Hao Ming Chen

List of Publications by Year in Descending Order

168 papers	16,512 citations	59 h-index	128 g-index
185 ext. papers	20,908 ext. citations	12.3 avg, IF	7.16 L-index

#	Paper	IF	Citations
168	Engineering Lattice Disorder on a Photocatalyst: Photochromic BiOBr Nanosheets Enhance Activation of Aromatic C-H Bonds via Water Oxidation.. *Journal of the American Chemical Society*, **2022**,	16.4	11
167	PtRu Dimer Electrocatalyst with Electron Redistribution for Hydrogen Evolution Reaction. *ACS Catalysis*, **2022**, 12, 5540-5548	13.1	3
166	Electrocatalytic Methane Functionalization with d Early Transition Metals Under Ambient Conditions. *Angewandte Chemie - International Edition*, **2021**, 60, 26630-26638	16.4	0
165	Electrocatalytic Methane Functionalization with d0 Early Transition Metals Under Ambient Conditions. *Angewandte Chemie*, **2021**, 133, 26834	3.6	
164	A Universal Approach for Controllable Synthesis of n-Specific Layered 2D Perovskite Nanoplates. *Angewandte Chemie - International Edition*, **2021**, 60, 7866-7872	16.4	10
163	A Universal Approach for Controllable Synthesis of n-Specific Layered 2D Perovskite Nanoplates. *Angewandte Chemie*, **2021**, 133, 7945-7951	3.6	2
162	Linking the Dynamic Chemical State of Catalysts with the Product Profile of Electrocatalytic CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 17394-17407	3.6	10
161	Heterocyclic-Additive-Activated Dinuclear Dysprosium Electrocatalysts for Heterogeneous Water Oxidation. *Inorganic Chemistry*, **2021**, 60, 6930-6938	5.1	0
160	Pt Single Atoms Supported on N-Doped Mesoporous Hollow Carbon Spheres with Enhanced Electrocatalytic H -Evolution Activity. *Advanced Materials*, **2021**, 33, e2008599	24	103
159	Linking the Dynamic Chemical State of Catalysts with the Product Profile of Electrocatalytic CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 17254-17267	16.4	30
158	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. *Angewandte Chemie*, **2021**, 133, 19293-19303	3.6	2
157	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO2 Reduction. *ACS Catalysis*, **2021**, 11, 7292-7301	13.1	14
156	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. *Angewandte Chemie - International Edition*, **2021**, 60, 19144-19154	16.4	4
155	MOF-Templated Sulfurization of Atomically Dispersed Manganese Catalysts Facilitating Electroreduction of CO to CO. *ACS Applied Materials & Interfaces*, **2021**,	9.5	5
154	Product-Specific Active Site Motifs of Cu for Electrochemical CO2 Reduction. *CheM*, **2021**, 7, 406-420	16.2	27
153	In Situ Identifying the Dynamic Structure behind Activity of Atomically Dispersed Platinum Catalyst toward Hydrogen Evolution Reaction. *Small*, **2021**, 17, e2005713	11	14
152	Vertical 2D/3D Heterojunction of Tin Perovskites for Highly Efficient HTM-Free Perovskite Solar Cell. *ACS Applied Energy Materials*, **2021**, 4, 2041-2048	6.1	7

151	Emerging dynamic structure of electrocatalysts unveiled by in situ X-ray diffraction/absorption spectroscopy. *Energy and Environmental Science*, **2021**, 14, 1928-1958	35.4	59
150	Atomic Metal-Support Interaction Enables Reconstruction-Free Dual-Site Electrocatalyst.. *Journal of the American Chemical Society*, **2021**,	16.4	22
149	Amorphous Multimetal Alloy Oxygen Evolving Catalysts **2020**, 2, 624-632		25
148	Electrochemical Reduction of CO2 to Ethane through Stabilization of an Ethoxy Intermediate. *Angewandte Chemie*, **2020**, 132, 19817-19821	3.6	14
147	Electronic structure inspired a highly robust electrocatalyst for the oxygen-evolution reaction. *Chemical Communications*, **2020**, 56, 8071-8074	5.8	8
146	Mechanism of Oxygen Evolution Catalyzed by Cobalt Oxyhydroxide: Cobalt Superoxide Species as a Key Intermediate and Dioxygen Release as a Rate-Determining Step. *Journal of the American Chemical Society*, **2020**, 142, 11901-11914	16.4	169
