

# Jinlong Gong

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

384 papers	29,270 citations	91 h-index	159 g-index
445 ext. papers	35,098 ext. citations	12.9 avg, IF	7.94 L-index

#	Paper	IF	Citations
384	Recent advances in catalytic hydrogenation of carbon dioxide. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 3703-3758	38.5	2216
383	CO <sub>2</sub> photo-reduction: insights into CO <sub>2</sub> activation and reaction on surfaces of photocatalysts. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2177-2196	35.4	1038
382	Electrochemical sensing in paper-based microfluidic devices. <i>Lab on A Chip</i> , <b>2010</b> , 10, 477-83	7.2	752
381	Enhanced Surface Reaction Kinetics and Charge Separation of p-n Heterojunction Co <sub>3</sub> O <sub>4</sub> /BiVO <sub>4</sub> Photoanodes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8356-9	16.4	611
380	Ethylene glycol: properties, synthesis, and applications. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4218-44	58.5	602
379	Nanostructured Materials for Heterogeneous Electrocatalytic CO Reduction and their Related Reaction Mechanisms. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 11326-11353	16.4	588
378	Paper-based ELISA. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4771-4	16.4	551
377	Sub-10 nm rutile titanium dioxide nanoparticles for efficient visible-light-driven photocatalytic hydrogen production. <i>Nature Communications</i> , <b>2015</b> , 6, 5881	17.4	535
376	Recent progress made in the mechanism comprehension and design of electrocatalysts for alkaline water splitting. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2620-2645	35.4	532
375	Synthesis of ethanol via syngas on Cu/SiO <sub>2</sub> catalysts with balanced Cu <sup>0</sup> -Cu <sup>+</sup> sites. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13922-5	16.4	474
374	Methanation of carbon dioxide: an overview. <i>Frontiers of Chemical Science and Engineering</i> , <b>2011</b> , 5, 2-10	4.5	368
373	Tantalum-based semiconductors for solar water splitting. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 4395-422	58.5	360
372	Tungsten oxide single crystal nanosheets for enhanced multichannel solar light harvesting. <i>Advanced Materials</i> , <b>2015</b> , 27, 1580-6	24	341
371	Strategies for improving the performance and stability of Ni-based catalysts for reforming reactions. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7245-56	58.5	328
370	Mechanistic Understanding of the Plasmonic Enhancement for Solar Water Splitting. <i>Advanced Materials</i> , <b>2015</b> , 27, 5328-42	24	301
369	Dry reforming of methane over Ni/La <sub>2</sub> O <sub>3</sub> nanorod catalysts with stabilized Ni nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 202, 683-694	21.8	280
368	Recent advances in capture of carbon dioxide using alkali-metal-based oxides. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3805	35.4	276

367	Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO Photoelectrodes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5278-5282	16.4	271
366	Heterogeneous Molecular Systems for Photocatalytic CO Reduction with Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14924-14950	16.4	263
365	Breaking the scaling relationship via thermally stable Pt/Cu single atom alloys for catalytic dehydrogenation. <i>Nature Communications</i> , <b>2018</b> , 9, 4454	17.4	250
364	Ceria-promoted Ni/SBA-15 catalysts for ethanol steam reforming with enhanced activity and resistance to deactivation. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 176-177, 532-541	21.8	235
363	Controllable synthesis of nanotube-type graphitic C <sub>3</sub> N <sub>4</sub> and their visible-light photocatalytic and fluorescent properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2885	13	223
362	Structure and surface chemistry of gold-based model catalysts. <i>Chemical Reviews</i> , <b>2012</b> , 112, 2987-3054	68.1	213
361	Dendritic Au/TiO <sub>2</sub> nanorod arrays for visible-light driven photoelectrochemical water splitting. <i>Nanoscale</i> , <b>2013</b> , 5, 9001-9	7.7	211
