

Yufei Zhao

List of Publications by Year in descending order

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187
papers

23,560
citations

8755

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7745

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190
all docs

190
docs citations

190
times ranked

22168
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkali-Assisted Synthesis of Nitrogen Deficient Graphitic Carbon Nitride with Tunable Band Structures for Efficient Visible-Light-Driven Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1605148.	21.0	1,616
2	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. <i>Nature Catalysis</i> , 2018, 1, 985-992.	34.4	1,236
3	Tuning Oxygen Vacancies in Ultrathin TiO ₂ Nanosheets to Boost Photocatalytic Nitrogen Fixation up to 700 nm. <i>Advanced Materials</i> , 2019, 31, e1806482.	21.0	732
4	Nitrogen-Doped Porous Carbon Nanosheets Templated from g-C ₃ N ₄ as Metal-Free Electrocatalysts for Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2016, 28, 5080-5086.	21.0	718
5	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 20118-20126.	13.7	683
6	Ni ₃ FeN Nanoparticles Derived from Ultrathin NiFe-Layered Double Hydroxide Nanosheets: An Efficient Overall Water Splitting Electrocatalyst. <i>Advanced Energy Materials</i> , 2016, 6, 1502585.	19.5	668
7	Well-Dispersed ZIF-Derived Co,Ni-Co-doped Carbon Nanoframes through Mesoporous-Silica-Protected Calcination as Efficient Oxygen Reduction Electrocatalysts. <i>Advanced Materials</i> , 2016, 28, 1668-1674.	21.0	663
8	Smart Utilization of Carbon Dots in Semiconductor Photocatalysis. <i>Advanced Materials</i> , 2016, 28, 9454-9477.	21.0	622
9	Defect-Rich Ultrathin ZnAl-Layered Double Hydroxide Nanosheets for Efficient Photoreduction of CO ₂ to CO with Water. <i>Advanced Materials</i> , 2015, 27, 7824-7831.	21.0	608
10	Carbon quantum dots/TiO ₂ composites for efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3344.	10.3	601
11	Ultrafine NiO Nanosheets Stabilized by TiO ₂ from Monolayer NiTi-LDH Precursors: An Active Water Oxidation Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 6517-6524.	13.7	597
12	Defect-Engineered Ultrathin MnO ₂ Nanosheet Arrays as Bifunctional Electrodes for Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1700005.	19.5	553
13	Layered-Double-Hydroxide Nanosheets as Efficient Visible-Light-Driven Photocatalysts for Dinitrogen Fixation. <i>Advanced Materials</i> , 2017, 29, 1703828.	21.0	524
14	NiFe Layered Double Hydroxide Nanoparticles on Co,Ni-Codoped Carbon Nanoframes as Efficient Bifunctional Catalysts for Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700467.	19.5	422
15	Layered Double Hydroxide Nanostructured Photocatalysts for Renewable Energy Production. <i>Advanced Energy Materials</i> , 2016, 6, 1501974.	19.5	389
16	Ammonia Detection Methods in Photocatalytic and Electrocatalytic Experiments: How to Improve the Reliability of NH ₃ Production Rates?. <i>Advanced Science</i> , 2019, 6, 1802109.	11.2	379
17	Nickel-Cobalt Diselenide 3D Mesoporous Nanosheet Networks Supported on Ni Foam: An All-pH Highly Efficient Integrated Electrocatalyst for Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1606521.	21.0	370
18	A Simple Synthetic Strategy toward Defect-Rich Porous Monolayer NiFe-Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1900881.	19.5	363

