Hongbing Ji

List of Publications by Year
in descending order

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285	12,588	23567	36028
papers	citations	58 h-index	97 g-index

289	289	289	12355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxygen Vacancy Induced Bismuth Oxyiodide with Remarkably Increased Visible-Light Absorption and Superior Photocatalytic Performance. ACS Applied Materials & Interfaces, 2014, 6, 22920-22927.	8.0	370
2	Updates on the development of nanostructured transition metal nitrides for electrochemical energy storage and water splitting. Materials Today, 2017, 20, 425-451.	14.2	339
3	An overview of advanced methods for the characterization of oxygen vacancies in materials. TrAC - Trends in Analytical Chemistry, 2019, 116, 102-108.	11.4	315
4	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. Nature Communications, 2019, 10, 3687.	12.8	300
5	Visible light Bi2S3/Bi2O3/Bi2O2CO3 photocatalyst for effective degradation of organic pollutions. Applied Catalysis B: Environmental, 2016, 185, 68-76.	20.2	290
6	2D/2D heterojunction of Ti₃C₂/g-C₃N₄ nanosheets for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 8138-8149.	5.6	289
7	A versatile route to fabricate single atom catalysts with high chemoselectivity and regioselectivity in hydrogenation. Nature Communications, 2019, 10, 3663.	12.8	270
8	Bifunctional catalytic material: An ultrastable and high-performance surface defect CeO2 nanosheets for formaldehyde thermal oxidation and photocatalytic oxidation. Applied Catalysis B: Environmental, 2016, 181, 779-787.	20.2	268
9	Monodentate hydroxide as a super strong yet reversible active site for CO₂capture from high-humidity flue gas. Energy and Environmental Science, 2015, 8, 1011-1016.	30.8	233
10	Photoelectrochemical hydrogen production from biomass derivatives and water. Chemical Society Reviews, 2014, 43, 7581-7593.	38.1	216
11	Amorphous type FeOOH modified defective BiVO4 photoanodes for photoelectrochemical water oxidation. Chemical Engineering Journal, 2022, 428, 131027.	12.7	204
12	A monolithic metal-free electrocatalyst for oxygen evolution reaction and overall water splitting. Energy and Environmental Science, 2016, 9, 3411-3416.	30.8	197
13	Putting an ultrahigh concentration of amine groups into a metalâ€“organic framework for CO₂capture at low pressures. Chemical Science, 2016, 7, 6528-6533.	7.4	197
14	An ultrathin carbon layer activated CeO2 heterojunction nanorods for photocatalytic degradation of organic pollutants. Applied Catalysis B: Environmental, 2019, 259, 118085.	20.2	177
15	Monolayer Ti₃C₂T_x as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO₂. ACS Applied Energy Materials, 2019, 2, 4640-4651.	5.1	177
16	Costâ€Effective Alkaline Water Electrolysis Based on Nitrogenâ€and Phosphorusâ€Doped Selfâ€Supportive Electrocatalysts. Advanced Materials, 2017, 29, 1702095.	21.0	175
17	Efficient formaldehyde oxidation over nickel hydroxide promoted Pt/Î³-Al2O3 with a low Pt content. Applied Catalysis B: Environmental, 2017, 200, 543-551.	20.2	159
18	Mechanochemical Kilogram-Scale Synthesis of Noble Metal Single-Atom Catalysts. Cell Reports Physical Science, 2020, 1, 100004.	5.6	139

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19	Highly efficient synthesis of cyclic carbonates from epoxides catalyzed by salen aluminum complexes with built-in â€œCO₂ captureâ€•capability under mild conditions. Green Chemistry, 2014, 16, 1496-1506.	9.0	125
