

Tao Ding

List of Publications by Year in descending order

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56
papers

2,972
citations

186209
28
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161767
54
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all docs

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docs citations

56
times ranked

4431
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Epitaxial Growth of MoSe ₂ –NiSe Vertical Heteronanostructures with Electronic Modulation for Enhanced Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016, 28, 1838-1846.	3.2	310
2	Fabrication of Ultrathin Bi ₂ S ₃ Nanosheets for High-Performance, Flexible, Visible–NIR Photodetectors. <i>Small</i> , 2015, 11, 2848-2855.	5.2	205
3	Fast colloidal synthesis of scalable Mo-rich hierarchical ultrathin MoSe ₂ nanosheets for high-performance hydrogen evolution. <i>Nanoscale</i> , 2014, 6, 11046-11051.	2.8	200
4	Triplet Energy Transfer from CsPbBr ₃ Nanocrystals Enabled by Quantum Confinement. <i>Journal of the American Chemical Society</i> , 2019, 141, 4186-4190.	6.6	169
5	Quantum-Cutting Luminescent Solar Concentrators Using Ytterbium-Doped Perovskite Nanocrystals. <i>Nano Letters</i> , 2019, 19, 338-341.	4.5	153
6	Atomically Precise Dinuclear Site Active toward Electrocatalytic CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 11317-11324.	6.6	153
7	Monodisperse Ternary NiCoP Nanostructures as a Bifunctional Electrocatalyst for Both Hydrogen and Oxygen Evolution Reactions with Excellent Performance. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500454.	1.9	132
8	Mechanisms of triplet energy transfer across the inorganic nanocrystal/organic molecule interface. <i>Nature Communications</i> , 2020, 11, 28.	5.8	127
9	Fabrication of amorphous CoMoS ₄ as a bifunctional electrocatalyst for water splitting under strong alkaline conditions. <i>Nanoscale</i> , 2016, 8, 18887-18892.	2.8	91
10	Controlled Synthesis of Ultrathin Sb ₂ Se ₃ Nanowires and Application for Flexible Photodetectors. <i>Advanced Science</i> , 2015, 2, 1500109.	5.6	84
11	3D architecture constructed via the confined growth of MoS ₂ nanosheets in nanoporous carbon derived from metal–organic frameworks for efficient hydrogen production. <i>Nanoscale</i> , 2015, 7, 18004-18009.	2.8	82
12	Triplet Energy Transfer from Perovskite Nanocrystals Mediated by Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 11270-11278.	6.6	82
13	On the absence of a phonon bottleneck in strongly confined CsPbBr ₃ perovskite nanocrystals. <i>Chemical Science</i> , 2019, 10, 5983-5989.	3.7	71
14	Laser-assisted high-performance PtRu alloy for pH-universal hydrogen evolution. <i>Energy and Environmental Science</i> , 2022, 15, 102-108.	15.6	66
15	Biexciton Auger recombination in mono-dispersed, quantum-confined CsPbBr ₃ perovskite nanocrystals obeys universal volume-scaling. <i>Nano Research</i> , 2019, 12, 619-623.	5.8	63
16	Size- and Halide-Dependent Auger Recombination in Lead Halide Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14292-14295.	7.2	63
17	Molybdenum disulfide with enlarged interlayer spacing decorated on reduced graphene oxide for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Science</i> , 2020, 55, 6637-6647.	1.7	59
18	Alternative Synthesis of CuFeSe ₂ Nanocrystals with Magnetic and Photoelectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2235-2241.	4.0	54

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19	Observation of a phonon bottleneck in copper-doped colloidal quantum dots. <i>Nature Communications</i> , 2019, 10, 4532.	5.8	52
20	Carrier Doping by Pump-Probe Spectroscopy in Combination with Interfacial Charge Transfer: A Case Study of CsPbBr ₃ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3372-3377.	2.1	42
21	Synergistic Modulation at Atomically Dispersed Fe/Au Interface for Selective CO ₂ Electroreduction. <i>Nano Letters</i> , 2021, 21, 686-692.	4.5	41
22	Synthesis and Spectroscopy of Monodispersed, Quantum-Confined FAPbBr ₃ Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 549-556.	3.2	39
23	Charge Transfer from n-Doped Nanocrystals: Mimicking Intermediate Events in Multielectron Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 7791-7794.	6.6	37
24	Photonic Crystals of Oblate Spheroids by Blown Film Extrusion of Prefabricated Colloidal Crystals. <i>Langmuir</i> , 2009, 25, 10218-10222.	1.6	34
25	Patterning and pixelation of colloidal photonic crystals for addressable integrated photonics. <i>Journal of Materials Chemistry</i> , 2011, 21, 11330.	6.7	31
26	Controlled Directionality of Ellipsoids in Monolayer and Multilayer Colloidal Crystals. <i>Langmuir</i> , 2010, 26, 11544-11549.	1.6	30
27	A highly active and durable CuPdPt/C electrocatalyst for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15309-15315.	5.2	29
28	Dynamic Surface Reconstruction of Single-Atom Bimetallic Alloy under <i>Operando</i> Electrochemical Conditions. <i>Nano Letters</i> , 2020, 20, 8319-8325.	4.5	28
29	Synthesis of Cu ₂ SnSe ₃ -Au heteronanostructures with optoelectronic and photocatalytic properties. <i>Nanoscale</i> , 2015, 7, 15106-15110.	2.8	27
30	Phosphine-Free Synthesis and Characterization of Cubic-Phase Cu ₂ SnTe ₃ Nanocrystals with Optical and Optoelectronic Properties. <i>Chemistry of Materials</i> , 2015, 27, 6181-6184.	3.2	27
31	Marcus inverted region of charge transfer from low-dimensional semiconductor materials. <i>Nature Communications</i> , 2021, 12, 6333.	5.8	27
32	<i>Operando</i> evidence of Cu ⁺ stabilization via a single-atom modifier for CO ₂ electroreduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25970-25977.	5.2	26
33	Spin-Controlled Charge-Recombination Pathways across the Inorganic/Organic Interface. <i>Journal of the American Chemical Society</i> , 2020, 142, 4723-4731.	6.6	25
34	Oxygen Plasma Etching-Induced Crystalline Lattice Transformation of Colloidal Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2010, 132, 17340-17342.	6.6	23
35	Bottom-Up Photonic Crystal Approach with Top-Down Defect and Heterostructure Fine-Tuning. <i>Langmuir</i> , 2010, 26, 4535-4539.	1.6	23
36	Spin blockade and phonon bottleneck for hot electron relaxation observed in n-doped colloidal quantum dots. <i>Nature Communications</i> , 2021, 12, 550.	5.8	23

