

Rose Amal

List of Publications by Year in descending order

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papers

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2101

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506
times ranked

35854
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Graphene Oxide as a Solid-State Electron Mediator in Z-Scheme Photocatalytic Water Splitting under Visible Light. <i>Journal of the American Chemical Society</i> , 2011, 133, 11054-11057.	13.7	952
2	Reducing Graphene Oxide on a Visible-Light BiVO ₄ Photocatalyst for an Enhanced Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2607-2612.	4.6	825
3	Industrial carbon dioxide capture and utilization: state of the art and future challenges. <i>Chemical Society Reviews</i> , 2020, 49, 8584-8686.	38.1	610
4	Surface strategies for catalytic CO ₂ reduction: from two-dimensional materials to nanoclusters to single atoms. <i>Chemical Society Reviews</i> , 2019, 48, 5310-5349.	38.1	607
5	Hybrid Graphene and Graphitic Carbon Nitride Nanocomposite: Gap Opening, Electronâ€“Hole Puddle, Interfacial Charge Transfer, and Enhanced Visible Light Response. <i>Journal of the American Chemical Society</i> , 2012, 134, 4393-4397.	13.7	565
6	Flame spray pyrolysis: An enabling technology for nanoparticles design and fabrication. <i>Nanoscale</i> , 2010, 2, 1324.	5.6	558
7	Novel Photocatalyst:Â Titania-Coated Magnetite. Activity and Photodissolution. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4387-4396.	2.6	492
8	Z-Schematic Water Splitting into H ₂ and O ₂ Using Metal Sulfide as a Hydrogen-Evolving Photocatalyst and Reduced Graphene Oxide as a Solid-State Electron Mediator. <i>Journal of the American Chemical Society</i> , 2015, 137, 604-607.	13.7	467
9	Water Splitting and CO ₂ Reduction under Visible Light Irradiation Using Z-Scheme Systems Consisting of Metal Sulfides, CoOx-Loaded BiVO ₄ , and a Reduced Graphene Oxide Electron Mediator. <i>Journal of the American Chemical Society</i> , 2016, 138, 10260-10264.	13.7	461
10	On techniques for the measurement of the mass fractal dimension of aggregates. <i>Advances in Colloid and Interface Science</i> , 2002, 95, 1-50.	14.7	403
11	Understanding the Enhancement in Photoelectrochemical Properties of Photocatalytically Prepared TiO ₂ -Reduced Graphene Oxide Composite. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6004-6009.	3.1	403
12	Progress in Heterogeneous Photocatalysis: From Classical Radical Chemistry to Engineering Nanomaterials and Solar Reactors. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 629-639.	4.6	403
13	Alternative strategies in improving the photocatalytic and photoelectrochemical activities of visible light-driven BiVO ₄ : a review. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16498-16521.	10.3	364
14	Photocatalytic H ₂ Evolution over TiO ₂ Nanoparticles. The Synergistic Effect of Anatase and Rutile. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2821-2829.	3.1	335
15	Photocatalytic oxidation of organics in water using pure and silver-modified titanium dioxide particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 148, 233-245.	3.9	311
16	Cytotoxic Origin of Copper(II) Oxide Nanoparticles: Comparative Studies with Micron-Sized Particles, Leachate, and Metal Salts. <i>ACS Nano</i> , 2011, 5, 7214-7225.	14.6	309
17	Understanding, Monitoring, and Controlling Biofilm Growth in Drinking Water Distribution Systems. <i>Environmental Science & Technology</i> , 2016, 50, 8954-8976.	10.0	302
18	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013, 6, 1074.	30.8	284

