Geoffrey In Waterhouse

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Alkaliâ€Assisted Synthesis of Nitrogen Deficient Graphitic Carbon Nitride with Tunable Band Structures for Efficient Visibleâ€Lightâ€Driven Hydrogen Evolution. Advanced Materials, 2017, 29, 1605148.	21.0	1,616
2	The effect of gold loading and particle size on photocatalytic hydrogen production from ethanol over Au/TiO2 nanoparticles. Nature Chemistry, 2011, 3, 489-492.	13.6	1,090
3	Tuning Oxygen Vacancies in Ultrathin TiO ₂ Nanosheets to Boost Photocatalytic Nitrogen Fixation up to 700 nm. Advanced Materials, 2019, 31, e1806482.	21.0	732
4	Nitrogenâ€Doped Porous Carbon Nanosheets Templated from gâ€C ₃ N ₄ as Metalâ€Free Electrocatalysts for Efficient Oxygen Reduction Reaction. Advanced Materials, 2016, 28, 5080-5086.	21.0	718
5	Ni ₃ FeN Nanoparticles Derived from Ultrathin NiFe‣ayered Double Hydroxide Nanosheets: An Efficient Overall Water Splitting Electrocatalyst. Advanced Energy Materials, 2016, 6, 1502585.	19.5	668
6	Wellâ€Dispersed ZIFâ€Derived Co,Nâ€Coâ€doped Carbon Nanoframes through Mesoporousâ€Silicaâ€Protected Calcination as Efficient Oxygen Reduction Electrocatalysts. Advanced Materials, 2016, 28, 1668-1674.	21.0	663
7	Smart Utilization of Carbon Dots in Semiconductor Photocatalysis. Advanced Materials, 2016, 28, 9454-9477.	21.0	622
8	Defectâ€Rich Ultrathin ZnAl‣ayered Double Hydroxide Nanosheets for Efficient Photoreduction of CO ₂ to CO with Water. Advanced Materials, 2015, 27, 7824-7831.	21.0	608
9	Ultrafine NiO Nanosheets Stabilized by TiO ₂ from Monolayer NiTi-LDH Precursors: An Active Water Oxidation Electrocatalyst. Journal of the American Chemical Society, 2016, 138, 6517-6524.	13.7	597
10	Precursor-reforming protocol to 3D mesoporous g-C 3 N 4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. Nano Energy, 2017, 38, 72-81.	16.0	596
11	Defectâ€Engineered Ultrathin δâ€MnO ₂ Nanosheet Arrays as Bifunctional Electrodes for Efficient Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1700005.	19.5	553
12	Layeredâ€Doubleâ€Hydroxide Nanosheets as Efficient Visibleâ€Lightâ€Driven Photocatalysts for Dinitrogen Fixation. Advanced Materials, 2017, 29, 1703828.	21.0	524
13	A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts. Nature Communications, 2019, 10, 4585.	12.8	441
14	NiFe Layered Double Hydroxide Nanoparticles on Co,N odoped Carbon Nanoframes as Efficient Bifunctional Catalysts for Rechargeable Zinc–Air Batteries. Advanced Energy Materials, 2017, 7, 1700467.	19.5	422
15	The thermal decomposition of silver (I, III) oxide: A combined XRD, FT-IR and Raman spectroscopic study. Physical Chemistry Chemical Physics, 2001, 3, 3838-3845.	2.8	392
16	Layered Double Hydroxide Nanostructured Photocatalysts for Renewable Energy Production. Advanced Energy Materials, 2016, 6, 1501974.	19.5	389
17	Ammonia Detection Methods in Photocatalytic and Electrocatalytic Experiments: How to Improve the Reliability of NH ₃ Production Rates?. Advanced Science, 2019, 6, 1802109.	11.2	379
18	A Simple Synthetic Strategy toward Defectâ€Rich Porous Monolayer NiFe‣ayered Double Hydroxide Nanosheets for Efficient Electrocatalytic Water Oxidation. Advanced Energy Materials, 2019, 9, 1900881.	19.5	363

