Jinlong Gong

List of Publications by Year in Descending Order

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	Unraveling the rate-limiting step of two-electron transfer electrochemical reduction of carbon dioxide.. *Nature Communications*, **2022**, 13, 803	17.4	8
383	Enabling High Loading in Single-Atom Catalysts on Bare Substrate with Chemical Scissors by Saturating the Anchoring Sites.. *Small*, **2022**, e2200073	11	3
382	Enabling High Loading in Single-Atom Catalysts on Bare Substrate with Chemical Scissors by Saturating the Anchoring Sites (Small 19/2022). *Small*, **2022**, 18, 2270098	11	1
381	Transparent, High-Performance and Stable Sb S Photoanode Enabled by Heterojunction Engineering with Conjugated Polycarbazole Frameworks for Unbiased Photoelectrochemical Overall Water Splitting Devices.. *Advanced Materials*, **2022**, e2200723	24	3
380	Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 16528-16530	8.3	0
379	Dynamics of Heterogeneous Catalytic Processes at Operando Conditions.. *Jacs Au*, **2021**, 1, 2100-2120		4
378	Black phosphorus-hosted single-atom catalyst for electrocatalytic nitrogen reduction. *Science China Materials*, **2021**, 64, 1173-1181	7.1	8
377	On the Role of Sn Segregation of Pt-Sn Catalysts for Propane Dehydrogenation. *ACS Catalysis*, **2021**, 11, 4401-4410	13.1	16
376	Tandem catalysis at nanoscale. *Science*, **2021**, 371, 1203-1204	33.3	2
375	Multi-characteristic combination based reliability enhancement of optical bidirectional thermal wave radar imaging for GFRP laminates with subsurface defects. *NDT and E International*, **2021**, 119, 102415	4.1	0
374	Arificial Leaves for Solar Fuels. *Chinese Journal of Chemistry*, **2021**, 39, 1450-1458	4.9	2
373	Performance Prediction of Multiple Photoanodes Systems for Unbiased Photoelectrochemical Water Splitting **2021**, 3, 939-946		2
372	Controllable Cu -Cu Sites for Electrocatalytic Reduction of Carbon Dioxide. *Angewandte Chemie - International Edition*, **2021**, 60, 15344-15347	16.4	41
371	Bifunctional Catalyst NiFeMgAl for Hydrogen Production from Chemical Looping Ethanol Reforming. *Energy & Fuels*, **2021**, 35, 11580-11592	4.1	4
370	Controllable Cu0-Cu+ Sites for Electrocatalytic Reduction of Carbon Dioxide. *Angewandte Chemie*, **2021**, 133, 15472-15475	3.6	12
369	Origin of Performances of Pt/Cu Single-Atom Alloy Catalysts for Propane Dehydrogenation. *Journal of Physical Chemistry C*, **2021**, 125, 18708-18716	3.8	8
368	Propane Dehydrogenation on Single-Site [PtZn4] Intermetallic Catalysts. *CheM*, **2021**, 7, 387-405	16.2	40

367	Double-Side Si Photoelectrode Enabled by Chemical Passivation for Photoelectrochemical Hydrogen and Oxygen Evolution Reactions. *Advanced Functional Materials*, **2021**, 31, 2007222	15.6	8
366	Coupling of Cu(100) and (110) Facets Promotes Carbon Dioxide Conversion to Hydrocarbons and Alcohols. *Angewandte Chemie*, **2021**, 133, 4929-4935	3.6	10
365	Reveal the nature of particle size effect for CO2 reduction over Pd and Au. *Chinese Journal of Catalysis*, **2021**, 42, 817-823	11.3	4
364	Controllable Distribution of Oxygen Vacancies in Grain Boundaries of p-Si/TiO Heterojunction Photocathodes for Solar Water Splitting. *Angewandte Chemie - International Edition*, **2021**, 60, 4034-4037	16.4	12
363	Controllable Distribution of Oxygen Vacancies in Grain Boundaries of p-Si/TiO2 Heterojunction Photocathodes for Solar Water Splitting. *Angewandte Chemie*, **2021**, 133, 4080-4083	3.6	4
362	Coupling of Cu(100) and (110) Facets Promotes Carbon Dioxide Conversion to Hydrocarbons and Alcohols. *Angewandte Chemie - International Edition*, **2021**, 60, 4879-4885	16.4	52
