Chongyin Yang

List of Publications by Year
in descending order

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71	14,935	44042 48	88593 70
papers	citations	h-index	g-index

75	75	75	15019
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen-doped mesoporous carbon of extraordinary capacitance for electrochemical energy storage. Science, 2015, 350, 1508-1513.	6.0	1,821
2	Zn/MnO₂ Battery Chemistry With H⁺ and Zn²⁺ Coinsertion. Journal of the American Chemical Society, 2017, 139, 9775-9778.	6.6	1,375
3	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	15.6	964
4	Visible-light photocatalytic, solar thermal and photoelectrochemical properties of aluminium-reduced black titania. Energy and Environmental Science, 2013, 6, 3007.	15.6	626
5	Hâ€Doped Black Titania with Very High Solar Absorption and Excellent Photocatalysis Enhanced by Localized Surface Plasmon Resonance. Advanced Functional Materials, 2013, 23, 5444-5450.	7.8	621
6	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	19.8	621
7	Aqueous Li-ion battery enabled by halogen conversionâ€“intercalation chemistry in graphite. Nature, 2019, 569, 245-250.	13.7	590
8	Advanced Highâ€Voltage Aqueous Lithiumâ€Ion Battery Enabled by â€œWaterâ€inâ€Bisaltâ€•Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 7136-7141.	7.2	571
9	Fluorinated interphase enables reversible aqueous zinc battery chemistries. Nature Nanotechnology, 2021, 16, 902-910.	15.6	560
10	â€œWaterâ€inâ€Saltâ€•Electrolyte Makes Aqueous Sodiumâ€Ion Battery Safe, Green, and Longâ€Lasting. Advanced Energy Materials, 2017, 7, 1701189.	10.2	487
11	Advanced Highâ€Voltage Aqueous Lithiumâ€Ion Battery Enabled by â€œWaterâ€inâ€Bisaltâ€•Electrolyte. Angewandte Chemie, 2016, 128, 7252-7257.	1.6	459
12	4.0ÂV Aqueous Li-Ion Batteries. Joule, 2017, 1, 122-132.	11.7	441
13	Core-Shell Nanostructured â€œBlackâ€•Rutile Titania as Excellent Catalyst for Hydrogen Production Enhanced by Sulfur Doping. Journal of the American Chemical Society, 2013, 135, 17831-17838.	6.6	425
14	Effective nonmetal incorporation in black titania with enhanced solar energy utilization. Energy and Environmental Science, 2014, 7, 967.	15.6	376
15	Black TiO₂ nanotube arrays for high-efficiency photoelectrochemical water-splitting. Journal of Materials Chemistry A, 2014, 2, 8612-8616.	5.2	355
16	High-Voltage Aqueous Magnesium Ion Batteries. ACS Central Science, 2017, 3, 1121-1128.	5.3	256
17	High power rechargeable magnesium/iodine battery chemistry. Nature Communications, 2017, 8, 14083.	5.8	251
18	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. Energy and Environmental Science, 2018, 11, 1218-1225.	15.6	212

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19	A 63 m Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. ACS Energy Letters, 2020, 5, 968-974.	8.8	197
20	Stabilizing high voltage LiCoO₂ cathode in aqueous electrolyte with interphase-forming additive. Energy and Environmental Science, 2016, 9, 3666-3673.	15.6	190
21	New high Tc multiferroics KBiFe2O5 with narrow band gap and promising photovoltaic effect. Scientific Reports, 2013, 3, 1265.	1.6	185
22	Black brookite titania with high solar absorption and excellent photocatalytic performance. Journal of Materials Chemistry A, 2013, 1, 9650.	5.2	175
23	Flexible Aqueous Liâ€Ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	11.1	175
24	A Highly Reversible, Dendriteâ€Free Lithium Metal Anode Enabled by a Lithiumâ€Fluorideâ€Enriched Interphase. Advanced Materials, 2020, 32, e1906427.	11.1	168
25	Niobium Nitride Nb₄N₅ as a New Highâ€Performance Electrode Material for Supercapacitors. Advanced Science, 2015, 2, 1500126.	5.6	166
26	Phase-Controlled Synthesis of Cobalt Sulfides for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4246-4250.	4.0	165
27	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6197-6202.	3.3	151
28	Structure and Interface Design Enable Stable Li-Rich Cathode. Journal of the American Chemical Society, 2020, 142, 8918-8927.	6.6	151
29	Direct PECVD growth of vertically erected graphene walls on dielectric substrates as excellent multifunctional electrodes. Journal of Materials Chemistry A, 2013, 1, 770-775.	5.2	142
30	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI₂â€“DME Electrolyte. Advanced Materials, 2018, 30, 1704313.	11.1	122
31	Aqueous electrolyte design for super-stable 2.5â€‰V LiMn2O4â€‰||â€‰Li4Ti5O12 pouch cells. Nature Energy, 2022, 7, 186-193.	19.8	122
32	Preparation and photocatalytic activity of high-efficiency visible-light-responsive photocatalyst SnSx/TiO2. Journal of Solid State Chemistry, 2009, 182, 807-812.	1.4	114
33	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. Nano Letters, 2019, 19, 538-544.	4.5	113
34	Spinel LiNi_{0.5}Mn_{1.5}O₄ Cathode for Highâ€Energy Aqueous Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1600922.	10.2	103
35	Observation of an Intermediate Band in Sn-doped Chalcopyrites with Wide-spectrum Solar Response. Scientific Reports, 2013, 3, 1286.	1.6	100
36	â€œWater-in-Saltâ€•electrolyte enabled LiMn2O4/TiS2 Lithium-ion batteries. Electrochemistry Communications, 2017, 82, 71-74.	2.3	99

