

# Jun Xu

## List of Publications by Year in descending order

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84  
papers

8,773  
citations

66234

42  
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54797

84  
g-index

86  
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86  
docs citations

86  
times ranked

12244  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous phase and size control of upconversion nanocrystals through lanthanide doping. <i>Nature</i> , 2010, 463, 1061-1065.	13.7	2,872
2	Incorporation of Graphenes in Nanostructured TiO <sub>2</sub> Films <i>via</i> Molecular Grafting for Dye-Sensitized Solar Cell Application. <i>ACS Nano</i> , 2010, 4, 3482-3488.	7.3	471
3	Hierarchical nanotubes assembled from MoS <sub>2</sub> -carbon monolayer sandwiched superstructure nanosheets for high-performance sodium ion batteries. <i>Nano Energy</i> , 2016, 22, 27-37.	8.2	333
4	Interlayer Nanoarchitectonics of Two-Dimensional Transition-Metal Dichalcogenides Nanosheets for Energy Storage and Conversion Applications. <i>Advanced Energy Materials</i> , 2017, 7, 1700571.	10.2	303
5	Cu <sub>2</sub> ZnSnS <sub>4</sub> Hierarchical Microspheres as an Effective Counter Electrode Material for Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19718-19723.	1.5	193
6	Synthesis of MOF-derived nanostructures and their applications as anodes in lithium and sodium ion batteries. <i>Coordination Chemistry Reviews</i> , 2019, 388, 172-201.	9.5	192
7	Synthesis of 1T-MoSe <sub>2</sub> ultrathin nanosheets with an expanded interlayer spacing of 1.17 nm for efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14949-14953.	5.2	190
8	Arrays of ZnO/ZnCdSe Nanocables: Band Gap Engineering and Photovoltaic Applications. <i>Nano Letters</i> , 2011, 11, 4138-4143.	4.5	185
9	Synergistic Interlayer and Defect Engineering in VS <sub>2</sub> Nanosheets toward Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, 1703098.	5.2	180
10	Three-dimensional MoS <sub>2</sub> /rGO foams as efficient sulfur hosts for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2019, 355, 671-678.	6.6	164
11	Surface Engineering of ZnO Nanostructures for Semiconductor-Sensitized Solar Cells. <i>Advanced Materials</i> , 2014, 26, 5337-5367.	11.1	149
12	Recent progress in layered metal dichalcogenide nanostructures as electrodes for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7667-7690.	5.2	144
13	Bimetallic PtPd nanoparticles on Nafion-graphene film as catalyst for ethanol electro-oxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 8057.	6.7	143
14	Large-scale Synthesis of Long Crystalline Cu <sub>2</sub> Se Nanowire Bundles by Water-Evaporation-Induced Self-Assembly and Their Application in Gas Sensing. <i>Advanced Functional Materials</i> , 2009, 19, 1759-1766.	7.8	137
15	Pyrite FeS <sub>2</sub> microspheres wrapped by reduced graphene oxide as high-performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7945-7949.	5.2	134
16	Porous CuCo <sub>2</sub> O <sub>4</sub> nanocubes wrapped by reduced graphene oxide as high-performance lithium-ion battery anodes. <i>Nanoscale</i> , 2014, 6, 6551-6556.	2.8	130
17	Synthesis of Porous ZnS:Ag <sub>2</sub> S Nanosheets by Ion Exchange for Photocatalytic H <sub>2</sub> Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9078-9084.	4.0	128
18	Controlled synthesis of CuO nanostructures by a simple solution route. <i>Journal of Solid State Chemistry</i> , 2007, 180, 1390-1396.	1.4	127

