

Xuyun Guo

List of Publications by Year in descending order

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papers

3,607
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126708

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times ranked

4810
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 806-810.	7.2	369
2	Nanostructures of solid electrolyte interphases and their consequences for microsized Sn anodes in sodium ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 1550-1557.	15.6	167
3	Facile Growth of Caterpillar-like NiCo ₂ S ₄ Nanocrystal Arrays on Nickel Foam for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18774-18781.	4.0	165
4	Modulating Built-In Electric Field via Variable Oxygen Affinity for Robust Hydrogen Evolution Reaction in Neutral Media. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	130
5	Highly Air-Stable Tin-Based Perovskite Solar Cells through Grain-Surface Protection by Gallic Acid. <i>ACS Energy Letters</i> , 2020, 5, 1741-1749.	8.8	126
6	<i>In Situ</i> Phase Transformation on Nickel-Based Selenides for Enhanced Hydrogen Evolution Reaction in Alkaline Medium. <i>ACS Energy Letters</i> , 2020, 5, 2483-2491.	8.8	124
7	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. <i>Nature Communications</i> , 2020, 11, 1192.	5.8	123
8	High-Performance Tin-Lead Mixed-Perovskite Solar Cells with Vertical Compositional Gradient. <i>Advanced Materials</i> , 2022, 34, e2107729.	11.1	88
9	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni ₂ Mo ₃ N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18036-18041.	7.2	77
10	Phosphorus Incorporation into Co ₉ S ₈ Nanocages for Highly Efficient Oxygen Evolution Catalysis. <i>Small</i> , 2019, 15, e1904507.	5.2	75
11	Interface Engineering of MoS ₂ for Electrocatalytic Performance Optimization for Hydrogen Generation via Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16577-16584.	3.2	70
12	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6561-6566.	7.2	66
13	Engineering NiFe layered double hydroxide by valence control and intermediate stabilization toward the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26130-26138.	5.2	62
14	Coordination effect of network NiO nanosheet and a carbon layer on the cathode side in constructing a high-performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6503-6509.	5.2	58
15	Two-Dimensional Antiferroelectricity in Nanostripe-Ordered $\ln_2\text{S}_3$. <i>Physical Review Letters</i> , 2020, 125, 047601.	2.9	58
16	Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2003859.	7.8	58
17	Highly Active and Durable Air Electrodes for Reversible Protonic Ceramic Electrochemical Cells Enabled by an Efficient Bifunctional Catalyst. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	57
18	Hollow Porous Carbon-Confined Atomically Ordered PtCo ₃ Intermetallics for an Efficient Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2022, 12, 5380-5387.	5.5	57