361	Spatial decoupling of light absorption and reaction sites in n-Si photocathodes for solar water splitting. *National Science Review*, **2021**, 8, nwaa293	10.8	6
360	The nature of active sites for carbon dioxide electroreduction over oxide-derived copper catalysts. *Nature Communications*, **2021**, 12, 395	17.4	46
359	Shale gas revolution: Catalytic conversion of C1–3 light alkanes to value-added chemicals. *CheM*, **2021**, 7, 1755-1801	16.2	11
358	Effect of bicarbonate on CO2 electroreduction over cathode catalysts. *Fundamental Research*, **2021**, 1, 432-438		4
357	Pt–Cu Interaction Induced Construction of Single Pt Sites for Synchronous Electron Capture and Transfer in Photocatalysis. *Advanced Functional Materials*, **2021**, 31, 2104343	15.6	12
356	Role of Fe Species of Ni-Based Catalysts for Efficient Low-Temperature Ethanol Steam Reforming. *Jacs Au*, **2021**, 1, 1459-1470		4
355	Efficient CO electroreduction on facet-selective copper films with high conversion rate. *Nature Communications*, **2021**, 12, 5745	17.4	19
354	Tunable metal-oxide interaction with balanced Ni0/Ni2+ sites of Ni Mg1–O for ethanol steam reforming. *Applied Catalysis B: Environmental*, **2021**, 293, 120178	21.8	9
353	Reliability Assessment for Time-Slice Enhanced Bidirectional Thermal Wave Radar Thermography of Hybrid C/GFRP Defects. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 6094-6103	11.9	4
352	Propane dehydrogenation: catalyst development, new chemistry, and emerging technologies. *Chemical Society Reviews*, **2021**, 50, 3315-3354	58.5	95
351	A commentary of green hydrogen in MIT Technology Review 2021. *Fundamental Research*, **2021**, 1, 848-850		0
350	A study on the SNR performance analysis of laser-generated bidirectional thermal wave radar imaging inspection for hybrid C/GFRP laminate defects. *Infrared Physics and Technology*, **2020**, 111, 103526	2.7	4

349	Strong Electronic Oxide-Support Interaction over InO/ZrO for Highly Selective CO Hydrogenation to Methanol. *Journal of the American Chemical Society*, **2020**, 142, 19523-19531	16.4	55
348	FeO Octahedral Distortion Activates Lattice Oxygen in Perovskite Ferrite for Methane Partial Oxidation Coupled with CO Splitting. *Journal of the American Chemical Society*, **2020**, 142, 11540-11549	16.4	65
347	Core-shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO. *Chemical Society Reviews*, **2020**, 49, 2937-3004	58.5	201
346	Facilitating the reduction of V-O bonds on VO /ZrO catalysts for non-oxidative propane dehydrogenation. *Chemical Science*, **2020**, 11, 3845-3851	9.4	34
345	Selective Electroreduction of Carbon Dioxide over SnO -Nanodot Catalysts. *ChemSusChem*, **2020**, 13, 6353-6359	8.3	3
344	Two-dimensional gersiloxenes with tunable bandgap for photocatalytic H evolution and CO photoreduction to CO. *Nature Communications*, **2020**, 11, 1443	17.4	41
343	Grain-Boundary-Rich Copper for Efficient Solar-Driven Electrochemical CO Reduction to Ethylene and Ethanol. *Journal of the American Chemical Society*, **2020**, 142, 6878-6883	16.4	121
342	Enhanced CO Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. *Angewandte Chemie - International Edition*, **2020**, 59, 12664-12668	16.4	83
341	Chemical looping oxidative steam reforming of methanol: A new pathway for auto-thermal conversion. *Applied Catalysis B: Environmental*, **2020**, 269, 118758	21.8	32
340	Tuning Oxygen Vacancies of Oxides to Promote Electrocatalytic Reduction of Carbon Dioxide. *ACS Energy Letters*, **2020**, 5, 552-558	20.1	19
339	Enhanced CO2 Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. *Angewandte Chemie*, **2020**, 132, 12764-12768	3.6	8