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19	Large-Scale Synthesis and Phase Transformation of CuSe, CuInSe <sub>2</sub> , and CuInSe <sub>2</sub> /CuInS <sub>2</sub> Core/Shell Nanowire Bundles. ACS Nano, 2010, 4, 1845-1850.	7.3	105
20	Conversion of 1T-MoSe <sub>2</sub> to 2H-MoS <sub>2</sub> Se <sub>2</sub> mesoporous nanospheres for superior sodium storage performance. Nanoscale, 2017, 9, 1484-1490.	2.8	104
21	Arrays of ZnO/MoS <sub>2</sub> nanocables and MoS <sub>2</sub> nanotubes with phase engineering for bifunctional photoelectrochemical and electrochemical water splitting. Chemical Engineering Journal, 2017, 328, 474-483.	6.6	103
22	Optical properties of highly ordered AlN nanowire arrays grown on sapphire substrate. Applied Physics Letters, 2005, 86, 193101.	1.5	102
23	Carbon Quantum Dotsâ€“Modified Interfacial Interactions and Ion Conductivity for Enhanced High Current Density Performance in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1802955.	10.2	102
24	Large-scale synthesis of Cu <sub>2</sub> SnS <sub>3</sub> and Cu <sub>1.8</sub> S hierarchical microspheres as efficient counter electrode materials for quantum dot sensitized solar cells. Nanoscale, 2012, 4, 6537.	2.8	101
25	In Situ Carbon-Doped Mo(S <sub>0.85</sub> S <sub>0.15</sub> ) <sub>2</sub> Hierarchical Nanotubes as Stable Anodes for High-Performance Sodium-Ion Batteries. Small, 2015, 11, 5667-5674.	5.2	101
26	Arrays of CdSe sensitized ZnO/ZnSe nanocables for efficient solar cells with high open-circuit voltage. Journal of Materials Chemistry, 2012, 22, 13374.	6.7	98
27	Hierarchical nanotubes constructed from interlayer-expanded MoSe <sub>2</sub> nanosheets as a highly durable electrode for sodium storage. Journal of Materials Chemistry A, 2017, 5, 24859-24866.	5.2	88
28	Low-Temperature Synthesis of CuInSe <sub>2</sub> Nanotube Array on Conducting Glass Substrates for Solar Cell Application. ACS Nano, 2010, 4, 6064-6070.	7.3	86
29	Synthesis of Honeycombâ€“like Mesoporous Pyrite FeS <sub>2</sub> Microspheres as Efficient Counter Electrode in Quantum Dots Sensitized Solar Cells. Small, 2014, 10, 4754-4759.	5.2	83
30	Combinational modulations of NiSe <sub>2</sub> nanodendrites by phase engineering and iron-doping towards an efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 8113-8120.	5.2	82
31	Composition and Interface Engineering of Alloyed MoS <sub>2</sub> <sub>x</sub> Se <sub>2</sub> (1â€“ <sub>x</sub> ) <sub>x</sub> Nanotubes for Enhanced Hydrogen Evolution Reaction Activity. Small, 2016, 12, 4379-4385.	5.2	72
32	CdS/CdSe Double-Sensitized ZnO Nanocable Arrays Synthesized by Chemical Solution Method and Their Photovoltaic Applications. Journal of Physical Chemistry C, 2012, 116, 2656-2661.	1.5	65
33	Sandwiched Cathodes Assembled from CoS <sub>2</sub> â€“Modified Carbon Clothes for Highâ€“Performance Lithiumâ€“Sulfur Batteries. Advanced Science, 2021, 8, e2101019.	5.6	64
34	Facile solution growth of vertically aligned ZnO nanorods sensitized with aqueous CdS and CdSe quantum dots for photovoltaic applications. Nanoscale Research Letters, 2011, 6, 340.	3.1	61
35	Synthesis of In <sub>2</sub> O <sub>3</sub> â€“In <sub>2</sub> S <sub>3</sub> coreâ€“shell nanorods with inverted type-I structure for photocatalytic H <sub>2</sub> generation. Physical Chemistry Chemical Physics, 2013, 15, 12688.	1.3	61
36	Preparation, Conversion, and Comparison of the Photocatalytic and Electrochemical Properties of ZnS(en) <sub>0.5</sub> , ZnS, and ZnO. Crystal Growth and Design, 2007, 7, 280-285.	1.4	56

