Jinlong Gong

List of Publications by Year
in descending order

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414 papers	41,131 citations	1536 106 h-index	3034 188 g-index
445 all docs	445 docs citations	445 times ranked	33178 citing authors

#	Article	IF	Citations
1	Recent advances in catalytic hydrogenation of carbon dioxide. Chemical Society Reviews, 2011, 40, 3703.	38.1	2,713
2	CO₂ photo-reduction: insights into CO₂ activation and reaction on surfaces of photocatalysts. Energy and Environmental Science, 2016, 9, 2177-2196.	30.8	1,488
3	Recent progress made in the mechanism comprehension and design of electrocatalysts for alkaline water splitting. Energy and Environmental Science, 2019, 12, 2620-2645.	30.8	1,052
4	Electrochemical sensing in paper-based microfluidic devices. Lab on A Chip, 2010, 10, 477-483.	6.0	837
5	Ethylene glycol: properties, synthesis, and applications. Chemical Society Reviews, 2012, 41, 4218.	38.1	819
6	Nanostructured Materials for Heterogeneous Electrocatalytic CO₂ Reduction and their Related Reaction Mechanisms. Angewandte Chemie - International Edition, 2017, 56, 11326-11353.	13.8	811
7	Enhanced Surface Reaction Kinetics and Charge Separation of pâ€“n Heterojunction Co₃O₄/BiVO₄ Photoanodes. Journal of the American Chemical Society, 2015, 137, 8356-8359.	13.7	767
8	Sub-10â€‰nm rutile titanium dioxide nanoparticles for efficient visible-light-driven photocatalytic hydrogen production. Nature Communications, 2015, 6, 5881.	12.8	653
9	Synthesis of Ethanol via Syngas on Cu/SiO₂ Catalysts with Balanced Cu⁰â€“Cu⁺ Sites. Journal of the American Chemical Society, 2012, 134, 13922-13925.	13.7	614
10	Paperâ€Based ELISA. Angewandte Chemie - International Edition, 2010, 49, 4771-4774.	13.8	610
11	Advances in solar energy conversion. Chemical Society Reviews, 2019, 48, 1862-1864.	38.1	492
12	Coreâ€“shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO₂. Chemical Society Reviews, 2020, 49, 2937-3004.	38.1	479
13	Breaking the scaling relationship via thermally stable Pt/Cu single atom alloys for catalytic dehydrogenation. Nature Communications, 2018, 9, 4454.	12.8	451
14	Methanation of carbon dioxide: an overview. Frontiers of Chemical Science and Engineering, 2011, 5, 2-10.	4.4	443
15	Tungsten Oxide Single Crystal Nanosheets for Enhanced Multichannel Solar Light Harvesting. Advanced Materials, 2015, 27, 1580-1586.	21.0	436
16	Tantalum-based semiconductors for solar water splitting. Chemical Society Reviews, 2014, 43, 4395-4422.	38.1	421
17	Strategies for improving the performance and stability of Ni-based catalysts for reforming reactions. Chemical Society Reviews, 2014, 43, 7245-7256.	38.1	419
18	Mechanistic Understanding of the Plasmonic Enhancement for Solar Water Splitting. Advanced Materials, 2015, 27, 5328-5342.	21.0	373

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19	Dry reforming of methane over Ni/La2O3 nanorod catalysts with stabilized Ni nanoparticles. Applied Catalysis B: Environmental, 2017, 202, 683-694.	20.2	369
20	Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmonâ€Enhanced TiO₂ Photoelectrodes. Angewandte Chemie - International Edition, 2018, 57, 5278-5282.	13.8	365
21	Heterogeneous Molecular Systems for Photocatalytic CO₂ Reduction with Water Oxidation. Angewandte Chemie - International Edition, 2016, 55, 14924-14950.	13.8	360
22	Propane dehydrogenation: catalyst development, new chemistry, and emerging technologies. Chemical Society Reviews, 2021, 50, 3315-3354.	38.1	354
23	Metal oxide redox chemistry for chemical looping processes. Nature Reviews Chemistry, 2018, 2, 349-364.	30.2	352
24	Theory-guided design of catalytic materials using scaling relationships and reactivity descriptors. Nature Reviews Materials, 2019, 4, 792-804.	48.7	338
