

Bin Zhang

List of Publications by Year in descending order

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59
papers

6,672
citations

101535

36
h-index

128286

60
g-index

63
all docs

63
docs citations

63
times ranked

8426
citing authors

#	ARTICLE	IF	CITATIONS
1	Sintered Ni metal as a matrix of robust self-supporting electrode for ultra-stable hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 133040.	12.7	14
2	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2022, 122, 1127-1207.	47.7	103
3	Single-atom catalysts for thermal- and electro-catalytic hydrogenation reactions. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5743-5757.	10.3	22
4	Crystalline phase induced Raman enhancement on molybdenum carbides. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2575-2582.	6.0	10
5	Surface isolation of single metal complexes or clusters by a coating sieving layer via atomic layer deposition. <i>Cell Reports Physical Science</i> , 2022, 3, 100787.	5.6	5
6	New insights to atherosclerosis management: Role of nanomaterials. <i>Applied Materials Today</i> , 2022, 27, 101466.	4.3	3
7	FGF-2 signaling in nasopharyngeal carcinoma modulates pericyte-macrophage crosstalk and metastasis. <i>JCI Insight</i> , 2022, 7, .	5.0	20
8	Facile Synthesis of Monodispersed Titanium Nitride Quantum Dots for Harmonic Mode-Locking Generation in an Ultrafast Fiber Laser. <i>Nanomaterials</i> , 2022, 12, 2280.	4.1	10
9	Carbon-based nanozymes for biomedical applications. <i>Nano Research</i> , 2021, 14, 570-583.	10.4	118
10	Low-dimensional nanomaterials enabled autoimmune disease treatments: Recent advances, strategies, and future challenges. <i>Coordination Chemistry Reviews</i> , 2021, 432, 213697.	18.8	5
11	Overcoming barriers in photodynamic therapy harnessing nano-formulation strategies. <i>Chemical Society Reviews</i> , 2021, 50, 9152-9201.	38.1	254
12	Gold Nanocluster-Modified Titanium Nitride for Ultrafast Photonics Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2000954.	5.1	11
13	Synergistic Photothermal and Chemical Therapy by Smart Dual-Functional Graphdiyne Nanosheets for Treatment of Parkinson's Disease. <i>Advanced Therapeutics</i> , 2021, 4, 2100082.	3.2	13
14	NIR-Responsive Inorganic 2D Nanomaterials for Cancer Photothermal Therapy: Recent Advances and Future Challenges. <i>Advanced Functional Materials</i> , 2021, 31, 2101625.	14.9	126
15	TiO ₂ supported single Ag atoms nanozyme for elimination of SARS-CoV2. <i>Nano Today</i> , 2021, 40, 101243.	11.9	76
16	Strategic Design of Intelligent-Responsive Nanogel Carriers for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54621-54647.	8.0	43
17	Advanced nanomaterials for hypoxia tumor therapy: challenges and solutions. <i>Nanoscale</i> , 2020, 12, 21497-21518.	5.6	32
18	Recent developments in mid-infrared fiber lasers: Status and challenges. <i>Optics and Laser Technology</i> , 2020, 132, 106497.	4.6	57

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19	Artificial Carbon Graphdiyne: Status and Challenges in Nonlinear Photonic and Optoelectronic Applications. ACS Applied Materials & Interfaces, 2020, 12, 49281-49296.	8.0	16
20	Smart Acid-Activatable Self-Assembly of Black Phosphorous as Photosensitizer to Overcome Poor Tumor Retention in Photothermal Therapy. Advanced Functional Materials, 2020, 30, 2003338.	14.9	25
21	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. Nano-Micro Letters, 2020, 12, 167.	27.0	57
22	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. Light: Science and Applications, 2020, 9, 161.	16.6	145
23	Recent advances in OD nanostructure-functionalized low-dimensional nanomaterials for chemiresistive gas sensors. Journal of Materials Chemistry C, 2020, 8, 7272-7299.	5.5	35
24	Emerging combination strategies with phototherapy in cancer nanomedicine. Chemical Society Reviews, 2020, 49, 8065-8087.	38.1	427
25	Progress in the therapeutic applications of polymer-decorated black phosphorus and black phosphorus analog nanomaterials in biomedicine. Journal of Materials Chemistry B, 2020, 8, 7076-7120.	5.8	34
26	Two-Dimensional Borophene: Properties, Fabrication, and Promising Applications. Research, 2020, 2020, 2624617.	5.7	93
27	Two-dimensional tin diselenide nanosheets pretreated with an alkaloid for near- and mid-infrared ultrafast photonics. Photonics Research, 2020, 8, 1687.	7.0	10
28	Highly Dispersed Single-Atom Pt and Pt Clusters in the Fe-Modified KL Zeolite with Enhanced Selectivity for <i>n</i> -Heptane Aromatization. ACS Applied Materials & Interfaces, 2019, 11, 29858-29867.	8.0	49
29	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. Chem, 2019, 5, 3207-3219.	11.7	131
30	Versatile Applications of Metal Single-Atom @ 2D Material Nanoplatfoms. Advanced Science, 2019, 6, 1901787.	11.2	128
31	Direct covalent modification of black phosphorus quantum dots with conjugated polymers for information storage. Nanoscale, 2019, 11, 3527-3533.	5.6	40
32	Atomically Dispersed Pt ₁ -Polyoxometalate Catalysts: How Does Metal-Support Interaction Affect Stability and Hydrogenation Activity?. Journal of the American Chemical Society, 2019, 141, 8185-8197.	13.7	147
33	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. Nature Communications, 2019, 10, 1330.	12.8	177
34	Insights into Single-Atom Metal-Support Interactions in Electrocatalytic Water Splitting. Small Methods, 2019, 3, 1800481.	8.6	94
35	Single-Atom Au/NiFe Layered Double Hydroxide Electrocatalyst: Probing the Origin of Activity for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 3876-3879.	13.7	817
36	Covalent Functionalization of Black Phosphorus with Conjugated Polymer for Information Storage. Angewandte Chemie, 2018, 130, 4633-4638.	2.0	11