360	Core-shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 2937-3004	58.5	201
359	Catalytic Reforming of Oxygenates: State of the Art and Future Prospects. <i>Chemical Reviews</i> , <b>2016</b> , 116, 11529-11653	68.1	201
358	Selective deposition of Ag <sub>2</sub> O on monoclinic BiVO <sub>4</sub> (040) for highly efficient photocatalysis. <i>Small</i> , <b>2013</b> , 9, 3951-6, 3950	11	200
357	Effective Charge Carrier Utilization in Photocatalytic Conversions. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 911-21	24.3	200
356	A copper-phyllsilicate core-sheath nanoreactor for carbon-oxygen hydrogenolysis reactions. <i>Nature Communications</i> , <b>2013</b> , 4, 2339	17.4	196
355	Synergism of Geometric Construction and Electronic Regulation: 3D Se-(NiCo)S <sub>2</sub> /(OH) Nanosheets for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705538	24	193
354	Shape-controlled synthesis of Au-Pd bimetallic nanocrystals for catalytic applications. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3916-34	58.5	193
353	Surface science investigations of oxidative chemistry on gold. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 1063-73	24.3	191
352	Efficient hydrogen production from ethanol steam reforming over La-modified ordered mesoporous Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 181, 321-331	21.8	190
351	Metal oxide redox chemistry for chemical looping processes. <i>Nature Reviews Chemistry</i> , <b>2018</b> , 2, 349-364	34.6	188
350	Monoclinic porous BiVO <sub>4</sub> networks decorated by discrete g-C <sub>3</sub> N <sub>4</sub> nano-islands with tunable coverage for highly efficient photocatalysis. <i>Small</i> , <b>2014</b> , 10, 2783-90, 2741	11	187

- 349 Controllable fabrication of nanostructured materials for photoelectrochemical water splitting via atomic layer deposition. *Chemical Society Reviews*, **2014**, 43, 7469-84 58.5 187
- 348 Morphology control of ceria nanocrystals for catalytic conversion of CO<sub>2</sub> with methanol. *Nanoscale*, **2013**, 5, 5582-8 7.7 180
- 347 Propane Dehydrogenation over Pt/TiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> Catalysts. *ACS Catalysis*, **2015**, 5, 438-447 13.1 177
- 346 Chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate on Cu/SiO<sub>2</sub>: Enhanced stability with boron dopant. *Journal of Catalysis*, **2013**, 297, 142-150 7.3 175
- 345 Rational design of yolk-shell nanostructures for photocatalysis. *Chemical Society Reviews*, **2019**, 48, 1874-1897 58.9 171
- 344 Gradient doping of phosphorus in FeO nanoarray photoanodes for enhanced charge separation. *Chemical Science*, **2017**, 8, 91-100 9.4 168
- 343 Theory-guided design of catalytic materials using scaling relationships and reactivity descriptors. *Nature Reviews Materials*, **2019**, 4, 792-804 73.3 164
- 342 Surface, Bulk, and Interface: Rational Design of Hematite Architecture toward Efficient Photo-Electrochemical Water Splitting. *Advanced Materials*, **2018**, 30, e1707502 24 157
- 341 Synergistic Cocatalytic Effect of Carbon Nanodots and Co<sub>3</sub>O<sub>4</sub> Nanoclusters for the Photoelectrochemical Water Oxidation on Hematite. *Angewandte Chemie - International Edition*, **2016**, 55, 5851-5 16.4 153
- 340 Water-enhanced low-temperature CO oxidation and isotope effects on atomic oxygen-covered Au(111). *Journal of the American Chemical Society*, **2008**, 130, 6801-12 16.4 149
- 339 Propane dehydrogenation over Pt-Cu bimetallic catalysts: the nature of coke deposition and the role of copper. *Nanoscale*, **2014**, 6, 10000-8 7.7 146
- 338 Sorption enhanced steam reforming of ethanol on Ni<sub>2</sub>O<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> multifunctional catalysts derived from hydrotalcite-like compounds. *Energy and Environmental Science*, **2012**, 5, 8942 35.4 142
- 337 Molecular understandings on the activation of light hydrocarbons over heterogeneous catalysts. *Chemical Science*, **2015**, 6, 4403-4425 9.4 141
