

# 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	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
2	Quantitatively evaluating activity and number of catalytic sites on metal oxide for ammonium perchlorate decomposition. <i>AIChE Journal</i> , 2022, 68, .	1.8	3
3	Surfactant-free synthesis of sub-10 nm Co <sub>3</sub> O <sub>4</sub> in a rotating packed bed and its high catalytic activity for AP pyrolysis. <i>Chemical Engineering Science</i> , 2022, 250, 117391.	1.9	2
4	Interfacial compatibility critically controls Ru/TiO <sub>2</sub> metal-support interaction modes in CO <sub>2</sub> hydrogenation. <i>Nature Communications</i> , 2022, 13, 327.	5.8	104
5	Promotion of the Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> Interface on Catalytic Decomposition of Ammonium Perchlorate. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3476-3484.	4.0	31
6	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
7	Direct synthesis of defective ultrathin brookite-phase TiO <sub>2</sub> nanosheets showing flexible electronic band states. <i>Chemical Communications</i> , 2021, 57, 500-503.	2.2	3
8	A new type of noncovalent surface- $\pi$ stacking interaction occurring on peroxide-modified titania nanosheets driven by vertical $\pi$ -state polarization. <i>Chemical Science</i> , 2021, 12, 4411-4417.	3.7	13
9	Exploring the Roles of ZIF-67 as an Energetic Additive in the Thermal Decomposition of Ammonium Perchlorate. <i>Energy &amp; Fuels</i> , 2021, 35, 4447-4456.	2.5	17
10	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
11	Facet effect of Co <sub>3</sub> O <sub>4</sub> nanocatalysts on the catalytic decomposition of ammonium perchlorate. <i>Journal of Hazardous Materials</i> , 2020, 392, 122358.	6.5	96
12	Tailoring N-Coordination Environment by Ligand Competitive Thermolysis Strategy for Efficient Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7270-7276.	4.0	6
13	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
14	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
15	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
16	Probing Ligand-Induced Cooperative Orbital Redistribution That Dominates Nanoscale Molecule-Surface Interactions with One-Unit-Thin TiO <sub>2</sub> Nanosheets. <i>Nano Letters</i> , 2018, 18, 7809-7815.	4.5	30
17	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
18	Insights into the electrochemical performances of Bi anodes for Mg ion batteries using <sup>25</sup> Mg solid state NMR spectroscopy. <i>Chemical Communications</i> , 2017, 53, 743-746.	2.2	51

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19	High-performance lithium storage based on the synergy of atomic-thickness nanosheets of TiO <sub>2</sub> (B) and ultrafine Co <sub>3</sub> O <sub>4</sub> nanoparticles. Journal of Power Sources, 2017, 363, 110-116.	4.0	20
20	Hybrid organic-inorganic supramolecular hydrogel reinforced with CePO <sub>4</sub> nanowires. Polymer Chemistry, 2016, 7, 6485-6489.	1.9	12
21	Ultrathin 2D Nanolayer of RuO <sub>2</sub> Effectively Enhances Charge Separation in the Photochemical Processes of TiO <sub>2</sub> . Small, 2015, 11, 4469-4474.	5.2	12
22	Three-dimensional hierarchical Pt-Cu superstructures. Nano Research, 2015, 8, 832-838.	5.8	73
23	Unusual Enrichment and Assembly of TiO <sub>2</sub> Nanocrystals at Water/Hydrophobic Interfaces in a Pure Inorganic Phase. Langmuir, 2014, 30, 617-623.	1.6	2
24	Well-Defined Metal-Organic Framework Hollow Nanocages. Angewandte Chemie - International Edition, 2014, 53, 429-433.	7.2	300
25	Surface-specific interaction by structure-match confined pure high-energy facet of unstable TiO <sub>2</sub> (B) polymorph. Scientific Reports, 2013, 3, 1411.	1.6	51
26	Hydrogen Bond Nanoscale Networks Showing Switchable Transport Performance. Scientific Reports, 2012, 2, 612.	1.6	38
27	(Ni,Mg) <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> Solid-Solution Nanotubes Supported by Sub-0.06 wt % Palladium as a Robust High-Efficiency Catalyst for Suzuki-Miyaura Cross-Coupling Reactions. Inorganic Chemistry, 2012, 51, 6020-6031.	1.9	27
28	Size effects in Atomic-Level Epitaxial Redistribution Process of RuO <sub>2</sub> over TiO <sub>2</sub> . Scientific Reports, 2012, 2, 801.	1.6	68
29	Shape control of Pd-based nanocrystals via quasi-solid-state reactions. RSC Advances, 2012, 2, 3204.	1.7	3
30	±-MnO <sub>2</sub> nanowires as building blocks for the construction of 3D macro-assemblies. Chemical Communications, 2012, 48, 5925.	2.2	29
31	Size-Dependent Surface Activity of Rutile and Anatase TiO <sub>2</sub> Nanocrystals: Facile Surface Modification and Enhanced Photocatalytic Performance. Chemistry - A European Journal, 2012, 18, 4759-4765.	1.7	30
32	Enhanced catalytic performance of assembled ceria necklace nanowires by Ni doping. Chemical Communications, 2011, 47, 6060.	2.2	43
33	Reactive Facets Covered Mosaic Spheres of Anatase TiO <sub>2</sub> and Related Pseudo-Isotropic Effect. Inorganic Chemistry, 2011, 50, 6237-6242.	1.9	14
34	Acquired pH-responsive and reversible enrichment of organic dyes by peroxide modified ultrathin TiO <sub>2</sub> nanosheets. Chemical Communications, 2011, 47, 11456.	2.2	27
35	Rapid preparation of noble metal nanocrystals via facile coreduction with graphene oxide and their enhanced catalytic properties. Nanoscale, 2011, 3, 3737.	2.8	48
36	Large-scale synthesis of metastable TiO <sub>2</sub> (B) nanosheets with atomic thickness and their photocatalytic properties. Chemical Communications, 2010, 46, 6801.	2.2	203

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37	Morphology-Controlled Synthesis of Inorganic Nanocrystals via Surface Reconstruction of Nuclei. <i>Inorganic Chemistry</i> , 2009, 48, 10222-10230.	1.9	22
38	Monodisperse F-Substituted Hydroxyapatite Single-Crystal Nanotubes with Amphiphilic Surface Properties. <i>Inorganic Chemistry</i> , 2009, 48, 5614-5616.	1.9	43
39	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