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19	Gradient 2D/3D Perovskite Films Prepared by Hot-Casting for Sensitive Photodetectors. <i>Advanced Science</i> , 2020, 7, 2000776.	5.6	56
20	Direct synthesis of L10-FePt nanoparticles from single-source bimetallic complex and their electrocatalytic applications in oxygen reduction and hydrogen evolution reactions. <i>Nano Research</i> , 2019, 12, 2954-2959.	5.8	54
21	Probing the in-Plane Near-Field Enhancement Limit in a Plasmonic Particle-on-Film Nanocavity with Surface-Enhanced Raman Spectroscopy of Graphene. <i>ACS Nano</i> , 2019, 13, 7644-7654.	7.3	54
22	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1803627.	10.2	53
23	Two-dimensional ferroelasticity in van der Waals In_2Se_3 . <i>Nature Communications</i> , 2021, 12, 3665.	5.8	53
24	Controllable construction of flower-like FeS/Fe ₂ O ₃ composite for lithium storage. <i>Journal of Power Sources</i> , 2018, 392, 193-199.	4.0	50
25	Insight into the hydrogen oxidation electrocatalytic performance enhancement on Ni via oxophilic regulation of MoO ₂ . <i>Journal of Energy Chemistry</i> , 2021, 54, 202-207.	7.1	44
26	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020, 14, 10018-10026.	7.3	43
27	Thermal Redistribution of Exciton Population in Monolayer Transition Metal Dichalcogenides Probed with Plasmon-Exciton Coupling Spectroscopy. <i>ACS Photonics</i> , 2019, 6, 411-421.	3.2	42
28	Tuning the electrocatalytic activity of Pt by structurally ordered PdFe/C for the hydrogen oxidation reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11346-11352.	5.2	41
29	Room-temperature multiple ligands-tailored SnO ₂ quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high VOC. <i>Light: Science and Applications</i> , 2021, 10, 239.	7.7	40
30	Preserved Layered Structure Enables Stable Cyclic Performance of MoS ₂ upon Potassium Insertion. <i>Chemistry of Materials</i> , 2019, 31, 8801-8809.	3.2	39
31	Tuning the size and upconversion emission of NaYF ₄ :Yb ³⁺ /Pr ³⁺ nanoparticles through Yb ³⁺ doping. <i>RSC Advances</i> , 2014, 4, 56302-56306.	1.7	38
32	Spontaneous formation of the conformal carbon nanolayer coated Si nanostructures as the stable anode for lithium-ion batteries from silica nanomaterials. <i>Journal of Power Sources</i> , 2021, 496, 229833.	4.0	37
33	Transferred metal gate to 2D semiconductors for sub-1 V operation and near ideal subthreshold slope. <i>Science Advances</i> , 2021, 7, eabf8744.	4.7	37
34	Effects of DNase I coating of titanium on bacteria adhesion and biofilm formation. <i>Materials Science and Engineering C</i> , 2017, 78, 738-747.	3.8	34
35	Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. <i>Nature Communications</i> , 2018, 9, 2965.	5.8	34
36	Nitrogen-induced interfacial electronic structure of NiS ₂ /CoS ₂ with optimized water and hydrogen binding abilities for efficient alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 719-725.	5.2	33

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37	Synergistic regulation of nickel doping/hierarchical structure in cobalt sulfide for high performance zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120539.	10.8	31
38	Hybrid Aqueous/Organic Electrolytes Enable the High-Performance Zn-Ion Batteries. <i>Research</i> , 2019, 2019, 2635310.	2.8	31
39	Critical Roles of Mechanical Properties of Solid Electrolyte Interphase for Potassium Metal Anodes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	31
40	Bulk-Heterojunction with Long-Range Ordering: C ₆₀ Single-Crystal with Incorporated Conjugated Polymer Networks. <i>Journal of the American Chemical Society</i> , 2020, 142, 1630-1635.	6.6	30
41	Non-Periodic Epsilon-Near-Zero Metamaterials at Visible Wavelengths for Efficient Non-Resonant Optical Sensing. <i>Nano Letters</i> , 2020, 20, 3970-3977.	4.5	30
42	Ferrocene-based hyperbranched polymers: a synthetic strategy for shape control and applications as electroactive materials and precursor-derived magnetic ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10774-10780.	2.7	28
43	Dual-phase metal nitrides as highly efficient co-catalysts for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 416, 129116.	6.6	28
44	The Ab Initio Calculations on the Areal Specific Resistance of Li ₇ La ₃ Zr ₂ O ₁₂ Interphase. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900028.	1.3	25
45	Multifunctional nanostructures of Au@Bi ₂ O ₃ fractals for CO ₂ reduction and optical sensing. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11233-11245.	5.2	25
46	Boosting Oxygen Reduction for High-Efficiency H ₂ O ₂ Electrosynthesis on Oxygen-Coordinated Co ₂ Ni ₂ C Catalysts. <i>Small</i> , 2022, 18, e2200730.	5.2	25
47	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , 2021, 12, 6226.	5.8	23
48	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019, 131, 816-820.	1.6	22
49	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie</i> , 2021, 133, 6635-6640.	1.6	22
50	Impacts of boron doping on the atomic structure, stability, and photocatalytic activity of Cu ₃ P nanocrystals. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120515.	10.8	22
51	Infrared Nanoimaging of Surface Plasmons in Type-II Dirac Semimetal PtTe ₂ Nanoribbons. <i>ACS Nano</i> , 2020, 14, 6276-6284.	7.3	20
52	Oxygen Coordination on Fe@N@C to Boost Oxygen Reduction Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 517-524.	2.1	20
53	Oriented-attachment dimensionality build-up via van der Waals interaction. <i>CrystEngComm</i> , 2015, 17, 729-733.	1.3	19
54	Direct Observation of Oxygen Evolution and Surface Restructuring on Mn ₂ O ₃ Nanocatalysts Using <i>In Situ</i> and <i>Ex Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 7012-7020.	4.5	19