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37	Synthesis of Homogeneously Alloyed $\text{Cu}_{2-x}\text{S}_x$ ( $\text{S}_{1-x}\text{Se}_x$ ) Nanowire Bundles with Tunable Compositions and Bandgaps. <i>Advanced Functional Materials</i> , 2010, 20, 4190-4195.	7.8	55
38	Multifunctional $\text{MoSe}_2/\text{rGO}$ coating on the cathode versus the separator as an efficient polysulfide barrier for high-performance lithium-sulfur battery. <i>Applied Surface Science</i> , 2020, 527, 146785.	3.1	49
39	Lithography inside $\text{Cu}(\text{OH})_2$ Nanorods: A General Route to Controllable Synthesis of the Arrays of Copper Chalcogenide Nanotubes with Double Walls. <i>Inorganic Chemistry</i> , 2008, 47, 699-704.	1.9	48
40	Tunable p-Type Conductivity and Transport Properties of $\text{AlN}$ Nanowires via Mg Doping. <i>ACS Nano</i> , 2011, 5, 3591-3598.	7.3	47
41	Phase Conversion from Hexagonal $\text{Cu}_2\text{S}$ to Cubic $\text{Cu}_2\text{S}$ : Composition Variation, Morphology Evolution, Optical Tuning, and Solar Cell Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16352-16359.	4.0	46
42	Phase transformation and sulfur vacancy modulation of 2D layered tin sulfide nanoplates as highly durable anodes for pseudocapacitive lithium storage. <i>Chemical Engineering Journal</i> , 2020, 392, 123722.	6.6	46
43	Polyvinylpyrrolidone-Assisted Ultrasonic Synthesis of $\text{SnO}$ Nanosheets and Their Use as Conformal Templates for Tin Dioxide Nanostructures. <i>Langmuir</i> , 2012, 28, 10597-10601.	1.6	41
44	A novel anion-exchange strategy for constructing high performance $\text{PbS}$ quantum dot-sensitized solar cells. <i>Nano Energy</i> , 2016, 30, 559-569.	8.2	40
45	Arrays of $\text{ZnSe}/\text{MoSe}_2$ Nanotubes with Electronic Modulation as Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700948.	1.9	39
46	Metallic $1\text{T-VS}_2$ nanosheets featuring $\text{V}^{2+}$ self-doping and mesopores towards an efficient hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3510-3517.	3.0	39
47	Copper selenide ( $\text{Cu}_3\text{Se}_2$ and $\text{Cu}_2\text{S}_x\text{Se}$ ) thin films: electrochemical deposition and electrocatalytic application in quantum dot-sensitized solar cells. <i>Dalton Transactions</i> , 2018, 47, 16587-16595.	1.6	38
48	Fabrication of Architectures with Dual Hollow Structures: Arrays of $\text{Cu}_2\text{O}$ Nanotubes Organized by Hollow Nanospheres. <i>Crystal Growth and Design</i> , 2009, 9, 4524-4528.	1.4	34
49	Water Evaporation Induced Conversion of $\text{CuSe}$ Nanoflakes to $\text{Cu}_2\text{S}$ Hierarchical Columnar Superstructures for High-Performance Solar Cell Applications. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 840-847.	1.2	34
50	Microwave-assisted synthesis of $\text{Cu}_2\text{ZnSnS}_4$ nanocrystals as a novel anode material for lithium ion battery. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	32
51	Mesoscale organization of $\text{Cu}_7\text{S}_4$ nanowires: Formation of novel sheath-like nanotube array. <i>Chemical Physics Letters</i> , 2007, 434, 256-259.	1.2	28
52	One-pot synthesis of graphene/ $\text{In}_2\text{S}_3$ nanoparticle composites for stable rechargeable lithium ion battery. <i>CrystEngComm</i> , 2013, 15, 6578.	1.3	28
53	Oxygen-Doped $\text{VS}_4$ Microspheres with Abundant Sulfur Vacancies as a Superior Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15055-15064.	3.2	25
54	$\text{Cu}_2\text{ZnSnS}_4$ and $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$ nanocrystals: room-temperature synthesis and efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25230-25236.	5.2	24

