

# Rose Amal

## List of Publications by Year in descending order

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496  
papers

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citations

2098

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5820

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506  
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506  
docs citations

506  
times ranked

35854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-scale quasi-layered tungstate-doped polypyrrole film with high volumetric capacitance. Nano Research, 2023, 16, 4895-4900.	5.8	3
2	Recent advances in flexible batteries: From materials to applications. Nano Research, 2023, 16, 4821-4854.	5.8	37
3	Understanding the activity and stability of flame-made Co <sub>3</sub> O <sub>4</sub> spinels: A route towards the scalable production of highly performing OER electrocatalysts. Chemical Engineering Journal, 2022, 429, 132180.	6.6	56
4	Highly Selective Metal-Free Electrochemical Production of Hydrogen Peroxide on Functionalized Vertical Graphene Edges. Small, 2022, 18, e2105082.	5.2	20
5	Engineering Multidefects on Ce <sub>x</sub> Si <sub>1-x</sub> O <sub>2</sub> Nanocomposites for the Catalytic Ozonation Reaction. Small, 2022, 18, e2103530.	5.2	6
6	A green hydrogen credit framework for international green hydrogen trading towards a carbon neutral future. International Journal of Hydrogen Energy, 2022, 47, 728-734.	3.8	68
7	Modulating catalytic oxygen activation over Pt-TiO <sub>2</sub> /SiO <sub>2</sub> catalysts by defect engineering of a TiO <sub>2</sub> /SiO <sub>2</sub> support. Catalysis Science and Technology, 2022, 12, 1049-1059.	2.1	6
8	Atomic Co decorated free-standing graphene electrode assembly for efficient hydrogen peroxide production in acid. Energy and Environmental Science, 2022, 15, 1172-1182.	15.6	37
9	Facet-dependent carrier dynamics of cuprous oxide regulating the photocatalytic hydrogen generation. Materials Advances, 2022, 3, 2200-2212.	2.6	15
10	Introduction to CO <sub>2</sub> capture, utilization and storage (CCUS). Reaction Chemistry and Engineering, 2022, 7, 487-489.	1.9	8
11	Impurity Tolerance of Unsaturated Ni-N-C Active Sites for Practical Electrochemical CO <sub>2</sub> Reduction. ACS Energy Letters, 2022, 7, 920-928.	8.8	47
12	Disulfiram-loaded metal organic framework for precision cancer treatment via ultrasensitive tumor microenvironment-responsive copper chelation and radical generation. Journal of Colloid and Interface Science, 2022, 615, 517-526.	5.0	7
13	Highly efficient and selective electrocatalytic hydrogen peroxide production on Co-O-C active centers on graphene oxide. Communications Chemistry, 2022, 5, .	2.0	33
14	Facet-dependent spatial charge separation with rational cocatalyst deposition on BiVO <sub>4</sub> . Materials Today Energy, 2022, 26, 100986.	2.5	6
15	Reconstructing Cu Nanoparticle Supported on Vertical Graphene Surfaces via Electrochemical Treatment to Tune the Selectivity of CO <sub>2</sub> Reduction toward Valuable Products. ACS Catalysis, 2022, 12, 4792-4805.	5.5	24
16	Electronic Structure Engineering of Single-Atom Ru Sites via Co-N <sub>4</sub> Sites for Bifunctional pH-Universal Water Splitting. Advanced Materials, 2022, 34, e2110103.	11.1	199
17	From Stochastic Self-Assembly of Nanoparticles to Nanostructured (Photo)Electrocatalysts for Renewable Power Applications via Scalable Flame Synthesis. Advanced Functional Materials, 2022, 32, .	7.8	12
18	Two Steps Back, One Leap Forward: Synergistic Energy Conversion in Plasmonic and Plasma Catalysis. ACS Energy Letters, 2022, 7, 300-309.	8.8	7

