

Xiaowei Chen

List of Publications by Year in descending order

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89
papers

5,531
citations

87843

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79644

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94
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docs citations

94
times ranked

7716
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Photocatalytic H ₂ Evolution from Water using Visible Light and Structure-Engineered Graphitic Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9240-9245.	7.2	1,000
2	Facet engineered Ag ₃ PO ₄ for efficient water photooxidation. <i>Energy and Environmental Science</i> , 2013, 6, 3380.	15.6	231
3	Substrate-, Wavelength-, and Time-Dependent Plasmon-Assisted Surface Catalysis Reaction of 4-Nitrobenzenethiol Dimerizing to <i>p,p'</i> -Dimercaptoazobenzene on Au, Ag, and Cu Films. <i>Langmuir</i> , 2011, 27, 10677-10682.	1.6	223
4	A Noble-Metal-Free Catalyst Derived from Ni-Al Hydrotalcite for Hydrogen Generation from N ₂ H ₄ ·H ₂ O Decomposition. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6191-6194.	7.2	222
5	Nanostructured Cu/TiO ₂ Photocatalysts for H ₂ Production from Ethanol and Glycerol Aqueous Solutions. <i>ChemCatChem</i> , 2011, 3, 574-577.	1.8	158
6	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. <i>Green Chemistry</i> , 2012, 14, 614.	4.6	151
7	The pH-Controlled Plasmon-Assisted Surface Photocatalysis Reaction of 4-Aminothiophenol to <i>p,p'</i> -Dimercaptoazobenzene on Au, Ag, and Cu Colloids. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9629-9636.	1.5	149
8	Surface modification of Ni/Al ₂ O ₃ with Pt: Highly efficient catalysts for H ₂ generation via selective decomposition of hydrous hydrazine. <i>Journal of Catalysis</i> , 2013, 298, 1-9.	3.1	137
9	Bifunctional Hybrid SiO ₂ Nanoparticles Showing Synergy between Core Spin Crossover and Shell Luminescence Properties. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3290-3293.	7.2	127
10	Synergistic Role of TRPV1 and TRPA1 in Pancreatic Pain and Inflammation. <i>Gastroenterology</i> , 2011, 140, 1283-1291.e2.	0.6	126
11	Gold supported on carbon nanotubes for the selective oxidation of glycerol. <i>Journal of Catalysis</i> , 2012, 285, 83-91.	3.1	107
12	A novel approach for CO-free H ₂ production via catalytic decomposition of hydrazine. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 1081-1089.	3.8	103
13	Influence of activated carbon surface chemistry on the activity of Au/AC catalysts in glycerol oxidation. <i>Journal of Catalysis</i> , 2011, 281, 119-127.	3.1	101
14	The reaction route and active site of catalytic decomposition of hydrazine over molybdenum nitride catalyst. <i>Journal of Catalysis</i> , 2004, 224, 473-478.	3.1	100
15	Promoting role of potassium in the reverse water gas shift reaction on Pt/mullite catalyst. <i>Catalysis Today</i> , 2017, 281, 319-326.	2.2	98
16	Stabilized gold on cerium-modified cryptomelane: Highly active in low-temperature CO oxidation. <i>Journal of Catalysis</i> , 2014, 309, 58-65.	3.1	83
17	Hierarchically Structured Carbon: Synthesis of Carbon Nanofibers Nested inside or Immobilized onto Modified Activated Carbon. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5488-5492.	7.2	82
18	Enhanced Hydroxyl Radical Scavenging Activity by Doping Lanthanum in Ceria Nanocubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1891-1901.	1.5	77