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19	Core-Shell Layered Double Hydroxide Microspheres with Tunable Interior Architecture for Supercapacitors. <i>Chemistry of Materials</i> , 2012, 24, 1192-1197.	6.7	358
20	Two-dimensional-related catalytic materials for solar-driven conversion of CO _x into valuable chemical feedstocks. <i>Chemical Society Reviews</i> , 2019, 48, 1972-2010.	38.1	350
21	Self-Assembled Au/CdSe Nanocrystal Clusters for Plasmon-Mediated Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1700803.	21.0	311
22	Alumina-Supported CoFe Alloy Catalysts Derived from Layered Double Hydroxide Nanosheets for Efficient Photothermal CO ₂ Hydrogenation to Hydrocarbons. <i>Advanced Materials</i> , 2018, 30, 1704663.	21.0	309
23	Sub-3 nm Ultrafine Monolayer Layered Double Hydroxide Nanosheets for Electrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2018, 8, 1703585.	19.5	274
24	Biotemplated Hierarchical Nanostructure of Layered Double Hydroxides with Improved Photocatalysis Performance. <i>ACS Nano</i> , 2009, 3, 4009-4016.	14.6	265
25	CdS Nanoparticle-Decorated Cd Nanosheets for Efficient Visible Light-Driven Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016, 6, 1501241.	19.5	253
26	NiTi-Layered double hydroxides nanosheets as efficient photocatalysts for oxygen evolution from water using visible light. <i>Chemical Science</i> , 2014, 5, 951-958.	7.4	250
27	Enhanced low-temperature activity of CO ₂ methanation over highly-dispersed Ni/TiO ₂ catalyst. <i>Catalysis Science and Technology</i> , 2013, 3, 2627.	4.1	246
28	Sb ₂ O ₃ /MXene(Ti ₃ C ₂ T _x) hybrid anode materials with enhanced performance for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12445-12452.	10.3	245
29	Graphene-Co ₃ O ₄ nanocomposite as electrocatalyst with high performance for oxygen evolution reaction. <i>Scientific Reports</i> , 2015, 5, 7629.	3.3	234
30	Highly Selective Photoreduction of CO ₂ with Suppressing H ₂ Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600 nm. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11860-11867.	13.8	224
31	Selective photocatalytic CO ₂ reduction over Zn-based layered double hydroxides containing tri or tetravalent metals. <i>Science Bulletin</i> , 2020, 65, 987-994.	9.0	205
32	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. <i>Nano Letters</i> , 2019, 19, 4518-4526.	9.1	191
33	Cobalt-doped MnO ₂ ultrathin nanosheets with abundant oxygen vacancies supported on functionalized carbon nanofibers for efficient oxygen evolution. <i>Nano Energy</i> , 2018, 54, 129-137.	16.0	182
34	Oxide-Modified Nickel Photocatalysts for the Production of Hydrocarbons in Visible Light. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4215-4219.	13.8	176
35	Highly luminescent nitrogen-doped carbon quantum dots as effective fluorescent probes for mercuric and iodide ions. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1922-1928.	5.5	173
36	Microwave-assisted Synthesis of Mesoporous Co ₃ O ₄ Nanoflakes for Applications in Lithium Ion Batteries and Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3306-3313.	8.0	169

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37	Unconventional Nickel Nitride Enriched with Nitrogen Vacancies as a High-Efficiency Electrocatalyst for Hydrogen Evolution. <i>Advanced Science</i> , 2018, 5, 1800406.	11.2	163
38	Naturally nitrogen doped porous carbon derived from waste shrimp shells for high-performance lithium ion batteries and supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2017, 246, 72-80.	4.4	156
39	Solar- versus Thermal-Driven Catalysis for Energy Conversion. <i>Joule</i> , 2019, 3, 920-937.	24.0	153
40	Single Ru atoms with precise coordination on a monolayer layered double hydroxide for efficient electrooxidation catalysis. <i>Chemical Science</i> , 2019, 10, 378-384.	7.4	148
41	Visible-Light-Responsive Photocatalysts toward Water Oxidation Based on NiTi-Layered Double Hydroxide/Reduced Graphene Oxide Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10233-10239.	8.0	147
42	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 2171-2178.	13.7	140
43	Co-Based Catalysts Derived from Layered Double Hydroxide Nanosheets for the Photothermal Production of Light Olefins. <i>Advanced Materials</i> , 2018, 30, e1800527.	21.0	139
44	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 602.	12.8	138
45	Highly Dispersed TiO ₆ Units in a Layered Double Hydroxide for Water Splitting. <i>Chemistry - A European Journal</i> , 2012, 18, 11949-11958.	3.3	132
46	Nitrogen-Doped Porous Carbon Nanosheets from Eco-Friendly Eucalyptus Leaves as High Performance Electrode Materials for Supercapacitors and Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 3683-3690.	3.3	132
47	Hierarchical films of layered double hydroxides by using a sol-gel process and their high adaptability in water treatment. <i>Chemical Communications</i> , 2010, 46, 3031.	4.1	127
48	Ni ³⁺ -doped monolayer layered double hydroxide nanosheets as efficient electrodes for supercapacitors. <i>Nanoscale</i> , 2015, 7, 7168-7173.	5.6	127
49	Synthesis of MoS ₂ and MoO ₂ for their applications in H ₂ generation and lithium ion batteries: a review. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 043501.	6.1	112
50	Fe ₃ C@nitrogen doped CNT arrays aligned on nitrogen functionalized carbon nanofibers as highly efficient catalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19672-19679.	10.3	109
51	Catalytic conversion of syngas to mixed alcohols over CuFe-based catalysts derived from layered double hydroxides. <i>Catalysis Science and Technology</i> , 2013, 3, 1324.	4.1	106
52	Controllable Synthesis of Ultrathin Transition-Metal Hydroxide Nanosheets and their Extended Composite Nanostructures for Enhanced Catalytic Activity in the Heck Reaction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2167-2170.	13.8	105
53	Reductive Transformation of Layered Double Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. <i>Advanced Materials</i> , 2018, 30, e1803127.	21.0	100
54	MoS ₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2015, 21, 15908-15913.	3.3	99