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19	Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. <i>Advanced Materials</i> , 2019, 31, e1801526.	21.0	273
20	Recent advances in ordered meso/macroporous metal oxides for heterogeneous catalysis: a review. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8825-8846.	10.3	263
21	Fabrication and Dispersion of Gold-Shell-Protected Magnetite Nanoparticles: Systematic Control Using Polyethyleneimine. <i>Chemistry of Materials</i> , 2009, 21, 673-681.	6.7	253
22	Hybrid Graphene/Titania Nanocomposite: Interface Charge Transfer, Hole Doping, and Sensitization for Visible Light Response. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 894-899.	4.6	252
23	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. <i>Energy and Environmental Science</i> , 2021, 14, 1854-1896.	30.8	252
24	Carbon-Based Metal-Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. <i>Advanced Materials</i> , 2019, 31, e1805367.	21.0	247
25	Effect of shear schedule on particle size, density, and structure during flocculation in stirred tanks. <i>Powder Technology</i> , 1998, 97, 26-34.	4.2	245
26	BiVO ₄ {010} and {110} Relative Exposure Extent: Governing Factor of Surface Charge Population and Photocatalytic Activity. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1400-1405.	4.6	231
27	Harnessing the interplay of Fe-Ni atom pairs embedded in nitrogen-doped carbon for bifunctional oxygen electrocatalysis. <i>Nano Energy</i> , 2020, 71, 104597.	16.0	231
28	In Situ Growth of a ZnO Nanowire Network within a TiO ₂ Nanoparticle Film for Enhanced Dye-Sensitized Solar Cell Performance. <i>Advanced Materials</i> , 2012, 24, 5850-5856.	21.0	218
29	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. <i>Advanced Materials</i> , 2020, 32, e1904717.	21.0	213
30	Nanoparticle-protein corona complexes govern the biological fates and functions of nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2060.	5.8	211
31	Heteroatom-doped carbon catalysts for zinc-air batteries: progress, mechanism, and opportunities. <i>Energy and Environmental Science</i> , 2020, 13, 4536-4563.	30.8	209
32	Epitaxial Growth of Au-Pt-Ni Nanorods for Direct High Selectivity H ₂ O ₂ Production. <i>Advanced Materials</i> , 2016, 28, 9949-9955.	21.0	205
33	Direct insights into the role of epoxy groups on cobalt sites for acidic H ₂ O ₂ production. <i>Nature Communications</i> , 2020, 11, 4181.	12.8	204
34	Hybrid PV/T enhancement using selectively absorbing Ag-SiO ₂ /carbon nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 281-287.	6.2	203
35	Electronic Structure Engineering of Single-Atom Ru Sites via Co-N ₄ Sites for Bifunctional pH-Universal Water Splitting. <i>Advanced Materials</i> , 2022, 34, e2110103.	21.0	199
36	A sea-change: manganese doped nickel/nickel oxide electrocatalysts for hydrogen generation from seawater. <i>Energy and Environmental Science</i> , 2018, 11, 1898-1910.	30.8	192

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37	Effects of organic hole scavengers on the photocatalytic reduction of selenium anions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 159, 273-280.	3.9	189
38	Synthesis of Porous and Visible-Light Absorbing Bi ₂ WO ₆ /TiO ₂ Heterojunction Films with Improved Photoelectrochemical and Photocatalytic Performances. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7419-7428.	3.1	186
39	Efficient Water Splitting Catalyzed by Cobalt Phosphide-Based Nanoneedle Arrays Supported on Carbon Cloth. <i>ChemSusChem</i> , 2016, 9, 472-477.	6.8	185
40	Flame sprayed visible light-active Fe-TiO ₂ for photomineralisation of oxalic acid. <i>Catalysis Today</i> , 2007, 120, 203-213.	4.4	183
41	Occurrence and prevention of photodissolution at the phase junction of magnetite and titanium dioxide. <i>Journal of Molecular Catalysis A</i> , 2002, 180, 193-200.	4.8	178
42	Photocorrosion of Cuprous Oxide in Hydrogen Production: Rationalising Self-Oxidation or Self-Reduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13613-13617.	13.8	177
43	Direct (one-step) synthesis of Si ₃ O ₄ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10846-10851.	3.8	175
44	Dots versus Antidots: Computational Exploration of Structure, Magnetism, and Half-Metallicity in Boron Nitride Nanostructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 17354-17359.	13.7	174
45	TiO ₂ /porous adsorbents: Recent advances and novel applications. <i>Journal of Hazardous Materials</i> , 2018, 341, 404-423.	12.4	173
46	Semiconductor/reduced graphene oxide nanocomposites derived from photocatalytic reactions. <i>Catalysis Today</i> , 2011, 164, 353-357.	4.4	167
47	Sustained solar hydrogen generation using a dye-sensitised NiO photocathode/BiVO ₄ tandem photo-electrochemical device. <i>Energy and Environmental Science</i> , 2012, 5, 9472.	30.8	167
48	A hybrid plasma electrocatalytic process for sustainable ammonia production. <i>Energy and Environmental Science</i> , 2021, 14, 865-872.	30.8	164
49	Improving the photo-oxidative capability of BiOBr via crystal facet engineering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8117-8124.	10.3	163
50	Evidence of Shear Rate Dependence on Restructuring and Breakup of Latex Aggregates. <i>Journal of Colloid and Interface Science</i> , 2001, 236, 67-77.	9.4	161
51	Effects of nano-Ag particles loading on TiO ₂ photocatalytic reduction of selenate ions. <i>Chemical Engineering Journal</i> , 2003, 95, 179-186.	12.7	161
52	Nitrate reduction to ammonium: from CuO defect engineering to waste NO _x -to-NH ₃ economic feasibility. <i>Energy and Environmental Science</i> , 2021, 14, 3588-3598.	30.8	161
53	Reversible Antimicrobial Photoswitching in Nanosilver. <i>Small</i> , 2009, 5, 341-344.	10.0	158
54	High Performance Au-Pd Supported on 3D Hybrid Strontium-Substituted Lanthanum Manganite Perovskite Catalyst for Methane Combustion. <i>ACS Catalysis</i> , 2016, 6, 6935-6947.	11.2	158