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37	Regulating the Coordination Environment of Ruthenium Cluster Catalysts for the Alkaline Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8016-8023.	2.1	21
38	Electron Transfer into Electron-Accumulated Nanocrystals: Mimicking Intermediate Events in Multielectron Photocatalysis II. <i>Journal of the American Chemical Society</i> , 2018, 140, 10117-10120.	6.6	20
39	Coulomb Barrier for Sequential Two-Electron Transfer in a Nanoengineered Photocatalyst. <i>Journal of the American Chemical Society</i> , 2020, 142, 13934-13940.	6.6	19
40	A superficial sulfur interfacial control strategy for the fabrication of a sulfur/carbon composite for potassium-sulfur batteries. <i>Chemical Communications</i> , 2021, 57, 1490-1493.	2.2	19
41	Insight into Fe Activating One-Dimensional $\text{Ni}(\text{OH})_2$ Nanobelts for Efficient Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20301-20308.	1.5	17
42	Anisotropic oxygen plasma etching of colloidal particles in electrospun fibers. <i>Chemical Communications</i> , 2011, 47, 2429-2431.	2.2	16
43	Modifying the symmetry of colloidal photonic crystals: a way towards complete photonic bandgap. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4100.	2.7	16
44	Organometallic-Route Synthesis, Controllable Growth, Mechanism Investigation, and Surface Feature of PbSe Nanostructures with Tunable Shapes. <i>Langmuir</i> , 2014, 30, 2863-2872.	1.6	16
45	In Situ Investigation on Doping Effect in Co-Doped Tungsten Diselenide Nanosheets for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6229-6236.	1.5	16
46	Plasmon-assisted photocatalytic CO_2 reduction on Au decorated ZrO_2 catalysts. <i>Dalton Transactions</i> , 2021, 50, 6076-6082.	1.6	16
47	Component-Tunable Rutile-Anatase TiO_2 /Reduced Graphene Oxide Nanocomposites for Enhancement of Electrocatalytic Oxygen Evolution. <i>ChemNanoMat</i> , 2018, 4, 1133-1139.	1.5	13
48	Tuning Intermediate-Band Cu_3VS_4 Nanocrystals from Plasmonic-like to Excitonic via Shell-Coating. <i>Chemistry of Materials</i> , 2020, 32, 224-233.	3.2	13
49	Electron and Hole Spin Relaxation in CdSe Colloidal Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 86-93.	2.1	13
50	Size- and Halide-Dependent Auger Recombination in Lead Halide Perovskite Nanocrystals. <i>Angewandte Chemie</i> , 2020, 132, 14398-14401.	1.6	8
51	Carrier-doping as a tool to probe the electronic structure and multi-carrier recombination dynamics in heterostructured colloidal nanocrystals. <i>Chemical Science</i> , 2018, 9, 7253-7260.	3.7	6
52	NiTe_2 Nanosheets for Broadband Photodetection. <i>ACS Applied Nano Materials</i> , 2022, 5, 6094-6099.	2.4	6
53	Lighting Up AIEgen Emission in Solution by Grafting onto Colloidal Nanocrystal Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6334-6338.	2.1	5
54	Self-assembly growth of alloyed NiPt nanocrystals with holothuria-like shape for oxygen evolution reaction with enhanced catalytic activity. <i>APL Materials</i> , 2016, 4, .	2.2	2

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55	Epitaxial growth of bulky calcite inverse opal induced by a single crystalline calcite substrate. CrystEngComm, 2014, 16, 7617.	1.3	1
56	In Situ Construction of Small Pt NPs Embedded in 3D Spherical Porous Carbon as an Electrocatalyst for Liquid Fuel Oxidation with High Performance. ACS Omega, 2018, 3, 17668-17675.	1.6	1