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55	Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2022, 13, 2430.	12.8	98
56	Core-shell Cu@(CuCo-alloy)/Al ₂ O ₃ catalysts for the synthesis of higher alcohols from syngas. <i>Green Chemistry</i> , 2015, 17, 1525-1534.	9.0	93
57	Micelle-Template Synthesis of Nitrogen-Doped Mesoporous Graphene as an Efficient Metal-Free Electrocatalyst for Hydrogen Production. <i>Scientific Reports</i> , 2014, 4, 7557.	3.3	93
58	Facile preparation of black Nb ⁴⁺ -self-doped K ₄ Nb ₆ O ₁₇ microspheres with high solar absorption and enhanced photocatalytic activity. <i>Chemical Communications</i> , 2014, 50, 9554.	4.1	92
59	Visible-light-driven overall water splitting with a largely-enhanced efficiency over a Cu ₂ O@ZnCr-layered double hydroxide photocatalyst. <i>Nano Energy</i> , 2017, 32, 463-469.	16.0	92
60	A Family of Visible-Light Responsive Photocatalysts Obtained by Dispersing CrO ₆ Octahedra into a Hydrotalcite Matrix. <i>Chemistry - A European Journal</i> , 2011, 17, 13175-13181.	3.3	91
61	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. <i>Nano Letters</i> , 2021, 21, 823-832.	9.1	91
62	Modified Tetrathiafulvalene as an Organic Conductor for Improving Performances of Li ⁺ O ₂ Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8505-8509.	13.8	90
63	2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 2065-2088.	9.0	90
64	Enhancement of visible light photocatalysis by grafting ZnO nanoplatelets with exposed (0001) facets onto a hierarchical substrate. <i>Chemical Communications</i> , 2011, 47, 10797.	4.1	89
65	Electrospun cobalt embedded porous nitrogen doped carbon nanofibers as an efficient catalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12818-12824.	10.3	87
66	Immobilized Cu-Cr layered double hydroxide films with visible-light responsive photocatalysis for organic pollutants. <i>Chemical Engineering Journal</i> , 2012, 184, 261-267.	12.7	86
67	Bubble template synthesis of Sn ₂ Nb ₂ O ₇ hollow spheres for enhanced visible-light-driven photocatalytic hydrogen production. <i>Chemical Communications</i> , 2013, 49, 9872.	4.1	84
68	Dual-mode emission of single-layered graphene quantum dots in confined nanospace: Anti-counterfeiting and sensor applications. <i>Nano Research</i> , 2018, 11, 2034-2045.	10.4	83
69	Hierarchical macroporous/mesoporous NiCo ₂ O ₄ nanosheets as cathode catalysts for rechargeable Li ⁺ O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12053.	10.3	82
70	Selective catalytic oxidation of NH ₃ over noble metal-based catalysts: state of the art and future prospects. <i>Catalysis Science and Technology</i> , 2020, 10, 5792-5810.	4.1	82
71	Heteroelement Y-doped Ni(OH) ₂ nanosheets with excellent pseudocapacitive performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10039-10047.	10.3	80
72	Porous graphene wrapped CoO nanoparticles for highly efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5402-5408.	10.3	79