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55	The stabilization and bio-functionalization of iron oxide nanoparticles using heterotelechelic polymers. <i>Journal of Materials Chemistry</i> , 2009, 19, 111-123.	6.7	157
56	Polysulfide immobilization and conversion on a conductive polar MoC@MoO _x material for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018, 10, 56-61.	18.0	157
57	Degradation of 1,4-dioxane in water using TiO ₂ based photocatalytic and H ₂ O ₂ /UV processes. <i>Journal of Hazardous Materials</i> , 2007, 146, 496-501.	12.4	155
58	A review on photo-thermal catalytic conversion of carbon dioxide. <i>Green Energy and Environment</i> , 2017, 2, 204-217.	8.7	153
59	ZnIn ₂ S ₄ -Based Photocatalysts for Energy and Environmental Applications. <i>Small Methods</i> , 2021, 5, e2100887.	8.6	153
60	Photocatalytic degradation of cyanide using titanium dioxide modified with copper oxide. <i>Journal of Environmental Management</i> , 2002, 6, 471-485.	1.7	148
61	Embedment of anodized p-type Cu ₂ O thin films with CuO nanowires for improvement in photoelectrochemical stability. <i>Nanoscale</i> , 2013, 5, 2952.	5.6	144
62	Elucidating the impact of Ni and Co loading on the selectivity of bimetallic NiCo catalysts for dry reforming of methane. <i>Chemical Engineering Journal</i> , 2018, 352, 572-580.	12.7	144
63	The effect of preparation method on the photoactivity of crystalline titanium dioxide particles. <i>Chemical Engineering Journal</i> , 2003, 95, 213-220.	12.7	143
64	Effects of Ag and Pt on photocatalytic degradation of endocrine disrupting chemicals in water. <i>Chemical Engineering Journal</i> , 2005, 113, 65-72.	12.7	143
65	A perspective on fabricating carbon-based nanomaterials by photocatalysis and their applications. <i>Energy and Environmental Science</i> , 2012, 5, 9307.	30.8	138
66	Implications of heat treatment on the properties of a magnetic iron oxide-titanium dioxide photocatalyst. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 94, 71-81.	3.5	137
67	Effects of Serum Adsorption on Cellular Uptake Profile and Consequent Impact of Titanium Dioxide Nanoparticles on Human Lung Cell Lines. <i>ACS Nano</i> , 2012, 6, 4083-4093.	14.6	134
68	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2010, 20, 1767-1777.	14.9	133
69	Removal of humic acid using TiO ₂ photocatalytic process – Fractionation and molecular weight characterisation studies. <i>Chemosphere</i> , 2008, 72, 263-271.	8.2	132
70	Highly Selective and Stable Reduction of CO ₂ to CO by a Graphitic Carbon Nitride/Carbon Nanotube Composite Electrocatalyst. <i>Chemistry - A European Journal</i> , 2016, 22, 11991-11996.	3.3	132
71	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d-Band Center via Local Coordination Tuning. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21911-21917.	13.8	132
72	Synthesis of a novel magnetic photocatalyst by direct deposition of nanosized TiO ₂ crystals onto a magnetic core. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 148, 303-313.	3.9	131