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19	Two-dimensional-related catalytic materials for solar-driven conversion of CO _x into valuable chemical feedstocks. Chemical Society Reviews, 2019, 48, 1972-2010.	38.1	350
20	MILâ€101â€Derived Mesoporous Carbon Supporting Highly Exposed Fe Singleâ€Atom Sites as Efficient Oxygen Reduction Reaction Catalysts. Advanced Materials, 2021, 33, e2101038.	21.0	327
21	Selfâ€Assembled Au/CdSe Nanocrystal Clusters for Plasmonâ€Mediated Photocatalytic Hydrogen Evolution. Advanced Materials, 2017, 29, 1700803.	21.0	311
22	Aluminaâ€5upported CoFe Alloy Catalysts Derived from Layeredâ€Doubleâ€Hydroxide Nanosheets for Efficient Photothermal CO ₂ Hydrogenation to Hydrocarbons. Advanced Materials, 2018, 30, 1704663.	21.0	309
23	A General Thermolabile Protecting Group Strategy for Organocatalytic Metalâ`'Organic Frameworks. Journal of the American Chemical Society, 2011, 133, 5806-5809.	13.7	307
24	The roles of metal co-catalysts and reaction media in photocatalytic hydrogen production: Performance evaluation of M/TiO2 photocatalysts (M = Pd, Pt, Au) in different alcohol–water mixtures. Journal of Catalysis, 2015, 329, 355-367.	6.2	307
25	Efficient wettability-controlled electroreduction of CO2 to CO at Au/C interfaces. Nature Communications, 2020, 11, 3028.	12.8	294
26	Defect Engineering in Photocatalytic Nitrogen Fixation. ACS Catalysis, 2019, 9, 9739-9750.	11.2	286
27	From Solar Energy to Fuels: Recent Advances in Lightâ€Driven C ₁ Chemistry. Angewandte Chemie - International Edition, 2019, 58, 17528-17551.	13.8	285
28	Effect of alkali treatment on interfacial bonding in abaca fiber-reinforced composites. Composites Part A: Applied Science and Manufacturing, 2016, 90, 589-597.	7.6	278
29	Subâ€3 nm Ultrafine Monolayer Layered Double Hydroxide Nanosheets for Electrochemical Water Oxidation. Advanced Energy Materials, 2018, 8, 1703585.	19.5	274
30	Metal–Organicâ€Frameworkâ€Derived Mesoporous Carbon Nanospheres Containing Porphyrin‣ike Metal Centers for Conformal Phototherapy. Advanced Materials, 2016, 28, 8379-8387.	21.0	264
31	Intrinsic Carbonâ€Defectâ€Driven Electrocatalytic Reduction of Carbon Dioxide. Advanced Materials, 2019, 31, e1808276.	21.0	263
32	Photocatalytic CO ₂ Reduction to CO over Ni Single Atoms Supported on Defectâ€Rich Zirconia. Advanced Energy Materials, 2020, 10, 2002928.	19.5	263
33	Pd Singleâ€Atom Catalysts on Nitrogenâ€Doped Graphene for the Highly Selective Photothermal Hydrogenation of Acetylene to Ethylene. Advanced Materials, 2019, 31, e1900509.	21.0	262
34	Opal and inverse opal photonic crystals: Fabrication and characterization. Polyhedron, 2007, 26, 356-368.	2.2	260
35	Atomic Cationâ€Vacancy Engineering of NiFe‣ayered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 24612-24619.	13.8	259
36	Exploiting Ruâ€Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. Angewandte Chemie - International Edition, 2021, 60, 3290-3298.	13.8	254

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37	CdS Nanoparticleâ€Decorated Cd Nanosheets for Efficient Visible Lightâ€Driven Photocatalytic Hydrogen Evolution. Advanced Energy Materials, 2016, 6, 1501241.	19.5	253
38	Two-dimensional photocatalyst design: A critical review of recent experimental and computational advances. Materials Today, 2020, 34, 78-91.	14.2	253
39	Oxidation of a polycrystalline silver foil by reaction with ozone. Applied Surface Science, 2001, 183, 191-204.	6.1	238