20	Charged Metalloporphyrin Polymers for Cooperative Synthesis of Cyclic Carbonates from CO₂ under Ambient Conditions. ChemSusChem, 2017, 10, 2534-2541.	6.8	122
21	Sulfur Vacancy and Ti₃C₂T_x Cocatalyst Synergistically Boosting Interfacial Charge Transfer in 2D/2D Ti₃C₂T_x/ZnIn₂S₄ Heterostructure for Enhanced Photocatalytic Hydrogen Evolution. Advanced Science, 2022, 9, e2103715.	11.2	120
22	All solid-state Zâ€˜scheme CeO2/ZnIn2S4 hybrid for the photocatalytic selective oxidation of aromatic alcohols coupled with hydrogen evolution. Applied Catalysis B: Environmental, 2020, 277, 119235.	20.2	119
23	Metalloporphyrin Polymers with Intercalated Ionic Liquids for Synergistic CO₂ Fixation via Cyclic Carbonate Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 1074-1082.	6.7	115
24	Enhanced methane combustion performance over NiAl2O4-interface-promoted Pd/Î³-Al2O3. Journal of Catalysis, 2016, 338, 192-201.	6.2	113
25	Coreâ€“Shell NiO@PdO Nanoparticles Supported on Alumina as an Advanced Catalyst for Methane Oxidation. ACS Catalysis, 2017, 7, 1615-1625.	11.2	113
26	Stateâ€ofâ€theâ€Art Aluminum Porphyrinâ€based Heterogeneous Catalysts for the Chemical Fixation of CO₂ into Cyclic Carbonates at Ambient Conditions. ChemCatChem, 2017, 9, 767-773.	3.7	111
27	Efficient Selective Removal of Pb(II) by Using 6-Aminothiouracil-Modified Zr-Based Organic Frameworks: From Experiments to Mechanisms. ACS Applied Materials & Interfaces, 2020, 12, 7162-7178.	8.0	99
28	Theoretical and experimental research of novel fluorine doped hierarchical Sn3O4 microspheres with excellent photocatalytic performance for removal of Cr(VI) and organic pollutants. Chemical Engineering Journal, 2020, 391, 123607.	12.7	97
29	Review on heterophase/homophase junctions for efficient photocatalysis: The case of phase transition construction. Chinese Journal of Catalysis, 2019, 40, 796-818.	14.0	96
30	Comparison of TiO2 Degussa P25 with anatase and rutile crystalline phases for methane combustion. Chemical Engineering Journal, 2014, 243, 254-264.	12.7	93
31	Defect Engineering of Bismuth Oxyiodide by IO₃^{â€“} Doping for Increasing Charge Transport in Photocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 27859-27867.	8.0	93
32	Function-oriented ionic polymers having high-density active sites for sustainable carbon dioxide conversion. Journal of Materials Chemistry A, 2018, 6, 9172-9182.	10.3	91
33	Carbon Dots Sensitized BiOI with Dominant {001} Facets for Superior Photocatalytic Performance. Industrial & Engineering Chemistry Research, 2015, 54, 12788-12794.	3.7	89
34	Facile Synthesis of Kilogram-Scale Co-Alloyed Pt Single-Atom Catalysts via Ball Milling for Hydrodeoxygenation of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 8692-8699.	6.7	89
35	New bi-functional zinc catalysts based on robust and easy-to-handle N-chelating ligands for the synthesis of cyclic carbonates from epoxides and CO₂ under mild conditions. Green Chemistry, 2014, 16, 4179-4189.	9.0	88
36	A phenyl-rich Î²-cyclodextrin porous crosslinked polymer for efficient removal of aromatic pollutants: Insight into adsorption performance and mechanism. Chemical Engineering Journal, 2020, 387, 124020.	12.7	88

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37	A highly durable catalyst based on Co x Mn3â€“x O4 nanosheets for low-temperature formaldehyde oxidation. Nano Research, 2016, 9, 3881-3892.	10.4	87
38	Strong Metal-Support Interaction in Pt/TiO₂ Induced by Mild HCHO and NaBH₄ Solution Reduction and Its Effect on Catalytic Toluene Combustion. Industrial & Engineering Chemistry Research, 2014, 53, 15879-15888.	3.7	86