25	Recent advances in capture of carbon dioxide using alkali-metal-based oxides. Energy and Environmental Science, 2011, 4, 3805.	30.8	318
26	Ceria-promoted Ni/SBA-15 catalysts for ethanol steam reforming with enhanced activity and resistance to deactivation. Applied Catalysis B: Environmental, 2015, 176-177, 532-541.	20.2	270
27	Grain-Boundary-Rich Copper for Efficient Solar-Driven Electrochemical CO₂ Reduction to Ethylene and Ethanol. Journal of the American Chemical Society, 2020, 142, 6878-6883.	13.7	270
28	Threeâ€Phase Photocatalysis for the Enhanced Selectivity and Activity of CO₂ Reduction on a Hydrophobic Surface. Angewandte Chemie - International Edition, 2019, 58, 14549-14555.	13.8	269
29	Effective Charge Carrier Utilization in Photocatalytic Conversions. Accounts of Chemical Research, 2016, 49, 911-921.	15.6	266
30	Controllable synthesis of nanotube-type graphitic C3N4 and their visible-light photocatalytic and fluorescent properties. Journal of Materials Chemistry A, 2014, 2, 2885.	10.3	265
31	Catalytic Reforming of Oxygenates: State of the Art and Future Prospects. Chemical Reviews, 2016, 116, 11529-11653.	47.7	258
32	A copper-phyllosilicate core-sheath nanoreactor for carbonâ€“oxygen hydrogenolysis reactions. Nature Communications, 2013, 4, 2339.	12.8	254
33	Rational design of yolkâ€“shell nanostructures for photocatalysis. Chemical Society Reviews, 2019, 48, 1874-1907.	38.1	254
34	Surface, Bulk, and Interface: Rational Design of Hematite Architecture toward Efficient Photoâ€Electrochemical Water Splitting. Advanced Materials, 2018, 30, e1707502.	21.0	248
35	Dendritic Au/TiO2 nanorod arrays for visible-light driven photoelectrochemical water splitting. Nanoscale, 2013, 5, 9001.	5.6	243
36	Propane Dehydrogenation over Pt/TiO₂â€“Al₂O₃ Catalysts. ACS Catalysis, 2015, 5, 438-447.	11.2	243

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37	Morphology control of ceria nanocrystals for catalytic conversion of CO2 with methanol. Nanoscale, 2013, 5, 5582.	5.6	237
38	Synergism of Geometric Construction and Electronic Regulation: 3D Seâ€(NiCo)S_x/(OH)_x Nanosheets for Highly Efficient Overall Water Splitting. Advanced Materials, 2018, 30, e1705538.	21.0	236
39	Gradient doping of phosphorus in Fe₂O₃ nanoarray photoanodes for enhanced charge separation. Chemical Science, 2017, 8, 91-100.	7.4	231
40	Theoretical insights into single-atom catalysts. Chemical Society Reviews, 2020, 49, 8156-8178.	38.1	231
41	Structure and Surface Chemistry of Gold-Based Model Catalysts. Chemical Reviews, 2012, 112, 2987-3054.	47.7	229
42	Shape-controlled synthesis of Auâ€“Pd bimetallic nanocrystals for catalytic applications. Chemical Society Reviews, 2016, 45, 3916-3934.	38.1	228
43	Crucial Role of Surface Hydroxyls on the Activity and Stability in Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2019, 141, 2911-2915.	13.7	217
44	Selective Deposition of Ag₃PO₄ on Monoclinic BiVO₄(040) for Highly Efficient Photocatalysis. Small, 2013, 9, 3951-3956.	10.0	215
45	Efficient hydrogen production from ethanol steam reforming over La-modified ordered mesoporous Ni-based catalysts. Applied Catalysis B: Environmental, 2016, 181, 321-331.	20.2	213
46	Monoclinic Porous BiVO₄ Networks Decorated by Discrete gâ€C₃N₄ Nanoâ€Islands with Tunable Coverage for Highly Efficient Photocatalysis. Small, 2014, 10, 2783-2790.	10.0	209
47	Surface Science Investigations of Oxidative Chemistry on Gold. Accounts of Chemical Research, 2009, 42, 1063-1073.	15.6	206
48	Controllable fabrication of nanostructured materials for photoelectrochemical water splitting via atomic layer deposition. Chemical Society Reviews, 2014, 43, 7469-7484.	38.1	206
