2021 Annually Most Downloaded Papers

Editorial Board of *Electrochemistry*
The Electrochemical Society of Japan

Month	Title	Authors	Volume, Number, pages, year	DOI	Counts
1	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/electrochemistry.20-65130	**3965**
2	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	**1289**
3	Effects of Pressure on Stability of Nafion Membrane under Water Electrolysis	Hiroyuki MICHISHITA, Kei-ichi AKABORI, Keiji TANAKA, Hiroshige MATSUMOTO, Daizou HARUTA, Yoshinori NAGATA, Nagaaki YAMAMOTO, Tatsumi ISHIHARA	**78(1)**, 42-49(2010)	https://doi.org/10.5796/electrochemistry.78.42	**1121**
4	Strategy for Cyclability Prolongation of Li_3VO_4//$Li_3V_2(PO_4)_3$ 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/electrochemistry.20-00162	**1021**
5	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(2020)	https://doi.org/10.5796/electrochemistry.20-00140	**1009**
6	Property, Electronic and Crystal Structures, Thermodynamic Stability, and Cathode Performance of Lix(Mn, Co, Ni, M)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Lix(Mn, Co, Ni, M)O_2M(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	**985**
7	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/electrochemistry.70.111	**872**
8	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/electrochemistry.21-00010	**867**
9	First-principles Study of the Bulk Properties for Li*M* PO_4 Compounds (*M* =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Li*M* PO_4(*M* =Mn, Fe, Co, Ni)のバルク特性の研究)	Masanobu NAKAYAMA, Masataka WAKIHARA (中山 将伸, 脇原 將孝)	**76(10)**, 752-762(2008)	https://doi.org/10.5796/electrochemistry.76.752	**775**
10	Electrochemical Performances of Polyacrylonitrile Nano-fiber based Nonwoven Separator for Lithium Ion Battery	Masanao TANAKA, Tae-Hyung CHO, Tatsuo NAKAMURA, Takashi TARAO, Masaaki KAWABE, Tetsuo SAKAI	**78(12)**, 982-987(2010)	https://doi.org/10.5796/electrochemistry.78.982	**772**