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19	In Situ FT-IR Spectroscopic Studies of CO Adsorption on Fresh Mo ₂ C/Al ₂ O ₃ Catalyst. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7088-7094.	1.2	71
20	Improved Oxidase Mimetic Activity by Praseodymium Incorporation into Ceria Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18595-18608.	4.0	71
21	Catalytic decomposition of hydrazine on iron nitride catalysts. <i>Catalysis Communications</i> , 2006, 7, 187-191.	1.6	70
22	A novel catalyst for hydrazine decomposition: molybdenum carbide supported on γ -Al ₂ O ₃ . <i>Chemical Communications</i> , 2002, , 288-289.	2.2	69
23	Enhancement of the selectivity to dihydroxyacetone in glycerol oxidation using gold nanoparticles supported on carbon nanotubes. <i>Catalysis Communications</i> , 2011, 16, 64-69.	1.6	68
24	Synergistic effect of bimetallic Au-Pd supported on ceria-zirconia mixed oxide catalysts for selective oxidation of glycerol. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 222-235.	10.8	62
25	Direct synthesis of carbon nanofibers on modified biomass-derived activated carbon. <i>Carbon</i> , 2009, 47, 340-343.	5.4	61
26	Title is missing!. <i>Catalysis Letters</i> , 2002, 79, 21-25.	1.4	55
27	Critical Influence of Nanofaceting on the Preparation and Performance of Supported Gold Catalysts. <i>ACS Catalysis</i> , 2015, 5, 3504-3513.	5.5	53
28	Selective Oxidation of Glycerol Catalyzed by Rh/Activated Carbon: Importance of Support Surface Chemistry. <i>Catalysis Letters</i> , 2011, 141, 420-431.	1.4	48
29	Tide driven microbial dynamics through virus-host interactions in the estuarine ecosystem. <i>Water Research</i> , 2019, 160, 118-129.	5.3	47
30	Natural Lavas as Catalysts for Efficient Production of Carbon Nanotubes and Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1823-1824.	7.2	46
31	Influence of the microstructure of carbon nanotubes on the oxidative dehydrogenation of ethylbenzene to styrene. <i>Catalysis Today</i> , 2010, 150, 49-54.	2.2	46
32	Pd, Pt, and Pt@Cu Catalysts Supported on Carbon Nanotube (CNT) for the Selective Oxidation of Glycerol in Alkaline and Base-Free Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8548-8556.	1.8	46
33	Reversible deactivation of a Au/Ce _{0.62} Zr _{0.38} O ₂ catalyst in CO oxidation: A systematic study of CO ₂ -triggered carbonate inhibition. <i>Journal of Catalysis</i> , 2014, 316, 210-218.	3.1	45
34	Ru-modified Au catalysts supported on ceria@zirconia for the selective oxidation of glycerol. <i>Catalysis Today</i> , 2015, 253, 178-189.	2.2	45
35	Size, nanostructure, and composition dependence of bimetallic Au@Pd supported on ceria@zirconia mixed oxide catalysts for selective oxidation of benzyl alcohol. <i>Journal of Catalysis</i> , 2019, 375, 44-55.	3.1	43
36	Selective Oxidation of Glycerol Catalyzed by Gold Supported on Multiwalled Carbon Nanotubes with Different Surface Chemistries. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15884-15894.	1.8	42

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37	Reducible Support Effects in the Gas Phase Hydrogenation of <i>p</i> -Chloronitrobenzene over Gold. <i>Journal of Physical Chemistry C</i> , 2013, 117, 994-1005.	1.5	40
38	Carbon nanotube-induced preparation of vanadium oxide nanorods: Application as a catalyst for the partial oxidation of n-butane. <i>Materials Research Bulletin</i> , 2007, 42, 354-361.	2.7	39
39	Selective hydrogenation of benzoic acid over Au supported on CeO ₂ and Ce _{0.62} Zr _{0.38} O ₂ : Formation of benzyl alcohol. <i>Journal of Catalysis</i> , 2014, 317, 114-125.	3.1	39
40	The morphology, porosity and productivity control of carbon nanofibers or nanotubes on modified activated carbon. <i>Carbon</i> , 2007, 45, 895-898.	5.4	38
41	The P2Y ₂ Receptor Sensitizes Mouse Bladder Sensory Neurons and Facilitates Purinergic Currents. <i>Journal of Neuroscience</i> , 2010, 30, 2365-2372.	1.7	36
42	Influence of pretreatment atmospheres on the performance of bimetallic Au-Pd supported on ceria-zirconia mixed oxide catalysts for benzyl alcohol oxidation. <i>Applied Catalysis A: General</i> , 2016, 525, 145-157.	2.2	35
43	Mount Etna Lava-Supported Nanocarbons for Oxidative Dehydrogenation Reactions. <i>Advanced Materials</i> , 2008, 20, 3597-3600.	11.1	33
44	Selective Oxidation of Glycerol over Platinum-Based Catalysts Supported on Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17390-17398.	1.8	33
45	Fast Green FCF Attenuates Lipopolysaccharide-Induced Depressive-Like Behavior and Downregulates TLR4/Myd88/NF- κ B Signal Pathway in the Mouse Hippocampus. <i>Frontiers in Pharmacology</i> , 2019, 10, 501.	1.6	32
46	Revisiting marine lytic and lysogenic virus-host interactions: Kill-the-Winner and Piggyback-the-Winner. <i>Science Bulletin</i> , 2021, 66, 871-874.	4.3	32
47	Gold Catalysts Supported on Cerium-Gallium Mixed Oxide for the Carbon Monoxide Oxidation and Water Gas Shift Reaction. <i>Topics in Catalysis</i> , 2011, 54, 201-209.	1.3	31
48	Synthesis of palladium-rhodium bimetallic nanoparticles for formic acid dehydrogenation. <i>Journal of Energy Chemistry</i> , 2021, 52, 301-309.	7.1	31
49	Catalytic Decomposition of Hydrazine over γ -Mo ₂ C/ γ -Al ₂ O ₃ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6040-6047.	1.8	30
50	CO Oxidation over Bimetallic Au-Pd Supported on Ceria-Zirconia Catalysts: Effects of Oxidation Temperature and Au:Pd Molar Ratio. <i>Catalysis Letters</i> , 2016, 146, 144-156.	1.4	29
51	Activation processes of highly ordered carbon nanofibers in the oxidative dehydrogenation of ethylbenzene. <i>Catalysis Today</i> , 2012, 186, 93-98.	2.2	28
52	Synthesis of ceria-praseodimite nanotubes with high catalytic activity for CO oxidation. <i>Catalysis Today</i> , 2012, 180, 167-173.	2.2	26
53	Viral Lysis Alters the Optical Properties and Biological Availability of Dissolved Organic Matter Derived from <i>Prochlorococcus</i> Picocyanobacteria. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	26
54	Facile Synthesis of Ultrathin AuCu Dimetallic Nanowire Networks. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2700-2706.	1.0	25