338	Alternative Strategies Toward Sustainable Ammonia Synthesis. *Transactions of Tianjin University*, **2020**, 26, 67-91	2.9	18
337	Chemical looping partial oxidation over FeWOx/SiO2 catalysts. *Chinese Journal of Catalysis*, **2020**, 41, 1140-1151	11.3	4
336	Chemical looping steam reforming of methane over Ce-doped perovskites. *Chemical Engineering Science*, **2020**, 223, 115707	4.4	14
335	Sorption enhanced steam reforming of methanol for high-purity hydrogen production over Cu-MgO/Al2O3 bifunctional catalysts. *Applied Catalysis B: Environmental*, **2020**, 276, 119052	21.8	28
334	Concentrating and activating carbon dioxide over AuCu aerogel grain boundaries. *Journal of Chemical Physics*, **2020**, 152, 204703	3.9	6
333	The role of Al doping in Pd/ZnO catalyst for CO2 hydrogenation to methanol. *Applied Catalysis B: Environmental*, **2020**, 263, 118367	21.8	29
332	Bifacial passivation of n-silicon metal–insulator–semiconductor photoelectrodes for efficient oxygen and hydrogen evolution reactions. *Energy and Environmental Science*, **2020**, 13, 221-228	35.4	34

331	Construction of uniform buried pn junctions on pyramid Si photocathodes using a facile and safe spin-on method for photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2020**, 8, 224-230	13	12
330	Dry reforming of methane over La2O2CO3-modified Ni/Al2O3 catalysts with moderate metal support interaction. *Applied Catalysis B: Environmental*, **2020**, 264, 118448	21.8	50
329	The Evolution of ACS Sustainable Chemistry & Engineering. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1-1	8.3	2
328	Hydrogen production via chemical looping steam reforming of ethanol by Ni-based oxygen carriers supported on CeO2 and La2O3 promoted Al2O3. *International Journal of Hydrogen Energy*, **2020**, 45, 1477-1491	6.7	26
327	Promotional role of MgO on sorption-enhanced steam reforming of ethanol over Ni/CaO catalysts. *AICHE Journal*, **2020**, 66, e16877	3.6	16
326	Enriched Surface Oxygen Vacancies of Photoanodes by Photoetching with Enhanced Charge Separation. *Angewandte Chemie - International Edition*, **2020**, 59, 2044-2048	16.4	83
325	Enriched Surface Oxygen Vacancies of Photoanodes by Photoetching with Enhanced Charge Separation. *Angewandte Chemie*, **2020**, 132, 2060-2064	3.6	15
324	Exploring the initial oxidation of Pt, Pt3Ni, Pt3Au (111) surfaces: a genetic algorithm based global optimization with density functional theory. *Green Chemical Engineering*, **2020**, 1, 56-62	3	6
323	Gas□water interface engineered exceptional photoconversion of fatty acids to olefins. *Green Chemistry*, **2020**, 22, 7848-7857	10	3
322	Golden touch of the nanoparticles. *Nature Nanotechnology*, **2020**, 15, 1-2	28.7	8
321	Defect-mediated reactivity of Pt/TiO2 catalysts: the different role of titanium and oxygen vacancies. *Science China Chemistry*, **2020**, 63, 1323-1330	7.9	10
320	Defect-promoted visible light-driven C C coupling reactions pairing with CO2 reduction. *Journal of Catalysis*, **2020**, 390, 244-250	7.3	26
319	Theoretical insights into single-atom catalysts. *Chemical Society Reviews*, **2020**, 49, 8156-8178	58.5	89
318	Coverage-Dependent Behaviors of Vanadium Oxides for Chemical Looping Oxidative Dehydrogenation. *Angewandte Chemie*, **2020**, 132, 22256-22263	3.6	2
317	Coverage-Dependent Behaviors of Vanadium Oxides for Chemical Looping Oxidative Dehydrogenation. *Angewandte Chemie - International Edition*, **2020**, 59, 22072-22079	16.4	15
316	Metal Sputtering Buffer Layer for High Performance Si-Based Water Oxidation Photoanode. *ACS Applied Energy Materials*, **2020**, 3, 8216-8223	6.1	1
