

Xuyun Guo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,771
citations

23
h-index

38
g-index

96
ext. papers

2,625
ext. citations

11.3
avg, IF

5.16
L-index

#	Paper	IF	Citations
84	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	13	6
83	Solution process formation of high performance, stable nanostructured transparent metal electrodes via displacement-diffusion-etch process. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	5
82	Stabilization of Ultra-Small Stannic Oxide Nanoparticles in Optimizing the Lithium Storage Kinetics. <i>Energy & Fuels</i> , 2022 , 36, 4034-4041	4.1	0
81	Boosting Oxygen Reduction for High-Efficiency H ₂ O Electrolysis on Oxygen-Coordinated Co ₂ N ₂ C Catalysts. <i>Small</i> , 2022 , e2200730	11	2
80	Room-temperature multiple ligands-tailored SnO quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high V. <i>Light: Science and Applications</i> , 2021 , 10, 239	16.7	10
79	High-performance tin-lead mixed perovskite solar cells with vertical compositional gradient. <i>Advanced Materials</i> , 2021 , e2107729	24	33
78	Transferred metal gate to 2D semiconductors for sub-1 V operation and near ideal subthreshold slope. <i>Science Advances</i> , 2021 , 7, eabf8744	14.3	3
77	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , 2021 , 12, 6226	17.4	8
76	Oxygen Coordination on Fe-N-C to Boost Oxygen Reduction Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 517-524	6.4	7
75	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>JPhys Materials</i> , 2021 , 4, 034006	4.2	1
74	Edge-Orientation Dependent Nanoimaging of Mid-Infrared Waveguide Modes in High-Index PtSe ₂ . <i>Advanced Optical Materials</i> , 2021 , 9, 2100294	8.1	3
73	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	8.9	7
72	Nanostructure-Mediated Phase Evolution in Lithiation/Delithiation of CoO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28171-28180	9.5	7
71	Two-dimensional ferroelasticity in van der Waals BiInSe. <i>Nature Communications</i> , 2021 , 12, 3665	17.4	14
70	Dual-phase metal nitrides as highly efficient co-catalysts for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 416, 129116	14.7	8
69	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	12	22
68	Tellurium-assisted and space-confined growth of graphene single crystals. <i>Carbon</i> , 2021 , 173, 54-60	10.4	2

67	Critical roles of microstructure and interphase on the stability of micro-sized germanium anode. <i>Journal of Power Sources</i> , 2021 , 481, 228916	8.9	4
66	Modulated FeCo nanoparticle in situ growth on the carbon matrix for high-performance oxygen catalysts. <i>Materials Today Energy</i> , 2021 , 19, 100610	7	5
65	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie</i> , 2021 , 133, 6635-6640	3.6	4
64	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	8.1	3
63	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6561-6566	16.4	13
62	Direct Observation of Oxygen Evolution and Surface Restructuring on MnO Nanocatalysts Using and Transmission Electron Microscopy. <i>Nano Letters</i> , 2021 , 21, 7012-7020	11.5	3
61	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	21.8	3
60	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	21.8	12
59	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	3	2
58	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	13	6
57	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	13	7
56	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	13	24
55	Infrared Nanoimaging of Surface Plasmons in Type-II Dirac Semimetal PtTe Nanoribbons. <i>ACS Nano</i> , 2020 , 14, 6276-6284	16.7	15
54	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	6.7	9
53	Multifunctional nanostructures of AuBi ₂ O ₃ fractals for CO ₂ reduction and optical sensing. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11233-11245	13	14
52	Gradient 2D/3D Perovskite Films Prepared by Hot-Casting for Sensitive Photodetectors. <i>Advanced Science</i> , 2020 , 7, 2000776	13.6	23
51	Imidazole Type Antifungal Drugs Are Effective Colistin Adjuvants That Resensitize Colistin-Resistant Enterobacteriaceae. <i>Advanced Therapeutics</i> , 2020 , 3, 2000084	4.9	8
50	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. <i>Nature Communications</i> , 2020 , 11, 1192	17.4	65

