

# Jun Wang

## List of Publications by Year in descending order

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51  
papers

3,482  
citations

136950

32  
h-index

182427

51  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancy derived local build-in electric field in mesoporous hollow $\text{Co}_3\text{O}_4$ microspheres promotes high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6967-6976.	10.3	242
2	One-pot synthesized molybdenum dioxide@molybdenum carbide heterostructures coupled with 3D holey carbon nanosheets for highly efficient and ultrastable cycling lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13460-13472.	10.3	220
3	High performance $\text{MnO}@C$ microcages with a hierarchical structure and tunable carbon shell for efficient and durable lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9723-9736.	10.3	212
4	Atomic Modulation and Structure Design of Carbons for Bifunctional Electrocatalysis in Metal-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1803800.	21.0	208
5	High thermoelectric and mechanical performance in highly dense $\text{Cu}_2\text{S}$ bulks prepared by a melt-solidification technique. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9432-9437.	10.3	176
6	Urchin-like $\text{NiO}@NiCo_2O_4$ heterostructure microsphere catalysts for enhanced rechargeable non-aqueous $\text{Li}_2\text{O}$ batteries. <i>Nanoscale</i> , 2019, 11, 50-59.	5.6	130
7	Highly Efficient $\text{Nb}_2\text{C}$ MXene Cathode Catalyst with Uniform Oxygen-Terminated Surface for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2021, 11, .	19.5	130
8	Agaric-like anodes of porous carbon decorated with $\text{MoO}_2$ nanoparticles for stable ultralong cycling lifespan and high-rate lithium/sodium storage. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 396-407.	9.4	129
9	Interfacial Scaffolding Preparation of Hierarchical PBA-Based Derivative Electrocatalysts for Efficient Water Splitting. <i>Advanced Energy Materials</i> , 2019, 9, 1802939.	19.5	119
10	A phosphorus/N-doped carbon nanofiber composite as an anode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19011-19017.	10.3	113
11	Tunable Cationic Vacancies of Cobalt Oxides for Efficient Electrocatalysis in $\text{Li}_2\text{O}$ Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001415.	19.5	113
12	Significant enhancement of figure-of-merit in carbon-reinforced $\text{Cu}_2\text{Se}$ nanocrystalline solids. <i>Nano Energy</i> , 2017, 41, 164-171.	16.0	103
13	Metal-Organic Framework Derived Core-Shell N-Doped Carbon Nanocages Embedded with Cobalt Nanoparticles as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2006188.	14.9	98
14	Self-Assembled 3D Foam-Like $\text{NiCo}_2\text{O}_4$ as Efficient Catalyst for Lithium Oxygen Batteries. <i>Small</i> , 2016, 12, 602-611.	10.0	97
15	Highly efficient cobalt nanoparticles anchored porous N-doped carbon nanosheets electrocatalysts for $\text{Li-O}_2$ batteries. <i>Journal of Catalysis</i> , 2019, 377, 534-542.	6.2	95
16	Oxygen vacancies promoting the electrocatalytic performance of $\text{CeO}_2$ nanorods as cathode materials for $\text{Li}_2\text{O}$ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6552-6561.	10.3	85
17	Superior intrinsic thermoelectric performance with $zT$ of 1.8 in single-crystal and melt-quenched highly dense $\text{Cu}_2\text{-xSe}$ bulks. <i>Scientific Reports</i> , 2015, 5, 7671.	3.3	83
18	$\text{MoSe}_2@CNT$ Core-Shell Nanostructures as Grain Promoters Featuring a Direct $\text{Li}_2\text{O}$ Formation/Decomposition Catalytic Capability in Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003263.	19.5	75