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37	Tailoring Pt locations in KL zeolite by improved atomic layer deposition for excellent performance in n-heptane aromatization. <i>Journal of Catalysis</i> , 2018, 365, 163-173.	6.2	34
38	Atomically Dispersed Rhodium on Self-Assembled Phosphotungstic Acid: Structural Features and Catalytic CO Oxidation Properties. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3578-3587.	3.7	75
39	Kinetically controlled synthesis of two-dimensional Zr/Hf metal-organic framework nanosheets via a modulated hydrothermal approach. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8954-8963.	10.3	117
40	Thermally stable single atom Pt/m-Al ₂ O ₃ for selective hydrogenation and CO oxidation. <i>Nature Communications</i> , 2017, 8, 16100.	12.8	545
41	Stabilizing a Platinum ₁ Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. <i>Angewandte Chemie</i> , 2016, 128, 8459-8463.	2.0	80
42	Stabilizing a Platinum ₁ Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8319-8323.	13.8	350
43	Recent advances in the synthesis and catalytic applications of ligand-protected, atomically precise metal nanoclusters. <i>Coordination Chemistry Reviews</i> , 2016, 322, 1-29.	18.8	281
44	Spontaneous Electroless Deposition of Ultrafine Pd Nanoparticles on Poly(phenylene butadiynylene)s for the Hydroxycarbonylation of Aryl Iodides. <i>ChemistrySelect</i> , 2016, 1, 1832-1836.	1.5	3
45	Soft, Oxidative Stripping of Alkyl Thiolate Ligands from Hydroxyapatite-Supported Gold Nanoclusters for Oxidation Reactions. <i>Chemistry - an Asian Journal</i> , 2016, 11, 532-539.	3.3	55
46	Ag-Pd and CuO-Pd nanoparticles in a hydroxyl-group functionalized ionic liquid: synthesis, characterization and catalytic performance. <i>Catalysis Science and Technology</i> , 2015, 5, 1683-1692.	4.1	46
47	The support effect on the size and catalytic activity of thiolated Au ₂₅ nanoclusters as precatalysts. <i>Nanoscale</i> , 2015, 7, 6325-6333.	5.6	142
48	Soliton mode-locked fiber laser based on topological insulator Bi ₂ Te ₃ nanosheets at 2 μ m. <i>Photonics Research</i> , 2015, 3, 72.	7.0	117
49	Valorization of Renewable Carbon Resources for Chemicals. <i>Chimia</i> , 2015, 69, 120.	0.6	19
50	Ultra-wideband all-fiber tunable Tm/Ho-co-doped laser at 2 μ m. <i>Optics Express</i> , 2014, 22, 25976.	3.4	38
51	Thirteen watt all-fiber mid-infrared supercontinuum generation in a single mode ZBLAN fiber pumped by a 2 μ m MOPA system. <i>Optics Letters</i> , 2014, 39, 1849.	3.3	90
52	Balancing the Rate of Cluster Growth and Etching for Gram-Scale Synthesis of Thiolate-Protected Au ₂₅ Nanoclusters with Atomic Precision. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4623-4627.	13.8	276
53	High-power all-fiber wavelength-tunable thulium doped fiber laser at 2 μ m. <i>Optics Express</i> , 2014, 22, 19947.	3.4	61
54	Highly efficient, NiAu-catalyzed hydrogenolysis of lignin into phenolic chemicals. <i>Green Chemistry</i> , 2014, 16, 2432-2437.	9.0	239

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55	Toward Understanding the Growth Mechanism: Tracing All Stable Intermediate Species from Reduction of Au(I)â€“Thiolate Complexes to Evolution of Au₂₅ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 10577-10580.	13.7	294
56	Synthesis of ultrathin CdS nanosheets as efficient visible-light-driven water splitting photocatalysts for hydrogen evolution. <i>Chemical Communications</i> , 2013, 49, 9803.	4.1	303
57	Towards Rational Design of Nanoparticle Catalysis in Ionic Liquids. <i>Catalysts</i> , 2013, 3, 543-562.	3.5	34
58	Semiconductor saturable absorber mirror passively Q-switched fiber laser near 2Âµm. <i>Applied Optics</i> , 2012, 51, 5664.	1.8	43
59	Selective Degradation of Organosolv Lignin over Noble Metal Catalyst in a Two-Step Process. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2012, 28, 2343-2348.	4.9	7