- 336 Reduced Graphene Oxide (rGO)/BiVO<sub>4</sub> Composites with Maximized Interfacial Coupling for Visible Light Photocatalysis. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2253-2258 8.3 140
- 335 Insights into the effects of surface/bulk defects on photocatalytic hydrogen evolution over TiO<sub>2</sub> with exposed {001} facets. *Applied Catalysis B: Environmental*, **2018**, 220, 126-136 21.8 138
- 334 Hydrogen Production via Steam Reforming of Ethanol on Phyllosilicate-Derived Ni/SiO<sub>2</sub>: Enhanced Metal-Support Interaction and Catalytic Stability. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 161-173 8.3 138
- 333 Synergetic Enhancement of Light Harvesting and Charge Separation over Surface-Disorder-Engineered TiO<sub>2</sub> Photonic Crystals. *Chem*, **2017**, 2, 877-892 16.2 137
- 332 Three-Phase Photocatalysis for the Enhanced Selectivity and Activity of CO Reduction on a Hydrophobic Surface. *Angewandte Chemie - International Edition*, **2019**, 58, 14549-14555 16.4 136

331	Stable Aqueous Photoelectrochemical CO <sub>2</sub> Reduction by a Cu <sub>2</sub> O Dark Cathode with Improved Selectivity for Carbonaceous Products. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8840-5	16.4	135
330	Hydrogen Production via Glycerol Steam Reforming over Ni/Al <sub>2</sub> O <sub>3</sub> : Influence of Nickel Precursors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 1052-1062	8.3	135
329	Selective oxidation of ethanol to acetaldehyde on gold. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 16458-9	16.4	132
328	Nature of the Active Sites of VO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts for Propane Dehydrogenation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 5207-5214	13.1	129
327	Monoclinic WO <sub>3</sub> nanomultilayers with preferentially exposed (002) facets for photoelectrochemical water splitting. <i>Nano Energy</i> , <b>2015</b> , 11, 189-195	17.1	128
326	Structural motifs of water on metal oxide surfaces. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 1785-1806	58.5	127
325	An alternative synthetic approach for efficient catalytic conversion of syngas to ethanol. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 1483-92	24.3	126
324	Thin Heterojunctions and Spatially Separated Cocatalysts To Simultaneously Reduce Bulk and Surface Recombination in Photocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13734-13738	16.4	124
323	Glycerol steam reforming over perovskite-derived nickel-based catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 144, 277-285	21.8	124
322	Recent Advances on the Design of Group VIII Base-Metal Catalysts with Encapsulated Structures. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4959-4977	13.1	123
321	Grain-Boundary-Rich Copper for Efficient Solar-Driven Electrochemical CO Reduction to Ethylene and Ethanol. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6878-6883	16.4	121
320	Nano-designed semiconductors for electro- and photoelectro-catalytic conversion of carbon dioxide. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 5423-5443	58.5	119
319	Tuning Cu/Cu <sub>2</sub> O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15415-15419	16.4	118
318	Dendritic Hematite Nanoarray Photoanode Modified with a Conformal Titanium Dioxide Interlayer for Effective Charge Collection. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12878-12882	16.4	117
317	Crucial Role of Surface Hydroxyls on the Activity and Stability in Electrochemical CO Reduction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2911-2915	16.4	115
316	Au nanoparticle sensitized ZnO nanopencil arrays for photoelectrochemical water splitting. <i>Nanoscale</i> , <b>2015</b> , 7, 77-81	7.7	115
315	Phosgene-free approaches to catalytic synthesis of diphenyl carbonate and its intermediates. <i>Applied Catalysis A: General</i> , <b>2007</b> , 316, 1-21	5.1	115
314	Platinum-Modified ZnO/Al <sub>2</sub> O <sub>3</sub> for Propane Dehydrogenation: Minimized Platinum Usage and Improved Catalytic Stability. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2158-2162	13.1	113