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19	Identifying Key Design Criteria for Large-Scale Photocatalytic Hydrogen Generation from Engineering and Economic Perspectives. ACS ES&T Engineering, 2022, 2, 1130-1143.	3.7	11
20	Two-Dimensional Ultra-Thin Nanosheets with Extraordinarily High Drug Loading and Long Blood Circulation for Cancer Therapy. Small, 2022, 18, e2200299.	5.2	24
21	Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis. Nature Communications, 2022, 13, 2430.	5.8	98
22	Shipping the sunshine: An open-source model for costing renewable hydrogen transport from Australia. International Journal of Hydrogen Energy, 2022, 47, 20362-20377.	3.8	32
23	Engineering a Kesterite-Based Photocathode for Photoelectrochemical Ammonia Synthesis from NO <sub>x</sub> Reduction. Advanced Materials, 2022, 34, .	11.1	17
24	Paving the way to ambient pressure photothermal methanol synthesis. Chem Catalysis, 2022, 2, 937-939.	2.9	0
25	Photo-electrochemical oxidation herbicides removal in stormwater: Degradation mechanism and pathway investigation. Journal of Hazardous Materials, 2022, 436, 129239.	6.5	10
26	Promoting low-temperature methanol production over mixed oxide supported Cu catalysts: Coupling ceria-promotion and photo-activation. Applied Catalysis B: Environmental, 2022, 315, 121599.	10.8	8
27	Tuning the Coordination Structure of Cu <sub>1-x</sub> Ni <sub>x</sub> C Single Atom Catalysts for Simultaneous Electrochemical Reduction of CO <sub>2</sub> and NO <sub>3</sub> <sup>-</sup> to Urea. Advanced Energy Materials, 2022, 12, .	10.2	98
28	Pt Single Atom Electrocatalysts at Graphene Edges for Efficient Alkaline Hydrogen Evolution. Advanced Functional Materials, 2022, 32, .	7.8	38
29	Nanoscale TiO <sub>2</sub> Coatings Improve the Stability of an Earth-Abundant Cobalt Oxide Catalyst during Acidic Water Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 33130-33140.	4.0	13
30	Integrating Low-Cost Earth-Abundant Co Catalysts with Encapsulated Perovskite Solar Cells for Efficient and Stable Overall Solar Water Splitting. Advanced Functional Materials, 2021, 31, 2008245.	7.8	43
31	Plasmacatalytic bubbles using CeO <sub>2</sub> for organic pollutant degradation. Chemical Engineering Journal, 2021, 403, 126413.	6.6	79
32	Mixed-Metal MOF-74 Templated Catalysts for Efficient Carbon Dioxide Capture and Methanation. Advanced Functional Materials, 2021, 31, 2007624.	7.8	65
33	Emerging material engineering strategies for amplifying photothermal heterogeneous CO <sub>2</sub> catalysis. Journal of Energy Chemistry, 2021, 59, 108-125.	7.1	46
34	Microstructural Engineering of Cathode Materials for Advanced Zinc-Ion Aqueous Batteries. Advanced Science, 2021, 8, 2002722.	5.6	58
35	Recent advances and the design criteria of metal sulfide photocathodes and photoanodes for photoelectrocatalysis. Journal of Materials Chemistry A, 2021, 9, 20277-20319.	5.2	53
36	Nitrate reduction to ammonium: from CuO defect engineering to waste NO <sub>x</sub> -to-NH <sub>3</sub> economic feasibility. Energy and Environmental Science, 2021, 14, 3588-3598.	15.6	161