40	Catalytically Active Bimetallic Nanoparticles Supported on Porous Carbon Capsules Derived From Metal–Organic Framework Composites. Journal of the American Chemical Society, 2016, 138, 11872-11881.	13.7	237
41	Recent Progress in Photocatalytic CO ₂ Reduction Over Perovskite Oxides. Solar Rrl, 2017, 1, 1700126.	5.8	224
42	Highâ€Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Singleâ€Atom Catalysts with Tetradentate N ₂ O ₂ Coordination in a Threeâ€Phase Flow Cell. Angewandte Chemie - International Edition, 2020, 59, 13057-13062.	13.8	222
43	Selective photocatalytic CO2 reduction over Zn-based layered double hydroxides containing tri or tetravalent metals. Science Bulletin, 2020, 65, 987-994.	9.0	205
44	Photocatalytic ammonia synthesis: Recent progress and future. EnergyChem, 2019, 1, 100013.	19.1	204
45	Application of FT-IR and Raman spectroscopy for the study of biopolymers in breads fortified with fibre and polyphenols. Food Research International, 2013, 50, 574-585.	6.2	192
46	Supramolecular precursor strategy for the synthesis of holey graphitic carbon nitride nanotubes with enhanced photocatalytic hydrogen evolution performance. Nano Research, 2019, 12, 2385-2389.	10.4	192
47	Effect of gold loading and TiO2 support composition on the activity of Au/TiO2 photocatalysts for H2 production from ethanol–water mixtures. Journal of Catalysis, 2013, 305, 307-317.	6.2	189
48	Exploiting Ruâ€Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. Angewandte Chemie, 2021, 133, 3327-3335.	2.0	189
49	Alkali Etching of Layered Double Hydroxide Nanosheets for Enhanced Photocatalytic N ₂ Reduction to NH ₃ . Advanced Energy Materials, 2020, 10, 2002199.	19.5	185
50	Functionalized Iron–Nitrogen–Carbon Electrocatalyst Provides a Reversible Electron Transfer Platform for Efficient Uranium Extraction from Seawater. Advanced Materials, 2021, 33, e2106621.	21.0	184
51	Recent Advances in the Development of Singleâ€Atom Catalysts for Oxygen Electrocatalysis and Zinc–Air Batteries. Advanced Energy Materials, 2020, 10, 2003018.	19.5	181
52	Influence of alkali treatment on internal microstructure and tensile properties of abaca fibers. Industrial Crops and Products, 2015, 65, 27-35.	5.2	177
53	Efficient Photocatalytic Nitrogen Fixation over Cu <i>^δ</i> ⁺ â€Modified Defective ZnAl‣ayered Double Hydroxide Nanosheets. Advanced Energy Materials, 2020, 10, 1901973.	19.5	173
54	Multishelled Niâ€Rich Li(Ni <i>_x</i> Co <i>_y</i> Mn <i>_z</i>)O ₂ Hollow Fibers with Low Cation Mixing as Highâ€Performance Cathode Materials for Liâ€Ion Batteries. Advanced Science, 2017, 4, 1600262.	11.2	172

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55	Fermentation-enabled wellness foods: A fresh perspective. Food Science and Human Wellness, 2019, 8, 203-243.	4.9	172
56	Effect of Nitrogen Doping Level on the Performance of Nâ€Đoped Carbon Quantum Dot/TiO ₂ Composites for Photocatalytic Hydrogen Evolution. ChemSusChem, 2017, 10, 4650-4656.	6.8	171
57	Mesoporeâ€Rich Fe–N–C Catalyst with FeN ₄ –O–NC Singleâ€Atom Sites Delivers Remarkab Oxygen Reduction Reaction Performance in Alkaline Media. Advanced Materials, 2022, 34, e2202544.	le 21.0	168
58	Ni/TiO2: A promising low-cost photocatalytic system for solar H2 production from ethanol–water mixtures. Journal of Catalysis, 2015, 326, 43-53.	6.2	162