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73	Facile synthesis of ultrathin SnNb ₂ O ₆ nanosheets towards improved visible-light photocatalytic H ₂ -production activity. <i>Chemical Communications</i> , 2016, 52, 8239-8242.	4.1	79
74	Photocatalytic selective oxidation of benzene to phenol in water over layered double hydroxide: A thermodynamic and kinetic perspective. <i>Chemical Engineering Journal</i> , 2020, 388, 124248.	12.7	79
75	Ultrafine monolayer Co-containing layered double hydroxide nanosheets for water oxidation. <i>Journal of Energy Chemistry</i> , 2019, 34, 57-63.	12.9	78
76	Synthesis of LiAl ₂ -layered double hydroxides for CO ₂ capture over a wide temperature range. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18454-18462.	10.3	69
77	Photothermal hydrocarbon synthesis using alumina-supported cobalt metal nanoparticle catalysts derived from layered-double-hydroxide nanosheets. <i>Nano Energy</i> , 2019, 60, 467-475.	16.0	67
78	Highly Accessible Atomically Dispersed Fe _x Sites Electrocatalyst for Proton-Exchange Membrane Fuel Cell. <i>Advanced Science</i> , 2021, 8, 2002249.	11.2	67
79	Silica-Protected Ultrathin Ni ₃ FeN Nanocatalyst for the Efficient Hydrolytic Dehydrogenation of NH ₃ BH ₃ . <i>Advanced Energy Materials</i> , 2018, 8, 1702780.	19.5	66
80	Anchoring Sites Engineering in Single-Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. <i>Advanced Materials</i> , 2021, 33, e2102801.	21.0	64
81	Molecular nitrogen promotes catalytic hydrodeoxygenation. <i>Nature Catalysis</i> , 2019, 2, 1078-1087.	34.4	63
82	Hollow CeO ₂ spheres conformally coated with graphitic carbon for high-performance supercapacitor electrodes. <i>Applied Surface Science</i> , 2019, 463, 244-252.	6.1	63
83	Photo-Driven Syngas Conversion to Lower Olefins over Oxygen-Decorated Fe ₅ C ₂ Catalyst. <i>CheM</i> , 2018, 4, 2917-2928.	11.7	62
84	Graphene with Atomic-Level In-Plane Decoration of h-BN Domains for Efficient Photocatalysis. <i>Chemistry of Materials</i> , 2017, 29, 2769-2776.	6.7	61
85	Binary Cu-Co catalysts derived from hydrotalcites with excellent activity and recyclability towards NH ₃ BH ₃ dehydrogenation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5370.	10.3	60
86	Tuning the selectivity of photoreduction of CO ₂ to syngas over Pd/layered double hydroxide nanosheets under visible light up to 600 nm. <i>Journal of Energy Chemistry</i> , 2020, 46, 1-7.	12.9	59
87	Insight into the Capacitive Properties of Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2248-2254.	8.0	57
88	In-situ La doped Co ₃ O ₄ as highly efficient photocatalyst for solar hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8674-8682.	7.1	57
89	Synthesis and antimicrobial activity of ZnTi-layered double hydroxide nanosheets. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5988.	5.8	56
90	Manganese Oxide Modified Nickel Catalysts for Photothermal CO Hydrogenation to Light Olefins. <i>Advanced Energy Materials</i> , 2020, 10, 1902860.	19.5	56