49	Single-Atom Mnâ€“N₄ Site-Catalyzed Peroxone Reaction for the Efficient Production of Hydroxyl Radicals in an Acidic Solution. Journal of the American Chemical Society, 2019, 141, 12005-12010.	13.7	203
50	The Development of Cocatalysts for Photoelectrochemical CO₂ Reduction. Advanced Materials, 2019, 31, e1804710.	21.0	202
51	Chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate on Cu/SiO 2 : Enhanced stability with boron dopant. Journal of Catalysis, 2013, 297, 142-150.	6.2	200
52	Propane dehydrogenation over Ptâ€“Cu bimetallic catalysts: the nature of coke deposition and the role of copper. Nanoscale, 2014, 6, 10000-10008.	5.6	191
53	Synergistic Cocatalytic Effect of Carbon Nanodots and Co₃O₄ Nanoclusters for the Photoelectrochemical Water Oxidation on Hematite. Angewandte Chemie - International Edition, 2016, 55, 5851-5855.	13.8	187
54	Nano-designed semiconductors for electro- and photoelectro-catalytic conversion of carbon dioxide. Chemical Society Reviews, 2018, 47, 5423-5443.	38.1	181

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55	Nature of the Active Sites of VO_x/Al₂O₃ Catalysts for Propane Dehydrogenation. ACS Catalysis, 2016, 6, 5207-5214.	11.2	179
56	FeO₆ Octahedral Distortion Activates Lattice Oxygen in Perovskite Ferrite for Methane Partial Oxidation Coupled with CO₂ Splitting. Journal of the American Chemical Society, 2020, 142, 11540-11549.	13.7	177
57	Insights into the effects of surface/bulk defects on photocatalytic hydrogen evolution over TiO2 with exposed {001} facets. Applied Catalysis B: Environmental, 2018, 220, 126-136.	20.2	176
58	Tuning Cu/Cu₂O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. Angewandte Chemie - International Edition, 2018, 57, 15415-15419.	13.8	175
59	Water-Enhanced Low-Temperature CO Oxidation and Isotope Effects on Atomic Oxygen-Covered Au(111). Journal of the American Chemical Society, 2008, 130, 6801-6812.	13.7	171
60	Coupling of Cu(100) and (110) Facets Promotes Carbon Dioxide Conversion to Hydrocarbons and Alcohols. Angewandte Chemie - International Edition, 2021, 60, 4879-4885.	13.8	171
61	Structural motifs of water on metal oxide surfaces. Chemical Society Reviews, 2017, 46, 1785-1806.	38.1	170
62	The nature of active sites for carbon dioxide electroreduction over oxide-derived copper catalysts. Nature Communications, 2021, 12, 395.	12.8	170
63	Enriched Surface Oxygen Vacancies of Photoanodes by Photoetching with Enhanced Charge Separation. Angewandte Chemie - International Edition, 2020, 59, 2044-2048.	13.8	169
64	Sorption enhanced steam reforming of ethanol on Niâ€“CaOâ€“Al2O3 multifunctional catalysts derived from hydrotalcite-like compounds. Energy and Environmental Science, 2012, 5, 8942.	30.8	168
65	Synergetic Enhancement of Light Harvesting and Charge Separation over Surface-Disorder-Engineered TiO2 Photonic Crystals. CheM, 2017, 2, 877-892.	11.7	168
66	Hydrogen Production via Steam Reforming of Ethanol on Phyllosilicate-Derived Ni/SiO₂: Enhanced Metalâ€“Support Interaction and Catalytic Stability. ACS Sustainable Chemistry and Engineering, 2013, 1, 161-173.	6.7	167
67	Controllable Cu⁰â€Cu⁺ Sites for Electrocatalytic Reduction of Carbon Dioxide. Angewandte Chemie - International Edition, 2021, 60, 15344-15347.	13.8	167
68	Molecular understandings on the activation of light hydrocarbons over heterogeneous catalysts. Chemical Science, 2015, 6, 4403-4425.	7.4	166
69	Hydrogen Production via Glycerol Steam Reforming over Ni/Al₂O₃: Influence of Nickel Precursors. ACS Sustainable Chemistry and Engineering, 2013, 1, 1052-1062.	6.7	164
70	Enhanced CO₂ Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. Angewandte Chemie - International Edition, 2020, 59, 12664-12668.	13.8	164