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37	Altering the influence of ceria oxygen vacancies in Ni/Ce <sub>x</sub> Si <sub>y</sub> O <sub>2</sub> for photothermal CO <sub>2</sub> methanation. Catalysis Science and Technology, 2021, 11, 5297-5309.	2.1	17
38	Advancing photoreforming of organics: highlights on photocatalyst and system designs for selective oxidation reactions. Energy and Environmental Science, 2021, 14, 1140-1175.	15.6	128
39	A hybrid plasma electrocatalytic process for sustainable ammonia production. Energy and Environmental Science, 2021, 14, 865-872.	15.6	164
40	In vitro coronal protein signatures and biological impact of silver nanoparticles synthesized with different natural polymers as capping agents. Nanoscale Advances, 2021, 3, 4424-4439.	2.2	4
41	Carbon-supported layered double hydroxide nanodots for efficient oxygen evolution: Active site identification and activity enhancement. Nano Research, 2021, 14, 3329-3336.	5.8	14
42	Stormwater herbicides removal with a solar-driven advanced oxidation process: A feasibility investigation. Water Research, 2021, 190, 116783.	5.3	16
43	Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction. Advanced Energy Materials, 2021, 11, 2100303.	10.2	61
44	Doping-Mediated Metal-Support Interaction Promotion toward Light-Assisted Methanol Production over Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> . ACS Catalysis, 2021, 11, 5818-5828.	5.5	16
45	Understanding the Role of Vanadium Vacancies in BiVO <sub>4</sub> for Efficient Photoelectrochemical Water Oxidation. Chemistry of Materials, 2021, 33, 3553-3565.	3.2	54
46	Antibacterial Activity of Reduced Graphene Oxide. Journal of Nanomaterials, 2021, 2021, 1-10.	1.5	18
47	Oxygen Reduction Reaction: Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction (Adv. Energy Mater. 17/2021). Advanced Energy Materials, 2021, 11, 2170067.	10.2	2
48	Ligand-Promoted Cooperative Electrochemical Oxidation of Bio-Alcohol on Distorted Cobalt Hydroxides for Bio-Hydrogen Extraction. ChemSusChem, 2021, 14, 2612-2620.	3.6	6
49	Accelerating Electron-Transfer and Tuning Product Selectivity Through Surficial Vacancy Engineering on CZTS/CdS for Photoelectrochemical CO <sub>2</sub> Reduction. Small, 2021, 17, e2100496.	5.2	40
50	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.	3.8	110
51	Liquid Crystal-Mediated 3D Printing Process to Fabricate Nano-Ordered Layered Structures. ACS Applied Materials & Interfaces, 2021, 13, 28627-28638.	4.0	7
52	Designing optimal integrated electricity supply configurations for renewable hydrogen generation in Australia. IScience, 2021, 24, 102539.	1.9	28
53	Oxygen Nucleation of MoS <sub>2</sub> Nanosheet Thin Film Supercapacitor Electrodes for Enhanced Electrochemical Energy Storage. ChemSusChem, 2021, 14, 2882-2891.	3.6	3
54	Plasma-Induced Catalyst Support Defects for the Photothermal Methanation of Carbon Dioxide. Materials, 2021, 14, 4195.	1.3	11