313	Spatial separation of oxidation and reduction co-catalysts for efficient charge separation: Pt@TiO@MnO hollow spheres for photocatalytic reactions. <i>Chemical Science</i> , <b>2016</b> , 7, 890-895	9.4	111
312	Single-Crystal Semiconductors with Narrow Band Gaps for Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10718-32	16.4	109
311	Surface Chemistry of Methanol on Clean and Atomic Oxygen Pre-Covered Au(111). <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 5501-5509	3.8	105
310	Surviving High-Temperature Calcination: ZrO <sub>2</sub> -Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4150-4155	16.4	104
309	A Ni@ZrO <sub>2</sub> nanocomposite for ethanol steam reforming: enhanced stability via strong metal-oxide interaction. <i>Chemical Communications</i> , <b>2013</b> , 49, 4226-8	5.8	104
308	The Development of Cocatalysts for Photoelectrochemical CO Reduction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804710	24	104
307	Single-crystal silicon-based electrodes for unbiased solar water splitting: current status and prospects. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 2158-2181	58.5	103
306	Branched TiO <sub>2</sub> nanoarrays sensitized with CdS quantum dots for highly efficient photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12026-32	3.6	103
305	Enhanced Charge Separation through ALD-Modified Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> TiO <sub>5</sub> Nanorod Heterojunction for Photoelectrochemical Water Oxidation. <i>Small</i> , <b>2016</b> , 12, 3415-22	11	101
304	Hydroxyl-Mediated Non-oxidative Propane Dehydrogenation over VO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts with Improved Stability. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6791-6795	16.4	97
303	Hydrogenation of dimethyl oxalate to ethylene glycol on a Cu/SiO <sub>2</sub> /cordierite monolithic catalyst: Enhanced internal mass transfer and stability. <i>AIChE Journal</i> , <b>2012</b> , 58, 2798-2809	3.6	97
302	Edge Sites with Unsaturated Coordination on Core-Shell MnO <sub>2</sub> @MnCoO <sub>2</sub> Nanostructures for Electrocatalytic Water Oxidation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701820	24	97
301	Mesoporous anatase TiO <sub>2</sub> nanocups with plasmonic metal decoration for highly active visible-light photocatalysis. <i>Chemical Communications</i> , <b>2013</b> , 49, 5817-9	5.8	96
300	Tunable Magnetism in Carbon-Ion-Implanted Highly Oriented Pyrolytic Graphite. <i>Advanced Materials</i> , <b>2008</b> , 20, 4679-4683	24	95
299	Propane dehydrogenation: catalyst development, new chemistry, and emerging technologies. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 3315-3354	58.5	95
298	Enhanced Lattice Oxygen Reactivity over Ni-Modified WO <sub>3</sub> -Based Redox Catalysts for Chemical Looping Partial Oxidation of Methane. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3548-3559	13.1	94
297	Single-Atom Mn-N Site-Catalyzed Peroxone Reaction for the Efficient Production of Hydroxyl Radicals in an Acidic Solution. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12005-12010	16.4	94
296	Gold Nanorod@TiO <sub>2</sub> Yolk-Shell Nanostructures for Visible-Light-Driven Photocatalytic Oxidation of Benzyl Alcohol. <i>Small</i> , <b>2015</b> , 11, 1892-9	11	92



295	Water activated by atomic oxygen on Au(111) to oxidize CO at low temperatures. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6282-3	16.4	92
294	Homogeneous Cu <sub>2</sub> O p-n junction photocathodes for solar water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 31-37	21.8	90
293	Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11544-11548	16.4	90
292	Theoretical insights into single-atom catalysts. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 8156-8178	58.5	89
291	Spatial control of cocatalysts and elimination of interfacial defects towards efficient and robust CIGS photocathodes for solar water splitting. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2025-2034	35.4	87