71	Monoclinic WO3 nanomultilayers with preferentially exposed (002) facets for photoelectrochemical water splitting. Nano Energy, 2015, 11, 189-195.	16.0	162
72	Stable Aqueous Photoelectrochemical CO₂ Reduction by a Cu₂O Dark Cathode with Improved Selectivity for Carbonaceous Products. Angewandte Chemie - International Edition, 2016, 55, 8840-8845.	13.8	161

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73	Single-crystal silicon-based electrodes for unbiased solar water splitting: current status and prospects. Chemical Society Reviews, 2019, 48, 2158-2181.	38.1	161
74	Reduced Graphene Oxide (rGO)/BiVO₄ Composites with Maximized Interfacial Coupling for Visible Lght Photocatalysis. ACS Sustainable Chemistry and Engineering, 2014, 2, 2253-2258.	6.7	159
75	An Alternative Synthetic Approach for Efficient Catalytic Conversion of Syngas to Ethanol. Accounts of Chemical Research, 2014, 47, 1483-1492.	15.6	159
76	Platinum-Modified ZnO/Al₂O₃ for Propane Dehydrogenation: Minimized Platinum Usage and Improved Catalytic Stability. ACS Catalysis, 2016, 6, 2158-2162.	11.2	159
77	Operando characterization techniques for electrocatalysis. Energy and Environmental Science, 2020, 13, 3748-3779.	30.8	159
78	Strong Electronic Oxideâ€“Support Interaction over In₂O₃/ZrO₂ for Highly Selective CO₂ Hydrogenation to Methanol. Journal of the American Chemical Society, 2020, 142, 19523-19531.	13.7	156
79	Recent Advances on the Design of Group VIII Base-Metal Catalysts with Encapsulated Structures. ACS Catalysis, 2015, 5, 4959-4977.	11.2	150
80	Thin Heterojunctions and Spatially Separated Cocatalysts To Simultaneously Reduce Bulk and Surface Recombination in Photocatalysts. Angewandte Chemie - International Edition, 2016, 55, 13734-13738.	13.8	149
81	Hydroxylâ€Mediated Nonâ€oxidative Propane Dehydrogenation over VO_xÎ³â€Al₂O₃ Catalysts with Improved Stability. Angewandte Chemie - International Edition, 2018, 57, 6791-6795.	13.8	149
82	Dendritic Hematite Nanoarray Photoanode Modified with a Conformal Titanium Dioxide Interlayer for Effective Charge Collection. Angewandte Chemie - International Edition, 2017, 56, 12878-12882.	13.8	143
83	Ultrathin Pdâ€“Au Shells with Controllable Alloying Degree on Pd Nanocubes toward Carbon Dioxide Reduction. Journal of the American Chemical Society, 2019, 141, 4791-4794.	13.7	142
84	Selective Oxidation of Ethanol to Acetaldehyde on Gold. Journal of the American Chemical Society, 2008, 130, 16458-16459.	13.7	141
85	Glycerol steam reforming over perovskite-derived nickel-based catalysts. Applied Catalysis B: Environmental, 2014, 144, 277-285.	20.2	141
86	Hydroxyl-mediated ethanol selectivity of CO₂ hydrogenation. Chemical Science, 2019, 10, 3161-3167.	7.4	138
87	Enhanced Lattice Oxygen Reactivity over Ni-Modified WO₃-Based Redox Catalysts for Chemical Looping Partial Oxidation of Methane. ACS Catalysis, 2017, 7, 3548-3559.	11.2	136
88	Modulating Lattice Oxygen in Dual-Functional Moâ€“Vâ€“O Mixed Oxides for Chemical Looping Oxidative Dehydrogenation. Journal of the American Chemical Society, 2019, 141, 18653-18657.	13.7	133
89	Surviving Highâ€Temperature Calcination: ZrO₂â€Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. Angewandte Chemie - International Edition, 2017, 56, 4150-4155.	13.8	132
90	Au nanoparticle sensitized ZnO nanopencil arrays for photoelectrochemical water splitting. Nanoscale, 2015, 7, 77-81.	5.6	131

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91	Spatial separation of oxidation and reduction co-catalysts for efficient charge separation: Pt@TiO₂@MnO_x hollow spheres for photocatalytic reactions. Chemical Science, 2016, 7, 890-895.	7.4	130