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55	Designing Undercoordinated Ni <sup>x</sup> and Fe <sup>x</sup> on Holey Graphene for Electrochemical CO <sub>2</sub> Conversion to Syngas. ACS Nano, 2021, 15, 12006-12018.	7.3	68
56	Manipulating the Fate of Charge Carriers with Tungsten Concentration: Enhancing Photoelectrochemical Water Oxidation of Bi <sub>2</sub> WO <sub>6</sub> . Small, 2021, 17, e2102023.	5.2	14
57	Gas Transition: Renewable Hydrogen's Future in Eastern Australia's Energy Networks. Energies, 2021, 14, 3968.	1.6	7
58	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d-Band Center via Local Coordination Tuning. Angewandte Chemie, 2021, 133, 22082-22088.	1.6	4
59	Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d-Band Center via Local Coordination Tuning. Angewandte Chemie - International Edition, 2021, 60, 21911-21917.	7.2	132
60	Manipulating the Fate of Charge Carriers with Tungsten Concentration: Enhancing Photoelectrochemical Water Oxidation of Bi <sub>2</sub> WO <sub>6</sub> (Small 35/2021). Small, 2021, 17, 2170183.	5.2	2
61	Anchoring Sites Engineering in Single-Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. Advanced Materials, 2021, 33, e2102801.	11.1	64
62	ZnIn <sub>2</sub> S <sub>4</sub> -Based Photocatalysts for Energy and Environmental Applications. Small Methods, 2021, 5, e2100887.	4.6	153
63	Enhanced graphitic domains of unreduced graphene oxide and the interplay of hydration behaviour and catalytic activity. Materials Today, 2021, 50, 44-54.	8.3	27
64	Nanofluidic voidless electrode for electrochemical capacitance enhancement in gel electrolyte. Nature Communications, 2021, 12, 5515.	5.8	13
65	Photoenhanced CO <sub>2</sub> methanation over La <sub>2</sub> O <sub>3</sub> promoted Co/TiO <sub>2</sub> catalysts. Applied Catalysis B: Environmental, 2021, 294, 120248.	10.8	21
66	Biocatalytic micromixer coated with enzyme-MOF thin film for CO <sub>2</sub> conversion to formic acid. Chemical Engineering Journal, 2021, 426, 130856.	6.6	34
67	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. Energy and Environmental Science, 2021, 14, 1854-1896.	15.6	252
68	Synergistic Cyanamide Functionalization and Charge-Induced Activation of Nickel/Carbon Nitride for Enhanced Selective Photoreforming of Ethanol. ACS Applied Materials & Interfaces, 2021, 13, 49916-49926.	4.0	12
69	Surface Reconstruction Enabled Efficient Hydrogen Generation on a Cobalt-Iron Phosphate Electrocatalyst in Neutral Water. ACS Applied Materials & Interfaces, 2021, 13, 53798-53809.	4.0	14
70	Nanostructured Bi <sub>2</sub> O <sub>3</sub> Fractals on Carbon Fibers for Highly Selective CO <sub>2</sub> Electroreduction to Formate. Advanced Functional Materials, 2020, 30, 1906478.	7.8	104
71	From passivation to activation - tunable nickel/nickel oxide for hydrogen evolution electrocatalysis. Chemical Communications, 2020, 56, 1709-1712.	2.2	35
72	In Situ Sulfurized Carbon-Confined Cobalt for Long-Life Mg/S Batteries. ACS Applied Energy Materials, 2020, 3, 2516-2525.	2.5	23

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73	Low-Temperature CO <sub>2</sub> Methanation: Synergistic Effects in Plasma-Ni Hybrid Catalytic System. ACS Sustainable Chemistry and Engineering, 2020, 8, 1888-1898.	3.2	54
74	Heritable nanosilver resistance in priority pathogen: a unique genetic adaptation and comparison with ionic silver and antibiotics. Nanoscale, 2020, 12, 2384-2392.	2.8	29
75	Photocatalytic and Photoelectrochemical Systems: Similarities and Differences. Advanced Materials, 2020, 32, e1904717.	11.1	213
76	Catalytic Metal Foam by Chemical Melting and Sintering of Liquid Metal Nanoparticles. Advanced Functional Materials, 2020, 30, 1907879.	7.8	53
77	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. ACS Energy Letters, 2020, 5, 3560-3568.	8.8	70
78	Heteroatom-doped carbon catalysts for zinc-air batteries: progress, mechanism, and opportunities. Energy and Environmental Science, 2020, 13, 4536-4563.	15.6	209
79	Dynamic single-site polysulfide immobilization in long-range disorder Cu-MOFs. Chemical Communications, 2020, 56, 10074-10077.	2.2	1
80	Unlocking the potential of the formate pathway in the photo-assisted Sabatier reaction. Nature Catalysis, 2020, 3, 1034-1043.	16.1	90
81	Opportunities and Challenges for Renewable Power-to-X. ACS Energy Letters, 2020, 5, 3843-3847.	8.8	126
82	Valence Alignment of Mixed Ni-Fe Hydroxide Electrocatalysts through Preferential Templating on Graphene Edges for Enhanced Oxygen Evolution. ACS Nano, 2020, 14, 11327-11340.	7.3	42
83	Transforming active sites in nickel-nitrogen-carbon catalysts for efficient electrochemical CO <sub>2</sub> reduction to CO. Nano Energy, 2020, 78, 105213.	8.2	69
84	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. Solar Energy, 2020, 208, 379-387.	2.9	13
85	Direct insights into the role of epoxy groups on cobalt sites for acidic H <sub>2</sub> O <sub>2</sub> production. Nature Communications, 2020, 11, 4181.	5.8	204
86	Enhanced Electrochemical CO <sub>2</sub> Reduction of Cu@Cu <sub>x</sub> O Nanoparticles Decorated on 3D Vertical Graphene with Intrinsic sp <sup>3</sup> Type Defect. Advanced Functional Materials, 2020, 30, 1910118.	7.8	54
87	Bi-Sn Catalytic Foam Governed by Nanometallurgy of Liquid Metals. Nano Letters, 2020, 20, 4403-4409.	4.5	46
88	Z-Schematic Solar Water Splitting Using Fine Particles of H <sub>2</sub> -Evolving (CuGa) <sub>0.5</sub> ZnS <sub>2</sub> Photocatalyst Prepared by a Flux Method with Chloride Salts. ACS Applied Energy Materials, 2020, 3, 5684-5692.	2.5	22
89	Multifunctional nanostructures of Au-Bi <sub>2</sub> O <sub>3</sub> fractals for CO <sub>2</sub> reduction and optical sensing. Journal of Materials Chemistry A, 2020, 8, 11233-11245.	5.2	25
90	Promising hollow multi-shelled structures: discovering the temporal-spatial ordering. National Science Review, 2020, 7, 1763-1764.	4.6	3