59	Molten NaClâ€Assisted Synthesis of Porous Feâ€N Electrocatalysts with a High Density of Catalytically Accessible FeN ₄ ÂActive Sites and Outstanding Oxygen Reduction Reaction Performance. Advanced Energy Materials, 2021, 11, 2100219.	19.5	160
60	Composition changes around sulphide inclusions in stainless steels, and implications for the initiation of pitting corrosion. Corrosion Science, 2010, 52, 3702-3716.	6.6	158
61	3D carbon nanoframe scaffold-immobilized Ni3FeN nanoparticle electrocatalysts for rechargeable zinc-air batteries' cathodes. Nano Energy, 2017, 40, 382-389.	16.0	153
62	Electrocatalytic Oxygen Reduction to Hydrogen Peroxide: From Homogeneous to Heterogeneous Electrocatalysis. Advanced Energy Materials, 2021, 11, 2003323.	19.5	150
63	Underwater superaerophobic Ni nanoparticle-decorated nickel–molybdenum nitride nanowire arrays for hydrogen evolution in neutral media. Nano Energy, 2020, 78, 105375.	16.0	148
64	Effect of TiO2 polymorph and alcohol sacrificial agent on the activity of Au/TiO2 photocatalysts for H2 production in alcohol–water mixtures. Journal of Catalysis, 2015, 329, 499-513.	6.2	142
65	Coâ€Based Catalysts Derived from Layeredâ€Đoubleâ€Hydroxide Nanosheets for the Photothermal Production of Light Olefins. Advanced Materials, 2018, 30, e1800527.	21.0	139
66	Subâ€3 nm Ultrafine Cu ₂ O for Visible Light Driven Nitrogen Fixation. Angewandte Chemie - International Edition, 2021, 60, 2554-2560.	13.8	134
67	Exploring the interactions between blackcurrant polyphenols, pectin and wheat biopolymers in model breads; a FTIR and HPLC investigation. Food Chemistry, 2012, 131, 802-810.	8.2	132
68	The role of CuO in promoting photocatalytic hydrogen production over TiO2. International Journal of Hydrogen Energy, 2013, 38, 15036-15048.	7.1	129
69	The Journey toward Low Temperature, Low Pressure Catalytic Nitrogen Fixation. Advanced Energy Materials, 2020, 10, 2000659.	19.5	127
70	Black phosphorus quantum dot/g-C3N4 composites for enhanced CO2 photoreduction to CO. Science China Materials, 2018, 61, 1159-1166.	6.3	126
71	Nucleation and Growth of Fe Nanoparticles in SiO ₂ : A TEM, XPS, and Fe L-Edge XANES Investigation. Journal of Physical Chemistry C, 2011, 115, 20978-20985.	3.1	122
72	Room-temperature electrochemical acetylene reduction to ethylene with high conversion and selectivity. Nature Catalysis, 2021, 4, 565-574.	34.4	121

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73	Transforming insect biomass into consumer wellness foods: A review. Food Research International, 2016, 89, 129-151.	6.2	117
74	Ultrasmall Au nanoclusters for biomedical and biosensing applications: A mini-review. Talanta, 2019, 200, 432-442.	5.5	117
75	On the role of metal particle size and surface coverage for photo-catalytic hydrogen production: A case study of the Au/CdS system. Applied Catalysis B: Environmental, 2016, 182, 266-276.	20.2	115
76	Evolution of Zn(II) single atom catalyst sites during the pyrolysis-induced transformation of ZIF-8 to N-doped carbons. Science Bulletin, 2020, 65, 1743-1751.	9.0	115
77	Tubular assemblies of N-doped carbon nanotubes loaded with NiFe alloy nanoparticles as efficient bifunctional catalysts for rechargeable zinc-air batteries. Nanoscale, 2020, 12, 13129-13136.	5.6	110
