Determination of Solid-State Li Diffusion Coefficient of Lithium Insertion Materials from Rate Capability Tests on Diluted Electrode	Kingo ARIYOSHI, Jun SUGAWA	Advanced Online Publication	https://doi.org/10.5796/electrochemistry.20-00136	559
	Electrochemical Evaluation of Lithium-Metal Anode in Highly Concentrated Ethylene Carbonate Based Electrolytes	Junya TAKEYOSHI, Naohiro KOBORI, Kiyoshi KANAMURA	88(6),540-547(2020)	https://doi.org/10.5796/electrochemistry.20-00087	475
	Regeneration of Fully-discharged Graphite-Fluoride Lithium Primary Battery as Electrochemical Capacitor	Izuru SHIMABUKURO, Tsuyoshi KAWASHIMA, Yasuyoshi SHIRAIISHI, Noriaki KATAGIRI, Yoshikiyo HATAKEYAMA, Soshi SHIRAIISHI	Advanced Online Publication	https://doi.org/10.5796/electrochemistry.20-65131	455