49	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni Mo N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18036-18041	16.4	32
48	In Situ Phase Transformation on Nickel-Based Selenides for Enhanced Hydrogen Evolution Reaction in Alkaline Medium. <i>ACS Energy Letters</i> , 2020 , 5, 2483-2491	20.1	47
47	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	3.6	3
46	Non-Periodic Epsilon-Near-Zero Metamaterials at Visible Wavelengths for Efficient Non-Resonant Optical Sensing. <i>Nano Letters</i> , 2020 , 20, 3970-3977	11.5	17
45	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	9.5	9
44	Highly Air-Stable Tin-Based Perovskite Solar Cells through Grain-Surface Protection by Gallic Acid. <i>ACS Energy Letters</i> , 2020 , 5, 1741-1749	20.1	68
43	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	7.1	16
42	Bulk-Heterojunction with Long-Range Ordering: C Single-Crystal with Incorporated Conjugated Polymer Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1630-1635	16.4	19
41	Two-Dimensional Antiferroelectricity in Nanostripe-Ordered In ₂ Se ₃ . <i>Physical Review Letters</i> , 2020 , 125, 047601	7.4	21
40	Selective and Continuous Electrosynthesis of Hydrogen Peroxide on Nitrogen-doped Carbon Supported Nickel. <i>Cell Reports Physical Science</i> , 2020 , 1, 100255	6.1	7
39	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020 , 14, 10018-10026	16.7	22
38	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	10.8	7
37	Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2003859	15.6	31
36	Thermodynamically Metal Atom Trapping in Van der Waals Layers Enabling Multifunctional 3D Carbon Network. <i>Advanced Functional Materials</i> , 2020 , 30, 2002626	15.6	8
35	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	2.5	5
34	Preserved Layered Structure Enables Stable Cyclic Performance of MoS ₂ upon Potassium Insertion. <i>Chemistry of Materials</i> , 2019 , 31, 8801-8809	9.6	27
33	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	8.3	46
32	Thermal Redistribution of Exciton Population in Monolayer Transition Metal Dichalcogenides Probed with Plasmon-Exciton Coupling Spectroscopy. <i>ACS Photonics</i> , 2019 , 6, 411-421	6.3	25

31	Enhanced Anomalous Hall Effect in Pt/CoO Heterostructures by Ferrimagnetic Insulator Gating. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1099-1104	4	3
30	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	16.7	30
29	Interstitial copper-doped edge contact for n-type carrier transport in black phosphorus. <i>Informa Mater</i> , 2019 , 1, 242	23.1	13
28	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	5.5	7
27	The Ab Initio Calculations on the Areal Specific Resistance of Li-Metal/Li ₇ La ₃ Zr ₂ O ₁₂ Interphase. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900028	3.5	14
26	Nanostructures of solid electrolyte interphases and their consequences for micro-sized Sn anodes in sodium ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 1550-1557	35.4	103
25	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019 , 9, 1803627	21.8	31
24	Growth Processes of LuF ₃ Upconversion Nanoflakes with the Assistance of Amorphous Nanoclusters. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5254-5259	5.6	3
23	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	9.6	7
22	Phosphorus Incorporation into Co S Nanocages for Highly Efficient Oxygen Evolution Catalysis. <i>Small</i> , 2019 , 15, e1904507	11	51
21	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	10	37
20	Hybrid Aqueous/Organic Electrolytes Enable the High-Performance Zn-Ion Batteries. <i>Research</i> , 2019 , 2019, 2635310	7.8	21
19	In Situ TEM Study of the Degradation of PbSe Nanocrystals in Air. <i>Chemistry of Materials</i> , 2019 , 31, 190-198	19.8	13
18	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 816-820	3.6	15
17	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 806-810	16.4	245
16	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	13.9	43
15	Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. <i>Nature Communications</i> , 2018 , 9, 2965	17.4	22
14	Controllable construction of flower-like FeS/Fe ₂ O ₃ composite for lithium storage. <i>Journal of Power Sources</i> , 2018 , 392, 193-199	8.9	33

13	Steep Slope p-type 2D WSe ₂ Field-Effect Transistors with Van Der Waals Contact and Negative Capacitance 2018 ,		8
12	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	13	31
11	Facile Growth of Caterpillar-like NiCoS Nanocrystal Arrays on Nickle Foam for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18774-18781	9.5	128
10	Effects of DNase I coating of titanium on bacteria adhesion and biofilm formation. <i>Materials Science and Engineering C</i> , 2017 , 78, 738-747	8.3	27
9	Interface modulation of bacteriogenic Ag/AgCl nanoparticles by boosting the catalytic activity for reduction reactions using Co ions. <i>Chemical Communications</i> , 2017 , 53, 4946-4949	5.8	8
8	Oriented-attachment dimensionality build-up via van der Waals interaction. <i>CrystEngComm</i> , 2015 , 17, 729-733	3.3	16
7	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	3.7	32
6	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	3.8	17
5	An alginate 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	5.7	12
4	Critical Roles of Mechanical Properties of Solid Electrolyte Interphase for Potassium Metal Anodes. <i>Advanced Functional Materials</i> , 2112399	15.6	3
3	Highly Active and Durable Air Electrodes for Reversible Protonic Ceramic Electrochemical Cells Enabled by an Efficient Bifunctional Catalyst. <i>Advanced Energy Materials</i> , 2103783	21.8	7
2	Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. <i>Nano Research</i> , 1	10	0
1	Hollow Porous Carbon-Confined Atomically Ordered PtCo ₃ Intermetallics for an Efficient Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 5380-5387	13.1	3