290	Sintering-resistant Ni-based reforming catalysts obtained via the nanoconfinement effect. <i>Chemical Communications</i> , <b>2013</b> , 49, 9383-5	5.8	87
289	Nanostrukturierte Materialien für die elektrokatalytische CO <sub>2</sub> -Reduktion und ihre Reaktionsmechanismen. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 11482-11511	3.6	86
288	Ultrathin Pd-Au Shells with Controllable Alloying Degree on Pd Nanocubes toward Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4791-4794	16.4	85
287	Enhanced CO Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12664-12668	16.4	83
286	PEGylated liposome coated QDs/mesoporous silica core-shell nanoparticles for molecular imaging. <i>Chemical Communications</i> , <b>2011</b> , 47, 3442-4	5.8	83
285	Enriched Surface Oxygen Vacancies of Photoanodes by Photoetching with Enhanced Charge Separation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2044-2048	16.4	83
284	Operando characterization techniques for electrocatalysis. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3748-3779	35.4	83
283	Paper-Based ELISA. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 4881-4884	3.6	80
282	Steam reforming of ethanol over Ni/ZrO <sub>2</sub> catalysts: Effect of support on product distribution. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2940-2949	6.7	77
281	Understanding electronic and optical properties of anatase TiO <sub>2</sub> photocatalysts co-doped with nitrogen and transition metals. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 9549-61	3.6	76
280	Dimensional construction and morphological tuning of heterogeneous MoS <sub>2</sub> /NiS electrocatalysts for efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9833-9838	13	75
279	Photoelectrochemical CO <sub>2</sub> reduction to adjustable syngas on grain-boundary-mediated a-Si/TiO <sub>2</sub> /Au photocathodes with low onset potentials. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 923-928	35.4	74
278	Selective catalytic oxidation of ammonia to nitrogen on atomic oxygen precovered Au(111). <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9012-3	16.4	74

277	Bubble-supported engineering of hierarchical CuCo <sub>2</sub> S <sub>4</sub> hollow spheres for enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5265-5270	13	72
276	WO <sub>3</sub> photoanodes with controllable bulk and surface oxygen vacancies for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3350-3354	13	69
275	Current Mechanistic Understanding of Surface Reactions over Water-Splitting Photocatalysts. <i>CheM</i> , <b>2018</b> , 4, 223-245	16.2	68
274	Hydrogenation of dimethyl oxalate to ethylene glycol over mesoporous Cu-MCM-41 catalysts. <i>AIChE Journal</i> , <b>2013</b> , 59, 2530-2539	3.6	68
273	Identification of Pt-based catalysts for propane dehydrogenation a probability analysis. <i>Chemical Science</i> , <b>2018</b> , 9, 3925-3931	9.4	67
272	Selectivity Modulation of Encapsulated Palladium Nanoparticles by Zeolite Microenvironment for Biomass Catalytic Upgrading. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8578-8589	13.1	67
271	Catalytic hydrothermal liquefaction for bio-oil production over CNTs supported metal catalysts. <i>Chemical Engineering Science</i> , <b>2017</b> , 161, 299-307	4.4	66
270	Facile synthesis of ZnO nanopencil arrays for photoelectrochemical water splitting. <i>Nano Energy</i> , <b>2014</b> , 7, 143-150	17.1	66
269	A general approach to synthesize asymmetric hybrid nanoparticles by interfacial reactions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3639-42	16.4	66
268	Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications. <i>Nano Today</i> , <b>2019</b> , 27, 48-72	17.9	65
267	Hydroxyl-mediated ethanol selectivity of CO hydrogenation. <i>Chemical Science</i> , <b>2019</b> , 10, 3161-3167	9.4	65
266	FeO Octahedral Distortion Activates Lattice Oxygen in Perovskite Ferrite for Methane Partial Oxidation Coupled with CO Splitting. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11540-11549	16.4	65