78	Large-scale synthesis of N-doped carbon capsules supporting atomically dispersed iron for efficient oxygen reduction reaction electrocatalysis. EScience, 2022, 2, 227-234.	41.6	108
79	Photoelectrochemical biosensor for microRNA detection based on a MoS2/g-C3N4/black TiO2 heterojunction with Histostar@AuNPs for signal amplification. Biosensors and Bioelectronics, 2019, 128, 137-143.	10.1	107
80	Tunable Synthesis of Hollow Metal–Nitrogen–Carbon Capsules for Efficient Oxygen Reduction Catalysis in Proton Exchange Membrane Fuel Cells. ACS Nano, 2019, 13, 8087-8098.	14.6	106
81	Oxygen chemisorption on an electrolytic silver catalyst: a combined TPD and Raman spectroscopic study. Applied Surface Science, 2003, 214, 36-51.	6.1	105
82	Exploiting Single Atom Iron Centers in a Porphyrin-like MOF for Efficient Cancer Phototherapy. ACS Applied Materials & Interfaces, 2019, 11, 35228-35237.	8.0	105
83	Hydrogen production by Tuning the Photonic Band Gap with the Electronic Band Gap of TiO2. Scientific Reports, 2013, 3, 2849.	3.3	102
84	Activating Metal Oxides Nanocatalysts for Electrocatalytic Water Oxidation by Quenching-Induced Near-Surface Metal Atom Functionality. Journal of the American Chemical Society, 2021, 143, 14169-14177.	13.7	101
85	High surface area polypyrrole scaffolds for tunable drug delivery. International Journal of Pharmaceutics, 2013, 443, 163-168.	5.2	100
86	Reductive Transformation of Layeredâ€Doubleâ€Hydroxide Nanosheets to Feâ€Based Heterostructures for Efficient Visibleâ€Light Photocatalytic Hydrogenation of CO. Advanced Materials, 2018, 30, e1803127.	21.0	100
87	Optimizing interfacial adhesion in PBAT/PLA nanocomposite for biodegradable packaging films. Food Chemistry, 2021, 334, 127487.	8.2	99
88	Performance comparison of Ni/TiO2 and Au/TiO2 photocatalysts for H2 production in different alcohol-water mixtures. Journal of Catalysis, 2018, 367, 27-42.	6.2	97
89	Highly Efficient Electrocatalytic Uranium Extraction from Seawater over an Amidoximeâ€Functionalized In–N–C Catalyst. Advanced Science, 2022, 9, .	11.2	97
90	Physical and Optical Properties of Inverse Opal CeO ₂ Photonic Crystals. Chemistry of Materials, 2008, 20, 1183-1190.	6.7	96

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91	Defective Porous Carbon Polyhedra Decorated with Copper Nanoparticles for Enhanced NIRâ€Driven Photothermal Cancer Therapy. Small, 2020, 16, e1905184.	10.0	95
92	Physicochemical Properties of Bread Dough and Finished Bread with Added Pectin Fiber and Phenolic Antioxidants. Journal of Food Science, 2011, 76, H97-H107.	3.1	92
93	Feâ€Based Catalysts for the Direct Photohydrogenation of CO ₂ to Valueâ€Added Hydrocarbons. Advanced Energy Materials, 2021, 11, 2002783.	19.5	90
94	Spray-Drying Microencapsulation of Polyphenol Bioactives: A Comparative Study Using Different Natural Fibre Polymers as Encapsulants. Food and Bioprocess Technology, 2013, 6, 2376-2388.	4.7	89
95	Photoreaction of ethanol on Au/TiO2 anatase: Comparing the micro to nanoparticle size activities of the support for hydrogen production. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 216, 250-255.	3.9	87
96	Protein Modification During Ingredient Preparation and Food Processing: Approaches to Improve Food Processability and Nutrition. Food and Bioprocess Technology, 2014, 7, 1853-1893.	4.7	86