92	Lowâ€Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance. Angewandte Chemie - International Edition, 2018, 57, 11544-11548.	13.8	127
93	Adjusting the Reduction Potential of Electrons by Quantum Confinement for Selective Photoreduction of CO₂ to Methanol. Angewandte Chemie - International Edition, 2019, 58, 3804-3808.	13.8	126
94	Hydrogenation of dimethyl oxalate to ethylene glycol on a Cu/SiO₂/cordierite monolithic catalyst: Enhanced internal mass transfer and stability. AIChE Journal, 2012, 58, 2798-2809.	3.6	125
95	Enhanced Charge Separation through ALDâ€Modified Fe₂O₃/Fe₂TiO₅ Nanorod Heterojunction for Photoelectrochemical Water Oxidation. Small, 2016, 12, 3415-3422.	10.0	124
96	Phosgene-free approaches to catalytic synthesis of diphenyl carbonate and its intermediates. Applied Catalysis A: General, 2007, 316, 1-21.	4.3	123
97	Singleâ€Crystal Semiconductors with Narrow Band Gaps for Solar Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 10718-10732.	13.8	123
98	Activation and Spillover of Hydrogen on Subâ€1â€…nm Palladium Nanoclusters Confined within Sodalite Zeolite for the Semiâ€Hydrogenation of Alkynes. Angewandte Chemie - International Edition, 2019, 58, 7668-7672.	13.8	123
99	Homogeneous Cu2O p-n junction photocathodes for solar water splitting. Applied Catalysis B: Environmental, 2018, 226, 31-37.	20.2	121
100	Propane Dehydrogenation on Single-Site [PtZn4] Intermetallic Catalysts. CheM, 2021, 7, 387-405.	11.7	116
101	Edge Sites with Unsaturated Coordination on Coreâ€“Shell Mn₃O₄@Mn_xCo_{3â€“}_xO₄ Nanostructures for Electrocatalytic Water Oxidation. Advanced Materials, 2017, 29, 1701820.	21.0	115
102	Surface Chemistry of Methanol on Clean and Atomic Oxygen Pre-Covered Au(111). Journal of Physical Chemistry C, 2008, 112, 5501-5509.	3.1	114
103	Spatial control of cocatalysts and elimination of interfacial defects towards efficient and robust CIGS photocathodes for solar water splitting. Energy and Environmental Science, 2018, 11, 2025-2034.	30.8	114
104	Dimensional construction and morphological tuning of heterogeneous MoS₂/NiS electrocatalysts for efficient overall water splitting. Journal of Materials Chemistry A, 2018, 6, 9833-9838.	10.3	114
105	Selectivity Modulation of Encapsulated Palladium Nanoparticles by Zeolite Microenvironment for Biomass Catalytic Upgrading. ACS Catalysis, 2018, 8, 8578-8589.	11.2	114
106	Photoelectrochemical CO₂ reduction to adjustable syngas on grain-boundary-mediated a-Si/TiO₂/Au photocathodes with low onset potentials. Energy and Environmental Science, 2019, 12, 923-928.	30.8	114
107	A Ni@ZrO₂nanocomposite for ethanol steam reforming: enhanced stability via strong metalâ€“oxide interaction. Chemical Communications, 2013, 49, 4226-4228.	4.1	112
108	Branched TiO2 nanoarrays sensitized with CdS quantum dots for highly efficient photoelectrochemical water splitting. Physical Chemistry Chemical Physics, 2013, 15, 12026.	2.8	109

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109	Gold Nanorod@TiO₂ Yolkâ€Shell Nanostructures for Visibleâ€Lightâ€Driven Photocatalytic Oxidation of Benzyl Alcohol. Small, 2015, 11, 1892-1899.	10.0	109
110	Insights into interface engineering in steam reforming reactions for hydrogen production. Energy and Environmental Science, 2019, 12, 3473-3495.	30.8	109
111	Efficient CO2 electroreduction on facet-selective copper films with high conversion rate. Nature Communications, 2021, 12, 5745.	12.8	108
112	Water Activated by Atomic Oxygen on Au(111) to Oxidize CO at Low Temperatures. Journal of the American Chemical Society, 2006, 128, 6282-6283.	13.7	106
113	Identification of Pt-based catalysts for propane dehydrogenation via a probability analysis. Chemical Science, 2018, 9, 3925-3931.	7.4	106