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91	Uncovering Atomic-Scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. <i>Advanced Energy Materials</i> , 2020, 10, 2001381.	10.2	51
92	Balancing the crystallinity and specific surface area of bismuth tungstate for photocatalytic water oxidation. <i>Molecular Catalysis</i> , 2020, 487, 110887.	1.0	5
93	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.	5.2	76
94	Synergistic ultraviolet and visible light photo-activation enables intensified low-temperature methanol synthesis over copper/zinc oxide/alumina. <i>Nature Communications</i> , 2020, 11, 1615.	5.8	84
95	Tunable Syngas Production through CO <sub>2</sub> Electroreduction on Cobalt-Carbon Composite Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9307-9315.	4.0	79
96	Light-Enhanced CO <sub>2</sub> Reduction to CH <sub>4</sub> using Nonprecious Transition-Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5056-5066.	3.2	29
97	Harnessing the interplay of Fe-Ni atom pairs embedded in nitrogen-doped carbon for bifunctional oxygen electrocatalysis. <i>Nano Energy</i> , 2020, 71, 104597.	8.2	231
98	A pulse electrodeposited amorphous tunnel layer stabilises Cu <sub>2</sub> O for efficient photoelectrochemical water splitting under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5638-5646.	5.2	78
99	Inducing Ni phyllosilicate formation over a carbon fiber support as a catalyst for the CO <sub>2</sub> reforming of methane. <i>Applied Catalysis A: General</i> , 2020, 592, 117418.	2.2	20
100	Nanosilver Targets the Bacterial Cell Envelope: The Link with Generation of Reactive Oxygen Radicals. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5557-5568.	4.0	48
101	Silver-Based Plasmonic Catalysts for Carbon Dioxide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1879-1887.	3.2	23
102	A Disquisition on the Active Sites of Heterogeneous Catalysts for Electrochemical Reduction of CO <sub>2</sub> to Value-Added Chemicals and Fuel. <i>Advanced Energy Materials</i> , 2020, 10, 1902106.	10.2	113
103	Inducing synergy in bimetallic RhNi catalysts for CO <sub>2</sub> methanation by galvanic replacement. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119029.	10.8	41
104	Tuning the Selectivity of LaNiO <sub>3</sub> Perovskites for CO <sub>2</sub> Hydrogenation through Potassium Substitution. <i>Catalysts</i> , 2020, 10, 409.	1.6	20
105	Light soaking effect driven in porphyrin dye-sensitized solar cells using 1D TiO <sub>2</sub> nanotube photoanodes. <i>Sustainable Materials and Technologies</i> , 2020, 24, e00165.	1.7	9
106	Techno-economic Analysis of Hydrogen Electrolysis from Off-Grid Stand-Alone Photovoltaics Incorporating Uncertainty Analysis. <i>Cell Reports Physical Science</i> , 2020, 1, 100209.	2.8	113
107	Industrial carbon dioxide capture and utilization: state of the art and future challenges. <i>Chemical Society Reviews</i> , 2020, 49, 8584-8686.	18.7	610
108	3D Heterostructured Copper Electrode for Conversion of Carbon Dioxide to Alcohols at Low Overpotentials. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800064.	2.7	37