145	Dynamic Reoxidation/Reduction-Driven Atomic Interdiffusion for Highly Selective CO Reduction toward Methane. *Journal of the American Chemical Society*, **2020**, 142, 12119-12132	16.4	65
144	In situ Observation of Electrodeposited Bimetallic p-Si Micropillar Array Photocathode for Solar-Driven Hydrogen Evolution. *Solar Rrl*, **2020**, 4, 2000028	7.1	0
143	In Situ/Operando Studies for Designing Next-Generation Electrocatalysts. *ACS Energy Letters*, **2020**, 5, 1281-1291	20.1	156
142	Efficient Hydrogen Oxidation Catalyzed by Strain-Engineered Nickel Nanoparticles. *Angewandte Chemie - International Edition*, **2020**, 59, 10797-10801	16.4	39
141	A Single Cu-Center Containing Enzyme-Mimic Enabling Full Photosynthesis under CO Reduction. *ACS Nano*, **2020**, 14, 8584-8593	16.7	73
140	Enabling Direct H2O2 Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. *CheM*, **2020**, 6, 658-674	16.2	176
139	Comprehensively Probing the Contribution of Site Activity and Population of Active Sites toward Heterogeneous Electrocatalysis. *ChemCatChem*, **2020**, 12, 1926-1933	5.2	4
138	Electrochemical Reduction of CO to Ethane through Stabilization of an Ethoxy Intermediate. *Angewandte Chemie - International Edition*, **2020**, 59, 19649-19653	16.4	61
137	Operando time-resolved X-ray absorption spectroscopy reveals the chemical nature enabling highly selective CO reduction. *Nature Communications*, **2020**, 11, 3525	17.4	90
136	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. *CheM*, **2020**, 6, 3440-3454	16.2	79
135	The individual role of active sites in bimetallic oxygen evolution reaction catalysts. *Dalton Transactions*, **2020**, 49, 17505-17510	4.3	7
134	Ambient methane functionalization initiated by electrochemical oxidation of a vanadium (V)-oxo dimer. *Nature Communications*, **2020**, 11, 3686	17.4	20

133	In situ unraveling of the effect of the dynamic chemical state on selective CO reduction upon zinc electrocatalysts. *Nanoscale*, **2020**, 12, 18013-18021	7.7	5
132	Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. *Nature Nanotechnology*, **2020**, 15, 848-853	28.7	90
131	In situ X-ray diffraction and X-ray absorption spectroscopy of electrocatalysts for energy conversion reactions. *Journal of Materials Chemistry A*, **2020**, 8, 19079-19112	13	39
130	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. *Nature Communications*, **2020**, 11, 4246	17.4	92
129	Strong Catalyst–Support Interactions in Electrochemical Oxygen Evolution on NiFe Layered Double Hydroxide. *ACS Energy Letters*, **2020**, 5, 3185-3194	20.1	17
128	Efficient Hydrogen Oxidation Catalyzed by Strain-Engineered Nickel Nanoparticles. *Angewandte Chemie*, **2020**, 132, 10889-10893	3.6	5
127	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1903909	24	142
126	Markedly Enhanced Oxygen Reduction Activity of Single-Atom Fe Catalysts via Integration with Fe Nanoclusters. *ACS Nano*, **2019**, 13, 11853-11862	16.7	189
125	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. *Nature Chemistry*, **2019**, 11, 222-228	17.6	337
124	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. *Journal of the American Chemical Society*, **2019**, 141, 3014-3023	16.4	172
123	Harnessing Dielectric Confinement on Tin Perovskites to Achieve Emission Quantum Yield up to 21. *Journal of the American Chemical Society*, **2019**, 141, 10324-10330	16.4	47
122	Atomically dispersed Fe sites catalyze efficient CO electroreduction to CO. *Science*, **2019**, 364, 1091-1094	33.3	685
121	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1900883	24	161
120	Potential of Plasmon-Activated Water as a Comprehensive Active Green Energy Resource. *ACS Omega*, **2019**, 4, 8007-8014	3.9	0