114	Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications. Nano Today, 2019, 27, 48-72.	11.9	104
115	Tunable Magnetism in Carbonâ€Ionâ€Implanted Highly Oriented Pyrolytic Graphite. Advanced Materials, 2008, 20, 4679-4683.	21.0	103
116	Bubble-supported engineering of hierarchical CuCo₂S₄ hollow spheres for enhanced electrochemical performance. Journal of Materials Chemistry A, 2018, 6, 5265-5270.	10.3	103
117	Nanostrukturierte Materialien fÃ¼r die elektrokatalytische CO₂â€Reduktion und ihre Reaktionsmechanismen. Angewandte Chemie, 2017, 129, 11482-11511.	2.0	102
118	Sintering-resistant Ni-based reforming catalysts obtained via the nanoconfinement effect. Chemical Communications, 2013, 49, 9383.	4.1	101
119	WO₃ photoanodes with controllable bulk and surface oxygen vacancies for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2018, 6, 3350-3354.	10.3	100
120	Mesoporous anatase TiO2 nanocups with plasmonic metal decoration for highly active visible-light photocatalysis. Chemical Communications, 2013, 49, 5817.	4.1	99
121	Coupling of Cu(100) and (110) Facets Promotes Carbon Dioxide Conversion to Hydrocarbons and Alcohols. Angewandte Chemie, 2021, 133, 4929-4935.	2.0	98
122	Dry reforming of methane over La2O2CO3-modified Ni/Al2O3 catalysts with moderate metal support interaction. Applied Catalysis B: Environmental, 2020, 264, 118448.	20.2	95
123	Understanding electronic and optical properties of anatase TiO2 photocatalysts co-doped with nitrogen and transition metals. Physical Chemistry Chemical Physics, 2013, 15, 9549.	2.8	93
124	Tunable syngas production from photocatalytic CO₂ reduction with mitigated charge recombination driven by spatially separated cocatalysts. Chemical Science, 2018, 9, 5334-5340.	7.4	89
125	Subsurface catalysis-mediated selectivity of dehydrogenation reaction. Science Advances, 2018, 4, eaar5418.	10.3	89
126	Ordered mesoporous Ni/La2O3 catalysts with interfacial synergism towards CO2 activation in dry reforming of methane. Applied Catalysis B: Environmental, 2019, 259, 118092.	20.2	89

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127	PEGylated liposome coated QDs/mesoporous silica core-shell nanoparticles for molecular imaging. Chemical Communications, 2011, 47, 3442.	4.1	88
128	Formation of Enriched Vacancies for Enhanced CO₂ Electrocatalytic Reduction over AuCu Alloys. ACS Energy Letters, 2018, 3, 2144-2149.	17.4	88
129	Catalytic hydrothermal liquefaction for bio-oil production over CNTs supported metal catalysts. Chemical Engineering Science, 2017, 161, 299-307.	3.8	87
130	Current Mechanistic Understanding of Surface Reactions over Water-Splitting Photocatalysts. CheM, 2018, 4, 223-245.	11.7	87
131	Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. Angewandte Chemie - International Edition, 2019, 58, 10003-10007.	13.8	86
132	Hydrogenation of dimethyl oxalate to ethylene glycol over mesoporous <scp><scp>Cu</scp></scp>â€<scp>MCM</scp>â€41 catalysts. AICHE Journal, 2013, 59, 2530-2539.	3.6	85
133	Morphological and Compositional Design of Pdâ€“Cu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO₂ Electroreduction. Small, 2018, 14, 1703314.	10.0	84
134	The Interplay between Structure and Product Selectivity of CO₂ Hydrogenation. Angewandte Chemie - International Edition, 2019, 58, 11242-11247.	13.8	84
135	Two-dimensional gersiloxenes with tunable bandgap for photocatalytic H2 evolution and CO2 photoreduction to CO. Nature Communications, 2020, 11, 1443.	12.8	84
136	Selective Catalytic Oxidation of Ammonia to Nitrogen on Atomic Oxygen Precovered Au(111). Journal of the American Chemical Society, 2006, 128, 9012-9013.	13.7	83
