

Guangming Jiang

List of Publications by Year in descending order

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75
papers

4,806
citations

113904

34
h-index

96001

68
g-index

80
all docs

80
docs citations

80
times ranked

10633
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Nanoparticle Structure and Surface Strain for Catalysis Optimization. <i>Journal of the American Chemical Society</i> , 2014, 136, 7734-7739.	14.6	364
2	Nitrogen defect structure and NO ⁺ intermediate promoted photocatalytic NO removal on H ₂ treated g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2020, 379, 122282.	13.0	278
3	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. <i>Environmental Science & Technology</i> , 2017, 51, 7599-7605.	10.5	275
4	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C ₃ N ₄ . <i>ACS Catalysis</i> , 2018, 8, 8376-8385.	11.7	232
5	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. <i>Environmental Science & Technology</i> , 2017, 51, 10682-10690.	10.5	210
6	Unraveling the Mechanisms of Visible Light Photocatalytic NO Purification on Earth-Abundant Insulator-Based Core-Shell Heterojunctions. <i>Environmental Science & Technology</i> , 2018, 52, 1479-1487.	10.5	199
7	Nanoscale Zero-Valent Iron (nZVI) assembled on magnetic Fe ₃ O ₄ /graphene for Chromium (VI) removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 51-59.	9.6	196
8	Activation of amorphous Bi ₂ WO ₆ with synchronous Bi metal and Bi ₂ O ₃ coupling: Photocatalysis mechanism and reaction pathway. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 340-347.	20.7	196
9	Monodisperse bismuth nanoparticles decorated graphitic carbon nitride: Enhanced visible-light-response photocatalytic NO removal and reaction pathway. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 532-540.	20.7	172
10	Core/Shell Face-Centered Tetragonal FePd/Pd Nanoparticles as an Efficient Non-Pt Catalyst for the Oxygen Reduction Reaction. <i>ACS Nano</i> , 2015, 9, 11014-11022.	15.3	169
11	Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective Bi ₂ O ₂ SiO ₃ . <i>Applied Catalysis B: Environmental</i> , 2019, 241, 187-195.	20.7	162
12	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi ₂ GeO ₅ with oxygen vacancies: A combined experimental and theoretical investigation. <i>Chemical Engineering Journal</i> , 2019, 370, 1366-1375.	13.0	151
13	Defective Bi ₄ MoO ₉ /Bi metal core/shell heterostructure: Enhanced visible light photocatalysis and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 619-627.	20.7	148
14	Enhancing ROS generation and suppressing toxic intermediate production in photocatalytic NO oxidation on O/Ba co-functionalized amorphous carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 938-946.	20.7	139
15	Bimetallic Composition-Promoted Electrocatalytic Hydrodechlorination Reaction on Silver-Palladium Alloy Nanoparticles. <i>ACS Catalysis</i> , 2019, 9, 10803-10811.	11.7	134
16	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018, 348, 26-34.	13.0	112
17	Preparation of alpha-calcium sulfate hemihydrate from FGD gypsum in chloride-free Ca(NO ₃) ₂ solution under mild conditions. <i>Fuel</i> , 2016, 174, 235-241.	6.6	85
18	Photocatalytic NO oxidation on N-doped TiO ₂ /g-C ₃ N ₄ heterojunction: Enhanced efficiency, mechanism and reaction pathway. <i>Applied Surface Science</i> , 2018, 458, 77-85.	6.3	78