39	Perovskite-based photocatalysts for organic contaminants removal: Current status and future perspectives. Catalysis Today, 2019, 327, 47-63.	4.4	86
40	MnO₂ Promoted TiO₂ Nanotube Array Supported Pt Catalyst for Formaldehyde Oxidation with Enhanced Efficiency. Industrial & Engineering Chemistry Research, 2015, 54, 8900-8907.	3.7	84
41	CuO-Fe2O3-CeO2/HZSM-5 bifunctional catalyst hydrogenated CO2 for enhanced dimethyl ether synthesis. Chemical Engineering Science, 2016, 153, 10-20.	3.8	84
42	Synthesis of Dimethyl Ether from CO₂ and H₂ Using a Cuâ€“Feâ€“Zr/HZSM-5 Catalyst System. Industrial & Engineering Chemistry Research, 2013, 52, 16648-16655.	3.7	82
43	Enhancing the Photocatalytic Performance of BiOCl_xI_{1â^’x} by Introducing Surface Disorders and Bi Nanoparticles as Cocatalyst. Advanced Materials Interfaces, 2015, 2, 1500249.	3.7	82
44	Alkali-modified non-precious metal 3D-NiCo₂O₄ nanosheets for efficient formaldehyde oxidation at low temperature. Journal of Materials Chemistry A, 2016, 4, 3648-3654.	10.3	81
45	Unveiling the kilogram-scale gold single-atom catalysts via ball milling for preferential oxidation of CO in excess hydrogen. Chemical Engineering Journal, 2020, 389, 124490.	12.7	78
46	Insight into the enhanced performance of TiO 2 nanotube supported Pt catalyst for toluene oxidation. Catalysis Today, 2017, 297, 159-166.	4.4	77
47	MetallosalenâEBased Ionic Porous Polymers as Bifunctional Catalysts for the Conversion of CO₂ into Valuable Chemicals. ChemSusChem, 2017, 10, 1526-1533.	6.8	77
48	Metal- and solvent-free synthesis of cyclic carbonates from epoxides and CO2 in the presence of graphite oxide and ionic liquid under mild conditions: A kinetic study. Carbon, 2015, 82, 1-11.	10.3	75
49	Preparation and characterization of Cu modified BiYO3 for carbon dioxide reduction to formic acid. Applied Catalysis B: Environmental, 2017, 202, 364-373.	20.2	74
50	Tailored covalent organic frameworks for simultaneously capturing and converting CO₂into cyclic carbonates. Journal of Materials Chemistry A, 2021, 9, 20941-20956.	10.3	73
51	Co3O4/CdS p-n heterojunction for enhancing photocatalytic hydrogen production: Co-S bond as a bridge for electron transfer. Applied Surface Science, 2021, 567, 150849.	6.1	73
52	Highly efficient selective oxidation of alcohols to carbonyl compounds catalyzed by ruthenium (III) meso-tetraphenylporphyrin chloride in the presence of molecular oxygen. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 6364-6368.	2.2	72
53	Photocatalytic Properties and Mechanistic Insights into Visible Lightâ€Promoted Aerobic Oxidation of Sulfides to Sulfoxides via Tin Porphyrinâ€Based Porous Aromatic Frameworks. Advanced Synthesis and Catalysis, 2018, 360, 4402-4411.	4.3	67
54	Cooperative Catalytic Activation of Siâ^’H Bonds: CO₂â€Based Synthesis of Formamides from Amines and Hydrosilanes under Mild Conditions. ChemSusChem, 2017, 10, 1224-1232.	6.8	66

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55	An overview of photocatalysis facilitated by 2D heterojunctions. Nanotechnology, 2019, 30, 502002.	2.6	66
56	In situ DRIFTS study of O 3 adsorption on CaO, Î³-Al 2 O 3 , CuO, Î±-Fe 2 O 3 and ZnO at room temperature for the catalytic ozonation of cinnamaldehyde. Applied Surface Science, 2017, 412, 290-305.	6.1	65
57	The enhancement of photocatalytic CO₂ reduction by the in situ growth of TiO₂ on Ti₃C₂ MXene. Catalysis Science and Technology, 2021, 11, 1602-1614.	4.1	65
