

Guolei Xiang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,905
citations

279487

23
h-index

288905

40
g-index

42
all docs

42
docs citations

42
times ranked

3268
citing authors

#	ARTICLE	IF	CITATIONS
1	Well-Defined Metal-Organic Framework Hollow Nanocages. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 429-433.	7.2	300
2	Large-scale synthesis of metastable TiO ₂ (B) nanosheets with atomic thickness and their photocatalytic properties. <i>Chemical Communications</i> , 2010, 46, 6801.	2.2	203
3	Interfacial compatibility critically controls Ru/TiO ₂ metal-support interaction modes in CO ₂ hydrogenation. <i>Nature Communications</i> , 2022, 13, 327.	5.8	104
4	Magnesium Silicate Hollow Nanostructures as Highly Efficient Absorbents for Toxic Metal Ions. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10441-10445.	1.5	99
5	Facet effect of Co ₃ O ₄ nanocatalysts on the catalytic decomposition of ammonium perchlorate. <i>Journal of Hazardous Materials</i> , 2020, 392, 122358.	6.5	96
6	Versatile Surface Functionalization of Metal-Organic Frameworks through Direct Metal Coordination with a Phenolic Lipid Enables Diverse Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1705274.	7.8	90
7	Ultrathin Tellurium Oxide/Ammonium Tungsten Bronze Nanoribbon for Multimodality Imaging and Second Near-Infrared Region Photothermal Therapy. <i>Nano Letters</i> , 2019, 19, 1179-1189.	4.5	87
8	Molecule Channels Directed by Cation-Decorated Graphene Oxide Nanosheets and Their Application as Membrane Reactors. <i>Advanced Materials</i> , 2017, 29, 1606093.	11.1	83
9	Three-dimensional hierarchical Pt-Cu superstructures. <i>Nano Research</i> , 2015, 8, 832-838.	5.8	73
10	Size effects in Atomic-Level Epitaxial Redistribution Process of RuO ₂ over TiO ₂ . <i>Scientific Reports</i> , 2012, 2, 801.	1.6	68
11	Surface-specific interaction by structure-match confined pure high-energy facet of unstable TiO ₂ (B) polymorph. <i>Scientific Reports</i> , 2013, 3, 1411.	1.6	51
12	Insights into the electrochemical performances of Bi anodes for Mg ion batteries using ²⁵ Mg solid state NMR spectroscopy. <i>Chemical Communications</i> , 2017, 53, 743-746.	2.2	51
13	Rapid preparation of noble metal nanocrystals via facile coreduction with graphene oxide and their enhanced catalytic properties. <i>Nanoscale</i> , 2011, 3, 3737.	2.8	48
14	Monodisperse F-Substituted Hydroxyapatite Single-Crystal Nanotubes with Amphiphilic Surface Properties. <i>Inorganic Chemistry</i> , 2009, 48, 5614-5616.	1.9	43
15	Enhanced catalytic performance of assembled ceria necklace nanowires by Ni doping. <i>Chemical Communications</i> , 2011, 47, 6060.	2.2	43
16	Hydrogen Bond Nanoscale Networks Showing Switchable Transport Performance. <i>Scientific Reports</i> , 2012, 2, 612.	1.6	38
17	Promotion of the Co ₃ O ₄ /TiO ₂ Interface on Catalytic Decomposition of Ammonium Perchlorate. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3476-3484.	4.0	31
18	Size-Dependent Surface Activity of Rutile and Anatase TiO ₂ Nanocrystals: Facile Surface Modification and Enhanced Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 4759-4765.	1.7	30

