Tao Zhang

List of Publications by Year
in descending order

35 papers	1,895 citations	331259 21 h-index	344852 36 g-index
36 all docs	36 docs citations	36 times ranked	2744 citing authors

#	Article	IF	Citations
1	Microporousâ€Ceriaâ€Wrapped Gold Nanoparticles for Conductometric and SERS Dual Monitoring of Hazardous Gases at Room Temperature. Advanced Materials Interfaces, 2022, 9, .	1.9	5
2	Biaxially Strained MoS₂ Nanoshells with Controllable Layers Boost Alkaline Hydrogen Evolution. Advanced Materials, 2022, 34, e2202195.	11.1	43
3	Controllable photodynamic performance via an acidic microenvironment based on two-dimensional metal-organic frameworks for photodynamic therapy. Nano Research, 2021, 14, 660-666.	5.8	26
4	Enhanced oxygen evolution catalytic activity of NiS₂ by coupling with ferrous phosphite and phosphide. Sustainable Energy and Fuels, 2021, 5, 1801-1808.	2.5	7
5	One-Pot Synthesis of Ultrasmooth, Precisely Shaped Gold Nanospheres via Surface Self-Polishing Etching and Regrowth. Chemistry of Materials, 2021, 33, 2593-2603.	3.2	29
6	Nitrogenâ€Doped Cobalt Diselenide with Cubic Phase Maintained for Enhanced Alkaline Hydrogen Evolution. Angewandte Chemie - International Edition, 2021, 60, 21575-21582.	7.2	94
7	Nitrogenâ€Doped Cobalt Diselenide with Cubic Phase Maintained for Enhanced Alkaline Hydrogen Evolution. Angewandte Chemie, 2021, 133, 21745-21752.	1.6	14
8	Hydrogel Film@Au Nanoparticle Arrays Based on Selfâ€Assembly Coâ€Assisted by Electrostatic Attraction and Hydrogelâ€Shrinkage for SERS Detection with Active Gaps. Advanced Materials Interfaces, 2021, 8, 2101055.	1.9	13
9	A universal route with fine kinetic control to a family of penta-twinned gold nanocrystals. Chemical Science, 2021, 12, 12631-12639.	3.7	15
10	Nanoplatforms with Remarkably Enhanced Absorption in the Second Biological Window for Effective Tumor Thermoradiotherapy. ACS Applied Materials & Interfaces, 2020, 12, 2152-2161.	4.0	16
11	PtPdAg Hollow Nanodendrites: Templateâ€Free Synthesis and High Electrocatalytic Activity for Methanol Oxidation Reaction. Small Methods, 2020, 4, 1900709.	4.6	44
12	Green and rapid synthesis of porous Ag submicrocubes via Ag3PO4 templates for near-infrared surface-enhanced Raman scattering with high accessibility. Journal of Alloys and Compounds, 2020, 820, 153107.	2.8	6
13	Highly Selective and Sensitive Detection of Hydrogen Sulfide by the Diffraction Peak of Periodic Au Nanoparticle Array with Silver Coating. ACS Applied Materials & Interfaces, 2020, 12, 40702-40710.	4.0	19
14	Ultra-fast synthesis of water soluble MoO3â^'x quantum dots with controlled oxygen vacancies and their near infrared fluorescence sensing to detect H2O2. Nanoscale Horizons, 2020, 5, 1538-1543.	4.1	16
15	Compositional engineering of sulfides, phosphides, carbides, nitrides, oxides, and hydroxides for water splitting. Journal of Materials Chemistry A, 2020, 8, 13415-13436.	5.2	124
16	A Sensitive â€œOptical Noseâ€• for Detection of Volatile Organic Molecules Based on Au@MOFs Nanoparticle Arrays through Surfaceâ€Enhanced Raman Scattering. Particle and Particle Systems Characterization, 2020, 37, 1900452.	1.2	20
17	Hollow FeP/Fe₃O₄ Hybrid Nanoparticles on Carbon Nanotubes as Efficient Electrocatalysts for the Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 12783-12792.	4.0	41
18	Au@Prussian Blue Hybrid Nanomaterial Synergy with a Chemotherapeutic Drug for Tumor Diagnosis and Chemodynamic Therapy. ACS Applied Materials & Interfaces, 2019, 11, 39493-39502.	4.0	47