58	Biomimetic kinetics and mechanism of cyclohexene epoxidation catalyzed by metalloporphyrins. Chemical Engineering Journal, 2010, 156, 411-417.	12.7	63
59	Fabrication of GNS/MoS2 composite with different morphology and its tribological performance as a lubricant additive. Applied Surface Science, 2019, 469, 226-235.	6.1	63
60	Fast adsorption of p -nitrophenol from aqueous solution using Î² -cyclodextrin grafted silica gel. Applied Surface Science, 2015, 356, 1155-1167.	6.1	60
61	Imidazolium-based ionic liquid decorated zinc porphyrin catalyst for converting CO₂ into five-membered heterocyclic molecules. Sustainable Energy and Fuels, 2018, 2, 125-132.	4.9	59
62	Preparation and controllable release of chitosan/vanillin microcapsules and their application to cotton fabric. Flavour and Fragrance Journal, 2014, 29, 114-120.	2.6	58
63	Monolith-Like TiO₂ Nanotube Array Supported Pt Catalyst for HCHO Removal under Mild Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 7629-7636.	3.7	58
64	CO2 reforming of CH4 to syngas over nickel-based catalysts. Environmental Chemistry Letters, 2020, 18, 997-1017.	16.2	57
65	NiFe Layered Double Hydroxide/FeOOH Heterostructure Nanosheets as an Efficient and Durable Bifunctional Electrocatalyst for Overall Seawater Splitting. Inorganic Chemistry, 2021, 60, 17371-17378.	4.0	56
66	Aerobic oxidative cleavage of cinnamaldehyde to benzaldehyde catalyzed by metalloporphyrins under mild conditions. Catalysis Communications, 2009, 10, 828-832.	3.3	55
67	Recent advances in the photocatalytic reduction of carbon dioxide. Environmental Chemistry Letters, 2016, 14, 99-112.	16.2	54
68	Modifying defect States in CeO2 by Fe doping: A strategy for low-temperature catalytic oxidation of toluene with sunlight. Journal of Hazardous Materials, 2020, 390, 122182.	12.4	54
69	Carbon Nitride Polymer Sensitization and Nitrogen Doping of SrTiO₃/TiO₂ Nanotube Heterostructure toward High Visible Light Photocatalytic Performance. Industrial & Engineering Chemistry Research, 2017, 56, 9999-10008.	3.7	53
70	Multifunctional Pt/ZSM-5 catalyst for complete oxidation of gaseous formaldehyde at ambient temperature. Catalysis Today, 2015, 258, 56-63.	4.4	52
71	Improved interface compatibility of hollow H-Zr0.1Ti0.9O2 with UiO-66-NH2 via Zr-Ti bidirectional penetration to boost visible photocatalytic activity for acetaldehyde degradation under high humidity. Applied Catalysis B: Environmental, 2021, 296, 120371.	20.2	51
72	Hybridization of CuO with Bi₂MoO₆ Nanosheets as a Surface Multifunctional Photocatalyst for Toluene Oxidation under Solar Irradiation. ACS Applied Materials & Interfaces, 2020, 12, 2259-2268.	8.0	50

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73	2-Hydroxypropyl-Î²-cyclodextrin Polymer as a Mimetic Enzyme for Mediated Synthesis of Benzaldehyde in Water. ACS Sustainable Chemistry and Engineering, 2013, 1, 1172-1179.	6.7	49
74	Density functional theory study on the interaction of CO2 with Fe3O4(111) surface. Applied Surface Science, 2016, 378, 270-276.	6.1	49
75	Hydrogenation of CO2 to dimethyl ether on La-, Ce-modified Cu-Fe/HZSM-5 catalysts. Catalysis Communications, 2016, 75, 78-82.	3.3	49
76	Enhancement of the visible-light absorption and charge mobility in a zinc porphyrin polymer/g-C3N4 heterojunction for promoting the oxidative coupling of amines. Applied Catalysis B: Environmental, 2021, 285, 119863.	20.2	49
77	Homeostasis in Cu_xO/SrTiO₃ hybrid allows highly active and stable visible light photocatalytic performance. Chemical Communications, 2017, 53, 12329-12332.	4.1	48