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109	Cadmium sulfide Co-catalyst reveals the crystallinity impact of nickel oxide photocathode in photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20851-20856.	3.8	7
110	Unifying double flame spray pyrolysis with lanthanum doping to restrict cobalt $\alpha$ aluminate formation in Co/Al <sub>2</sub> O <sub>3</sub> catalysts for the dry reforming of methane. <i>Catalysis Science and Technology</i> , 2019, 9, 4970-4980.	2.1	23
111	Ternary MnO/CoMn alloy@N-doped graphitic composites derived from a bi-metallic pigment as bi-functional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20649-20657.	5.2	33
112	The Dependence of Bi <sub>2</sub> MoO <sub>6</sub> Photocatalytic Water Oxidation Capability on Crystal Facet Engineering. <i>ChemPhotoChem</i> , 2019, 3, 1246-1253.	1.5	23
113	Refilling Nitrogen to Oxygen Vacancies in Ultrafine Tungsten Oxide Clusters for Superior Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1902148.	10.2	48
114	Cooperative defect-enriched SiO <sub>2</sub> for oxygen activation and organic dehydrogenation. <i>Journal of Catalysis</i> , 2019, 376, 168-179.	3.1	16
115	Asymmetrical Double Flame Spray Pyrolysis-Designed SiO <sub>2</sub> /Ce <sub>0.7</sub> Zr <sub>0.3</sub> O <sub>2</sub> for the Dry Reforming of Methane. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25766-25777.	4.0	26
116	Modulating Activity through Defect Engineering of Tin Oxides for Electrochemical CO <sub>2</sub> Reduction. <i>Advanced Science</i> , 2019, 6, 1900678.	5.6	92
117	Antipoisoning Nickel $\alpha$ Carbon Electrocatalyst for Practical Electrochemical CO <sub>2</sub> Reduction to CO. <i>ACS Applied Energy Materials</i> , 2019, 2, 8002-8009.	2.5	45
118	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019, 10, 4645.	5.8	76
119	Machine Learning for Accelerated Discovery of Solar Photocatalysts. <i>ACS Catalysis</i> , 2019, 9, 11774-11787.	5.5	100
120	Plasma Treating Mixed Metal Oxides to Improve Oxidative Performance via Defect Generation. <i>Materials</i> , 2019, 12, 2756.	1.3	15
121	Highly cross-linked carbon sponge enables room-temperature long-life semi-liquid Na/polysulfide battery. <i>Materials Today Energy</i> , 2019, 14, 100342.	2.5	11
122	N,P Coordinated Manganese Atoms in Mesoporous Carbon for Electrochemical Oxygen Reduction. <i>Small</i> , 2019, 15, e1804524.	5.2	76
123	Unlocking high-potential non-persistent radical chemistry for semi-aqueous redox batteries. <i>Chemical Communications</i> , 2019, 55, 2154-2157.	2.2	14
124	A Fully Reversible Water Electrolyzer Cell Made Up from FeCoNi (Oxy)hydroxide Atomic Layers. <i>Advanced Energy Materials</i> , 2019, 9, 1901312.	10.2	106
125	The Importance of the Interfacial Contact: Is Reduced Graphene Oxide Always an Enhancer in Photo(Electro)Catalytic Water Oxidation?. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 23125-23134.	4.0	34
126	Oxygen-Vacancy Engineering of Cerium-Oxide Nanoparticles for Antioxidant Activity. <i>ACS Omega</i> , 2019, 4, 9473-9479.	1.6	47