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55	Electronics from solution-processed 2D semiconductors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12835-12861.	2.7	24
56	Synthesis of double-shelled copper chalcogenide hollow nanocages as efficient counter electrodes for quantum dot-sensitized solar cells. <i>Materials Today Energy</i> , 2017, 5, 331-337.	2.5	23
57	Vanadium-doping in interlayer-expanded MoS <sub>2</sub> nanosheets for the efficient electrocatalytic hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2497-2505.	3.0	23
58	Nanoscale engineering and Mo-doping of 2D ultrathin ReS <sub>2</sub> nanosheets for remarkable electrocatalytic hydrogen generation. <i>Nanoscale</i> , 2020, 12, 17045-17052.	2.8	22
59	Oxygen-incorporated and layer-by-layer stacked WS <sub>2</sub> nanosheets for broadband, self-driven and fast-response photodetection. <i>Nanoscale</i> , 2019, 11, 6810-6816.	2.8	21
60	Transformation of Two-Dimensional Iron Sulfide Nanosheets from FeS <sub>2</sub> to FeS as High-Rate Anodes for Pseudocapacitive Sodium Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 12672-12681.	2.5	20
61	Near-Infrared Photoactive Semiconductor Quantum Dots for Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101923.	10.2	20
62	A top-down synthesis of wurtzite Cu <sub>2</sub> Sn <sub>3</sub> nanocrystals for efficient photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8221-8226.	5.2	19
63	Controllable Synthesis of Bandgap-Tunable CuS <sub>x</sub> Se <sub>1-x</sub> Nanoplate Alloys. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1490-1495.	1.7	18
64	Simple template fabrication of porous MnCo <sub>2</sub> O <sub>4</sub> hollow nanocages as high-performance cathode catalysts for rechargeable Li-O <sub>2</sub> batteries. <i>Nanotechnology</i> , 2016, 27, 135703.	1.3	17
65	Interlayer-expanded and defect-rich metal dichalcogenide (MX <sub>2</sub> ) nanosheets for active and stable hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3140-3147.	3.0	16
66	Facile synthesis of ZnO/PdSe <sub>2</sub> core-shell heterojunction for efficient photodetector application. <i>Chemical Engineering Journal</i> , 2021, 413, 127484.	6.6	14
67	Fluorinated Eu-Doped SnO <sub>2</sub> Nanostructures with Simultaneous Phase and Shape Control and Improved Photoluminescence. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 332-337.	1.2	13
68	High performance nonvolatile memory devices based on Cu <sub>2</sub> Se nanowires. <i>Applied Physics Letters</i> , 2013, 103, 193501.	1.5	13
69	Metastable marcasite NiSe <sub>2</sub> nanodendrites on carbon fiber clothes to suppress polysulfide shuttling for high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2021, 13, 16487-16498.	2.8	13
70	A top-down strategy to synthesize wurtzite Cu <sub>2</sub> ZnSn <sub>4</sub> nanocrystals by green chemistry. <i>Chemical Communications</i> , 2016, 52, 9821-9824.	2.2	12
71	Green and room-temperature synthesis of aqueous CuInS <sub>2</sub> and Cu <sub>2</sub> SnS <sub>3</sub> nanocrystals for efficient photoelectrochemical water splitting. <i>Materials Today Energy</i> , 2018, 10, 200-207.	2.5	12
72	Cu <sub>2</sub> SnS <sub>3</sub> nanocrystals decorated rGO nanosheets towards efficient and stable hydrogen evolution reaction in both acid and alkaline solutions. <i>Materials Today Energy</i> , 2020, 17, 100435.	2.5	12

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73	Arrays of ZnO/CuIn <sub>x</sub> Ga <sub>1-x</sub> Se <sub>2</sub> nanocables with tunable shell composition for efficient photovoltaics. Journal of Applied Physics, 2015, 117, .	1.1	11
74	Gallium doped n-type Zn <sub>x</sub> Cd <sub>1-x</sub> S nanoribbons: Synthesis and photoconductivity properties. Journal of Applied Physics, 2014, 115, 063108.	1.1	8
75	n-Type KCu <sub>3</sub> S <sub>2</sub> microbelts: optical, electrical, and optoelectronic properties. RSC Advances, 2014, 4, 59221-59225.	1.7	6
76	Constructing CdS-Based Electron Transporting Layers With Efficient Electron Extraction for Perovskite Solar Cells. IEEE Journal of Photovoltaics, 2021, 11, 1014-1021.	1.5	6
77	Sub-picosecond passively mode-locked thulium-doped fiber laser by ReS <sub>2</sub> nanoparticles. Japanese Journal of Applied Physics, 2021, 60, 011001.	0.8	6
78	Construction of amorphous Fe <sub>0.95</sub> S <sub>1.05</sub> nanorods with high electrocatalytic activity for enhanced hydrogen evolution reaction. Electrochimica Acta, 2022, 402, 139554.	2.6	6
79	Fabrication of highly ordered CuInSe <sub>2</sub> films with hollow nanocones for anti-reflection. Applied Surface Science, 2011, 257, 10893-10897.	3.1	3
80	(SiC/AlN) <sub>2</sub> multilayer film as an effective protective coating for sintered NdFeB by magnetron sputtering. Materials Research Express, 2017, 4, 086407.	0.8	3
81	Commercial Upconversion Phosphors with High Light Harvesting: A Superior Candidate for High-Performance Dye-Sensitized Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900382.	0.8	3
82	Enhanced performance of all solid-state quantum dot-sensitized solar cells via synchronous deposition of PbS and CdS quantum dots. New Journal of Chemistry, 2020, 44, 505-512.	1.4	3
83	Sodium-ion nanomachining to shape microcrystals into nanostructures and tune their properties. RSC Advances, 2016, 6, 42223-42228.	1.7	1
84	Enhanced Sodium Storage Performance of Co <sub>7</sub> Se <sub>8</sub> Enabled Through In-Situ Formation of a Nanoporous Architecture. ChemElectroChem, 2020, 7, 4361-4368.	1.7	1