315	Fe2O3/CaO-Al2O3 multifunctional catalyst for hydrogen production by sorption-enhanced chemical looping reforming of ethanol. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	3
314	Nanostructured Catalysts toward Efficient Propane Dehydrogenation. *Accounts of Materials Research*, **2020**, 1, 30-40	7.5	22

313	Operando characterization techniques for electrocatalysis. *Energy and Environmental Science*, **2020**, 13, 3748-3779	35.4	83
312	Synthesis of Interface-Driven Tunable Bandgap Metal Oxides **2020**, 2, 1211-1217		9
311	Performance comparison among different multifunctional reactors operated under energy self-sufficiency for sustainable hydrogen production from ethanol. *International Journal of Hydrogen Energy*, **2020**, 45, 18309-18320	6.7	7
310	Single-crystal silicon-based electrodes for unbiased solar water splitting: current status and prospects. *Chemical Society Reviews*, **2019**, 48, 2158-2181	58.5	103
309	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	35.4	74
308	Adjusting the Reduction Potential of Electrons by Quantum Confinement for Selective Photoreduction of CO to Methanol. *Angewandte Chemie - International Edition*, **2019**, 58, 3804-3808	16.4	63
307	Achieving efficient and robust catalytic reforming on dual-sites of Cu species. *Chemical Science*, **2019**, 10, 2578-2584	9.4	24
306	Adjusting the Reduction Potential of Electrons by Quantum Confinement for Selective Photoreduction of CO2 to Methanol. *Angewandte Chemie*, **2019**, 131, 3844-3848	3.6	9
305	Crucial Role of Surface Hydroxyls on the Activity and Stability in Electrochemical CO Reduction. *Journal of the American Chemical Society*, **2019**, 141, 2911-2915	16.4	115
304	Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications. *Nano Today*, **2019**, 27, 48-72	17.9	65
303	The Interplay between Structure and Product Selectivity of CO2 Hydrogenation. *Angewandte Chemie*, **2019**, 131, 11364	3.6	3
302	The Interplay between Structure and Product Selectivity of CO Hydrogenation. *Angewandte Chemie - International Edition*, **2019**, 58, 11242-11247	16.4	39
301	Recent progress made in the mechanism comprehension and design of electrocatalysts for alkaline water splitting. *Energy and Environmental Science*, **2019**, 12, 2620-2645	35.4	532
300	Theory assisted design of N-doped tin oxides for enhanced electrochemical CO2 activation and reduction. *Science China Chemistry*, **2019**, 62, 1030-1036	7.9	17
299	Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. *Angewandte Chemie*, **2019**, 131, 10108-10112	3.6	11
298	Titelbild: Activation and Spillover of Hydrogen on Sub-1 nm Palladium Nanoclusters Confined within Sodalite Zeolite for the Semi-Hydrogenation of Alkynes (Angew. Chem. 23/2019). *Angewandte Chemie*, **2019**, 131, 7577-7577	3.6	
297	Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. *Angewandte Chemie - International Edition*, **2019**, 58, 10003-10007	16.4	61
296	Multifunctional Nickel Film Protected n-Type Silicon Photoanode with High Photovoltage for Efficient and Stable Oxygen Evolution Reaction. *Small Methods*, **2019**, 3, 1900212	12.8	24

295	Structure–Performance Relationships for Propane Dehydrogenation over Aluminum Supported Vanadium Oxide. *ACS Catalysis*, **2019**, 9, 5816-5827	13.1	45
294	Regioselective metal deposition on polymer-Au nanoparticle hybrid chains. *Science China Materials*, **2019**, 62, 1363-1367	7.1	2
293	Adsorption Preference Determines Segregation Direction: A Shortcut to More Realistic Surface Models of Alloy Catalysts. *ACS Catalysis*, **2019**, 9, 5011-5018	13.1	19
