

Shoichi Matsuda

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Lithium-Ion-Conducting Ceramics-Coated Separator for Stable Operation of Lithium Metal-Based Rechargeable Batteries. <i>Materials</i> , 2022, 15, 322.	2.9	9
2	Criteria for evaluating lithium-air batteries in academia to correctly predict their practical performance in industry. <i>Materials Horizons</i> , 2022, 9, 856-863.	12.2	26
3	Self-standing porous carbon electrodes for lithium-oxygen batteries under lean electrolyte and high areal capacity conditions. <i>Materials Advances</i> , 2022, 3, 3536-3544.	5.4	8
4	Data-driven automated robotic experiments accelerate discovery of multi-component electrolyte for rechargeable Li-O ₂ batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100832.	5.6	14
5	N,N-Dimethylethanesulfonamide as an Electrolyte Solvent Stable for the Positive Electrode Reaction of Aprotic Li-O ₂ Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 4404-4412.	5.1	7
6	Tunable and Well-Defined Bimodal Porous Model Electrodes for Revealing Multiscale Structural Effects in the Nonaqueous Li-O ₂ Electrode Process. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1403-1413.	3.1	6
7	Lithium-Air Batteries. , 2021, , .		1
8	Effect of Electrolyte Filling Technology on the Performance of Porous Carbon Electrode-Based Lithium-Oxygen Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2563-2569.	5.1	23
9	Identifying the Performance Limiters in High Areal-Capacity Li-Oxygen Battery at Subzero Temperatures. <i>ACS Applied Energy Materials</i> , 2021, 4, 4277-4283.	5.1	1
10	Carbon-black-based self-standing porous electrode for 500 Wh/kg rechargeable lithium-oxygen batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100506.	5.6	35
11	Effect of Confining Pressure on the Li/Li ₇ La ₃ Zr ₂ O ₁₂ Interface during Li Dissolution/Deposition Cycles. <i>ACS Applied Energy Materials</i> , 2020, 3, 11113-11118.	5.1	6
12	Material balance in the O ₂ electrode of Li-O ₂ cells with a porous carbon electrode and TEGDME-based electrolytes. <i>RSC Advances</i> , 2020, 10, 42971-42982.	3.6	20
13	Highly Efficient Oxygen Evolution Reaction in Rechargeable Lithium-Oxygen Batteries with Triethylphosphate-Based Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25784-25789.	3.1	3
14	The effect of electrical conductivity on lithium metal deposition in 3D-carbon nanofiber matrices. <i>Carbon</i> , 2019, 154, 370-374.	10.3	13
15	Electrochemical impedance analysis of the Li/Au-Li ₇ La ₃ Zr ₂ O ₁₂ interface during Li dissolution/deposition cycles: Effect of pre-coating Li ₇ La ₃ Zr ₂ O ₁₂ with Au. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 143-149.	3.8	33
16	High-throughput combinatorial screening of multi-component electrolyte additives to improve the performance of Li metal secondary batteries. <i>Scientific Reports</i> , 2019, 9, 6211.	3.3	32
17	Dynamic changes in charge-transfer resistance at Li metal/Li ₇ La ₃ Zr ₂ O ₁₂ interfaces during electrochemical Li dissolution/deposition cycles. <i>Journal of Power Sources</i> , 2018, 376, 147-151.	7.8	95
18	Potassium Ions Promote Solution-Route Li ₂ O ₂ Formation in the Positive Electrode Reaction of Li-O ₂ Batteries. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1142-1146.	4.6	30

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19	Lithium-metal deposition/dissolution within internal space of CNT 3D matrix results in prolonged cycle of lithium-metal negative electrode. <i>Carbon</i> , 2017, 119, 119-123.	10.3	67
20	Enhanced energy capacity of lithium-oxygen batteries with ionic liquid electrolytes by addition of ammonium ions. <i>Journal of Power Sources</i> , 2017, 356, 12-17.	7.8	12
21	Effects of contaminant water on coulombic efficiency of lithium deposition/dissolution reactions in tetraglyme-based electrolytes. <i>Journal of Power Sources</i> , 2017, 350, 73-79.	7.8	34
22	Improved charging performance of Li ⁺ /O ₂ batteries by forming Ba-incorporated Li ₂ O ₂ as the discharge product. <i>Journal of Power Sources</i> , 2017, 353, 138-143.	7.8	15
23	Insulative Microfiber 3D Matrix as a Host Material Minimizing Volume Change of the Anode of Li Metal Batteries. <i>ACS Energy Letters</i> , 2017, 2, 924-929.	17.4	95
24	Improved Energy Capacity of Aprotic Li ⁺ /O ₂ Batteries by Forming Cl-Incorporated Li ₂ O ₂ as the Discharge Product. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13360-13365.	3.1	25
25	Cobalt phthalocyanine analogs as soluble catalysts that improve the charging performance of Li-O ₂ batteries. <i>Chemical Physics Letters</i> , 2015, 620, 78-81.	2.6	39
26	Transition Metal Complexes with Macrocyclic Ligands Serve as Efficient Electrocatalysts for Aprotic Oxygen Evolution on Li ₂ O ₂ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 28435-28439.	3.1	41
27	Regulation of the Cyanobacterial Circadian Clock by Electrochemically Controlled Extracellular Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2208-2211.	13.8	27
28	Efficient Li ₂ O ₂ Formation via Aprotic Oxygen Reduction Reaction Mediated by Quinone Derivatives. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18397-18400.	3.1	62
29	Extracellular Electron Transfer of a Highly Adhesive and Metabolically Versatile Bacterium. <i>ChemPhysChem</i> , 2013, 14, 2407-2412.	2.1	13
30	Electrochemical Gating of Tricarboxylic Acid Cycle in Electricity-Producing Bacterial Cells of <i>Shewanella</i> . <i>PLoS ONE</i> , 2013, 8, e72901.	2.5	29
31	Potential and Cell Density Dependences of Extracellular Electron Transfer of Anode-Respiring <i>Geobacter sulfurreducens</i> Cells. <i>Electrochemistry</i> , 2012, 80, 330-333.	1.4	6
32	Flavins Secreted by Bacterial Cells of <i>Shewanella</i> Catalyze Cathodic Oxygen Reduction. <i>ChemSusChem</i> , 2012, 5, 1054-1058.	6.8	33
33	Negative Faradaic Resistance in Extracellular Electron Transfer by Anode-Respiring <i>Geobacter sulfurreducens</i> Cells. <i>Environmental Science & Technology</i> , 2011, 45, 10163-10169.	10.0	37
34	Redox-Responsive Switching in Bacterial Respiratory Pathways Involving Extracellular Electron Transfer. <i>ChemSusChem</i> , 2010, 3, 1253-1256.	6.8	49