265	Morphological and Compositional Design of Pd-Cu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO Electroreduction. <i>Small</i> , <b>2018</b> , 14, 1703314	11	65
264	Modulating Lattice Oxygen in Dual-Functional Mo-V-O Mixed Oxides for Chemical Looping Oxidative Dehydrogenation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18653-18657	16.4	65
263	Tunable syngas production from photocatalytic CO reduction with mitigated charge recombination driven by spatially separated cocatalysts. <i>Chemical Science</i> , <b>2018</b> , 9, 5334-5340	9.4	65
262	Formation of Enriched Vacancies for Enhanced CO <sub>2</sub> Electrocatalytic Reduction over AuCu Alloys. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2144-2149	20.1	64
261	Adjusting the Reduction Potential of Electrons by Quantum Confinement for Selective Photoreduction of CO to Methanol. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 3804-3808	16.4	63
260	Hydrogenated Cagelike Titania Hollow Spherical Photocatalysts for Hydrogen Evolution under Simulated Solar Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23006-14	9.5	63



259	Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10003-10007	16.4	61
258	Effects of Ga doping on Pt/CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts for propane dehydrogenation. <i>AIChE Journal</i> , <b>2016</b> , 62, 4365-4376	3.6	61
257	Enhanced oxygen mobility and reactivity for ethanol steam reforming. <i>AIChE Journal</i> , <b>2012</b> , 58, 516-525	3.6	61
256	CeO <sub>2</sub> -modified Au@SBA-15 nanocatalysts for liquid-phase selective oxidation of benzyl alcohol. <i>Nanoscale</i> , <b>2015</b> , 7, 7593-602	7.7	61
255	Selective oxidation of propanol on Au(111): mechanistic insights into aerobic oxidation of alcohols. <i>ChemPhysChem</i> , <b>2008</b> , 9, 2461-6	3.2	61
254	Micro- and nanopatterning of inorganic and polymeric substrates by indentation lithography. <i>Nano Letters</i> , <b>2010</b> , 10, 2702-8	11.5	60
253	The Functionality of Surface Hydroxy Groups on the Selectivity and Activity of Carbon Dioxide Reduction over Cuprous Oxide in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7724-7728	16.4	59
252	Etching effects of ethanol on multi-walled carbon nanotubes. <i>Carbon</i> , <b>2006</b> , 44, 1218-1224	10.4	59
251	Subsurface catalysis-mediated selectivity of dehydrogenation reaction. <i>Science Advances</i> , <b>2018</b> , 4, eaar5418	54.8	57
250	Investigation of carbon fiber reinforced polymer (CFRP) sheet with subsurface defects inspection using thermal-wave radar imaging (TWRI) based on the multi-transform technique. <i>NDT and E International</i> , <b>2014</b> , 62, 130-136	4.1	56
249	Activation and Spillover of Hydrogen on Sub-1 nm Palladium Nanoclusters Confined within Sodalite Zeolite for the Semi-Hydrogenation of Alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7668-7672	16.4	55
248	Strong Electronic Oxide-Support Interaction over InO/ZrO for Highly Selective CO Hydrogenation to Methanol. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19523-19531	16.4	55
247	Highly-oriented Fe <sub>2</sub> O <sub>3</sub> /ZnFe <sub>2</sub> O <sub>4</sub> nanocolumnar heterojunction with improved charge separation for photoelectrochemical water oxidation. <i>Chemical Communications</i> , <b>2016</b> , 52, 9013-5	5.8	55
246	Transparent ALD-grown Ta <sub>2</sub> O <sub>5</sub> protective layer for highly stable ZnO photoelectrode in solar water splitting. <i>Chemical Communications</i> , <b>2015</b> , 51, 7290-3	5.8	53
245	Porous single-crystalline AuPt@Pt bimetallic nanocrystals with high mass electrocatalytic activities. <i>Chemical Science</i> , <b>2016</b> , 7, 3500-3505	9.4	53
244	Near-infrared light-responsive vesicles of Au nanoflowers. <i>Chemical Communications</i> , <b>2013</b> , 49, 576-8	5.8	53
243	Millimeter-scale contact printing of aqueous solutions using a stamp made out of paper and tape. <i>Lab on A Chip</i> , <b>2010</b> , 10, 3201-5	7.2	53