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55	The effect of reaction conditions on the apparent deactivation of Ceâ€Zr mixed oxides for the catalytic wet oxidation of phenol. <i>Catalysis Today</i> , 2012, 180, 25-33.	2.2	25
56	Viral Regulation on Bacterial Community Impacted by Lysis-Lysogeny Switch: A Microcosm Experiment in Eutrophic Coastal Waters. <i>Frontiers in Microbiology</i> , 2019, 10, 1763.	1.5	25
57	A Novel Catalyst for Synthesis of Styrene: Carbon Nanofibers Immobilized on Activated Carbon. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3495-3501.	0.9	24
58	Differential purinergic signaling in bladder sensory neurons of naÃve and bladder-inflamed mice. <i>Pain</i> , 2010, 148, 462-472.	2.0	23
59	CO Oxidation Activity of a Au/Ceria-Zirconia Catalyst Prepared by Depositionâ€Precipitation with Urea. <i>Topics in Catalysis</i> , 2011, 54, 931-940.	1.3	23
60	Effect of Multifunctional Nanocatalysts on <i>n</i> -C ₇ Asphaltene Adsorption and Subsequent Oxidation under High-Pressure Conditions. <i>Energy & Fuels</i> , 2020, 34, 6261-6278.	2.5	23
61	Structure transformations and reducibility of nanocrystalline Ce _{1-x} Yb _x O ₂ (x/2) mixed oxides. <i>Catalysis Today</i> , 2012, 187, 56-64.	2.2	22
62	Influence of {111} nanofaceting on the dynamics of CO adsorption and oxidation over Au supported on CeO ₂ nanocubes: An operando DRIFT insight. <i>Catalysis Today</i> , 2019, 336, 90-98.	2.2	22
63	Preferential oxidation of CO in the presence of excess of hydrogen on Ru/Al ₂ O ₃ catalyst: Promoting effect of ceriaâ€terbia mixed oxide. <i>Journal of Catalysis</i> , 2013, 299, 272-283.	3.1	21
64	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. <i>Catalysis Science and Technology</i> , 2019, 9, 2328-2334.	2.1	21
65	A Novel Phage Infecting <i>Alteromonas</i> Represents a Distinct Group of Siphophages Infecting Diverse Aquatic Copiotrophs. <i>MSphere</i> , 2021, 6, e0045421.	1.3	20
66	Plasmon-driven dimerization via S-S chemical bond in an aqueous environment. <i>Scientific Reports</i> , 2014, 4, 7221.	1.6	19
67	Fast Green FCF Alleviates Pain Hypersensitivity and Down-Regulates the Levels of Spinal P2X ₄ Expression and Pro-inflammatory Cytokines in a Rodent Inflammatory Pain Model. <i>Frontiers in Pharmacology</i> , 2018, 9, 534.	1.6	19
68	Ceria-Praseodymia Mixed Oxides: Relationships Between Redox Properties and Catalytic Activities Towards NO Oxidation to NO ₂ and CO-PROX Reactions. <i>Topics in Catalysis</i> , 2016, 59, 1065-1070.	1.3	18
69	Immobilization of CNFs on the surface and inside of the modified activated carbon. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3533-3536.	0.7	17
70	Selective Oxidation of Veratryl Alcohol over Au-Pd/Ce _{0.62} Zr _{0.38} O ₂ Catalysts Synthesized by Sol-Immobilization: Effect of Au:Pd Molar Ratio. <i>Nanomaterials</i> , 2018, 8, 669.	1.9	17
71	A Macroscopically Relevant 3Dâ€Metrology Approach for Nanocatalysis Research. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700343.	1.2	16
72	Pulsed radiofrequency to the dorsal root ganglion or the sciatic nerve reduces neuropathic pain behavior, decreases peripheral pro-inflammatory cytokines and spinal Î²-catenin in chronic constriction injury rats. <i>Regional Anesthesia and Pain Medicine</i> , 2019, 44, 742-746.	1.1	16