292	Activation and Spillover of Hydrogen on Sub-1 nm Palladium Nanoclusters Confined within Sodalite Zeolite for the Semi-Hydrogenation of Alkynes. *Angewandte Chemie*, **2019**, 131, 7750-7754	3.6	8
291	Fabrication of bilayer Pd-Pt nanocages with sub-nanometer thin shells for enhanced hydrogen evolution reaction. *Nano Research*, **2019**, 12, 2268-2274	10	23
290	Nanopolyaniline Coupled with an Anticorrosive Graphene as a 3D Film Electrocatalyst for Efficient Oxidation of Toluene Methyl C-H Bonds and Hydrogen Production at Low Voltage. *Chemistry - A European Journal*, **2019**, 25, 6963-6972	4.8	3
289	Ultrathin Pd-Au Shells with Controllable Alloying Degree on Pd Nanocubes toward Carbon Dioxide Reduction. *Journal of the American Chemical Society*, **2019**, 141, 4791-4794	16.4	85
288	Transparent Ta2O5 Protective Layer for Stable Silicon Photocathode under Full Solar Spectrum. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5510-5515	3.9	16
287	Activation and Spillover of Hydrogen on Sub-1 nm Palladium Nanoclusters Confined within Sodalite Zeolite for the Semi-Hydrogenation of Alkynes. *Angewandte Chemie - International Edition*, **2019**, 58, 7668-7672	16.4	55
286	Abundant Ce Ions in Au-CeO Nanosheets to Enhance CO Electroreduction Performance. *Small*, **2019**, 15, e1900289	11	25
285	Symmetry-Breaking Synthesis of Multicomponent Nanoparticles. *Accounts of Chemical Research*, **2019**, 52, 1125-1133	24.3	40
284	Hydroxyl-mediated ethanol selectivity of CO hydrogenation. *Chemical Science*, **2019**, 10, 3161-3167	9.4	65
283	Influence of CaO precursor on CO2 capture performance and sorption-enhanced steam ethanol reforming. *International Journal of Hydrogen Energy*, **2019**, 44, 20649-20662	6.7	19
282	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
281	Three-Phase Photocatalysis for the Enhanced Selectivity and Activity of CO2 Reduction on a Hydrophobic Surface. *Angewandte Chemie*, **2019**, 131, 14691-14697	3.6	21
280	Ordered mesoporous Ni/La2O3 catalysts with interfacial synergism towards CO2 activation in dry reforming of methane. *Applied Catalysis B: Environmental*, **2019**, 259, 118092	21.8	48
279	Frontispiece: The Interplay between Structure and Product Selectivity of CO2 Hydrogenation. *Angewandte Chemie - International Edition*, **2019**, 58,	16.4	1
278	Single-Atom Mn-N 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	16.4	94

277	Modulating Lattice Oxygen in Dual-Functional Mo-V-O Mixed Oxides for Chemical Looping Oxidative Dehydrogenation. *Journal of the American Chemical Society*, **2019**, 141, 18653-18657	16.4	65
276	Modulating Photoelectrochemical Water-Splitting Activity by Charge-Storage Capacity of Electrocatalysts. *Journal of Physical Chemistry C*, **2019**, 123, 28753-28762	3.8	8
275	Active sites in CO2 hydrogenation over confined VOx-Rh catalysts. *Science China Chemistry*, **2019**, 62, 1710-1719	7.9	19
274	Theory-guided design of catalytic materials using scaling relationships and reactivity descriptors. *Nature Reviews Materials*, **2019**, 4, 792-804	73.3	164
273	Insights into interface engineering in steam reforming reactions for hydrogen production. *Energy and Environmental Science*, **2019**, 12, 3473-3495	35.4	47
272	Modulating the surface defects of titanium oxides and consequent reactivity of Pt catalysts. *Chemical Science*, **2019**, 10, 10531-10536	9.4	6
271	Solar□Wind□Bio Ecosystem for Biomass Cascade Utilization with Multigeneration of Formic Acid, Hydrogen, and Graphene. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2558-2568	8.3	12
270	Facet-evolution growth of Mn3O4@CoxMn3-xO4 electrocatalysts on Ni foam towards efficient oxygen evolution reaction. *Journal of Catalysis*, **2019**, 369, 105-110	7.3	22