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73	TiO ₂ -coated natural zeolite: Rapid humic acid adsorption and effective photocatalytic regeneration. <i>Chemical Engineering Science</i> , 2014, 105, 46-52.	3.8	131
74	Catalytic reduction of NO by CO over Cu/CexZr1xO ₂ prepared by flame synthesis. <i>Journal of Catalysis</i> , 2010, 272, 210-219.	6.2	129
75	Electroreduction of CO ₂ to CO on a Mesoporous Carbon Catalyst with Progressively Removed Nitrogen Moieties. <i>ACS Energy Letters</i> , 2018, 3, 2292-2298.	17.4	129
76	Flame Preparation of Visible-Light-Responsive BiVO ₄ Oxygen Evolution Photocatalysts with Subsequent Activation via Aqueous Route. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1997-2004.	8.0	128
77	Advancing photoreforming of organics: highlights on photocatalyst and system designs for selective oxidation reactions. <i>Energy and Environmental Science</i> , 2021, 14, 1140-1175.	30.8	128
78	Opportunities and Challenges for Renewable Power-to-X. <i>ACS Energy Letters</i> , 2020, 5, 3843-3847.	17.4	126
79	Bactericidal effects of titanium dioxide-based photocatalysts. <i>Chemical Engineering Journal</i> , 2005, 113, 55-63.	12.7	123
80	Flame-Sprayed Superparamagnetic Bare and Silica-Coated Maghemite Nanoparticles: Synthesis, Characterization, and Protein Adsorption/Desorption. <i>Chemistry of Materials</i> , 2006, 18, 6403-6413.	6.7	123
81	Anti-fouling magnetic nanoparticles for siRNA delivery. <i>Journal of Materials Chemistry</i> , 2010, 20, 255-265.	6.7	123
82	Understanding the role of restructuring in flocculation: The application of a population balance model. <i>Chemical Engineering Science</i> , 2003, 58, 327-338.	3.8	121
83	Flame-Synthesized Ceria-Supported Copper Dimers for Preferential Oxidation of CO. <i>Advanced Functional Materials</i> , 2009, 19, 369-377.	14.9	120
84	Rapid Structure Characterization of Bacterial Aggregates. <i>Environmental Science & Technology</i> , 1998, 32, 3735-3742.	10.0	115
85	Mechanisms of Cr(VI) removal from water by various types of activated carbons. , 1999, 74, 111-122.		115
86	Effect of formate and methanol on photoreduction/removal of toxic cadmium ions using TiO ₂ semiconductor as photocatalyst. <i>Chemical Engineering Science</i> , 2003, 58, 4429-4439.	3.8	114
87	Assembly of Polyethylenimine-Based Magnetic Iron Oxide Vectors: Insights into Gene Delivery. <i>Langmuir</i> , 2010, 26, 7314-7326.	3.5	114
88	Recent advances in suppressing the photocorrosion of cuprous oxide for photocatalytic and photoelectrochemical energy conversion. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 40, 191-211.	11.6	113
89	A Disquisition on the Active Sites of Heterogeneous Catalysts for Electrochemical Reduction of CO ₂ to Value-Added Chemicals and Fuel. <i>Advanced Energy Materials</i> , 2020, 10, 1902106.	19.5	113
90	Techno-economic Analysis of Hydrogen Electrolysis from Off-Grid Stand-Alone Photovoltaics Incorporating Uncertainty Analysis. <i>Cell Reports Physical Science</i> , 2020, 1, 100209.	5.6	113