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73	Enhancing activity, selectivity and stability of palladium catalysts in formic acid decomposition: Effect of support functionalization. <i>Catalysis Today</i> , 2021, 382, 61-70.	2.2	16
74	Improved Photoactivities of Large- C_{3000} N_{4000} for CO_2 Conversion by Controllably Introducing Co and Ni Species to Effectively Modulate Photogenerated Charges. <i>ChemCatChem</i> , 2019, 11, 6282-6287.	1.8	15
75	Physicochemical properties of nanostructured Pd/lanthanide-doped ceria spheres with high catalytic activity for CH_4 combustion. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7488-7499.	5.2	14
76	Simultaneous water gas shift and methanation reactions on $\text{Ru/Ce}_{0.8}\text{Tb}_{0.2}\text{O}_{2-x}$ based catalysts. <i>Catalysis Today</i> , 2012, 180, 42-50.	2.2	13
77	Enhanced Artificial Enzyme Activities on the Reconstructed Sawtoothlike Nanofacets of Pure and Pr-Doped Ceria Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38061-38073.	4.0	13
78	Adjustment and control of SERS activity of metal substrates by pressure. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 398-405.	1.2	10
79	The contribution of neuro-immune crosstalk to pain in the peripheral nervous system and the spinal cord. <i>International Immunopharmacology</i> , 2022, 107, 108700.	1.7	10
80	A facile one-pot hydrothermal synthesis as an efficient method to modulate the potassium content of cryptomelane and its effects on the redox and catalytic properties. <i>Chinese Journal of Catalysis</i> , 2019, 40, 940-952.	6.9	9
81	A global viral oceanography database (gVOD). <i>Earth System Science Data</i> , 2021, 13, 1251-1271.	3.7	9
82	A Novel Broad Host Range Phage Infecting <i>Alteromonas</i> . <i>Viruses</i> , 2021, 13, 987.	1.5	9
83	Nitrifiers drive successions of particulate organic matter and microbial community composition in a starved macrocosm. <i>Environment International</i> , 2021, 157, 106776.	4.8	8
84	Experimental and Process Modelling Investigation of the Hydrogen Generation from Formic Acid Decomposition Using a Pd/Zn Catalyst. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8462.	1.3	7
85	Combined Macroscopic, Nanoscopic, and Atomic-Scale Characterization of Gold-Ruthenium Bimetallic Catalysts for Octanol Oxidation. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 419-437.	1.2	6
86	Elevated Contribution of Low Nucleic Acid Prokaryotes and Viral Lysis to the Prokaryotic Community Along the Nutrient Gradient From an Estuary to Open Ocean Transect. <i>Frontiers in Microbiology</i> , 2020, 11, 612053.	1.5	6
87	Exceptional Low-Temperature CO Oxidation over Noble-Metal-Free Iron-Doped Hollandites: An In-Depth Analysis of the Influence of the Defect Structure on Catalytic Performance. <i>ACS Catalysis</i> , 2021, 11, 15026-15039.	5.5	5
88	UNDERSTANDING CERIA-BASED CATALYTIC MATERIALS: AN OVERVIEW OF RECENT PROGRESS. <i>Catalytic Science Series</i> , 2013, , 47-138.	0.6	2
89	Performance of Supported Au-Pd Alloy Nano Particles Catalyst for Base-free Synthesis of Imines by Self-coupling of Amine. <i>Rare Metal Materials and Engineering</i> , 2018, 47, 442-446.	0.8	1