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19	Probing Ligand-Induced Cooperative Orbital Redistribution That Dominates Nanoscale Molecule-Surface Interactions with One-Unit-Thin TiO ₂ Nanosheets. <i>Nano Letters</i> , 2018, 18, 7809-7815.	4.5	30
20	±-MnO ₂ nanowires as building blocks for the construction of 3D macro-assemblies. <i>Chemical Communications</i> , 2012, 48, 5925.	2.2	29
21	Acquired pH-responsive and reversible enrichment of organic dyes by peroxide modified ultrathin TiO ₂ nanosheets. <i>Chemical Communications</i> , 2011, 47, 11456.	2.2	27
22	(Ni,Mg) ₃ Si ₂ O ₅ (OH) ₄ Solid-Solution Nanotubes Supported by Sub-0.06 wt % Palladium as a Robust High-Efficiency Catalyst for Suzuki-Miyaura Cross-Coupling Reactions. <i>Inorganic Chemistry</i> , 2012, 51, 6020-6031.	1.9	27
23	Enhanced Electrocatalytic Activity of Trace Pt in Ternary CuCoPt Alloy Nanoparticles for Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2019, 58, 6529-6533.	1.9	24
24	Morphology-Controlled Synthesis of Inorganic Nanocrystals via Surface Reconstruction of Nuclei. <i>Inorganic Chemistry</i> , 2009, 48, 10222-10230.	1.9	22
25	High-performance lithium storage based on the synergy of atomic-thickness nanosheets of TiO ₂ (B) and ultrafine Co ₃ O ₄ nanoparticles. <i>Journal of Power Sources</i> , 2017, 363, 110-116.	4.0	20
26	Exploring the Roles of ZIF-67 as an Energetic Additive in the Thermal Decomposition of Ammonium Perchlorate. <i>Energy & Fuels</i> , 2021, 35, 4447-4456.	2.5	17
27	Reactive Facets Covered Mosaic Spheres of Anatase TiO ₂ and Related Pseudo-Isotropic Effect. <i>Inorganic Chemistry</i> , 2011, 50, 6237-6242.	1.9	14
28	Reconstructing 1D Fe Single-Atom Catalytic Structure on 2D Graphene Film for High-Efficiency Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2021, 14, 866-875.	3.6	14
29	Fe-N-C single-atom catalysts with an axial structure prepared by a new design and synthesis method for ORR. <i>New Journal of Chemistry</i> , 2021, 45, 13004-13014.	1.4	14
30	A new type of noncovalent surface-π stacking interaction occurring on peroxide-modified titania nanosheets driven by vertical f-state polarization. <i>Chemical Science</i> , 2021, 12, 4411-4417.	3.7	13
31	Ultrathin 2D Nanolayer of RuO ₂ Effectively Enhances Charge Separation in the Photochemical Processes of TiO ₂ . <i>Small</i> , 2015, 11, 4469-4474.	5.2	12
32	Hybrid organic-inorganic supramolecular hydrogel reinforced with CePO ₄ nanowires. <i>Polymer Chemistry</i> , 2016, 7, 6485-6489.	1.9	12
33	Exploring electronic-level principles how size reduction enhances nanomaterial surface reactivity through experimental probing and mathematical modeling. <i>Nano Research</i> , 2022, 15, 3812-3817.	5.8	10
34	Tailoring N-Coordination Environment by Ligand Competitive Thermolysis Strategy for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7270-7276.	4.0	6
35	Shape control of Pd-based nanocrystals via quasi-solid-state reactions. <i>RSC Advances</i> , 2012, 2, 3204.	1.7	3
36	Direct synthesis of defective ultrathin brookite-phase TiO ₂ nanosheets showing flexible electronic band states. <i>Chemical Communications</i> , 2021, 57, 500-503.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Quantitatively evaluating activity and number of catalytic sites on metal oxide for ammonium perchlorate decomposition. <i>AIChE Journal</i> , 2022, 68, .	1.8	3
38	Unusual Enrichment and Assembly of TiO ₂ Nanocrystals at Water/Hydrophobic Interfaces in a Pure Inorganic Phase. <i>Langmuir</i> , 2014, 30, 617-623.	1.6	2
39	Surfactant-free synthesis of sub-10 nm Co ₃ O ₄ in a rotating packed bed and its high catalytic activity for AP pyrolysis. <i>Chemical Engineering Science</i> , 2022, 250, 117391.	1.9	2