119	Morphology Manipulation of Copper Nanocrystals and Product Selectivity in the Electrocatalytic Reduction of Carbon Dioxide. *ACS Catalysis*, **2019**, 9, 5217-5222	13.1	60
118	Dynamic Evolution of Atomically Dispersed Cu Species for CO2 Photoreduction to Solar Fuels. *ACS Catalysis*, **2019**, 9, 4824-4833	13.1	128
117	Operando Unraveling of the Structural and Chemical Stability of P-Substituted CoSe2 Electrocatalysts toward Hydrogen and Oxygen Evolution Reactions in Alkaline Electrolyte. *ACS Energy Letters*, **2019**, 4, 987-994	20.1	208
116	Ni N as an Active Hydrogen Oxidation Reaction Catalyst in Alkaline Medium. *Angewandte Chemie - International Edition*, **2019**, 58, 7445-7449	16.4	114

115	An Unconventional Iron Nickel Catalyst for the Oxygen Evolution Reaction. *ACS Central Science*, **2019**, 5, 558-568	16.8	136
114	A Cobalt-Iron Double-Atom Catalyst for the Oxygen Evolution Reaction. *Journal of the American Chemical Society*, **2019**, 141, 14190-14199	16.4	203
113	Anionic Effects on Metal Pair of Se-Doped Nickel Diphosphide for Hydrogen Evolution Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14247-14255	8.3	19
112	Light-Induced Activation of Adaptive Junction for Efficient Solar-Driven Oxygen Evolution: In Situ Unraveling the Interfacial Metal–Silicon Junction. *Advanced Energy Materials*, **2019**, 9, 1901308	21.8	18
111	Defect Passivation by Amide-Based Hole-Transporting Interfacial Layer Enhanced Perovskite Grain Growth for Efficient p-i-n Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 40050-40061	9.5	31
110	In Situ Spatially Coherent Identification of Phosphide-Based Catalysts: Crystallographic Latching for Highly Efficient Overall Water Electrolysis. *ACS Energy Letters*, **2019**, 4, 2813-2820	20.1	41
109	Revealing the structural transformation of rutile RuOvia in situ X-ray absorption spectroscopy during the oxygen evolution reaction. *Dalton Transactions*, **2019**, 48, 7122-7129	4.3	17
108	Quantitatively Unraveling the Redox Shuttle of Spontaneous Oxidation/Electroreduction of CuO on Silver Nanowires Using in Situ X-ray Absorption Spectroscopy. *ACS Central Science*, **2019**, 5, 1998-2009	16.8	33
107	Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution. *Small*, **2018**, 14, e1704047	11	
106	Electrocatalysts: Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction (Adv. Energy Mater. 7/2018). *Advanced Energy Materials*, **2018**, 8, 1870032	21.8	2
105	Stabilizing ultrasmall Au clusters for enhanced photoredox catalysis. *Nature Communications*, **2018**, 9, 1543	17.4	164
104	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. *Small Methods*, **2018**, 2, 1800001	12.8	41
103	Atomically dispersed Ni(i) as the active site for electrochemical CO2 reduction. *Nature Energy*, **2018**, 3, 140-147	62.3	1046
102	Tunable Electrodeposition of Ni Electrocatalysts onto Si Microwires Array for Photoelectrochemical Water Oxidation. *Particle and Particle Systems Characterization*, **2018**, 35, 1700321	3.1	8
101	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. *Industrial & Engineering Chemistry Research*, **2018**, 57, 1441-1445	3.9	19
100	Surface-Enhanced Raman Scattering-Active Substrate Prepared with New Plasmon-Activated Water. *ACS Omega*, **2018**, 3, 4743-4751	3.9	1
99	Water Oxidation: Tunable Electrodeposition of Ni Electrocatalysts onto Si Microwires Array for Photoelectrochemical Water Oxidation (Part. Part. Syst. Charact. 1/2018). *Particle and Particle Systems Characterization*, **2018**, 35, 1870002	3.1	0
98	Nanomaterials: Dual-Hole Excitons Activated Photoelectrolysis in Neutral Solution (Small 14/2018). *Small*, **2018**, 14, 1870061	11	

97	Strongly Coupled Tin-Halide Perovskites to Modulate Light Emission: Tunable 550-640 nm Light Emission (FWHM 36-80 nm) with a Quantum Yield of up to 6.4. *Advanced Materials*, **2018**, 30, e1706592	24	34