#	Article	IF	Citations
19	Hierarchical hetero-Ni₃Se₄@NiFe LDH micro/nanosheets as efficient bifunctional electrocatalysts with superior stability for overall water splitting. Nanoscale Horizons, 2019, 4, 1132-1138.	4.1	100
20	N-doping nanoporous carbon microspheres derived from MOFs for highly efficient removal of formaldehyde. Nanotechnology, 2019, 30, 105702.	1.3	14
21	Ultrasensitive and Stable Au Dimerâ€Based Colorimetric Sensors Using the Dynamically Tunable Gapâ€Dependent Plasmonic Coupling Optical Properties. Advanced Functional Materials, 2018, 28, 1707392.	7.8	48
22	Periodic Porous Alloyed Auâ€“Ag Nanosphere Arrays and Their Highly Sensitive SERS Performance with Good Reproducibility and High Density of Hotspots. ACS Applied Materials & Interfaces, 2018, 10, 9792-9801.	4.0	138
23	Large-Scale Synthesis of Co/CoO_x Encapsulated in Nitrogen-, Oxygen-, and Sulfur-Tridoped Three-Dimensional Porous Carbon as Efficient Electrocatalysts for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 6250-6259.	2.5	15
24	Ni_{0.33}Co_{0.67}MoS₄ nanosheets as a bifunctional electrolytic water catalyst for overall water splitting. Journal of Materials Chemistry A, 2018, 6, 19555-19562.	5.2	50
25	Laser-irradiation induced synthesis of spongy AuAgPt alloy nanospheres with high-index facets, rich grain boundaries and subtle lattice distortion for enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2018, 6, 13735-13742.	5.2	32
26	Strong Electronic Interaction in Dualâ€Cationâ€Incorporated NiSe₂ Nanosheets with Lattice Distortion for Highly Efficient Overall Water Splitting. Advanced Materials, 2018, 30, e1802121.	11.1	361
27	MnMoO₄ nanosheet array: an efficient electrocatalyst for hydrogen evolution reaction with enhanced activity over a wide pH range. Nanotechnology, 2018, 29, 335403.	1.3	17
28	Bifunctional Hybrid Ni/Ni₂P Nanoparticles Encapsulated by Graphitic Carbon Supported with N, S Modified 3D Carbon Framework for Highly Efficient Overall Water Splitting. Advanced Materials Interfaces, 2018, 5, 1800473.	1.9	40
29	Capillary Gradientâ€Induced Selfâ€Assembly of Periodic Au Spherical Nanoparticle Arrays on an Ultralarge Scale via a Bisolvent System at Air/Water Interface. Advanced Materials Interfaces, 2017, 4, 1600976.	1.9	48
30	Controlled synthesis of sponge-like porous Auâ€“Ag alloy nanocubes for surface-enhanced Raman scattering properties. Journal of Materials Chemistry C, 2017, 5, 11039-11045.	2.7	45
31	Rapid and Efficient Self-Assembly of Au@ZnO Coreâ€“Shell Nanoparticle Arrays with an Enhanced and Tunable Plasmonic Absorption for Photoelectrochemical Hydrogen Generation. ACS Applied Materials & Interfaces, 2017, 9, 31897-31906.	4.0	53
32	Mo doped Ni₂P nanowire arrays: an efficient electrocatalyst for the hydrogen evolution reaction with enhanced activity at all pH values. Nanoscale, 2017, 9, 16674-16679.	2.8	179
33	Optical sensing properties of Au nanoparticle/hydrogel composite microbeads using droplet microfluidics. Nanotechnology, 2017, 28, 405502.	1.3	8
34	Mn doped porous cobalt nitride nanowires with high activity for water oxidation under both alkaline and neutral conditions. Chemical Communications, 2017, 53, 13237-13240.	2.2	53
35	Rapid Synthesis of Monodisperse Au Nanospheres through a Laser Irradiation -Induced Shape Conversion, Self-Assembly and Their Electromagnetic Coupling SERS Enhancement. Scientific Reports, 2015, 5, 7686.	1.6	114