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19	Activating MoS <sub>2</sub> Nanoflakes via Sulfur Defect Engineering Wrapped on CNTs for Stable and Efficient Li-O <sub>2</sub> Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2108153.	14.9	74
20	Single-atom Pt supported on holey ultrathin g-C <sub>3</sub> N <sub>4</sub> nanosheets as efficient catalyst for Li-O <sub>2</sub> batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 28-36.	9.4	72
21	A 3D porous nitrogen-doped carbon-nanofiber-supported palladium composite as an efficient catalytic cathode for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1462-1471.	10.3	71
22	Interfacial Superassembled Porous CeO <sub>2</sub> /C Frameworks Featuring Efficient and Sensitive Decomposing Li <sub>2</sub> O for Smart Li-O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901751.	19.5	71
23	Superassembly of Porous Fe <sub>4</sub> (NiFe) <sub>8</sub> O Frameworks with Stable Octahedron and Multistage Structure for Superior Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904262.	19.5	55
24	The Effects of Te <sup>2+</sup> and I <sup>+</sup> Substitutions on the Electronic Structures, Thermoelectric Performance, and Hardness in Melt-Quenched Highly Dense Cu <sub>2</sub> Se. <i>Advanced Electronic Materials</i> , 2015, 1, 1400015.	5.1	51
25	A 3D hierarchical porous Co <sub>3</sub> O <sub>4</sub> nanotube network as an efficient cathode for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14673-14681.	10.3	50
26	Mesoporous CoO/Co-NiC nanofibers as efficient cathode catalysts for Li-O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19075-19084.	10.3	45
27	Interfacial Superassembly of Grape-Like MnO-Ni@C Frameworks for Superior Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13770-13780.	8.0	45
28	MnCo <sub>2</sub> S <sub>4</sub> @CoS <sub>1.097</sub> Heterostructure Nanotubes as High Efficiency Cathode Catalysts for Stable and Long-Life Lithium-Oxygen Batteries Under High Current Conditions. <i>Advanced Science</i> , 2021, 8, e2103302.	11.2	42
29	A germanium/single-walled carbon nanotube composite paper as a free-standing anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4613.	10.3	37
30	Phase modulation of 1T/2H MoSe <sub>2</sub> nanoflowers for highly efficient bifunctional electrocatalysis in rechargeable Li-O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19922-19931.	10.3	37
31	High thermoelectric performance of Ag doped SnTe polycrystalline bulks via the synergistic manipulation of electrical and thermal transport. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17978-17984.	2.8	35
32	Nanowires embedded porous TiO <sub>2</sub> @C nanocomposite anodes for enhanced stable lithium and sodium ion battery performance. <i>Ceramics International</i> , 2020, 46, 9119-9128.	4.8	34
33	Nanofibrous Co <sub>3</sub> O <sub>4</sub> /PPy Hybrid with Synergistic Effect as Bifunctional Catalyst for Lithium-Oxygen Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600030.	3.7	33
34	Improvement of thermoelectric properties and their correlations with electron effective mass in Cu <sub>1.98</sub> SxSe <sub>1-x</sub> . <i>Scientific Reports</i> , 2017, 7, 40436.	3.3	31
35	A hierarchical porous carbon supported Pd@Pd <sub>4</sub> S heterostructure as an efficient catalytic material positive electrode for Li-O <sub>2</sub> batteries. <i>Journal of Power Sources</i> , 2020, 451, 227738.	7.8	31
36	In-situ deposition of Pd/Pd <sub>4</sub> S heterostructure on hollow carbon spheres as efficient electrocatalysts for rechargeable Li-O <sub>2</sub> batteries. <i>Chinese Chemical Letters</i> , 2021, 32, 2086-2090.	9.0	23

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37	A novel approach to facile synthesis of boron and nitrogen co-doped graphene and its application in lithium oxygen batteries. <i>Energy Storage Materials</i> , 2021, 41, 61-68.	18.0	23
38	A microwave autoclave synthesized MnO <sub>2</sub> /graphene composite as a cathode material for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 869-878.	2.9	22
39	A free-standing CeO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> nanowires electrode featuring a controllable discharge/charge product evolution route with enhanced catalytic performance for Li-O <sub>2</sub> batteries. <i>Applied Materials Today</i> , 2020, 19, 100603.	4.3	20
40	CoS <sub>2</sub> Nanoparticles Anchored on MoS <sub>2</sub> Nanorods As a Superior Bifunctional Electrocatalyst Boosting Li <sub>2</sub> O <sub>2</sub> Heteroepitaxial Growth for Rechargeable Li-O <sub>2</sub> Batteries. <i>Small</i> , 2022, 18, e2105752.	10.0	20
41	Comparison of Few-layer Graphene Prepared from Natural Graphite through Fast Synthesis Approach. <i>Journal of Materials Science and Technology</i> , 2015, 31, 907-912.	10.7	19
42	3D Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> microspheres with nanosheet constituents as high-capacity anode materials for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	18
43	Insights into Ion Occupancy Manipulation of Fe-Co Oxide Free-Standing Cathodes for Li-O <sub>2</sub> Batteries with Enhanced Deep Charge Capability and Long-Term Capability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30268-30279.	8.0	17
44	In-situ One-step Hydrothermal Synthesis of a Lead Germanate-Graphene Composite as a Novel Anode Material for Lithium-Ion Batteries. <i>Scientific Reports</i> , 2014, 4, 7030.	3.3	16
45	CoMoP <sub>2</sub> nanoparticles anchored on N, P doped carbon nanosheets for high-performance lithium-oxygen batteries. <i>FlatChem</i> , 2021, 25, 100221.	5.6	14
46	Cobalt doping effects on photoluminescence, Raman scattering, crystal structure, and magnetic and piezoelectric properties in ZnO single crystals grown from molten hydrous LiOH and NaOH solutions. <i>Journal of Alloys and Compounds</i> , 2015, 628, 303-307.	5.5	12
47	Annealing effects on the structural and dielectric properties of (Nb + In) co-doped rutile TiO <sub>2</sub> ceramics. <i>RSC Advances</i> , 2019, 9, 8364-8368.	3.6	12
48	Dependence of the microstructure and properties of TiC/Ti <sub>3</sub> SiC <sub>2</sub> composites on extra C addition. <i>Ceramics International</i> , 2012, 38, 5967-5971.	4.8	10
49	Rapid hydrothermal synthesis of Li <sub>3</sub> VO <sub>4</sub> with different favored facets. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2547-2553.	2.5	8
50	Ti <sub>3</sub> C <sub>2</sub> T MXene cathode catalyst with efficient decomposition Li <sub>2</sub> O <sub>2</sub> and high-rate cycle stability for Li-O <sub>2</sub> batteries. <i>Electrochimica Acta</i> , 2021, 388, 138622.	5.2	4
51	First-principles study of Mn antisite defect in Li <sub>2</sub> MnO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 415201.	1.8	2