269	A welding phenomenon of dissimilar nanoparticles in dispersion. *Nature Communications*, **2019**, 10, 219	17.4	11
268	The Development of Cocatalysts for Photoelectrochemical CO Reduction. *Advanced Materials*, **2019**, 31, e1804710	24	104
267	Competition of C-C bond formation and C-H bond formation For acetylene hydrogenation on transition metals: A density functional theory study. *AICHE Journal*, **2019**, 65, 1059-1066	3.6	29
266	Rational design of yolk-shell nanostructures for photocatalysis. *Chemical Society Reviews*, **2019**, 48, 1874-1907	58.9	171
265	Facet design promotes electroreduction of carbon dioxide to carbon monoxide on palladium nanocrystals. *Chemical Engineering Science*, **2019**, 194, 29-35	4.4	26
264	Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO Photoelectrodes. *Angewandte Chemie - International Edition*, **2018**, 57, 5278-5282	16.4	271
263	Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO2 Photoelectrodes. *Angewandte Chemie*, **2018**, 130, 5376-5380	3.6	37
262	On the role of Ce in CO adsorption and activation over lanthanum species. *Chemical Science*, **2018**, 9, 3426-3437	9.4	29
261	Coverage Effect on the Activity of the Acetylene Semihydrogenation over Pd□Sn Catalysts: A Density Functional Theory Study. *Journal of Physical Chemistry C*, **2018**, 122, 6005-6013	3.8	17
260	Effect of non-axisymmetric arc on microstructure, texture and properties of variable polarity plasma arc welded 5A06 Al alloy. *Materials Characterization*, **2018**, 139, 70-80	3.9	4

259	Hydroxyl-Mediated Non-oxidative Propane Dehydrogenation over VOx/γ-Al2O3 Catalysts with Improved Stability. *Angewandte Chemie*, **2018**, 130, 6907-6911	3.6	11
258	A new, sustainable process for synthesis of ethylene glycol. *Journal of Energy Chemistry*, **2018**, 27, 949-950	12	3
257	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	16.4	59
256	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	35.4	87
255	Rücktitelbild: Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO2 Photoelectrodes (Angew. Chem. 19/2018). *Angewandte Chemie*, **2018**, 130, 5656-5656	3.6	
254	CO2 Electroreduction: Morphological and Compositional Design of Pd–Cu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO2 Electroreduction (Small 7/2018). *Small*, **2018**, 14, 1870031	11	1
253	Synergism of Geometric Construction and Electronic Regulation: 3D Se-(NiCo)S /(OH) Nanosheets for Highly Efficient Overall Water Splitting. *Advanced Materials*, **2018**, 30, e1705538	24	193
252	Morphological and Compositional Design of Pd-Cu Bimetallic Nanocatalysts with Controllable Product Selectivity toward CO Electroreduction. *Small*, **2018**, 14, 1703314	11	65
251	WO3 photoanodes with controllable bulk and surface oxygen vacancies for photoelectrochemical water oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 3350-3354	13	69
250	Homogeneous Cu2O p-n junction photocathodes for solar water splitting. *Applied Catalysis B: Environmental*, **2018**, 226, 31-37	21.8	90
249	Current Mechanistic Understanding of Surface Reactions over Water-Splitting Photocatalysts. *CheM*, **2018**, 4, 223-245	16.2	68
248	The Nature of Loading-Dependent Reaction Barriers over Mixed RuO2/TiO2 Catalysts. *ACS Catalysis* , **2018**, 8, 5526-5532	13.1	20
247	Dimensional construction and morphological tuning of heterogeneous MoS2/NiS electrocatalysts for efficient overall water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 9833-9838	13	75
246	Identification of Pt-based catalysts for propane dehydrogenation a probability analysis. *Chemical Science*, **2018**, 9, 3925-3931	9.4	67