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91	Analysis of the Promoted Activity and Molecular Mechanism of Hydrogen Production over Fine Au@Pt Alloyed TiO ₂ Photocatalysts. ACS Catalysis, 2015, 5, 3924-3931.	11.2	110
92	A framework for assessing economics of blue hydrogen production from steam methane reforming using carbon capture storage & utilisation. International Journal of Hydrogen Energy, 2021, 46, 22685-22706.	7.1	110
93	Novel TiO ₂ thin film with non-UV activated superwetting and antifogging behaviours. Journal of Materials Chemistry, 2007, 17, 952.	6.7	109
94	Cellular uptake and reactive oxygen species modulation of cerium oxide nanoparticles in human monocyte cell line U937. Biomaterials, 2012, 33, 7915-7924.	11.4	109
95	TiO ₂ Photocatalysis of Natural Organic Matter in Surface Water: Impact on Trihalomethane and Haloacetic Acid Formation Potential. Environmental Science & Technology, 2008, 42, 6218-6223.	10.0	108
96	Stabilization of Magnetic Iron Oxide Nanoparticles in Biological Media by Fetal Bovine Serum (FBS). Langmuir, 2011, 27, 843-850.	3.5	108
97	A Fully Reversible Water Electrolyzer Cell Made Up from FeCoNi (Oxy)hydroxide Atomic Layers. Advanced Energy Materials, 2019, 9, 1901312.	19.5	106
98	Understanding Plasmon and Band Gap Photoexcitation Effects on the Thermal-Catalytic Oxidation of Ethanol by TiO ₂ -Supported Gold. ACS Catalysis, 2016, 6, 1870-1879.	11.2	105
99	Photocatalytic oxidation of toluene and trichloroethylene in the gas-phase by metallised (Pt, Ag) titanium dioxide. Applied Catalysis B: Environmental, 2008, 78, 1-10.	20.2	104
100	Single Atom and Nanoclustered Pt Catalysts for Selective CO ₂ Reduction. ACS Applied Energy Materials, 2018, 1, 6781-6789.	5.1	104
101	Nanostructured Bi ₂ O ₃ Fractals on Carbon Fibers for Highly Selective CO ₂ Electroreduction to Formate. Advanced Functional Materials, 2020, 30, 1906478.	14.9	104
102	Aggregation Mechanisms of Latex of Different Particle Sizes in a Controlled Shear Environment. Langmuir, 2002, 18, 1974-1984.	3.5	103
103	Titania nanocomposite polyethersulfone ultrafiltration membranes fabricated using a low temperature hydrothermal coating process. Journal of Membrane Science, 2011, 380, 98-113.	8.2	103
104	Effect of fulvic acid adsorption on the aggregation kinetics and structure of hematite particles. Journal of Colloid and Interface Science, 1992, 151, 244-257.	9.4	101
105	Inter-relationship between Pt oxidation states on TiO ₂ and the photocatalytic mineralisation of organic matters. Journal of Catalysis, 2007, 251, 271-280.	6.2	100
106	Machine Learning for Accelerated Discovery of Solar Photocatalysts. ACS Catalysis, 2019, 9, 11774-11787.	11.2	100
107	Insight into microstructural and magnetic properties of flame-made Fe ₂ O ₃ nanoparticles. Journal of Materials Chemistry, 2007, 17, 4876.	6.7	99
108	Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis. Nature Communications, 2022, 13, 2430.	12.8	98

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109	Tuning the Coordination Structure of Cu ^I ;Ni ^I ;C Single Atom Catalysts for Simultaneous Electrochemical Reduction of CO ₂ and NO ₃ ⁻ to Urea. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	98
110	Modelling the leaching of Pb, Cd, As, and Cr from cementitious waste using PHREEQC. <i>Journal of Hazardous Materials</i> , 2005, 125, 45-61.	12.4	96
111	Ultrasensitive electrochemical detection of prostate-specific antigen (PSA) using gold-coated magnetic nanoparticles as $\tilde{\text{dispersible electrodes}}^{\text{TM}}$. <i>Chemical Communications</i> , 2012, 48, 3503.	4.1	96
112	Highly Selective Reduction of CO ₂ to Formate at Low Overpotentials Achieved by a Mesoporous Tin Oxide Electrocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1670-1679.	6.7	96
113	Landfill Management, Leachate Generation, and Leach Testing of Solid Wastes in Australia and Overseas. <i>Critical Reviews in Environmental Science and Technology</i> , 2005, 35, 239-332.	12.8	95
114	Fractal structure of hematite aggregates. <i>Journal of Colloid and Interface Science</i> , 1990, 140, 158-168.	9.4	94
115	Photocatalytic oxidation of cyanide: kinetic and mechanistic studies. <i>Journal of Molecular Catalysis A</i> , 2003, 193, 285-297.	4.8	93
116	TiO ₂ -supported copper nanoparticles prepared via ion exchange for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6432-6438.	10.3	92
117	Electrospun Polyacrylonitrile-Ionic Liquid Nanofibers for Superior PM _{2.5} Capture Capacity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7030-7036.	8.0	92
118	Modulating Activity through Defect Engineering of Tin Oxides for Electrochemical CO ₂ Reduction. <i>Advanced Science</i> , 2019, 6, 1900678.	11.2	92
119	Evaluating the applicability of a modified toxicity characteristic leaching procedure (TCLP) for the classification of cementitious wastes containing lead and cadmium. <i>Journal of Hazardous Materials</i> , 2003, 103, 125-140.	12.4	90
120	Unlocking the potential of the formate pathway in the photo-assisted Sabatier reaction. <i>Nature Catalysis</i> , 2020, 3, 1034-1043.	34.4	90
121	Influence of Annealing Temperature of WO ₃ in Photoelectrochemical Conversion and Energy Storage for Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5269-5275.	8.0	89
122	In Situ Exsolution of Bimetallic Rh-Ni Nanoalloys: a Highly Efficient Catalyst for CO ₂ Methanation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16352-16357.	8.0	89
123	Controlled Fabrication of Polyethylenimine-Functionalized Magnetic Nanoparticles for the Sequestration and Quantification of Free Cu ²⁺ . <i>Langmuir</i> , 2010, 26, 12247-12252.	3.5	87
124	Transparent visible light activated Ca-N-F-codoped TiO ₂ films for self-cleaning applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 210, 181-187.	3.9	86
125	Temperature-induced evolution of reaction sites and mechanisms during preferential oxidation of CO. <i>Journal of Catalysis</i> , 2011, 277, 64-71.	6.2	86
126	Transforming Anodized WO ₃ Films into Visible-Light-Active Bi ₂ WO ₆ Photoelectrodes by Hydrothermal Treatment. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 913-918.	4.6	86