78	DFT study of formaldehyde oxidation on silver cluster by active oxygen and hydroxyl groups: Mechanism comparison and synergistic effect. Catalysis Today, 2020, 347, 124-133.	4.4	47
79	Polyethyleneimine-modified magnetic starch microspheres for Cd(II) adsorption in aqueous solutions. Advanced Composites and Hybrid Materials, 2022, 5, 2772-2786.	21.1	45
80	Advances towards the utilization of Vis-NIR light energy by coating YF₃:Yb³⁺,Er³⁺ over ZnS microspheres triggering hydrogen production and pollutants disposal. Journal of Materials Chemistry C, 2019, 7, 8053-8062.	5.5	44
81	Photothermocatalytic synergistic oxidation: An effective way to overcome the negative water effect on supported noble metal catalysts for VOCs oxidation. Chemical Engineering Journal, 2020, 397, 125485.	12.7	44
82	Baeyer-Villiger oxidation of ketones catalyzed by iron(III) meso-tetraphenylporphyrin chloride in the presence of molecular oxygen. Journal of Porphyrins and Phthalocyanines, 2008, 12, 94-100.	0.8	43
83	Recent advances in VOCs and CO removal via photothermal synergistic catalysis. Chinese Journal of Catalysis, 2021, 42, 1078-1095.	14.0	43
84	Electrospun CoSe@NC nanofiber membrane as an effective polysulfides adsorption-catalysis interlayer for Li-S batteries. Chemical Engineering Journal, 2022, 430, 131911.	12.7	43
85	TiO2/BiYO3 composites for enhanced photocatalytic hydrogen production. Journal of Alloys and Compounds, 2020, 836, 155428.	5.5	42
86	Ni/bentonite catalysts prepared by solution combustion method for CO2 methanation. Chinese Journal of Chemical Engineering, 2018, 26, 2361-2367.	3.5	41
87	Z-scheme Ag₃PO₄/Ag/SrTiO₃ Heterojunction for Visible-Light Induced Photothermal Synergistic VOCs Degradation with Enhanced Performance. Industrial & Engineering Chemistry Research, 2019, 58, 13950-13959.	3.7	41
88	Covalent Triazine Frameworks Obtained from Nitrile Monomers for Sustainable CO₂ Catalysis. ChemSusChem, 2020, 13, 6509-6522.	6.8	41
89	Sequential growth reveals multi-spinel interface promotion for methane combustion over alumina supported palladium catalyst. Applied Catalysis B: Environmental, 2020, 273, 119071.	20.2	41
90	Regulate the crystal and optoelectronic properties of Bi2WO6 nanosheet crystals by Sm3+ doping for superior visible-light-driven photocatalytic performance. Applied Surface Science, 2020, 508, 145309.	6.1	41

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91	Surface engineering of MXenes for energy and environmental applications. Journal of Materials Chemistry A, 2022, 10, 10265-10296.	10.3	41
92	Side chain influencing the interaction between Î²â€cyclodextrin and vanillin. Flavour and Fragrance Journal, 2012, 27, 378-385.	2.6	40
93	Solvent-free selective oxidation of primary and secondary alcohols catalyzed by ruthenium-bis(benzimidazole)pyridinedicarboxylate complex using hydrogen peroxide as an oxidant. Tetrahedron Letters, 2013, 54, 3882-3885.	1.4	40
94	Experimental and theoretical study of the intrinsic kinetics for dimethyl ether synthesis from CO₂ over Cuâ€“Feâ€“Zr/HZSMâ€5. AIChE Journal, 2015, 61, 1613-1627.	3.6	40
95	Thiourea modified hyperâ€crosslinked polystyrene resin for heavy metal ions removal from aqueous solutions. Journal of Applied Polymer Science, 2018, 135, 45568.	2.6	40
96	The distinct role of boron doping in Sn₃O₄ microspheres for synergistic removal of phenols and Cr(<scp>vi</scp>) in simulated wastewater. Environmental Science: Nano, 2020, 7, 286-303.	4.3	40