96	A Universal Method to Engineer Metal Oxide-Metal-Carbon Interface for Highly Efficient Oxygen Reduction. *ACS Nano*, **2018**, 12, 3042-3051	16.7	88
95	Innovatively Therapeutic Strategy on Lung Cancer by Daily Drinking Antioxidative Plasmon-Induced Activated Water. *Scientific Reports*, **2018**, 8, 6316	4.9	5
94	Photocatalysis: Single-Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution (Adv. Funct. Mater. 32/2018). *Advanced Functional Materials*, **2018**, 28, 1870224	15.6	3
93	Single-Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution. *Advanced Functional Materials*, **2018**, 28, 1802169	15.6	196
92	Unraveling Geometrical Site Confinement in Highly Efficient Iron-Doped Electrocatalysts toward Oxygen Evolution Reaction. *Advanced Energy Materials*, **2018**, 8, 1701686	21.8	95
91	Identification of Stabilizing High-Valent Active Sites by Operando High-Energy Resolution Fluorescence-Detected X-ray Absorption Spectroscopy for High-Efficiency Water Oxidation. *Journal of the American Chemical Society*, **2018**, 140, 17263-17270	16.4	62
90	In Situ Creation of Surface-Enhanced Raman Scattering Active Au-AuO Nanostructures through Electrochemical Process for Pigment Detection. *ACS Omega*, **2018**, 3, 16576-16584	3.9	8
89	Conjugated Organic-Inorganic Hybrid Photoanodes: Revealing the Photochemical Behavior through In Situ X-Ray Absorption Spectroscopy. *Chemistry - A European Journal*, **2018**, 24, 18419-18423	4.8	1
88	In Situ Identification of Photo- and Moisture-Dependent Phase Evolution of Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 342-348	20.1	49
87	Progressive Design of Plasmonic Metal-Semiconductor Ensemble toward Regulated Charge Flow and Improved Vis-NIR-Driven Solar-to-Chemical Conversion. *Small*, **2017**, 13, 1602947	11	71
86	Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. *Chemical Society Reviews*, **2017**, 46, 337-365	58.5	3041
85	Edgeless Ag-Pt Bimetallic Nanocages: In Situ Monitor Plasmon-Induced Suppression of Hydrogen Peroxide Formation. *Journal of the American Chemical Society*, **2017**, 139, 2224-2233	16.4	85
84	Valence- and element-dependent water oxidation behaviors: in situ X-ray diffraction, absorption and electrochemical impedance spectroscopies. *Physical Chemistry Chemical Physics*, **2017**, 19, 8681-8693	3.6	65
83	Chemical distinctions between Stradivari's maple and modern tonewood. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 27-32	11.5	23
82	Identifying the electrocatalytic sites of nickel disulfide in alkaline hydrogen evolution reaction. *Nano Energy*, **2017**, 41, 148-153	17.1	133
81	In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis. *CheM*, **2017**, 3, 122-133	16.2	150
80	Mesoporous TiO Embedded with a Uniform Distribution of CuO Exhibit Enhanced Charge Separation and Photocatalytic Efficiency. *ACS Applied Materials & Interfaces*, **2017**, 9, 42425-42429	9.5	53

79	Facile preparation of electroactive graphene derivative and its potential application in electrochemical detection. *Sensors and Actuators B: Chemical*, **2017**, 240, 1153-1159	8.5	8
78	Breakthrough to Non-Vacuum Deposition of Single-Crystal, Ultra-Thin, Homogeneous Nanoparticle Layers: A Better Alternative to Chemical Bath Deposition and Atomic Layer Deposition. *Nanomaterials*, **2017**, 7,	5.4	3
77	Modulation of Crystal Surface and Lattice by Doping: Achieving Ultrafast Metal-Ion Insertion in Anatase TiO. *ACS Applied Materials & Interfaces*, **2016**, 8, 29186-29193	9.5	13
76	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. *Science Advances* , **2016**, 2, e1501122	14.3	884
75	Iridium Oxide-Assisted Plasmon-Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. *Advanced Energy Materials*, **2016**, 6, 1501339	21.8	74