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127	Exploring the Origin of Enhanced Activity and Reaction Pathway for Photocatalytic H ₂ Production on Au/B-TiO ₂ Catalysts. ACS Catalysis, 2014, 4, 1451-1457.	11.2	86
128	The influence of La-doping on the activity and stability of Cu/ZnO catalyst for the low-temperature water-gas shift reaction. Journal of Catalysis, 2010, 273, 73-81.	6.2	84
129	Synergistic ultraviolet and visible light photo-activation enables intensified low-temperature methanol synthesis over copper/zinc oxide/alumina. Nature Communications, 2020, 11, 1615.	12.8	84
130	Zeolite synthesis from coal fly ash for the removal of lead ions from aqueous solution. Journal of Chemical Technology and Biotechnology, 2002, 77, 63-69.	3.2	82
131	CO ₂ reforming of methane over MCM-41-supported nickel catalysts: altering support acidity by one-pot synthesis at room temperature. Applied Catalysis A: General, 2014, 473, 51-58.	4.3	82
132	Sensitization of Pt/TiO ₂ Using Plasmonic Au Nanoparticles for Hydrogen Evolution under Visible-Light Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 30575-30582.	8.0	82
133	Experimental validation of proton transverse relaxivity models for superparamagnetic nanoparticle MRI contrast agents. Nanotechnology, 2010, 21, 035103.	2.6	81
134	Induced Adaptation of <i>Bacillus sp.</i> to Antimicrobial Nanosilver. Small, 2013, 9, 3554-3560.	10.0	81
135	Anti-angiogenic activity of heparin functionalised cerium oxide nanoparticles. Biomaterials, 2013, 34, 8808-8818.	11.4	80
136	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 14732-14742.	10.3	80
137	Implications of the structure of cementitious wastes containing Pb(II), Cd(II), As(V), and Cr(VI) on the leaching of metals. Cement and Concrete Research, 2004, 34, 1093-1102.	11.0	79
138	Electrodeposited Cu ₂ O as Photoelectrodes with Controllable Conductivity Type for Solar Energy Conversion. Journal of Physical Chemistry C, 2015, 119, 26275-26282.	3.1	79
139	Tunable Syngas Production through CO ₂ Electroreduction on Cobalt-Carbon Composite Electrocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 9307-9315.	8.0	79
140	Plasmacatalytic bubbles using CeO ₂ for organic pollutant degradation. Chemical Engineering Journal, 2021, 403, 126413.	12.7	79
141	A pulse electrodeposited amorphous tunnel layer stabilises Cu ₂ O for efficient photoelectrochemical water splitting under visible-light irradiation. Journal of Materials Chemistry A, 2020, 8, 5638-5646.	10.3	78
142	Widespread and Indiscriminate Nanosilver Use: Genuine Potential for Microbial Resistance. ACS Nano, 2017, 11, 3438-3445.	14.6	77
143	Preparation and characterisation of new-polyaluminum chloride-chitosan composite coagulant. Water Research, 2012, 46, 4614-4620.	11.3	76
144	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. Nature Communications, 2019, 10, 4645.	12.8	76

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145	N,P Coordinated Manganese Atoms in Mesoporous Carbon for Electrochemical Oxygen Reduction. <i>Small</i> , 2019, 15, e1804524.	10.0	76
146	Preparation of Bi-based photocatalysts in the form of powdered particles and thin films: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15302-15318.	10.3	76
147	An Aqueous Metal-Ion Capacitor with Oxidized Carbon Nanotubes and Metallic Zinc Electrodes. <i>Frontiers in Energy Research</i> , 2016, 4, .	2.3	75
148	Enhancing the Photoactivity of Faceted BiVO ₄ via Annealing in Oxygen-Deficient Condition. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600290.	2.3	75
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