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List of Publications by Year in descending order

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37
papers

2,455
citations

471371

17
h-index

360920

35
g-index

38
all docs

38
docs citations

38
times ranked

4276
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution-Based Synthesis and Characterization of Cu ₂ ZnSnS ₄ Nanocrystals. Journal of the American Chemical Society, 2009, 131, 12054-12055.	6.6	573
2	Cu ₂ Se Nanoparticles with Tunable Electronic Properties Due to a Controlled Solid-State Phase Transition Driven by Copper Oxidation and Cationic Conduction. Journal of the American Chemical Society, 2011, 133, 1383-1390.	6.6	335
3	Three-dimensional electrodes and battery architectures. MRS Bulletin, 2011, 36, 523-531.	1.7	272
4	Compositionally Tunable Cu ₂ ZnSn(S _{1-x} Se _x) ₄ Nanocrystals: Probing the Effect of Se-Inclusion in Mixed Chalcogenide Thin Films. Journal of the American Chemical Society, 2011, 133, 15272-15275.	6.6	226
5	Microwave-Assisted Green Synthesis of Silver Nanoparticles Using Orange Peel Extract. ACS Sustainable Chemistry and Engineering, 2014, 2, 367-376.	3.2	191
6	Relativistic plasma nanophotonics for ultrahigh energy density physics. Nature Photonics, 2013, 7, 796-800.	15.6	156
7	Photoelectrochemical Characterization of Nanocrystalline Thin-Film Cu ₂ ZnSnS ₄ Photocathodes. ACS Applied Materials & Interfaces, 2011, 3, 58-66.	4.0	110
8	Direct Electrodeposition of Cu ₂ Sb for Lithium-Ion Battery Anodes. Journal of the American Chemical Society, 2008, 130, 10656-10661.	6.6	92
9	Investigation of Antibacterial Activity by Silver Nanoparticles Prepared by Microwave-Assisted Green Syntheses with Soluble Starch, Dextrose, and Arabinose. ACS Sustainable Chemistry and Engineering, 2014, 2, 590-598.	3.2	78
10	Electrodeposition of Sb/CNT composite films as anodes for Li- and Na-ion batteries. Energy Storage Materials, 2020, 25, 572-584.	9.5	71
11	Synthesis of copper silicide nanocrystallites embedded in silicon nanowires for enhanced transport properties. Journal of Materials Chemistry, 2010, 20, 1993.	6.7	40
12	Ligand-Exchanged CZTS Nanocrystal Thin Films: Does Nanocrystal Surface Passivation Effectively Improve Photovoltaic Performance?. Chemistry of Materials, 2017, 29, 6621-6629.	3.2	37
13	Solution Synthesis and Reactivity of Colloidal Fe ₂ GeS ₄ : A Potential Candidate for Earth Abundant, Nanostructured Photovoltaics. Journal of the American Chemical Society, 2013, 135, 18256-18259.	6.6	35
14	Evaluation of the Electrochemical Properties of Crystalline Copper Antimonide Thin Film Anodes for Lithium Ion Batteries Produced by Single Step Electrodeposition. Electrochimica Acta, 2016, 214, 253-264.	2.6	27
15	Electrodeposition of pure phase SnSb exhibiting high stability as a sodium-ion battery anode. Chemical Communications, 2019, 55, 6938-6941.	2.2	26
16	Neutron Diffraction and X-ray Absorption Fine Structure Evidence for Local Lattice Distortions and Aperiodic Antisite Substitution in Cu ₂ ZnSnS ₄ Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 26292-26303.	1.5	24
17	Electrodeposited thin-film Cu _x Sb anodes for Li-ion batteries: enhancement of cycle life via tuning of film composition and engineering of the film-substrate interface. Journal of Materials Chemistry A, 2018, 6, 12708-12717.	5.2	22
18	Copper Antimonide Nanowire Array Lithium Ion Anodes Stabilized by Electrolyte Additives. ACS Applied Materials & Interfaces, 2016, 8, 30379-30386.	4.0	17