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19	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO ₄ . Applied Catalysis B: Environmental, 2019, 253, 293-299.	20.7	76
20	Superhydrophobic magnetic reduced graphene oxide-decorated foam for efficient and repeatable oil-water separation. Applied Surface Science, 2019, 466, 937-945.	6.3	75
21	Tuning the reaction pathway of photocatalytic NO oxidation process to control the secondary pollution on monodisperse Au nanoparticles@g-C ₃ N ₄ . Chemical Engineering Journal, 2019, 378, 122184.	13.0	74
22	Surface Profile Control of FeNiPt/Pt Core/Shell Nanowires for Oxygen Reduction Reaction. Small, 2015, 11, 3545-3549.	11.2	62
23	Defective borate-decorated polymer carbon nitride: Enhanced photocatalytic NO removal, synergy effect and reaction pathway. Applied Catalysis B: Environmental, 2019, 249, 266-274.	20.7	55
24	Facet-dependent photocatalytic NO conversion pathways predetermined by adsorption activation patterns. Nanoscale, 2019, 11, 2366-2373.	5.8	50
25	Thermodynamic Preparation Window of Alpha Calcium Sulfate Hemihydrate from Calcium Sulfate Dihydrate in Non-Electrolyte Glycerol-Water Solution under Mild Conditions. Industrial & Engineering Chemistry Research, 2011, 50, 13561-13567.	3.8	46
26	Immobilizing Water into Crystal Lattice of Calcium Sulfate for its Separation from Water-in-Oil Emulsion. Environmental Science & Technology, 2016, 50, 7650-7657.	10.5	46
27	Mechanistic insight into the electrocatalytic hydrodechlorination reaction on palladium by a facet effect study. Journal of Catalysis, 2020, 391, 414-423.	6.5	45
28	Controlled synthesis of Au-Fe heterodimer nanoparticles and their conversion into Au ₃ O ₄ heterostructured nanoparticles. Nanoscale, 2016, 8, 17947-17952.	5.8	44
29	Surface Ligand Environment Boosts the Electrocatalytic Hydrodechlorination Reaction on Palladium Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 4072-4083.	8.3	44
30	Electron-deficient Cu ⁺ stabilized by interfacial Cu-O-Al bonding for accelerating electrocatalytic nitrate conversion. Chemical Engineering Journal, 2022, 435, 134853.	13.0	44
31	Effect of Supersaturation on Competitive Nucleation of CaSO ₄ Phases in a Concentrated CaCl ₂ Solution. Crystal Growth and Design, 2012, 12, 1388-1394.	3.2	42
32	Trace NaCl and Na ₂ EDTA Mediated Synthesis of α -Calcium Sulfate Hemihydrate in Glycerol-Water Solution. Industrial & Engineering Chemistry Research, 2016, 55, 9189-9194.	3.8	42
33	Calcium Sulfate Hemihydrate Nanowires: One Robust Material in Separation of Water from Water-in-Oil Emulsion. Environmental Science & Technology, 2017, 51, 10519-10525.	10.5	39
34	Nonlattice Cation-SO ₄ ²⁻ Ion Pairs in Calcium Sulfate Hemihydrate Nucleation. Crystal Growth and Design, 2013, 13, 5128-5134.	3.2	38
35	Identifying the rate-determining step of the electrocatalytic hydrodechlorination reaction on palladium nanoparticles. Nanoscale, 2019, 11, 15892-15899.	5.8	37
36	Hierarchical Pd/MnO ₂ nanosheet array supported on Ni foam: An advanced electrode for electrocatalytic hydrodechlorination reaction. Applied Surface Science, 2020, 509, 145369.	6.3	37

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37	Retarding effect of impurities on the transformation kinetics of FGD gypsum to $\hat{\pm}$ -calcium sulfate hemihydrate under atmospheric and hydrothermal conditions. <i>Fuel</i> , 2017, 203, 445-451.	6.6	34
38	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles: The critical role of hydroxyl group deprotonation. <i>Applied Catalysis A: General</i> , 2019, 583, 117146.	4.6	34
39	Dual-site electrocatalytic nitrate reduction to ammonia on oxygen vacancy-enriched and Pd-decorated MnO_2 nanosheets. <i>Nanoscale</i> , 2021, 13, 17504-17511.	5.8	34
40	Preparation of $\hat{\pm}$ -Calcium Sulfate Hemihydrate from Calcium Sulfate Dihydrate in Methanol-Water Solution under Mild Conditions. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3261-3266.	3.8	33
41	Palladium nanoparticles assembled on titanium nitride for enhanced electrochemical hydrodechlorination of 2,4-dichlorophenol in water. <i>Chinese Journal of Catalysis</i> , 2018, 39, 693-700.	14.6	31
42	Solution-Mediated Transformation Kinetics of Calcium Sulfate Dihydrate to $\hat{\pm}$ -Calcium Sulfate Hemihydrate in CaCl_2 Solutions at Elevated Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17134-17139.	3.8	30
43	<i>Halorientalis persicus</i> sp. nov., an extremely halophilic archaeon isolated from a salt lake and emended description of the genus <i>Halorientalis</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 940-944.	1.8	28
44	Novel functional mesoporous silica nanoparticles loaded with Vitamin E acetate as smart platforms for pH responsive delivery with high bioactivity. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 184-195.	9.6	28
45	A facile method to control the structure and morphology of $\hat{\pm}$ -calcium sulfate hemihydrate. <i>CrystEngComm</i> , 2015, 17, 8549-8554.	2.4	26
46	Electrocatalytic nitrate reduction on bimetallic Palladium-Copper Nanowires: Key surface structure for selective dinitrogen formation. <i>Chemical Engineering Journal</i> , 2022, 435, 134969.	13.0	25
47	Role and fate of the lead during the conversion of calcium sulfate dihydrate to $\hat{\pm}$ -hemihydrate whiskers in ethylene glycol-water solutions. <i>Chemical Engineering Journal</i> , 2019, 372, 74-81.	13.0	24
48	Structures and strategies for enhanced sensitivity of polydiacetylene(PDA) based biosensor platforms. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113120.	10.4	24
49	Controlling the secondary pollutant on B-doped $\text{g-C}_3\text{N}_4$ during photocatalytic NO removal: a combined DRIFTS and DFT investigation. <i>Catalysis Science and Technology</i> , 2019, 9, 4531-4537.	4.2	21
50	Astroglial-Conditioned Media and Growth Factors Modulate Proliferation and Differentiation of Astrocytes in Primary Culture. <i>Neurochemical Research</i> , 2006, 32, 49-56.	3.3	20
51	Controlled synthesis of monodisperse $\hat{\pm}$ -calcium sulfate hemihydrate nanoellipsoids with a porous structure. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11509-11515.	2.9	20
52	Adsorption configuration of sodium 2-quinolinecarboxylate on iron substrate: Investigation by in situ SERS, XPS and theoretical calculation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 156, 123-130.	4.0	20
53	Electronic Structure Optimization and Proton-Transfer Enhancement on Titanium Oxide-Supported Copper Nanoparticles for Enhanced Nitrogen Recycling from Nitrate-Contaminated Water. <i>Environmental Science & Technology</i> , 2023, 57, 10117-10126.	10.5	20
54	Core/shell FePd/Pd catalyst with a superior activity to Pt in oxygen reduction reaction. <i>Science Bulletin</i> , 2016, 61, 1248-1254.	11.1	18