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127	Effect of Metal-Support Interactions in Mixed Co/Al Catalysts for Dry Reforming of Methane. ChemCatChem, 2019, 11, 3432-3440.	1.8	26
128	N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 14732-14742.	5.2	80
129	Hydrophilic tannic acid-modified WS <sub>2</sub> nanosheets for enhanced polysulfide conversion in aqueous media. JPhys Energy, 2019, 1, 015005.	2.3	2
130	Solar Water Splitting under Neutral Conditions Using Zr-Scheme Systems with Mo-Doped BiVO <sub>4</sub> as an O <sub>2</sub> -Evolving Photocatalyst. Energy Technology, 2019, 7, 1900358.	1.8	13
131	Versatile electrocatalytic processes realized by Ni, Co and Fe alloyed core coordinated carbon shells. Journal of Materials Chemistry A, 2019, 7, 12154-12165.	5.2	34
132	Spherical Murray-Type Assembly of Co-N-C Nanoparticles as a High-Performance Trifunctional Electrocatalyst. ACS Applied Materials & Interfaces, 2019, 11, 9925-9933.	4.0	49
133	Light-Induced Synergistic Multidefect Sites on TiO <sub>2</sub> /SiO <sub>2</sub> Composites for Catalytic Dehydrogenation. ACS Catalysis, 2019, 9, 2674-2684.	5.5	41
134	Promoting surface oxygen vacancies on ceria via light pretreatment to enhance catalytic ozonation. Catalysis Science and Technology, 2019, 9, 5979-5990.	2.1	29
135	Surface strategies for catalytic CO <sub>2</sub> reduction: from two-dimensional materials to nanoclusters to single atoms. Chemical Society Reviews, 2019, 48, 5310-5349.	18.7	607
136	Ultrathin Fe-N Nanosheets Coordinated Fe-Doped CoNi Alloy Nanoparticles for Electrochemical Water Splitting. Particle and Particle Systems Characterization, 2019, 36, 1800252.	1.2	21
137	Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. Advanced Materials, 2019, 31, e1801526.	11.1	273
138	Carbon-Based Metal-Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. Advanced Materials, 2019, 31, e1805367.	11.1	247
139	Recent advances in suppressing the photocorrosion of cuprous oxide for photocatalytic and photoelectrochemical energy conversion. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 40, 191-211.	5.6	113
140	Experimental Results for Tailored Spectrum Splitting Metallic Nanofluids for c-Si, GaAs, and Ge Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 385-390.	1.5	28
141	Oxygen Electrocatalysis at Mn <sup>III</sup> -O <sub>x</sub> /C Hybrid Heterojunction: An Electronic Synergy or Cooperative Catalysis?. ACS Applied Materials & Interfaces, 2019, 11, 706-713.	4.0	7
142	Plasmonic effects on CO <sub>2</sub> reduction over bimetallic Ni-Au catalysts. Chemical Engineering Science, 2019, 194, 94-104.	1.9	42
143	Decorating platinum on nitrogen-doped graphene sheets: Control of the platinum particle size distribution for improved photocatalytic H <sub>2</sub> generation. Chemical Engineering Science, 2019, 194, 85-93.	1.9	31
144	Improving the Photo-Oxidative Performance of Bi <sub>2</sub> MoO <sub>6</sub> by Harnessing the Synergy between Spatial Charge Separation and Rational Co-Catalyst Deposition. ACS Applied Materials & Interfaces, 2018, 10, 9342-9352.	4.0	44

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145	In Situ Exsolution of Bimetallic Rh-Ni Nanoalloys: a Highly Efficient Catalyst for CO <sub>2</sub> Methanation. ACS Applied Materials & Interfaces, 2018, 10, 16352-16357.	4.0	89
146	A Li-ion sulfur full cell with ambient resistant Al-Li alloy anode. Energy Storage Materials, 2018, 15, 209-217.	9.5	44
147	A dual-electrolyte system for photoelectrochemical hydrogen generation using CuInS <sub>2</sub> -In <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> nanotube array thin film. Science China Materials, 2018, 61, 895-904.	3.5	16
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