

Tao Zhang

List of Publications by Year in descending order

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35
papers

1,895
citations

331259

21
h-index

344852

36
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all docs

36
docs citations

36
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Electronic Interaction in Dual-Cation-Incorporated NiSe ₂ Nanosheets with Lattice Distortion for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1802121.	11.1	361
2	Mo doped Ni ₂ P nanowire arrays: an efficient electrocatalyst for the hydrogen evolution reaction with enhanced activity at all pH values. <i>Nanoscale</i> , 2017, 9, 16674-16679.	2.8	179
3	Periodic Porous Alloyed Au-Ag Nanosphere Arrays and Their Highly Sensitive SERS Performance with Good Reproducibility and High Density of Hotspots. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9792-9801.	4.0	138
4	Compositional engineering of sulfides, phosphides, carbides, nitrides, oxides, and hydroxides for water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13415-13436.	5.2	124
5	Rapid Synthesis of Monodisperse Au Nanospheres through a Laser Irradiation-Induced Shape Conversion, Self-Assembly and Their Electromagnetic Coupling SERS Enhancement. <i>Scientific Reports</i> , 2015, 5, 7686.	1.6	114
6	Hierarchical hetero-Ni ₃ Se ₄ @NiFe LDH micro/nanosheets as efficient bifunctional electrocatalysts with superior stability for overall water splitting. <i>Nanoscale Horizons</i> , 2019, 4, 1132-1138.	4.1	100
7	Nitrogen-Doped Cobalt Diselenide with Cubic Phase Maintained for Enhanced Alkaline Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21575-21582.	7.2	94
8	Rapid and Efficient Self-Assembly of Au@ZnO Core-Shell Nanoparticle Arrays with an Enhanced and Tunable Plasmonic Absorption for Photoelectrochemical Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31897-31906.	4.0	53
9	Mn doped porous cobalt nitride nanowires with high activity for water oxidation under both alkaline and neutral conditions. <i>Chemical Communications</i> , 2017, 53, 13237-13240.	2.2	53
10	Ni _{0.33} Co _{0.67} MoS ₄ nanosheets as a bifunctional electrolytic water catalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19555-19562.	5.2	50
11	Capillary Gradient-Induced Self-Assembly of Periodic Au Spherical Nanoparticle Arrays on an Ultralarge Scale via a Bisolvent System at Air/Water Interface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600976.	1.9	48
12	Ultrasensitive and Stable Au Dimer-Based Colorimetric Sensors Using the Dynamically Tunable Gap-Dependent Plasmonic Coupling Optical Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1707392.	7.8	48
13	Au@Prussian Blue Hybrid Nanomaterial Synergy with a Chemotherapeutic Drug for Tumor Diagnosis and Chemodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39493-39502.	4.0	47
14	Controlled synthesis of sponge-like porous Au-Ag alloy nanocubes for surface-enhanced Raman scattering properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11039-11045.	2.7	45
15	PtPdAg Hollow Nanodendrites: Template-Free Synthesis and High Electrocatalytic Activity for Methanol Oxidation Reaction. <i>Small Methods</i> , 2020, 4, 1900709.	4.6	44
16	Biaxially Strained MoS ₂ Nanoshells with Controllable Layers Boost Alkaline Hydrogen Evolution. <i>Advanced Materials</i> , 2022, 34, e2202195.	11.1	43
17	Hollow FeP/Fe ₃ O ₄ Hybrid Nanoparticles on Carbon Nanotubes as Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12783-12792.	4.0	41
18	Bifunctional Hybrid Ni/Ni ₂ P Nanoparticles Encapsulated by Graphitic Carbon Supported with N, S Modified 3D Carbon Framework for Highly Efficient Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800473.	1.9	40

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19	Laser-irradiation induced synthesis of spongy AuAgPt alloy nanospheres with high-index facets, rich grain boundaries and subtle lattice distortion for enhanced electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13735-13742.	5.2	32
20	One-Pot Synthesis of Ultrasmooth, Precisely Shaped Gold Nanospheres via Surface Self-Polishing Etching and Regrowth. <i>Chemistry of Materials</i> , 2021, 33, 2593-2603.	3.2	29
21	Controllable photodynamic performance via an acidic microenvironment based on two-dimensional metal-organic frameworks for photodynamic therapy. <i>Nano Research</i> , 2021, 14, 660-666.	5.8	26
22	A Sensitive "Optical Nose" for Detection of Volatile Organic Molecules Based on Au@MOFs Nanoparticle Arrays through Surface-Enhanced Raman Scattering. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900452.	1.2	20
23	Highly Selective and Sensitive Detection of Hydrogen Sulfide by the Diffraction Peak of Periodic Au Nanoparticle Array with Silver Coating. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40702-40710.	4.0	19
24	MnMoO ₄ nanosheet array: an efficient electrocatalyst for hydrogen evolution reaction with enhanced activity over a wide pH range. <i>Nanotechnology</i> , 2018, 29, 335403.	1.3	17
25	Nanoplatforms with Remarkably Enhanced Absorption in the Second Biological Window for Effective Tumor Thermoradiotherapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2152-2161.	4.0	16
26	Ultra-fast synthesis of water soluble MoO ₃ quantum dots with controlled oxygen vacancies and their near infrared fluorescence sensing to detect H ₂ O ₂ . <i>Nanoscale Horizons</i> , 2020, 5, 1538-1543.	4.1	16
27	Large-Scale Synthesis of Co/CoO Encapsulated in Nitrogen-, Oxygen-, and Sulfur-Tridoped Three-Dimensional Porous Carbon as Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 6250-6259.	2.5	15
28	A universal route with fine kinetic control to a family of penta-twinned gold nanocrystals. <i>Chemical Science</i> , 2021, 12, 12631-12639.	3.7	15
29	N-doping nanoporous carbon microspheres derived from MOFs for highly efficient removal of formaldehyde. <i>Nanotechnology</i> , 2019, 30, 105702.	1.3	14
30	Nitrogen-Doped Cobalt Diselenide with Cubic Phase Maintained for Enhanced Alkaline Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021, 133, 21745-21752.	1.6	14
31	Hydrogel Film@Au Nanoparticle Arrays Based on Self-Assembly Co-Assisted by Electrostatic Attraction and Hydrogel Shrinkage for SERS Detection with Active Gaps. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101055.	1.9	13
32	Optical sensing properties of Au nanoparticle/hydrogel composite microbeads using droplet microfluidics. <i>Nanotechnology</i> , 2017, 28, 405502.	1.3	8
33	Enhanced oxygen evolution catalytic activity of NiS ₂ by coupling with ferrous phosphite and phosphide. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1801-1808.	2.5	7
34	Green and rapid synthesis of porous Ag submicrocubes via Ag ₃ PO ₄ templates for near-infrared surface-enhanced Raman scattering with high accessibility. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153107.	2.8	6
35	Microporous Ceria-Wrapped Gold Nanoparticles for Conductometric and SERS Dual Monitoring of Hazardous Gases at Room Temperature. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	5