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55	Supporting nickel on vanadium nitride for comparable hydrogen evolution performance to platinum in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19669-19674.	5.2	19
56	Additive-Free Shape-Invariant Nano-to-Micron Size-Tuning of Cu ₂ O Cubic Crystals by Square-Wave Voltammetry. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11062-11077.	1.5	18
57	Interstitial copper-doped edge contact for n-type carrier transport in black phosphorus. <i>Informa Mater</i> , 2019, 1, 242-250.	8.5	18
58	In Situ TEM Study of the Degradation of PbSe Nanocrystals in Air. <i>Chemistry of Materials</i> , 2019, 31, 190-199.	3.2	18
59	Carbon/Polymer Bilayer-Coated Si-SiO ₂ Electrodes with Enhanced Electrical Conductivity and Structural Stability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19023-19032.	4.0	18
60	Corrosion-assisted large-scale production of hierarchical iron rusts/Ni(OH) ₂ nanosheet-on-microsphere arrays for efficient electrocatalysis. <i>Electrochimica Acta</i> , 2020, 353, 136478.	2.6	17
61	Modulated FeCo nanoparticle in situ growth on the carbon matrix for high-performance oxygen catalysts. <i>Materials Today Energy</i> , 2021, 19, 100610.	2.5	17
62	A fast and general approach to produce a carbon coated Janus metal/oxide hybrid for catalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7606-7616.	5.2	17
63	Caged-Cation-Induced Lattice Distortion in Bronze TiO ₂ for Cohering Nanoparticulate Hydrogen Evolution Electrocatalysts. <i>ACS Nano</i> , 2022, 16, 9920-9928.	7.3	17
64	Steep Slope p-type 2D WSe ₂ Field-Effect Transistors with Van Der Waals Contact and Negative Capacitance. , 2018, , .		16
65	Selective and Continuous Electrosynthesis of Hydrogen Peroxide on Nitrogen-doped Carbon Supported Nickel. <i>Cell Reports Physical Science</i> , 2020, 1, 100255.	2.8	16
66	Imidazole Type Antifungal Drugs Are Effective Colistin Adjuvants That Resensitize Colistin-Resistant <i>Enterobacteriaceae</i> . <i>Advanced Therapeutics</i> , 2020, 3, 2000084.	1.6	16
67	Thermodynamically Metal Atom Trapping in Van der Waals Layers Enabling Multifunctional 3D Carbon Network. <i>Advanced Functional Materials</i> , 2020, 30, 2002626.	7.8	15
68	An alginic acid assisted rheological phase synthesis of carbon coated Li ₃ V ₂ (PO ₄) ₃ with high-rate performance. <i>Journal of Alloys and Compounds</i> , 2014, 616, 32-41.	2.8	14
69	Regulated iron corrosion towards fabricating large-area self-supporting electrodes for efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	14
70	Nanostructure-Mediated Phase Evolution in Lithiation/Delithiation of Co ₃ O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28171-28180.	4.0	14
71	Modulating Built-In Electric Field via Variable Oxygen Affinity for Robust Hydrogen Evolution Reaction in Neutral Media. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	14
72	Exploring the structure evolution of MoS ₂ upon Li/Na/K ion insertion and the origin of the unusual stability in potassium ion batteries. <i>Nanoscale Horizons</i> , 2020, 5, 1618-1627.	4.1	13