137	The Functionality of Surface Hydroxy Groups on the Selectivity and Activity of Carbon Dioxide Reduction over Cuprous Oxide in Aqueous Solutions. Angewandte Chemie - International Edition, 2018, 57, 7724-7728.	13.8	82
138	Steam reforming of ethanol over Ni/ZrO2 catalysts: Effect of support on product distribution. International Journal of Hydrogen Energy, 2012, 37, 2940-2949.	7.1	81
139	Facile synthesis of ZnO nanopencil arrays for photoelectrochemical water splitting. Nano Energy, 2014, 7, 143-150.	16.0	79
140	Effects of Ga doping on Pt/CeO₂â€Al₂O₃ catalysts for propane dehydrogenation. AICHE Journal, 2016, 62, 4365-4376.	3.6	79
141	Structureâ€“Performance Relationships for Propane Dehydrogenation over Aluminum Supported Vanadium Oxide. ACS Catalysis, 2019, 9, 5816-5827.	11.2	76
142	Micro- and Nanopatterning of Inorganic and Polymeric Substrates by Indentation Lithography. Nano Letters, 2010, 10, 2702-2708.	9.1	72
143	A General Approach to Synthesize Asymmetric Hybrid Nanoparticles by Interfacial Reactions. Journal of the American Chemical Society, 2012, 134, 3639-3642.	13.7	72
144	Enhanced oxygen mobility and reactivity for ethanol steam reforming. AICHE Journal, 2012, 58, 516-525.	3.6	70

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145	Bifacial passivation of n-silicon metalâ€“insulatorâ€“semiconductor photoelectrodes for efficient oxygen and hydrogen evolution reactions. Energy and Environmental Science, 2020, 13, 221-228.	30.8	70
146	Selective Oxidation of Propanol on Au(111): Mechanistic Insights into Aerobic Oxidation of Alcohols. ChemPhysChem, 2008, 9, 2461-2466.	2.1	67
147	CeO₂-modified Au@SBA-15 nanocatalysts for liquid-phase selective oxidation of benzyl alcohol. Nanoscale, 2015, 7, 7593-7602.	5.6	67
148	Hydrogenated Cagelike Titania Hollow Spherical Photocatalysts for Hydrogen Evolution under Simulated Solar Light Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 23006-23014.	8.0	67
149	Unraveling the rate-limiting step of two-electron transfer electrochemical reduction of carbon dioxide. Nature Communications, 2022, 13, 803.	12.8	67
150	Fabrication of porous nanoflake BiMO_x (M = W, V, and Mo) photoanodes via hydrothermal anion exchange. Chemical Science, 2016, 7, 6381-6386.	7.4	65
151	Investigation of carbon fiber reinforced polymer (CFRP) sheet with subsurface defects inspection using thermal-wave radar imaging (TWRI) based on the multi-transform technique. NDT and E International, 2014, 62, 130-136.	3.7	64
152	Facilitating the reduction of Vâ€“O bonds on VO_x/ZrO₂ catalysts for non-oxidative propane dehydrogenation. Chemical Science, 2020, 11, 3845-3851.	7.4	63
153	Etching effects of ethanol on multi-walled carbon nanotubes. Carbon, 2006, 44, 1218-1224.	10.3	61
154	Highly-oriented Fe₂O₃/ZnFe₂O₄ nanocolumnar heterojunction with improved charge separation for photoelectrochemical water oxidation. Chemical Communications, 2016, 52, 9013-9015.	4.1	61
155	Nanostructured NiFe (oxy)hydroxide with easily oxidized Ni towards efficient oxygen evolution reactions. Journal of Materials Chemistry A, 2018, 6, 16810-16817.	10.3	61
156	Sorption enhanced steam reforming of methanol for high-purity hydrogen production over Cu-MgO/Al2O3 bifunctional catalysts. Applied Catalysis B: Environmental, 2020, 276, 119052.	20.2	61
157	Multifunctional TiO2 overlayer for p-Si/n-CdS heterojunction photocathode with improved efficiency and stability. Nano Energy, 2018, 53, 125-129.	16.0	60
158	Selective oxidation of methanol to dimethoxymethane over bifunctional VOx/TS-1 catalysts. Chemical Communications, 2011, 47, 9345.	4.1	59
159	Synthesis of stable Ni-CeO2 catalysts via ball-milling for ethanol steam reforming. Catalysis Today, 2014, 233, 53-60.	4.4	59
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