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91	Fabrication of Hierarchical Layered Double Hydroxide Framework on Aluminum Foam as a Structured Adsorbent for Water Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 285-291.	3.7	55
92	A high strength, low friction, and biocompatible hydrogel from PVA, chitosan and sodium alginate for articular cartilage. <i>Carbohydrate Polymers</i> , 2022, 286, 119268.	10.2	55
93	Photohole-oxidation-assisted anchoring of ultra-small Ru clusters onto TiO ₂ with excellent catalytic activity and stability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2461.	10.3	54
94	Flower-like CdSe ultrathin nanosheet assemblies for enhanced visible-light-driven photocatalytic H ₂ production. <i>Chemical Communications</i> , 2015, 51, 4677-4680.	4.1	53
95	Synergies between Unsaturated Zn/Cu Doping Sites in Carbon Dots Provide New Pathways for Photocatalytic Oxidation. <i>ACS Catalysis</i> , 2018, 8, 747-753.	11.2	53
96	Engineering Active Ni Sites in Ternary Layered Double Hydroxide Nanosheets for a Highly Selective Photoreduction of CO ₂ to CH ₄ under Irradiation above 500 nm. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3008-3015.	3.7	52
97	Fine Tuning the Heterostructured Interfaces by Topological Transformation of Layered Double Hydroxide Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10411-10420.	3.7	51
98	Catalytic behavior of supported Ru nanoparticles on the (101) and (001) facets of anatase TiO ₂ . <i>RSC Advances</i> , 2014, 4, 10834.	3.6	49
99	650Ånm-driven syngas evolution from photocatalytic CO ₂ reduction over Co-containing ternary layered double hydroxide nanosheets. <i>Chemical Engineering Journal</i> , 2021, 412, 128362.	12.7	49
100	Highly Selective Photoreduction of CO ₂ with Suppressing H ₂ Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600Ånm. <i>Angewandte Chemie</i> , 2019, 131, 11986-11993.	2.0	47
101	600 nm Irradiation-Induced Efficient Photocatalytic CO ₂ Reduction by Ultrathin Layered Double Hydroxide Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5848-5857.	3.7	47
102	Responses of Defect-Rich Zr-Based Metal-Organic Frameworks toward NH ₃ Adsorption. <i>Journal of the American Chemical Society</i> , 2021, 143, 3205-3218.	13.7	47
103	600 nm-driven photoreduction of CO ₂ through the topological transformation of layered double hydroxides nanosheets. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118884.	20.2	46
104	Rose flower-like NiCo ₂ O ₄ with hierarchically porous structures for highly reversible lithium storage. <i>Journal of Alloys and Compounds</i> , 2016, 684, 691-698.	5.5	45
105	Carbon Nanosheets: Nitrogen-Doped Porous Carbon Nanosheets Templated from g-C ₃ N ₄ as Metal-Free Electrocatalysts for Efficient Oxygen Reduction Reaction (<i>Adv. Mater.</i> 25/2016). <i>Advanced Materials</i> , 2016, 28, 5140-5140.	21.0	44
106	Scale-up synthesis of monolayer layered double hydroxide nanosheets via separate nucleation and aging steps method for efficient CO ₂ photoreduction. <i>Chemical Engineering Journal</i> , 2021, 419, 129390.	12.7	44
107	A structured catalyst based on cobalt phthalocyanine/calcined Mg-Al hydrotalcite film for the oxidation of mercaptan. <i>Green Chemistry</i> , 2012, 14, 1909.	9.0	43
108	Activating room temperature phosphorescence by organic materials using synergistic effects. <i>Journal of Materials Chemistry C</i> , 2019, 7, 230-236.	5.5	43