242	Reactivity and surface properties of silica supported molybdenum oxide catalysts for the transesterification of dimethyl oxalate with phenol. <i>Catalysis Communications</i> , <b>2004</b> , 5, 101-106	3.2	53

241	Coupling of Cu(100) and (110) Facets Promotes Carbon Dioxide Conversion to Hydrocarbons and Alcohols. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4879-4885	16.4	52
240	Fabrication of porous nanoflake BiMO (M = W, V, and Mo) photoanodes hydrothermal anion exchange. <i>Chemical Science</i> , <b>2016</b> , 7, 6381-6386	9.4	51
239	Selective oxidation of methanol to dimethoxymethane over bifunctional VO(x)/TS-1 catalysts. <i>Chemical Communications</i> , <b>2011</b> , 47, 9345-7	5.8	51
238	Dry reforming of methane over La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> -modified Ni/Al <sub>2</sub> O <sub>3</sub> catalysts with moderate metal support interaction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118448	21.8	50
237	Synthesis of stable Ni-CeO <sub>2</sub> catalysts via ball-milling for ethanol steam reforming. <i>Catalysis Today</i> , <b>2014</b> , 233, 53-60	5.3	49
236	Ordered mesoporous Ni/La <sub>2</sub> O <sub>3</sub> catalysts with interfacial synergism towards CO <sub>2</sub> activation in dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118092	21.8	48
235	Selective oxidation of methanol to dimethoxymethane on V <sub>2</sub> O <sub>5</sub> /MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 160-161, 161-172	21.8	48
234	Multifunctional TiO <sub>2</sub> overlayer for p-Si/n-CdS heterojunction photocathode with improved efficiency and stability. <i>Nano Energy</i> , <b>2018</b> , 53, 125-129	17.1	47
233	Nanostructured NiFe (oxy)hydroxide with easily oxidized Ni towards efficient oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16810-16817	13	47
232	Insights into interface engineering in steam reforming reactions for hydrogen production. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3473-3495	35.4	47
231	N-doped Ag/TiO <sub>2</sub> hollow spheres for highly efficient photocatalysis under visible-light irradiation. <i>RSC Advances</i> , <b>2013</b> , 3, 720-724	3.7	46
230	The nature of active sites for carbon dioxide electroreduction over oxide-derived copper catalysts. <i>Nature Communications</i> , <b>2021</b> , 12, 395	17.4	46
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227	Synthesis of Platinum Nanotubes and Nanorings via Simultaneous Metal Alloying and Etching. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6332-5	16.4	44
226	Performance evaluation of sorption enhanced chemical-looping reforming for hydrogen production from biomass with modification of catalyst and sorbent regeneration. <i>Chemical Engineering Journal</i> , <b>2016</b> , 303, 338-347	14.7	42
225	Asymmetric organic/metal(oxide) hybrid nanoparticles: synthesis and applications. <i>Nanoscale</i> , <b>2013</b> , 5, 5151-66	7.7	42
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223	Two-dimensional gersiloxenes with tunable bandgap for photocatalytic H evolution and CO photoreduction to CO. <i>Nature Communications</i> , <b>2020</b> , 11, 1443	17.4	41
222	Stable Aqueous Photoelectrochemical CO <sub>2</sub> Reduction by a Cu <sub>2</sub> O Dark Cathode with Improved Selectivity for Carbonaceous Products. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8986-8991	3.6	41
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219	Controllable Cu -Cu Sites for Electrocatalytic Reduction of Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15344-15347	16.4	41
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214	The Interplay between Structure and Product Selectivity of CO Hydrogenation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11242-11247	16.4	39
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202	Bifacial passivation of n-silicon metal-insulator-semiconductor photoelectrodes for efficient oxygen and hydrogen evolution reactions. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 221-228	35.4	34
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