97	Identification of post-digestion angiotensin-I converting enzyme (ACE) inhibitory peptides from soybean protein Isolate: Their production conditions and in silico molecular docking with ACE. Food Chemistry, 2021, 345, 128855.	8.2	86
98	Novel Au/TiO2 photocatalysts for hydrogen production in alcohol–water mixtures based on hydrogen titanate nanotube precursors. Journal of Catalysis, 2015, 330, 238-254.	6.2	85
99	"Naked―Magnetically Recyclable Mesoporous Au–γâ€Fe ₂ O ₃ Nanocrystal Clusters: A Highly Integrated Catalyst System. Advanced Functional Materials, 2017, 27, 1606215.	14.9	85
100	Engineering local coordination environments and site densities for highâ€performance Feâ€Nâ€C oxygen reduction reaction electrocatalysis. SmartMat, 2021, 2, 154-175.	10.7	81
101	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. Advanced Energy Materials, 2022, 12, .	19.5	81
102	A selective molecularly imprinted electrochemical sensor with GO@COF signal amplification for the simultaneous determination of sulfadiazine and acetaminophen. Sensors and Actuators B: Chemical, 2019, 300, 126993.	7.8	79
103	Ultrafine monolayer Co-containing layered double hydroxide nanosheets for water oxidation. Journal of Energy Chemistry, 2019, 34, 57-63.	12.9	78
104	Epitaxially Grown Heterostructured SrMn ₃ O _{6â^'<i>x</i>} â€&rMnO ₃ with Highâ€Valence Mn ^{3+/4+} for Improved Oxygen Reduction Catalysis. Angewandte Chemie - International Edition, 2021, 60, 22043-22050.	13.8	78
105	Photolabile protecting groups in metal–organic frameworks: preventing interpenetration and masking functional groups. Chemical Communications, 2012, 48, 1574-1576.	4.1	77
106	FeO–CeO2 nanocomposites: an efficient and highly selective catalyst system for photothermal CO2 reduction to CO. NPG Asia Materials, 2020, 12, .	7.9	76
107	Structural and Electronic Engineering of Ir-Doped Ni-(Oxy)hydroxide Nanosheets for Enhanced Oxygen Evolution Activity. ACS Catalysis, 2021, 11, 5386-5395.	11.2	75
108	Enhancing the performance of konjac glucomannan films through incorporating zein–pectin nanoparticle-stabilized oregano essential oil Pickering emulsions. Food Hydrocolloids, 2022, 124, 107222.	10.7	75

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109	Three-dimensional electrochemical sensor with covalent organic framework decorated carbon nanotubes signal amplification for the detection of furazolidone. Sensors and Actuators B: Chemical, 2020, 321, 128501.	7.8	73
110	Co-extrusion encapsulation of canola oil with alginate: Effect of quercetin addition to oil core and pectin addition to alginate shell on oil stability. Food Research International, 2013, 54, 837-851.	6.2	71
111	Visual and ratiometric fluorescence detection of Hg2+ based on a dual-emission carbon dots-gold nanoclusters nanohybrid. Sensors and Actuators B: Chemical, 2018, 259, 1082-1089.	7.8	69
112	Photothermal hydrocarbon synthesis using alumina-supported cobalt metal nanoparticle catalysts derived from layered-double-hydroxide nanosheets. Nano Energy, 2019, 60, 467-475.	16.0	67
113	Photocatalytic H2 Production from Ethanol–Water Mixtures Over Pt/TiO2 and Au/TiO2 Photocatalysts: A Comparative Study. Topics in Catalysis, 2013, 56, 1139-1151.	2.8	66
114	General Synthetic Strategy for Libraries of Supported Multicomponent Metal Nanoparticles. ACS Nano, 2018, 12, 4594-4604.	14.6	66