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109	Recent Advances in the Synthesis, Characterization and Application of Zn ²⁺ -containing Heterogeneous Catalysts. <i>Advanced Science</i> , 2016, 3, 1500424.	11.2	42
110	Interface Engineering of High-Energy Faceted Co ₃ O ₄ /ZnO Heterostructured Catalysts Derived from Layered Double Hydroxide Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5259-5267.	3.7	42
111	Multiresponsive Supramolecular Luminescent Hydrogels Based on a Nucleoside/Lanthanide Complex. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47404-47412.	8.0	42
112	Fabrication of Zn-Ti layered double hydroxide by varying cationic ratio of Ti ⁴⁺ and its application as UV absorbent. <i>Chinese Chemical Letters</i> , 2017, 28, 394-399.	9.0	41
113	500 nm induced tunable syngas synthesis from CO ₂ photoreduction by controlling heterojunction concentration. <i>Chemical Communications</i> , 2020, 56, 5354-5357.	4.1	40
114	Defect engineering of NiCo-layered double hydroxide hollow nanocages for highly selective photoreduction of CO ₂ to CH ₄ with suppressing H ₂ evolution. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 996-1004.	6.0	38
115	A Bifunctional Organic Redox Catalyst for Rechargeable Lithium-Oxygen Batteries with Enhanced Performances. <i>Advanced Science</i> , 2016, 3, 1500285.	11.2	37
116	CoOOH ultrathin nanoflake arrays aligned on nickel foam: fabrication and use in high-performance supercapacitor devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12833-12840.	10.3	36
117	Site- and Spatial-Selective Integration of Non-noble Metal Ions into Quantum Dots for Robust Hydrogen Photogeneration. <i>Matter</i> , 2020, 3, 571-585.	10.0	36
118	Structure-dependent degradation of nitroimidazoles by cobalt-manganese layered double hydroxide catalyzed peroxymonosulfate process. <i>Chemosphere</i> , 2021, 266, 129006.	8.2	34
119	Preparation of Oriented Layered Double Hydroxide Film Using Electrophoretic Deposition and Its Application in Water Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 2800-2806.	3.7	33
120	Oxide-Modified Nickel Photocatalysts for the Production of Hydrocarbons in Visible Light. <i>Angewandte Chemie</i> , 2016, 128, 4287-4291.	2.0	33
121	P doped MoS ₂ nanoplates embedded in nitrogen doped carbon nanofibers as an efficient catalyst for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 291-298.	9.4	33
122	Tunable Syngas Synthesis from Photocatalytic CO ₂ Reduction Under Visible-Light Irradiation by Interfacial Engineering. <i>Transactions of Tianjin University</i> , 2020, 26, 352-361.	6.4	33
123	Highly efficient atomically dispersed Co-N active sites in porous carbon for high-performance capacitive desalination of brackish water. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3066-3076.	10.3	33
124	Porous Mo ₂ C nanorods as an efficient catalyst for the hydrogen evolution reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 230-235.	4.0	32
125	Novel Na ₂ Mo ₄ O ₁₃ /MoO ₃ hybrid material as highly efficient CWAO catalyst for dye degradation at ambient conditions. <i>Scientific Reports</i> , 2014, 4, 6797.	3.3	31
126	A multi-functional gel co-polymer bridging liquid electrolyte and solid cathode nanoparticles: An efficient route to Li-O ₂ batteries with improved performance. <i>Energy Storage Materials</i> , 2017, 7, 1-7.	18.0	30

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127	A Sustainable Strategy for the Synthesis of Pyrochlore $\text{H}_{4}\text{Nb}_{2}\text{O}_{7}$ Hollow Microspheres as Photocatalysts for Overall Water Splitting. <i>ChemPlusChem</i> , 2017, 82, 181-185.	2.8	30
128	Recent Progress on Nanostructured Layered Double Hydroxides for Visible-Light-Induced Photoreduction of CO_{2} . <i>Chemistry - an Asian Journal</i> , 2020, 15, 3380-3389.	3.3	28
129	Scaled-up synthesis of defect-rich layered double hydroxide monolayers without organic species for efficient oxygen evolution reaction. <i>Green Energy and Environment</i> , 2022, 7, 975-982.	8.7	28
130	Super-Stable Mineralization of Ni^{2+} Ions from Wastewater using CaFe Layered Double Hydroxide. <i>Advanced Functional Materials</i> , 2022, 32, 2106645.	14.9	28
131	Ce-Promoted Rh/TiO ₂ Heterogeneous Catalysts Towards Ethanol Production from Syngas. <i>Catalysis Letters</i> , 2013, 143, 1247-1254.	2.6	26
132	Cu-Doped Carbon Dots with Highly Ordered Alignment in Anisotropic Nano-Space for Improving the Photocatalytic Performance. <i>Solar Rrl</i> , 2017, 1, 1700029.	5.8	26
133	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. <i>Science Advances</i> , 2022, 8, eabm1899.	10.3	26
134	Fabrication of aluminum-doped $\gamma\text{-Ni}(\text{OH})_{2}$ with hierarchical architecture and its largely enhanced electrocatalytic performance. <i>Electrochimica Acta</i> , 2012, 80, 257-263.	5.2	25
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