74	An environmentally friendly etching agent: vapor from hot electron-activated liquid water. *Green Chemistry*, **2016**, 18, 3098-3105	10	13
73	In Operando Identification of Geometrical-Site-Dependent Water Oxidation Activity of Spinel Co3O4. *Journal of the American Chemical Society*, **2016**, 138, 36-9	16.4	543
72	The synergistic effect of a well-defined Au@Pt core-shell nanostructure toward photocatalytic hydrogen generation: interface engineering to improve the Schottky barrier and hydrogen-evolved kinetics. *Chemical Communications*, **2016**, 52, 1567-70	5.8	43
71	Multifunctions of Excited Gold Nanoparticles Decorated Artificial Kidney with Efficient Hemodialysis and Therapeutic Potential. *ACS Applied Materials & Interfaces*, **2016**, 8, 19691-700	9.5	23
70	Triggering comprehensive enhancement in oxygen evolution reaction by using newly created solvent. *Scientific Reports*, **2016**, 6, 28456	4.9	10
69	Creation of Electron-doping Liquid Water with Reduced Hydrogen Bonds. *Scientific Reports*, **2016**, 6, 22166	4.9	16
68	In situ morphological transformation and investigation of electrocatalytic properties of cobalt oxide nanostructures toward oxygen evolution. *CrystEngComm*, **2016**, 18, 6008-6012	3.3	16
67	Ni3+-Induced Formation of Active NiOOH on the Spinel Ni□o Oxide Surface for Efficient Oxygen Evolution Reaction. *Advanced Energy Materials*, **2015**, 5, 1500091	21.8	310
66	One-step fabrication of SERS-active substrates based on plasmon-induced activated water, with improved activity and excellent reproducibility. *Journal of Electroanalytical Chemistry*, **2015**, 750, 27-35	4.1	2
65	Heterojunction of Zinc Blende/Wurtzite in Zn1-xCdxS Solid Solution for Efficient Solar Hydrogen Generation: X-ray Absorption/Diffraction Approaches. *ACS Applied Materials & Interfaces*, **2015**, 7, 22558-69	9.5	63
64	Reversible adapting layer produces robust single-crystal electrocatalyst for oxygen evolution. *Nature Communications*, **2015**, 6, 8106	17.4	285
63	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. *Science Advances*, **2015**, 1, e1500259	14.3	356
62	A sensitive and selective magnetic graphene composite-modified polycrystalline-silicon nanowire field-effect transistor for bladder cancer diagnosis. *Biosensors and Bioelectronics*, **2015**, 66, 198-207	11.8	41

61	Innovative Strategy on Hydrogen Evolution Reaction Utilizing Activated Liquid Water. *Scientific Reports*, **2015**, 5, 16263	4.9	21
60	Effective Energy Transfer via Plasmon-Activated High-Energy Water Promotes Its Fundamental Activities of Solubility, Ionic Conductivity, and Extraction at Room Temperature. *Scientific Reports*, **2015**, 5, 18152	4.9	12
59	Light-Induced In Situ Transformation of Metal Clusters to Metal Nanocrystals for Photocatalysis. *ACS Applied Materials & Interfaces*, **2015**, 7, 28105-9	9.5	47
58	Quantitative evaluation on activated property-tunable bulk liquid water with reduced hydrogen bonds using deconvoluted Raman spectroscopy. *Analytical Chemistry*, **2015**, 87, 808-15	7.8	18
57	Direct electron transfer of glucose oxidase and dual hydrogen peroxide and glucose detection based on water-dispersible carbon nanotubes derivative. *Analytica Chimica Acta*, **2015**, 867, 83-91	6.6	23
56	Innovative strategy with potential to increase hemodialysis efficiency and safety. *Scientific Reports*, **2014**, 4, 4425	4.9	28
55	Surfactant-assisted preparation of surface-enhanced Raman scattering-active substrates. *RSC Advances*, **2014**, 4, 10553	3.7	5
54	Stable quantum dot photoelectrolysis cell for unassisted visible light solar water splitting. *ACS Nano*, **2014**, 8, 10403-13	16.7	147
53	Active and stable liquid water innovatively prepared using resonantly illuminated gold nanoparticles. *ACS Nano*, **2014**, 8, 2704-13	16.7	35