115	Silicaâ€Protected Ultrathin Ni ₃ FeN Nanocatalyst for the Efficient Hydrolytic Dehydrogenation of NH ₃ BH ₃ . Advanced Energy Materials, 2018, 8, 1702780.	19.5	66
116	In vivo anti-hyperuricemic and xanthine oxidase inhibitory properties of tuna protein hydrolysates and its isolated fractions. Food Chemistry, 2019, 272, 453-461.	8.2	66
117	Central metal and ligand effects on oxygen electrocatalysis over 3d transition metal single-atom catalysts: A theoretical investigation. Chemical Engineering Journal, 2022, 427, 132038.	12.7	65
118	Mechanism and active sites for the partial oxidation of methanol to formaldehyde over an electrolytic silver catalyst. Applied Catalysis A: General, 2004, 265, 85-101.	4.3	64
119	Polarity effects in the x-ray photoemission of ZnO and other wurtzite semiconductors. Applied Physics Letters, 2011, 98, .	3.3	64
120	Novel three-dimensional electrochemical sensor with dual signal amplification based on MoS2 nanosheets and high-conductive NH2-MWCNT@COF for sulfamerazine determination. Sensors and Actuators B: Chemical, 2019, 281, 107-114.	7.8	63
121	The reactions of water vapour on the surfaces of stoichiometric and reduced uranium dioxide: A high resolution XPS study. Catalysis Today, 2007, 120, 151-157.	4.4	62
122	Effect of adding elderberry juice concentrate on the quality attributes, polyphenol contents and antioxidant activity of three fibre-enriched pastas. Food Research International, 2013, 54, 781-789.	6.2	60
123	Evolution of thiolate-stabilized Ag nanoclusters from Ag-thiolate cluster intermediates. Nature Communications, 2018, 9, 2379.	12.8	60
124	A novel photoelectrochemical biosensor for the sensitive detection of dual microRNAs using molybdenum carbide nanotubes as nanocarriers and energy transfer between CQDs and AuNPs. Chemical Engineering Journal, 2019, 365, 351-357.	12.7	57
125	Recent advances in niobium-based semiconductors for solar hydrogen production. Coordination Chemistry Reviews, 2020, 419, 213399.	18.8	57
126	Manganese Oxide Modified Nickel Catalysts for Photothermal CO Hydrogenation to Light Olefins. Advanced Energy Materials, 2020, 10, 1902860.	19.5	56

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127	Porous Fe3O4/C microspheres for efficient broadband electromagnetic wave absorption. Ceramics International, 2018, 44, 19171-19183.	4.8	55
128	Effects of added fruit polyphenols and pectin on the properties of finished breads revealed by HPLC/LC-MS and Size-Exclusion HPLC. Food Research International, 2011, 44, 3047-3056.	6.2	54
129	The reactions of ethanol on TiO2 and Au/TiO2 anatase catalysts. Catalysis Today, 2012, 182, 16-24.	4.4	54
130	Highly efficient electrocatalytic hydrogen evolution promoted by O–Mo–C interfaces of ultrafine β-Mo ₂ C nanostructures. Chemical Science, 2020, 11, 3523-3530.	7.4	54
131	Spray-Drying of Green or Gold Kiwifruit Juice–Milk Mixtures; Novel Formulations and Processes to Retain Natural Fruit Colour and Antioxidants. Food and Bioprocess Technology, 2015, 8, 191-207.	4.7	53
132	Photoelectrochemical biosensor for hydroxymethylated DNA detection and T4-β-glucosyltransferase activity assay based on WS2 nanosheets and carbon dots. Biosensors and Bioelectronics, 2019, 127, 38-44.	10.1	52
133	Metal Particle Size Effects on the Photocatalytic Hydrogen Ion Reduction. ACS Catalysis, 2019, 9, 3946-3958.	11.2	51