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37	Low-Temperature Aluminum Reduction of Graphene Oxide, Electrical Properties, Surface Wettability, and Energy Storage Applications. ACS Nano, 2012, 6, 9068-9078.	7.3	91
38	New stannite-like p-type thermoelectric material Cu₃SbSe₄. Journal Physics D: Applied Physics, 2011, 44, 295404.	1.3	89
39	Black nanostructured Nb₂O₅ with improved solar absorption and enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2015, 3, 11830-11837.	5.2	85
40	Gray TiO₂ Nanowires Synthesized by Aluminumâ€Mediated Reduction and Their Excellent Photocatalytic Activity for Water Cleaning. Chemistry - A European Journal, 2013, 19, 13313-13316.	1.7	74
41	â€œWater-in-saltâ€•polymer electrolyte for Li-ion batteries. Energy and Environmental Science, 2020, 13, 2878-2887.	15.6	74
42	Black Titania for Superior Photocatalytic Hydrogen Production and Photoelectrochemical Water Splitting. ChemCatChem, 2015, 7, 2614-2619.	1.8	73
43	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. Nature Communications, 2020, 11, 2638.	5.8	71
44	Cr incorporation in Cu<scp>G</scp>a<scp>S</scp>₂ chalcopyrite: A new intermediateâ€band photovoltaic material with wideâ€spectrum solar absorption. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1098-1102.	0.8	65
45	Thermoelectric properties of CuInTe2/graphene composites. CrystEngComm, 2013, 15, 6648.	1.3	60
46	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	8.8	59
47	Flexible all solid state supercapacitor with high energy density employing black titania nanoparticles as a conductive agent. Nanoscale, 2016, 8, 4054-4062.	2.8	51
48	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. ACS Nano, 2018, 12, 5266-5273.	7.3	51
49	Mechanism of Action of the Tungsten Dopant in LiNiO₂ Positive Electrode Materials. Advanced Energy Materials, 2022, 12, .	10.2	49
50	Facile solution-based fabrication of ZnIn2S4 nanocrystalline thin films and their photoelectrochemical properties. Journal of Power Sources, 2014, 265, 62-66.	4.0	38
51	High-energy and low-cost membrane-free chlorine flow battery. Nature Communications, 2022, 13, 1281.	5.8	34
52	Controllable Synthesis of Cu₂In₂ZnS₅ Nano/Microcrystals and Hierarchical Films and Applications in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 10296-10301.	1.5	30
53	Somatostatin Receptor-Mediated Tumor-Targeting Nanocarriers Based on Octreotide-PEG Conjugated Nanographene Oxide for Combined Chemo and Photothermal Therapy. Small, 2016, 12, 3578-3590.	5.2	29
54	Fe-substituted indium thiospinels: New intermediate band semiconductors with better absorption of solar energy. Journal of Applied Physics, 2013, 113, 213509.	1.1	27

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55	Tungsten Infused Grain Boundaries Enabling Universal Performance Enhancement of Co-Free Ni-Rich Cathode Materials. Journal of the Electrochemical Society, 2021, 168, 120514.	1.3	27
56	Highly enhanced p-type electrical conduction in wide band gap Cu1+xAl1â^'xS2 polycrystals. Solar Energy Materials and Solar Cells, 2011, 95, 2924-2927.	3.0	24
57	CuSbSe2-assisted sintering of CuInSe2 at low temperature. Journal of Materials Science, 2012, 47, 7085-7089.	1.7	23
58	Preparation of monodispersed CuInS2 nanopompons and nanoflake films and application in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 4496.	1.3	23
59	Preparation of Sn-doped CuAlS₂ films with an intermediate band and wide-spectrum solar response. RSC Advances, 2016, 6, 40806-40810.	1.7	21
60	Preventing Interdiffusion during Synthesis of Ni-Rich Coreâ€“Shell Cathode Materials. ACS Energy Letters, 2022, 7, 2189-2195.	8.8	21
61	Gel electrolyte for a 4V flexible aqueous lithium-ion battery. Journal of Power Sources, 2020, 469, 228378.	4.0	20
62	Nitrogen-doped black titania for high performance supercapacitors. Science China Materials, 2020, 63, 1227-1234.	3.5	17
63	Advanced solar materials for thin-film photovoltaic cells. Frontiers of Physics, 2011, 6, 177-196.	2.4	9
64	Correlating the mechanical strength of positive electrode material particles to their capacity retention. Cell Reports Physical Science, 2022, 3, 100714.	2.8	7
65	Synthesis, physical properties and electronic structure of Sr1â^'xLaxCu2Pn2 (Pn=P, As, Sb). Journal of Solid State Chemistry, 2012, 187, 323-327.	1.4	4
66	Intrinsic ZnO f ilms fabricated by DC sputtering from oxygen-def icient targets for Cu(In,Ga)Se2 solar cell application. Chinese Optics Letters, 2011, 9, 103102-103105.	1.3	3
67	Temperature dependence of microstructure and physical properties of CuInSe2 prepared by rapid synthesis reaction. Materials Research Bulletin, 2012, 47, 3908-3911.	2.7	2
68	Beyond Li-Ion Chemistry for High Energy Aqueous Battery. ECS Meeting Abstracts, 2017, , .	0.0	0
69	Separator-Free Gel Electrolytes Based on Water-in-Salt Solutions. ECS Meeting Abstracts, 2018, , .	0.0	0
70	Constructing a 4 Volt Aqueous Lithium Ion Battery Using Acrylate-Based Gel Electrolytes. ECS Meeting Abstracts, 2020, MA2020-02, 675-675.	0.0	0
71	High Nickel Positive Electrode Materials Modified By Dry Particle Fusion. ECS Meeting Abstracts, 2022, MA2022-01, 220-220.	0.0	0