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73	Solution process formation of high performance, stable nanostructured transparent metal electrodes via displacement-diffusion-etch process. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	12
74	Revealing the complex lithiation pathways and kinetics of core-shell NiO@CuO electrode. <i>Energy Storage Materials</i> , 2022, 51, 11-18.	9.5	11
75	Revealing Atomic Structure and Oxidation States of Dopants in Charge-Ordered Nanoparticles for Migration-Promoted Oxygen-Exchange Capacity. <i>Chemistry of Materials</i> , 2019, 31, 5769-5777.	3.2	10
76	The transient reduction of NO with CO and naphthalene in the presence of oxygen using a core-shell SmCeO ₂ @TiO ₂ -supported copper catalyst. <i>Catalysis Science and Technology</i> , 2019, 9, 3408-3415.	2.1	10
77	Interface modulation of bacteriogenic Ag/AgCl nanoparticles by boosting the catalytic activity for reduction reactions using Co ²⁺ ions. <i>Chemical Communications</i> , 2017, 53, 4946-4949.	2.2	9
78	Critical roles of microstructure and interphase on the stability of micro-sized germanium anode. <i>Journal of Power Sources</i> , 2021, 481, 228916.	4.0	9
79	Constructing defect-rich Ni ₉ S ₈ /Fe ₅ Ni ₄ S ₈ heterostructure nanoparticles for efficient oxygen evolution reaction and overall water splitting. <i>J Phys Materials</i> , 2021, 4, 034006.	1.8	9
80	Co ₄ N@WN _x composite for efficient piezocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2022, 51, 7127-7134.	1.6	9
81	Amorphous silicon from low-temperature reduction of silica in the molten salts and its lithium-storage performance. <i>Chinese Chemical Letters</i> , 2021, 32, 598-603.	4.8	8
82	Solution-processed NiO _x nanoparticles with a wide pH window as an efficient hole transport material for high performance tin-based perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 144002.	1.3	8
83	Edge-Orientation Dependent Nanoimaging of Mid-Infrared Waveguide Modes in High-Index PtSe ₂ . <i>Advanced Optical Materials</i> , 2021, 9, 2100294.	3.6	7
84	Stabilizing Microsized Sn Anodes for Na-Ion Batteries with Extended Ether Electrolyte Chemistry. <i>ACS Applied Energy Materials</i> , 2022, 5, 2252-2259.	2.5	7
85	High-quality diamond microparticles containing SiV centers grown by chemical vapor deposition with preselected seeds. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13734-13740.	2.7	7
86	Solution-processed metal doping of sub-3 nm SnO ₂ quantum wires for enhanced H ₂ S sensing at low temperature. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15657-15664.	5.2	7
87	Ni-Fe bimetallic core-shell structured catalysts supported on biomass longan aril derived nitrogen doped carbon for efficient oxygen reduction and evolution performance. <i>Materials Today Communications</i> , 2020, 24, 101127.	0.9	6
88	Tellurium-assisted and space-confined growth of graphene single crystals. <i>Carbon</i> , 2021, 173, 54-60.	5.4	5
89	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni ₂ Mo ₃ N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020, 132, 18192-18197.	1.6	4
90	Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. <i>Nano Research</i> , 2022, 15, 5712-5718.	5.8	4

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91	Growth Processes of LuF ₃ Upconversion Nanoflakes with the Assistance of Amorphous Nanoclusters. ACS Applied Nano Materials, 2019, 2, 5254-5259.	2.4	3
92	Enhanced Anomalous Hall Effect in Pt/CoO Heterostructures by Ferrimagnetic Insulator Gating. ACS Applied Electronic Materials, 2019, 1, 1099-1104.	2.0	3
93	Stabilization of Ultra-Small Stannic Oxide Nanoparticles in Optimizing the Lithium Storage Kinetics. Energy & Fuels, 2022, 36, 4034-4041.	2.5	3