#	ARTICLE	IF	CITATIONS
19	Enhanced Conductivity in CZTS/Cu ₂ Se Nanocrystal Thin Films: Growth of a Conductive Shell. ACS Applied Materials & Interfaces, 2016, 8, 4911-4917.	4.0	17
20	The development of strategies for nanoparticle synthesis: Considerations for deepening understanding of inherently complex systems. Journal of Solid State Chemistry, 2019, 273, 243-286.	1.4	11
21	Bulk Synthesis, Structure, and Electronic Properties of Magnesium Zirconium Nitride Solid Solutions. Chemistry of Materials, 2021, 33, 5345-5354.	3.2	11
22	Amide-Assisted Synthesis of Iron Germanium Sulfide (Fe ₂ GeS ₄) Nanostars: The Effect of LiN(SiMe ₃) ₂ on Precursor Reactivity for Favoring Nanoparticle Nucleation or Growth. Journal of the American Chemical Society, 2020, 142, 7023-7035.	6.6	10
23	Synthesis and Characterization of Diazonium Salts with Polyethylene Glycol Appendages and Resulting Films Afforded by Electrodeposition for Use as a Battery Separator Material. Chemistry of Materials, 2014, 26, 5514-5522.	3.2	8
24	Ambient Surface Stability of Thin Film Nanocrystalline Cu ₃ SbSe ₄ and Structure-Property Relationships. ACS Applied Energy Materials, 2019, 2, 1903-1910.	2.5	8
25	A Directed Route to Colloidal Nanoparticle Synthesis of the Copper Selenophosphate Cu ₃ PSe ₄ . Angewandte Chemie - International Edition, 2020, 59, 3038-3042.	7.2	8
26	X-ray photoelectron spectroscopy as a probe for understanding the potential-dependent impact of fluoroethylene carbonate on the solid electrolyte interface formation in Na/Cu ₂ Sb batteries. Journal of Power Sources, 2021, 489, 229171.	4.0	8
27	Exploring the Role of Vinylene Carbonate in the Passivation and Capacity Retention of Cu ₂ Sb Thin Film Anodes. Journal of Physical Chemistry C, 2020, 124, 26083-26093.	1.5	7
28	Design of a Sample Transfer Holder to Enable Air-Free X-ray Photoelectron Spectroscopy. Chemistry of Materials, 2020, 32, 8091-8096.	3.2	7
29	Evidence of Induced Underpotential Deposition of Crystalline Copper Antimonide via Instantaneous Nucleation. Journal of the Electrochemical Society, 2010, 157, E99.	1.3	5
30	Electrodeposition as a Powerful Tool for the Fabrication and Characterization of Next-Generation Anodes for Sodium Ion Rechargeable Batteries. Electrochemical Society Interface, 2021, 30, 59-63.	0.3	5
31	Synthetic Control of Quinary Nanocrystals of a Photovoltaic Material: The Clear Role of Chalcogen Ratio on Light Absorption and Charge Transport for Cu ₂ Zn ₁ Sn(S ₁ Se ₄). ACS Applied Energy Materials, 2018, 1, 1053-1059.	2.5	4
32	Mixed-conducting properties of annealed polyacrylonitrile activated by n-doping of conjugated domains. Chemical Science, 2021, 13, 225-235.	3.7	4
33	Electrodeposition vs Slurry Casting: How Fabrication Affects Electrochemical Reactions of Sb Electrodes in Sodium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 050537.	1.3	4
34	A Directed Route to Colloidal Nanoparticle Synthesis of the Copper Selenophosphate Cu ₃ PSe ₄ . Angewandte Chemie, 2020, 132, 3062-3066.	1.6	3
35	Olivine Crystal Structure-Directed Twinning in Iron Germanium Sulfide (Fe ₂ GeS ₄) Nanoparticles. ACS Nano, 2021, 15, 11981-11991.	7.3	3
36	Thin Film Lithium Electrolytes. Materials and Energy, 2015, , 307-336.	2.5	0

#	ARTICLE	IF	CITATIONS
37	(Invited) Developing the Electrodeposition of High Energy Density Anodes for 3D Architectures for Rechargeable Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 36-36.	0.0	0