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55	Sodium Cation-Mediated Crystallization of \pm -Hemihydrate Whiskers from Gypsum in Ethylene Glycol-Water Solutions. <i>Crystal Growth and Design</i> , 2018, 18, 6694-6701.	3.2	18
56	Defective Layered Double Hydroxide Nanosheet Boosts Electrocatalytic Hydrodechlorination Reaction on Supported Palladium Nanoparticles. <i>ACS ES&T Water</i> , 2022, 2, 1451-1460.	4.8	17
57	Electrocatalytic hydrodechlorination system with antiscaling and anti-chlorine poisoning features for salt-laden wastewater treatment. <i>Water Research</i> , 2022, 225, 119210.	11.4	14
58	Calcium sulfate polymorph evolution dominated by competitive nucleation in gypsum metastable zone. <i>Journal of Crystal Growth</i> , 2017, 470, 143-148.	1.6	12
59	Cooperative treatment effectiveness of ATR and HSP90 inhibition in Ewing's sarcoma cells. <i>Cell and Bioscience</i> , 2021, 11, 57.	5.0	10
60	Dissecting the Chain Length Effect on Separation of Alkane-in-Water Emulsions with Superwetting Microchannels. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6157-6166.	8.3	8
61	Insight into Metastable Lifetime of \pm -Calcium Sulfate Hemihydrate in CaCl_2 Solution. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3265-3271.	3.8	7
62	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.8	7
63	Insights into the Role of Na^+ on the Transformation of Gypsum into \pm -Hemihydrate Whiskers in Alcohol-Water Systems. <i>ACS Omega</i> , 2022, 7, 15570-15579.	3.6	7
64	Subnanocyclic Molecule of 15-Crown-5 Inhibiting Interfacial Water Decomposition and Stabilizing Zinc Anodes via Regulation of Zn^{2+} Solvation Shell. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 9167-9175.	4.9	7
65	Contrasting Characteristics and Evolution of Southerly Low-Level Jets During Different Boundary-Layer Regimes. <i>Boundary-Layer Meteorology</i> , 2020, 174, 179-202.	2.2	5
66	Influence of Environmental Factors on Hexavalent Chromium Removal From Aqueous Solutions by Nano-Adsorbent Composites. <i>Clean - Soil, Air, Water</i> , 2016, 44, 162-168.	1.3	4
67	Synthesis and evaluation of peptidic thrombin inhibitors bearing acid-stable sulfotyrosine analogues. <i>Chemical Communications</i> , 2021, 57, 10923-10926.	4.2	4
68	Dual-ligand Cu-based MOFs for electrocatalytic reduction of NO_3^- . <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 110472.	6.9	3
69	Hierarchical flower-like MgAl layered double hydroxide microparticles as phosphate porter for its recovery from phosphate-contaminated water. <i>Separation and Purification Technology</i> , 2024, 330, 125384.	8.1	3
70	Neutron Diffraction Measurements on Dissimilar Metal Weld of Cu-Al Obtained by Friction Stir Welding Method. <i>Advanced Materials Research</i> , 0, 896, 646-649.	0.1	2
71	Efficient Implementation of a Genetic Algorithm for the Capacitated Vehicle Routing Problem on a High-Performance FPGA. , 2023, , .		1
72	Synthesis of intermetallic FePtPd nanoparticles and their enhanced catalysis for electro-oxidation of methanol. <i>Surfaces and Interfaces</i> , 2022, 35, 102485.	3.2	0

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73	Film-forming, stable, conductive composites of polyhistidine/graphene oxide for electrochemical quantification of trace Pb ²⁺ . RSC Advances, 2023, 13, 15274-15279.	3.7	0
74	Reactant enrichment in yolk-shell structured Pd/TiN nanoreactors for boosting electrocatalytic hydrodechlorination performance. Chemical Engineering Journal, 2024, 481, 148325.	13.0	0
75	Cobalt single-site molecular Catalyst-mediated electrochemical Hydrodechlorination for detoxification of halogenated Antibiotics: Performance, reaction pathway and mechanism. Chemical Engineering Journal, 2024, 499, 156276.	13.0	0