134	Electro-responsive macroporous polypyrrole scaffolds for triggered dexamethasone delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 419-426.	4.3	49
135	A novel electrochemiluminescence biosensor for the detection of 5-methylcytosine, TET 1 protein and β-glucosyltransferase activities based on gold nanoclusters-H2O2 system. Sensors and Actuators B: Chemical, 2018, 274, 144-151.	7.8	49
136	Hollow PtFe Alloy Nanoparticles Derived from Ptâ€Fe ₃ O ₄ Dimers through a Silicaâ€Protection Reduction Strategy as Efficient Oxygen Reduction Electrocatalysts. Chemistry - A European Journal, 2020, 26, 4090-4096.	3.3	49
137	A highly sensitive electrochemical sensor containing nitrogen-doped ordered mesoporous carbon (NOMC) for voltammetric determination of l-tryptophan. Food Chemistry, 2020, 326, 126976.	8.2	49
138	Photoelectrochemical biosensor for 5hmC detection based on the photocurrent inhibition effect of ZnO on MoS2/C3N4 heterojunction. Biosensors and Bioelectronics, 2019, 142, 111516.	10.1	48
139	Interaction of a polycrystalline silver powder with ozone. Surface and Interface Analysis, 2002, 33, 401-409.	1.8	47
140	Synthesis, vibrational spectra and thermal stability of Ag3O4 and related Ag7O8X salts. Polyhedron, 2007, 26, 3310-3322.	2.2	47
141	Copper(<scp>i</scp>) cysteine complexes: efficient earth-abundant oxidation co-catalysts for visible light-driven photocatalytic H ₂ production. Chemical Communications, 2015, 51, 12556-12559.	4.1	47
142	Vacancy-enhanced generation of singlet oxygen for photodynamic therapy. Chemical Science, 2019, 10, 2336-2341.	7.4	47
143	600 nm Irradiation-Induced Efficient Photocatalytic CO ₂ Reduction by Ultrathin Layered Double Hydroxide Nanosheets. Industrial & Engineering Chemistry Research, 2020, 59, 5848-5857.	3.7	47
144	Influence of catalyst morphology on the performance of electrolytic silver catalysts for the partial oxidation of methanol to formaldehyde. Applied Catalysis A: General, 2004, 266, 257-273.	4.3	46

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145	Assessing the role of silicate polymerization on metal oxyhydroxide surfaces using X-ray photoelectron spectroscopy. Chemical Geology, 2011, 285, 62-69.	3.3	46
146	Complex alloy nanostructures as advanced catalysts for oxygen electrocatalysis: from materials design to applications. Journal of Materials Chemistry A, 2020, 8, 23142-23161.	10.3	46
147	A nanostructural basis for gloss of avian eggshells. Journal of the Royal Society Interface, 2015, 12, 20141210.	3.4	45
148	Hierarchical TiO ₂ Nanoflower Photocatalysts with Remarkable Activity for Aqueous Methylene Blue Photo-Oxidation. ACS Omega, 2020, 5, 18919-18934.	3.5	45
149	Photosensitive drug delivery systems for cancer therapy: Mechanisms and applications. Journal of Controlled Release, 2021, 338, 446-461.	9.9	45
150	Carbon Nanosheets: Nitrogenâ€Doped Porous Carbon Nanosheets Templated from gâ€C ₃ N ₄ as Metalâ€Free Electrocatalysts for Efficient Oxygen Reduction Reaction (Adv. Mater. 25/2016). Advanced Materials, 2016, 28, 5140-5140.	21.0	44
151	Dual-signal amplified photoelectrochemical biosensor for detection of N6-methyladenosine based on BiVO4-110-TiO2 heterojunction, Ag+-mediated cytosine pairs. Biosensors and Bioelectronics, 2018, 108, 89-96.	10.1	44
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