Masaru Yao

List of Publications by Year
in descending order

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58	1,904	304743	265206
papers	citations	22	42
		h-index	g-index

59	59	59	2137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Donor-Acceptor Triads Composed of Tetrathiafulvalene and Benzoquinone Fused by Benzene-Spacers: Application to the Positive Electrode Materials for Use in Rechargeable Batteries. Bulletin of the Chemical Society of Japan, 2021, 94, 44-52.	3.2	11
2	Synthesis, Structure, and Electrochemical Properties of Extended Tetrathiafulvalene Dimers Linked by Flexible Butylene Chain. Bulletin of the Chemical Society of Japan, 2021, 94, 1059-1065.	3.2	6
3	A Tris-fused Tetrathiafulvalene Analog Composed of an Anthraquinoid- and Two Vinyl-extended Tetrathiafulvalenes. Chemistry Letters, 2021, 50, 1164-1168.	1.3	5
4	Synthesis and Properties of Fused Extended Tetrathiafulvalene Donors with Dithienylmethylene Spacer and Application to Organic Rechargeable Batteries. Bulletin of the Chemical Society of Japan, 2021, 94, 1940-1947.	3.2	6
5	Improved gravimetric energy density and cycle life in organic lithium-ion batteries with naphthazarin-based electrode materials. Communications Materials, 2020, 1, .	6.9	12
6	Improvement of the Battery Performance of Indigo, an Organic Electrode Material, Using PEDOT/PSS with <scp>d-</scp>Sorbitol. ACS Omega, 2020, 5, 18565-18572.	3.5	13
7	Analytical Measurements to Elucidate Structural Behavior of 2,5â€Dimethoxyâ€1,4â€benzoquinone During Charge and Discharge. ChemSusChem, 2020, 13, 2354-2363.	6.8	5
8	Viologen Derivatives Extended with Aromatic Rings Acting as Negative Electrode Materials for Use in Rechargeable Molecular Ion Batteries. ChemSusChem, 2020, 13, 2379-2385.	6.8	11
9	Fused Tetrathiafulvalene and Benzoquinone Triads: Organic Positiveâ€Electrode Materials Based on a Dual Redox System. ChemSusChem, 2020, 13, 2312-2320.	6.8	23
10	A Tris-fused Donor System Composed of Two Tetrathiafulvalenes and an Extended Tetrathiafulvalene with an Anthraquinoid Spacer. Chemistry Letters, 2019, 48, 1507-1510.	1.3	13
11	Conductive polymer binder and separator for high energy density lithium organic battery. MRS Communications, 2019, 9, 979-984.	1.8	7
12	Organic positive-electrode material utilizing both an anion and cation: a benzoquinone-tetrathiafulvalene triad molecule, Q-TTF-Q, for rechargeable Li, Na, and K batteries. New Journal of Chemistry, 2019, 43, 1626-1631.	2.8	38
13	Anthraquinoneâ€Based Oligomer as a Long Cycleâ€Life Organic Electrode Material for Use in Rechargeable Batteries. ChemPhysChem, 2019, 20, 967-971.	2.1	22
14	Trisâ€Fused Tetrathiafulvalenes Extended with an Anthraquinoid Spacer as New Positive Electrode Materials for Rechargeable Batteries. European Journal of Organic Chemistry, 2019, 2019, 2725-2728.	2.4	17
15	Synthesis and Properties of [3]Dendralenes with Redox-active 1,3-Dithiol-2-ylidenes and Dicyanomethylidene and Application to Rechargeable Batteries. Chemistry Letters, 2018, 47, 1176-1179.	1.3	12
16	Fused Donorâ€“Donorâ€“Acceptor Triads Composed of Tetrathiafulvalene and Benzoquinone Derivatives as the Positive Electrode Materials for Rechargeable Lithium and Sodium Batteries. Chemistry Letters, 2017, 46, 368-370.	1.3	16
17	Rechargeable organic batteries using chloro-substituted naphthazarin derivatives as positive electrode materials. Journal of Materials Science, 2017, 52, 12401-12408.	3.7	16
18	Polycyclic Quinone Fused by a Sulfur-containing Ring as an Organic Positive-electrode Material for Use in Rechargeable Lithium Batteries. Energy Procedia, 2016, 89, 222-230.	1.8	18

