Satoshi Uchida

List of Publications by Year
in descending order

26	379	759233 12	794594 19
papers	citations	h-index	g-index

26	26	26	613
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical properties of non-nano-silicon negative electrodes prepared with a polyimide binder. Journal of Power Sources, 2015, 273, 118-122.	7.8	62
2	Lithium bis(fluorosulfonyl)imide based low ethylene carbonate content electrolyte with unusual solvation state. Journal of Power Sources, 2017, 359, 480-486.	7.8	34
3	Effect of Electrolyte Additives on Non-Nano-Si Negative Electrodes Prepared with Polyimide Binder. Journal of the Electrochemical Society, 2015, 162, A406-A412.	2.9	28
4	Preparation and Characterization of Electrospun Gelatin Nanofibers for Use as Nonaqueous Electrolyte in Electric Double-Layer Capacitor. Journal of Nanotechnology, 2019, 2019, 1-11.	3.4	27
5	Visualization of Si Anode Reactions in Coin-Type Cells via Operando Scanning Electron Microscopy. ACS Applied Materials & Interfaces, 2017, 9, 35511-35515.	8.0	26
6	Preparation of thin-film electrolyte from chitosan-containing ionic liquid for application to electric double-layer capacitors. International Journal of Biological Macromolecules, 2019, 124, 1274-1280.	7.5	22
7	In situ electron microscopy and X-ray photoelectron spectroscopy for high capacity anodes in next-generation ionic liquid-based Li batteries. Electrochimica Acta, 2018, 279, 136-142.	5.2	20
8	Preparation and characterization of gel electrolyte with bacterial cellulose coated with alternating layers of chitosan and alginate for electric double-layer capacitors. Research on Chemical Intermediates, 2018, 44, 4971-4987.	2.7	18
9	How does the solvent composition influence the transport properties of electrolyte solutions? LiPF₆ and LiFSA in EC and DMC binary solvent. Physical Chemistry Chemical Physics, 2021, 23, 10875-10887.	2.8	17
10	Novel rapid synthesis method of LiFePO4/C cathode material by high-frequency induction heating. Journal of Power Sources, 2013, 243, 481-487.	7.8	16
11	High-performance lithium-ion capacitor composed of electrodes with porous three-dimensional current collector and bis(fluorosulfonyl)imide-based ionic liquid electrolyte. Electrochimica Acta, 2018, 276, 125-133.	5.2	14
12	What differentiates the transport properties of lithium electrolyte in ethylene carbonate mixed with diethylcarbonate from those mixed with dimethylcarbonate?. Journal of Power Sources, 2021, 511, 230423.	7.8	13
13	Effects of Pre-Lithiation on the Electrochemical Properties of Graphene-Like Graphite. Electrochemistry, 2019, 87, 260-264.	1.4	11
14	Preparation of Micropore-rich High Surface Area Activated Carbon from N-doped Carbon Precursor and its Application to Positive Electrode in Lithium-sulfur Battery. Electrochemistry, 2017, 85, 650-655.	1.4	10
15	Effect of hydrogen-gas treatment on the local structure of graphene-like graphite. Carbon, 2020, 163, 162-168.	10.3	9
16	A New Prospect for Stabilization of Graphite Electrode/Electrolyte Interface in Bis(fluorosulfonyl)imide Anion-based Ionic Liquid Electrolyte. Electrochemistry, 2018, 86, 29-31.	1.4	8
17	A Potential Cathode Material for Rechargeable Potassiumâ€Ion Batteries Inducing Manganese Cation and Oxygen Anion Redox Chemistry: Potassiumâ€Deficient K_{0.4}Fe_{0.5}Mn_{0.5}O₂. Energy Technology, 2020, 8, 2000039.	3.8	8
18	Optimized condition of high-frequency induction heating for LiFePO 4 with ideal crystal structure. Journal of Power Sources, 2013, 243, 617-621.	7.8	7

#	Article	IF	Citations
19	Performance Enhancement of Rechargeable Sulfur Cathode Utilizing Microporous Activated Carbon Composite. Electrochemistry, 2017, 85, 671-674.	1.4	7
20	Impact of lithium-ion coordination in carbonate-based electrolyte on lithium-ion intercalation kinetics into graphite electrode. Electrochemistry Communications, 2020, 114, 106705.	4.7	5
21	Graphene-Like Graphite Negative Electrode Rapidly Chargeable at Constant Voltage. Journal of the Electrochemical Society, 2020, 167, 110518.	2.9	5
22	Transport Properties of Electrolyte Solution Comprising LiPF₆, Ethylene Carbonate, and Propylene Carbonate. Electrochemistry, 2021, 89, 439-446.	1.4	5
23	Preparation and Electrochemical Performance of Chitosan-based Gel Polymer Electrolyte Containing Ionic Liquid for Non-aqueous Electric Double Layer Capacitor. Electrochemistry, 2020, 88, 132-138.	1.4	3
24	Improvement of Synthesis Method for LiFePO4/C Cathode Material by High-Frequency Induction Heating. Electrochemistry, 2012, 80, 825-828.	1.4	2
25	Electric Doubleâ€Layer Capacitors Based on Nonâ€Aqueous Electrolytes: A Comparative Study of Potassium and Quaternary Ammonium Salts. Batteries and Supercaps, 2020, 3, 392-396.	4.7	2
26	A Potential Cathode Material for Rechargeable Potassiumâ€Ion Batteries Inducing Manganese Cation and Oxygen Anion Redox Chemistry: Potassiumâ€Deficient K_{0.4}Fe_{0.5}Mn_{0.5}O₂. Energy Technology, 2020, 8, 2070064.	3.8	0