52	Probing the spatial organization of bacteriochlorophyll C by solid-state nuclear magnetic resonance. *Biochemistry*, **2014**, 53, 5515-25	3.2	14
51	New sample preparation procedure for effective improvement on surface-enhanced Raman scattering effects. *Journal of Electroanalytical Chemistry*, **2014**, 724, 48-54	4.1	1
50	Quantum-Dot-Sensitized Nitrogen-Doped ZnO for Efficient Photoelectrochemical Water Splitting. *European Journal of Inorganic Chemistry*, **2014**, 2014, 773-779	2.3	28
49	More conductive polypyrrole electrodeposited on substrates with close-packed gold nanoparticles. *Journal of Electroanalytical Chemistry*, **2014**, 722-723, 83-89	4.1	3
48	Plasmon-enhanced near-infrared-active materials in photoelectrochemical water splitting. *Chemical Communications*, **2013**, 49, 7917-9	5.8	55
47	Large-scale synthesis of transition-metal-doped TiO2 nanowires with controllable overpotential. *Journal of the American Chemical Society*, **2013**, 135, 9995-8	16.4	289
46	Hydrogen Generation: Plasmonic ZnO/Ag Embedded Structures as Collecting Layers for Photogenerating Electrons in Solar Hydrogen Generation Photoelectrodes (Small 17/2013). *Small*, **2013**, 9, 2830-2830	11	
45	Targeting polymeric fluorescent nanodiamond-gold/silver multi-functional nanoparticles as a light-transforming hyperthermia reagent for cancer cells. *Nanoscale*, **2013**, 5, 3931-40	7.7	46
44	Plasmonic ZnO/Ag embedded structures as collecting layers for photogenerating electrons in solar hydrogen generation photoelectrodes. *Small*, **2013**, 9, 2926-36	11	72

43	A fully integrated nanosystem of semiconductor nanowires for direct solar water splitting. *Nano Letters*, **2013**, 13, 2989-92	11.5	453
42	Highly efficient urchin-like bimetallic nanoparticles for photothermal cancer therapy. *SPIE Newsroom*, **2013**,		4
41	ZnO nanorod optical disk photocatalytic reactor for photodegradation of methyl orange. *Optics Express*, **2013**, 21, 7240-9	3.3	32
40	Fast fabrication of a Ag nanostructure substrate using the femtosecond laser for broad-band and tunable plasmonic enhancement. *ACS Nano*, **2012**, 6, 5190-7	16.7	58
39	Plasmon inducing effects for enhanced photoelectrochemical water splitting: X-ray absorption approach to electronic structures. *ACS Nano*, **2012**, 6, 7362-72	16.7	283
38	Seedless, silver-induced synthesis of star-shaped gold/silver bimetallic nanoparticles as high efficiency photothermal therapy reagent. *Journal of Materials Chemistry*, **2012**, 22, 2244-2253		171
37	Nano-architecture and material designs for water splitting photoelectrodes. *Chemical Society Reviews*, **2012**, 41, 5654-71	58.5	429
36	Magnetically recyclable Fe@Co core-shell catalysts for dehydrogenation of sodium borohydride in fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 3338-3343	6.7	31
35	Ni@NiO Core□Shell Structure-Modified Nitrogen-Doped InTaO4 for Solar-Driven Highly Efficient CO2 Reduction to Methanol. *Journal of Physical Chemistry C*, **2011**, 115, 10180-10186	3.8	149
34	Architecture of Metallic Nanostructures: Synthesis Strategy and Specific Applications. *Journal of Physical Chemistry C*, **2011**, 115, 3513-3527	3.8	145
33	A novel CO-tolerant PtRu core□shell structured electrocatalyst with Ru rich in core and Pt rich in shell for hydrogen oxidation reaction and its implication in proton exchange membrane fuel cell. *Journal of Power Sources*, **2011**, 196, 9117-9123	8.9	38
32	Carbon incorporated FeN/C electrocatalyst for oxygen reduction enhancement in direct methanol fuel cells: X-ray absorption approach to local structures. *Electrochimica Acta*, **2011**, 56, 8734-8738	6.7	25
31	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. *Journal of Physical Chemistry C*, **2011**, 115, 21971-21980	3.8	61