#	ARTICLE	IF	CITATIONS
19	Improving the Cycle-life of Naphthoquinone-based Active Materials by Their Polymerization for Rechargeable Organic Batteries. Energy Procedia, 2016, 89, 213-221.	1.8	5
20	A New Bio-based Battery Material: Effect of Rate of Anthraquinone Skeleton Incorporation into Polyglycidol on Battery Performance. Energy Procedia, 2016, 89, 207-212.	1.8	1
21	Characterization of a Rh(<scp>iii</scp>) porphyrinâ€"CO complex: its structure and reactivity with an electron acceptor. Dalton Transactions, 2015, 44, 13823-13827.	3.3	11
22	Molecular ion battery: a rechargeable system without using any elemental ions as a charge carrier. Scientific Reports, 2015, 5, 10962.	3.3	53
23	Sulfone-Based Electrolyte Solutions for Rechargeable Magnesium Batteries Using 2,5-Dimethoxy-1,4-benzoquinone Positive Electrode. Journal of the Electrochemical Society, 2014, 161, A1315-A1320.	2.9	47
24	Long Cycle-life Organic Electrode Material based on an Ionic Naphthoquinone Derivative for Rechargeable Batteries. Energy Procedia, 2014, 56, 228-236.	1.8	15
25	A pentakis-fused tetrathiafulvalene system extended by cyclohexene-1,4-diylidenes: a new positive electrode material for rechargeable batteries utilizing ten electron redox. Journal of Materials Chemistry A, 2014, 2, 6747.	10.3	66
26	3. ã,ãƒŽãƒ³é¡žã,,ã,ãƒ³ãƒ‡ã,£ã,´é¡žã,'æ£æ¥µæ´»ç‰©è³ªã«ç"¨ã,ãŸæœ‰æ©Ÿäº Œæ¬¡é›»æ±. Electrochemistry, 2014, 82, 682-687.	1.4	1
27	Indigo carmine: An organic crystal as a positive-electrode material for rechargeable sodium batteries. Scientific Reports, 2014, 4, 3650.	3.3	109
28	Dialkoxybenzoquinone-type Active Materials for Rechargeable Lithium Batteries: The Effect of the Alkoxy Group Length on the Cycle-stability. Energy Procedia, 2013, 34, 880-887.	1.8	19
29	Reduction of redox mediators by CO in the presence of a Co porphyrin: Implication for electrochemical cells powered by CO. Journal of Power Sources, 2013, 235, 105-110.	7.8	6
30	A Tris-fused Tetrathiafulvalene Extended with Cyclohexene-1,4-diylidene: A New Positive Electrode Material for Organic Rechargeable Batteries. Chemistry Letters, 2013, 42, 1556-1558.	1.3	33
31	Mg2+ Storage in Organic Positive-electrode Active Material Based on 2,5-Dimethoxy-1,4-benzoquinone. Chemistry Letters, 2012, 41, 1594-1596.	1.3	71
32	CO electro-oxidation by carbon-supported Rh tetraphenylporphyrins that have o-methyl groups on meso-phenyl substituents. Journal of Electroanalytical Chemistry, 2012, 668, 60-65.	3.8	9
33	Electrocatalytic oxidation of alcohols by a carbon-supported Rh porphyrin. Chemical Communications, 2012, 48, 4353.	4.1	46
34	Na-ion capacitor using sodium pre-doped hard carbon and activated carbon. Electrochimica Acta, 2012, 76, 320-325.	5.2	104
35	Redox active poly(N-vinylcarbazole) for use in rechargeable lithium batteries. Journal of Power Sources, 2012, 202, 364-368.	7.8	82
36	Crystalline polycyclic quinone derivatives as organic positive-electrode materials for use in rechargeable lithium batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 483-487.	3.5	99