245	Hydroxyl-Mediated Non-oxidative Propane Dehydrogenation over VO /γ-Al O Catalysts with Improved Stability. *Angewandte Chemie - International Edition*, **2018**, 57, 6791-6795	16.4	97
244	Bubble-supported engineering of hierarchical CuCo2S4 hollow spheres for enhanced electrochemical performance. *Journal of Materials Chemistry A*, **2018**, 6, 5265-5270	13	72
243	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	21.8	138
242	Selectivity Modulation of Encapsulated Palladium Nanoparticles by Zeolite Microenvironment for Biomass Catalytic Upgrading. *ACS Catalysis*, **2018**, 8, 8578-8589	13.1	67

241	Innenrücktitelbild: Low-Coordinated Edge Sites on Ultrathin Palladium Nanosheets Boost Carbon Dioxide Electroreduction Performance (Angew. Chem. 36/2018). *Angewandte Chemie*, **2018**, 130, 11995-11995	3.6	
240	Achieving convenient CO electroreduction and photovoltage in tandem using potential-insensitive disordered Ag nanoparticles. *Chemical Science*, **2018**, 9, 6599-6604	9.4	22
239	Surface, Bulk, and Interface: Rational Design of Hematite Architecture toward Efficient Photo-Electrochemical Water Splitting. *Advanced Materials*, **2018**, 30, e1707502	24	157
238	Formation of Enriched Vacancies for Enhanced CO2 Electrocatalytic Reduction over AuCu Alloys. *ACS Energy Letters*, **2018**, 3, 2144-2149	20.1	64
237	Multifunctional TiO2 overlayer for p-Si/n-CdS heterojunction photocathode with improved efficiency and stability. *Nano Energy*, **2018**, 53, 125-129	17.1	47
236	Nanostructured NiFe (oxy)hydroxide with easily oxidized Ni towards efficient oxygen evolution reactions. *Journal of Materials Chemistry A*, **2018**, 6, 16810-16817	13	47
235	Subsurface catalysis-mediated selectivity of dehydrogenation reaction. *Science Advances*, **2018**, 4, eaar5418	14.3	57
234	Water Splitting: Synergism of Geometric Construction and Electronic Regulation: 3D Se-(NiCo)Sx/(OH)x Nanosheets for Highly Efficient Overall Water Splitting (Adv. Mater. 12/2018). *Advanced Materials*, **2018**, 30, 1870085	24	25
233	Tuning Cu/Cu2O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. *Angewandte Chemie*, **2018**, 130, 15641-15645	3.6	23
232	Titelbild: Tuning Cu/Cu2O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions (Angew. Chem. 47/2018). *Angewandte Chemie*, **2018**, 130, 15507-15507	3.6	1
231	Simple Doping, Great Deal: Regulation of Lattice Oxygen for Water Splitting. *CheM*, **2018**, 4, 2739-2741	16.2	5
230	Selective atomic layer deposition of RuOx catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. *Journal of Materials Chemistry A*, **2018**, 6, 24397-24406	13	22
229	Breaking the scaling relationship via thermally stable Pt/Cu single atom alloys for catalytic dehydrogenation. *Nature Communications*, **2018**, 9, 4454	17.4	250
228	Tuning Cu/Cu O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. *Angewandte Chemie - International Edition*, **2018**, 57, 15415-15419	16.4	118
227	Metal oxide redox chemistry for chemical looping processes. *Nature Reviews Chemistry*, **2018**, 2, 349-364	34.6	188
226	The Functionality of Surface Hydroxy Groups on the Selectivity and Activity of Carbon Dioxide Reduction over Cuprous Oxide in Aqueous Solutions. *Angewandte Chemie*, **2018**, 130, 7850-7854	3.6	18
225	Nano-designed semiconductors for electro- and photoelectro-catalytic conversion of carbon dioxide. *Chemical Society Reviews*, **2018**, 47, 5423-5443	58.5	119
224	Tunable syngas production from photocatalytic CO reduction with mitigated charge recombination driven by spatially separated cocatalysts. *Chemical Science*, **2018**, 9, 5334-5340	9.4	65

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