30	A New Approach to Solar Hydrogen Production: a ZnO□ZnS Solid Solution Nanowire Array Photoanode. *Advanced Energy Materials*, **2011**, 1, 742-747	21.8	76
29	An alternative cobalt oxide-supported platinum catalyst for efficient hydrolysis of sodium borohydride. *Journal of Materials Chemistry*, **2011**, 21, 11754		32
28	Spectrally Precoded OFDM and OFDMA with Cyclic Prefix and Unconstrained Guard Ratios. *IEEE Transactions on Wireless Communications*, **2011**, 10, 1416-1427	9.6	26
27	Adaptive spectrally precoded OFDM with cyclic prefix **2010**,		1
26	Quantum dot monolayer sensitized ZnO nanowire-array photoelectrodes: true efficiency for water splitting. *Angewandte Chemie - International Edition*, **2010**, 49, 5966-9	16.4	233

25	Biosensing, Cytotoxicity, and Cellular Uptake Studies of Surface-Modified Gold Nanorods. *Journal of Physical Chemistry C*, **2009**, 113, 7574-7578	3.8	118
24	PdCFe Nanoparticles Investigated by X-ray Absorption Spectroscopy as Electrocatalysts for Oxygen Reduction. *Chemistry of Materials*, **2009**, 21, 4030-4036	9.6	27
23	Ferromagnetic CoPt3 nanowires: structural evolution from fcc to ordered L1(2). *Journal of the American Chemical Society*, **2009**, 131, 15794-801	16.4	34
22	A Versatile Route to the Controlled Synthesis of Gold Nanostructures. *Crystal Growth and Design*, **2009**, 9, 2079-2087	3.5	60
21	Investigation on mechanism of catalysis by Pt-LiCoO2 for hydrolysis of sodium borohydride using X-ray absorption. *Journal of Physical Chemistry B*, **2008**, 112, 4870-5	3.4	22
20	Hollow Platinum Spheres with Nano-Channels: Synthesis and Enhanced Catalysis for Oxygen Reduction. *Journal of Physical Chemistry C*, **2008**, 112, 7522-7526	3.8	208
19	One-dimensional Nanorods and Nanowires **2008**, 163-167		
18	Controlling Length of Gold Nanowires with Large-Scale: X-ray Absorption Spectroscopy Approaches to the Growth Process. *Journal of Physical Chemistry C*, **2007**, 111, 18550-18557	3.8	40
17	Controlling Optical Properties of Aluminum Oxide Using Electrochemical Deposition. *Journal of the Electrochemical Society*, **2007**, 154, K11	3.9	35
16	Synthesis and characterization of long gold nanorods. *IEEJ Transactions on Electrical and Electronic Engineering*, **2007**, 2, 468-472	1	1
15	Plasmonic optical properties of a single gold nano-rod. *Optics Express*, **2007**, 15, 7132-9	3.3	54
14	Synthesis and Characterization of Multi-Pod-Shaped Gold/Silver Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 5909-5914	3.8	66
13	Generating isotropic superparamagnetic interconnectivity for the two-dimensional organization of nanostructured building blocks. *Angewandte Chemie - International Edition*, **2006**, 45, 2713-7	16.4	48
12	Generating Isotropic Superparamagnetic Interconnectivity for the Two-Dimensional Organization of Nanostructured Building Blocks. *Angewandte Chemie*, **2006**, 118, 2779-2783	3.6	7
11	Fabrication of nanorattles with passive shell. *Journal of Physical Chemistry B*, **2006**, 110, 19162-7	3.4	34
10	Morphology and surface plasma changes of Au-Pt bimetallic nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1411-5	1.3	4
9	Controlling Length and Monitoring Growth of Gold Nanorods. *Journal of the Chinese Chemical Society*, **2006**, 53, 1343-1348	1.5	3
8	Local structural characterization of Au/Pt bimetallic nanoparticles. *Chemical Physics Letters*, **2006**, 420, 484-488	2.5	24

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7	Characterization of core–shell type and alloy Ag/Au bimetallic clusters by using extended X-ray absorption fine structure spectroscopy. *Chemical Physics Letters*, **2006**, 421, 118-123	2.5	84
6	Local structural characterization of gold nanowires using extended X-ray absorption fine structure spectroscopy. *Chemical Physics Letters*, **2006**, 428, 93-97	2.5	1
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