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37	A two-compartment cell for using soluble benzoquinone derivatives as active materials in lithium secondary batteries. Electrochimica Acta, 2011, 56, 10145-10150.	5.2	117
38	Reversible air electrodes integrated with an anion-exchange membrane for secondary air batteries. Journal of Power Sources, 2011, 196, 808-813.	7.8	47
39	Gallium (III) sulfide as an active material in lithium secondary batteries. Journal of Power Sources, 2011, 196, 5631-5636.	7.8	36
40	Metallocomplex-based borohydride electro-oxidation catalysts. Catalysis Today, 2011, 170, 141-147.	4.4	9
41	CO Electro-oxidation by Rh Disulfo-deuteroporphyrin, and Its Mitigation Effect on CO Poisoning of PEMFC Anode. Electrochemical and Solid-State Letters, 2011, 14, B23.	2.2	19
42	Indigo Dye as a Positive-electrode Material for Rechargeable Lithium Batteries. Chemistry Letters, 2010, 39, 950-952.	1.3	81
43	High-capacity organic positive-electrode material based on a benzoquinone derivative for use in rechargeable lithium batteries. Journal of Power Sources, 2010, 195, 8336-8340.	7.8	220
44	Long cycle-life LiFePO4/Cu-Sn lithium ion battery using foam-type three-dimensional current collector. Journal of Power Sources, 2010, 195, 2077-2081.	7.8	61
45	Electrochemical characteristics of aluminum sulfide for use in lithium secondary batteries. Journal of Power Sources, 2010, 195, 8327-8330.	7.8	21
46	Organic Positive-Electrode Materials Based on Dialkoxybenzoquinone Derivatives for Use in Rechargeable Lithium Batteries. ECS Transactions, 2010, 28, 3-10.	0.5	40
47	New-Concept CO-Tolerant Anode Catalysts Using a Rh Porphyrin-Deposited PtRu/C. Journal of Physical Chemistry C, 2010, 114, 21856-21860.	3.1	30
48	High-Capacity Electric Double Layer Capacitor Using Three-Dimensional Porous Current Collector. Electrochemical and Solid-State Letters, 2007, 10, A245.	2.2	10
49	Influence of Nickel Foam Pore Structure on the High-Rate Capability of Nickel/Metal-Hydride Batteries. Journal of the Electrochemical Society, 2007, 154, A709.	2.9	10
50	Nickel Substrate Having Three-Dimensional Micronetwork Structure for High-Power Nickel/Metal-Hydride Battery. Electrochemical and Solid-State Letters, 2007, 10, A56.	2.2	14
51	High-power nickel/metal-hydride battery using new micronetwork substrate: Discharge rate capability and cycle-life performance. Journal of Power Sources, 2007, 171, 1033-1039.	7.8	24
52	LiFePO4-based electrode using micro-porous current collector for high power lithium ion battery. Journal of Power Sources, 2007, 173, 545-549.	7.8	69
53	Synthesis and magnetic properties of 2,2,4- and 2,2,6-triphenyl-1,2-dihydroquinoline-N-oxyl derivatives. Polyhedron, 2005, 24, 2828-2834.	2.2	8
54	Novel aromatic N-oxyl radical based on the benzo[g]quinoline skeleton: synthesis and intermolecular ferromagnetic interaction. Chemical Physics Letters, 2005, 402, 11-16.	2.6	19

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55	Amphiphilic meso-Disubstituted Porphyrins:â€‰ Synthesis and the Effect of the Hydrophilic Group on Absorption Spectra at the Airâ"Water Interface. Langmuir, 2005, 21, 595-601.	3.5	15
56	Formation of a One-Dimensional Stacking Structure of Ï€-Conjugated Nitroxyl Radical Bearing a 1,2,5-Thiadiazole Ring and Its Magnetic Property. Crystal Growth and Design, 2005, 5, 413-417.	3.0	16
57	Synthesis and physicochemical properties of some 5,15-diarylporphyrin derivatives. Polyhedron, 2003, 22, 2281-2285.	2.2	7
58	Effect of hydrophilic group on absorption spectra of meso-disubstituted porphyrin LB films. Synthetic Metals, 2003, 137, 917-918.	3.9	3