Chuan-Fu Sun

List of Publications by Year
in descending order

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41	2,443	172457	265206
papers	citations	29 h-index	42 g-index

50	50	50	2726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	BaNbO(IO₃)₅: A New Polar Material with a Very Large SHG Response. Journal of the American Chemical Society, 2009, 131, 9486-9487.	13.7	306
2	Explorations of New Second-Order Nonlinear Optical Materials in the Potassium Vanadyl Iodate System. Journal of the American Chemical Society, 2011, 133, 5561-5572.	13.7	239
3	The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.	2.8	158
4	Concentrated electrolytes stabilize bismuthâ€“potassium batteries. Chemical Science, 2018, 9, 6193-6198.	7.4	139
5	NaVO₂(IO₃)₂(H₂O): A Unique Layered Material Produces A Very Strong SHG Response. Chemistry of Materials, 2010, 22, 1545-1550.	6.7	134
6	Hierarchically porous nitrogen-doped carbon nanotubes derived from coreâ€“shell ZnO@zeolitic imidazolate framework nanorods for highly efficient oxygen reduction reactions. Journal of Materials Chemistry A, 2017, 5, 12322-12329.	10.3	93
7	PbPt(IO3)6(H2O): a new polar material with two types of stereoactive lone-pairs and a very large SHG response. Chemical Communications, 2012, 48, 4220.	4.1	79
8	Highly reversible potassium-ion intercalation in tungsten disulfide. Chemical Science, 2019, 10, 2604-2612.	7.4	74
9	Dual-template ordered mesoporous carbon/Fe₂O₃nanowires as lithium-ion battery anodes. Nanoscale, 2016, 8, 12958-12969.	5.6	72
10	Concentrated electrolytes unlock the full energy potential of potassium-sulfur battery chemistry. Energy Storage Materials, 2019, 18, 470-475.	18.0	72
11	A Beaded-String Silicon Anode. ACS Nano, 2013, 7, 2717-2724.	14.6	68
12	Covalently Functionalized Double-Walled Carbon Nanotubes Combine High Sensitivity and Selectivity in the Electrical Detection of Small Molecules. Journal of the American Chemical Society, 2013, 135, 2306-2312.	13.7	67
13	Massâ€Producible, Quasiâ€Zeroâ€Strain, Latticeâ€Waterâ€Rich Inorganic Openâ€Frameworks for Ultrafastâ€Charging and Longâ€Cycling Zincâ€Ion Batteries. Advanced Materials, 2020, 32, e2003592.	21.0	66
14	Structures and properties of functional metal iodates. Science China Chemistry, 2011, 54, 911-922.	8.2	62
15	Interfacial Oxygen Stabilizes Composite Silicon Anodes. Nano Letters, 2015, 15, 703-708.	9.1	57
16	Safe, Lowâ€Cost, Fastâ€Kinetics and Lowâ€Strain Inorganicâ€Openâ€Framework Anode for Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 16474-16479.	13.8	56
17	Syntheses, crystal structures, and properties of three new lanthanum(iii) vanadium iodates. Dalton Transactions, 2010, 39, 7960.	3.3	52
18	Hoop-Strong Nanotubes for Battery Electrodes. ACS Nano, 2013, 7, 8295-8302.	14.6	52

#	Article	IF	Citations
19	A potassiumâ€“tellurium battery. Energy Storage Materials, 2020, 28, 10-16.	18.0	49
20	Syntheses, Crystal Structures, and Properties of Five New Transition Metal Molybdenum(VI) Selenites and Tellurites. Inorganic Chemistry, 2009, 48, 11809-11820.	4.0	48
21	Second-Order Nonlinear Optical Materials Based on Metal Iodates, Selenites, and Tellurites. Structure and Bonding, 2012, , 43-103.	1.0	46
22	Polar or Non-Polar? Syntheses, Crystal Structures, and Optical Properties of Three New Palladium(II) Iodates. Inorganic Chemistry, 2010, 49, 9581-9589.	4.0	44
23	Syntheses and crystal structures of four new silver(i) iodates with d⁰-transition metal cations. Dalton Transactions, 2010, 39, 1473-1479.	3.3	43
24	Explorations of New Second-Order Nonlinear Optical Materials in the K^I-M^{II}-I^V-O Systems. Inorganic Chemistry, 2010, 49, 4599-4605.	4.0	41
25	Weavable high-capacity electrodes. Nano Energy, 2013, 2, 987-994.	16.0	39
26	Syntheses and Crystal Structures of a Series of Alkaline Earth Vanadium Selenites and Tellurites. Inorganic Chemistry, 2010, 49, 11627-11636.	4.0	38
27	Approaching the voltage and energy density limits of potassiumâ€“selenium battery chemistry in a concentrated ether-based electrolyte. Chemical Science, 2020, 11, 6045-6052.	7.4	38
28	Li₃PO₄ Matrix Enables a Long Cycle Life and High Energy Efficiency Bismuth-Based Battery. Nano Letters, 2016, 16, 5875-5882.	9.1	37
29	Superacid-Surfactant Exchange: Enabling Nondestructive Dispersion of Full-Length Carbon Nanotubes in Water. ACS Nano, 2017, 11, 9231-9238.	14.6	33
30	Recycling Cathodes from Spent Lithium-Ion Batteries Based on the Selective Extraction of Lithium. ACS Sustainable Chemistry and Engineering, 2021, 9, 10196-10204.	6.7	23
31	A series of new alkali metal indium iodates with isolated or extended anions. Dalton Transactions, 2011, 40, 1055-1060.	3.3	20
32	Distinct Cd(II)-tetrazole frameworks determined by auxiliary anions. Inorganic Chemistry Communication, 2011, 14, 1333-1336.	3.9	14
33	Blocking Oxidation Failures of Carbon Nanotubes through Selective Protection of Defects. Advanced Materials, 2016, 28, 6672-6679.	21.0	14
34	Electronic structures and optical properties of Ca₅(BO₃)₃F: a systematical first-principles study. Journal of Physics Condensed Matter, 2011, 23, 395501.	1.8	11
35	Safe, Lowâ€Cost, Fastâ€Kinetics and Lowâ€Strain Inorganicâ€Openâ€Framework Anode for Potassiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 16626-16631.	2.0	11
36	Carbon supported tin sulfide anodes for potassium-ion batteries. Journal of Physics and Chemistry of Solids, 2021, 153, 109992.	4.0	11

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37	Selective Breakdown of Metallic Pathways in Doubleâ€Walled Carbon Nanotube Networks. Small, 2015, 11, 96-102.	10.0	10
38	Ultrafast-kinetics, ultralong-cycle-life, bifunctional inorganic open-framework for potassium-ion batteries. Energy Storage Materials, 2021, 42, 806-814.	18.0	7
39	Syntheses, crystal structures and characterizations of new vanadium arsenites and arsenates. Journal of Solid State Chemistry, 2012, 192, 263-272.	2.9	4
40	Ammonium Laurate Surfactant for Cleaner Deposition of Carbon Nanotubes. Langmuir, 2015, 31, 6948-6955.	3.5	4
41	K2.13V1.52Ti0.48(PO4)3 as an anode material with a long cycle life for potassium-ion batteries. Electrochemistry Communications, 2022, 136, 107247.	4.7	4