Tao Sun

List of Publications by Year
in descending order

34 papers	3,263 citations	279798 23 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	4398 citing authors

#	Article	IF	Citations
1	Scalable two-step annealing method for preparing ultra-high-density single-atom catalyst libraries. Nature Nanotechnology, 2022, 17, 174-181.	31.5	279
2	Amorphous CoS_x decorated Cd_{0.5}Zn_{0.5}S with a bulk-twinned homojunction for efficient photocatalytic hydrogen evolution. Catalysis Science and Technology, 2022, 12, 3165-3174.	4.1	12
3	Degradation Chemistry and Kinetic Stabilization of Magnetic CrI₃. Journal of the American Chemical Society, 2022, 144, 5295-5303.	13.7	13
4	Hydrogen Bond Interaction in the Tradeâ€Off Between Electrolyte Voltage Window and Supercapacitor Lowâ€Temperature Performances. ChemSusChem, 2022, 15, .	6.8	10
5	0D/2D Co_{0.85}Se/TiO₂ pâ€“n heterojunction for enhanced photocatalytic H₂ evolution. Catalysis Science and Technology, 2022, 12, 4893-4902.	4.1	20
6	Design of Local Atomic Environments in Singleâ€Atom Electrocatalysts for Renewable Energy Conversions. Advanced Materials, 2021, 33, e2003075.	21.0	187
7	Efficient Hydrogen Evolution of Oxidized Niâ€N₃ Defective Sites for Alkaline Freshwater and Seawater Electrolysis. Advanced Materials, 2021, 33, e2003846.	21.0	198
8	Engineering the Coordination Environment of Single Cobalt Atoms for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. ACS Catalysis, 2021, 11, 4498-4509.	11.2	94
9	Tuning the Spin Density of Cobalt Single-Atom Catalysts for Efficient Oxygen Evolution. ACS Nano, 2021, 15, 7105-7113.	14.6	90
10	Assessing the Maximum Power and Consistency of Carbon Supercapacitors Through a Facile Practical Strategy. ACS Sustainable Chemistry and Engineering, 2020, 8, 12430-12436.	6.7	7
11	Chemical design and synthesis of superior single-atom electrocatalysts via in situ polymerization. Journal of Materials Chemistry A, 2020, 8, 17683-17690.	10.3	19
12	Nitrogen-doped 3D nanocarbon with nanopore defects as high-capacity and stable anode materials for sodium/lithium-ion batteries. Materials Today Energy, 2020, 16, 100395.	4.7	17
13	Oxygenâ€Functionalized Ultrathin Ti₃C₂T_x MXene for Enhanced Electrocatalytic Hydrogen Evolution. ChemSusChem, 2019, 12, 1368-1373.	6.8	204
14	Highâ€Yield Electrochemical Production of Largeâ€Sized and Thinly Layered NiPS₃ Flakes for Overall Water Splitting. Small, 2019, 15, e1902427.	10.0	62
15	Defect chemistry in 2D materials for electrocatalysis. Materials Today Energy, 2019, 12, 215-238.	4.7	110
16	B, N Codoped and Defectâ€Rich Nanocarbon Material as a Metalâ€Free Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions. Advanced Science, 2018, 5, 1800036.	11.2	202
17	Engineering the Electronic Structure of MoS₂ Nanorods by N and Mn Dopants for Ultra-Efficient Hydrogen Production. ACS Catalysis, 2018, 8, 7585-7592.	11.2	180
18	Tailoring the nano heterointerface of hematite/magnetite on hierarchical nitrogen-doped carbon nanocages for superb oxygen reduction. Journal of Materials Chemistry A, 2018, 6, 21313-21319.	10.3	34

#	Article	IF	Citations
19	Compressing Carbon Nanocages by Capillarity for Optimizing Porous Structures toward Ultrahighâ€Volumetricâ€Performance Supercapacitors. Advanced Materials, 2017, 29, 1700470.	21.0	243
20	Is iron nitride or carbide highly active for oxygen reduction reaction in acidic medium?. Catalysis Science and Technology, 2017, 7, 51-55.	4.1	50
21	A targeted drug delivery system based on folic acid-functionalized upconversion luminescent nanoparticles. Journal of Biomaterials Applications, 2017, 31, 1247-1256.	2.4	19
22	Recent advances in Fe (or Co)/N/C electrocatalysts for the oxygen reduction reaction in polymer electrolyte membrane fuel cells. Journal of Materials Chemistry A, 2017, 5, 18933-18950.	10.3	146
23	Sulfur and Nitrogen Codoped Carbon Tubes as Bifunctional Metal-Free Electrocatalysts for Oxygen Reduction and Hydrogen Evolution in Acidic Media. Chemistry - A European Journal, 2016, 22, 10261-10261.	3.3	40
24	Sulfur and Nitrogen Codoped Carbon Tubes as Bifunctional Metalâ€Free Electrocatalysts for Oxygen Reduction and Hydrogen Evolution in Acidic Media. Chemistry - A European Journal, 2016, 22, 10326-10329.	3.3	59
25	Graphitic C3N4@MWCNTs supported Mn3O4 as a novel electrocatalyst for the oxygen reduction reaction in zincâ€“air batteries. Journal of Solid State Electrochemistry, 2016, 20, 2685-2692.	2.5	9
26	Alcohol-Tolerant Platinum Electrocatalyst for Oxygen Reduction by Encapsulating Platinum Nanoparticles inside Nitrogen-Doped Carbon Nanocages. ACS Applied Materials & Interfaces, 2016, 8, 16664-16669.	8.0	28
27	Manganese oxide-induced strategy to high-performance iron/nitrogen/carbon electrocatalysts with highly exposed active sites. Nanoscale, 2016, 8, 8480-8485.	5.6	33
28	Morphology and composition evolution of one-dimensional InxAl1â^'xN nanostructures induced by the vapour pressure ratio. CrystEngComm, 2016, 18, 213-217.	2.6	3
29	S-doped mesoporous nanocomposite of HTiNbO₅ nanosheets and TiO₂ nanoparticles with enhanced visible light photocatalytic activity. Physical Chemistry Chemical Physics, 2016, 18, 801-810.	2.8	38
30	Alloyed Coâ€“Mo Nitride as High-Performance Electrocatalyst for Oxygen Reduction in Acidic Medium. ACS Catalysis, 2015, 5, 1857-1862.	11.2	172
31	Advanced non-precious electrocatalyst of the mixed valence CoO x nanocrystals supported on N-doped carbon nanocages for oxygen reduction. Science China Chemistry, 2015, 58, 180-186.	8.2	17
32	Superionic conductor-mediated growth of ternary ZnCdS nanorods over a wide composition range. Nano Research, 2015, 8, 584-591.	10.4	26
33	Significant Contribution of Intrinsic Carbon Defects to Oxygen Reduction Activity. ACS Catalysis, 2015, 5, 6707-6712.	11.2	519
34	Photocatalytic Reduction of CO2 into Methanol over Ag/TiO2 Nanocomposites Enhanced by Surface Plasmon Resonance. Plasmonics, 2014, 9, 61-70.	3.4	117