97	Catalytic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran over Atomically Dispersed Ruthenium Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 4333-4337.	3.7	40
98	Î²-Cyclodextrin functionalized SBA-15 via amide linkage as a super adsorbent for rapid removal of methyl blue. Journal of Colloid and Interface Science, 2021, 583, 100-112.	9.4	40
99	Bioinspired Dynamically Switchable PANI/PSâ€bâ€P2VP Thin Films for Multicolored Electrochromic Displays with Longâ€Term Durability. Advanced Functional Materials, 2021, 31, 2106577.	14.9	40
100	Ultrathin 2D/2D Ti₃C₂T_x/semiconductor dual-functional photocatalysts for simultaneous imine production and H₂ evolution. Journal of Materials Chemistry A, 2021, 9, 19984-19993.	10.3	40
101	Thin-Layer Indium Oxide and Cobalt Oxyhydroxide Cobalt-Modified BiVO₄ Photoanode for Solar-Assisted Water Electrolysis. Journal of Physical Chemistry C, 2017, 121, 17150-17159.	3.1	39
102	Titania-supported Pt catalyst reduced with HCHO for HCHO oxidation under mild conditions. Chinese Journal of Catalysis, 2015, 36, 188-196.	14.0	38
103	Synergetic effect of oxygen vacancy and Pd site on the interaction between Pd/Anatase TiO 2 (101) and formaldehyde: A density functional theory study. Catalysis Today, 2017, 297, 151-158.	4.4	38
104	A g-C₃N₄/WO₃ photoanode with exceptional ability for photoelectrochemical water splitting. Materials Chemistry Frontiers, 2017, 1, 338-342.	5.9	38
105	Tribological Study of the SOCNTs@MoS₂ Composite as a Lubricant Additive: Synergistic Effect. Industrial & Engineering Chemistry Research, 2018, 57, 6878-6887.	3.7	38
106	Constructing a CeO_{2â^'x}@CoFe-layered double hydroxide heterostructure as an improved electrocatalyst for highly efficient water oxidation. Inorganic Chemistry Frontiers, 2020, 7, 4461-4468.	6.0	38
107	Enhanced selective removal of Pb(II) by modification low-cost bio-sorbent: Experiment and theoretical calculations. Journal of Cleaner Production, 2021, 316, 128372.	9.3	38
108	Enhanced formaldehyde oxidation performance over Pt/ZSM-5 through a facile nickel cation modification. Applied Surface Science, 2018, 457, 670-675.	6.1	37

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109	A facile route to fabricate double atom catalysts with controllable atomic spacing for the r-WGS reaction. Journal of Materials Chemistry A, 2020, 8, 2364-2368.	10.3	37
110	CO2 methanation on Co/TiO2 catalyst: Effects of Y on the support. Chemical Engineering Science, 2019, 210, 115245.	3.8	36
111	Solid inclusion complex of terpinenâ€4â€ol/Î²â€cyclodextrin: kinetic release, mechanism and its antibacterial activity. Flavour and Fragrance Journal, 2015, 30, 179-187.	2.6	34
112	Biosorption and selective separation of acetophenone and 1-phenylethanol with polysaccharide-based polymers. Chemical Engineering Journal, 2017, 317, 862-872.	12.7	34
113	Enhanced Photocatalytic Mineralization of Gaseous Toluene over SrTiO₃ by Surface Hydroxylation. Industrial & Engineering Chemistry Research, 2016, 55, 11923-11930.	3.7	33
114	Efficient Removal of Copper Ion from Wastewater Using a Stable Chitosan Gel Material. Molecules, 2019, 24, 4205.	3.8	33
115	Soft template inducted hydrothermal BiYO₃ catalysts for enhanced formic acid formation from the photocatalytic reduction of carbon dioxide. RSC Advances, 2016, 6, 52665-52673.	3.6	32
116	Selective inclusion and separation of cinnamaldehyde and benzaldehyde by insoluble Î²-cyclodextrin polymer. Separation and Purification Technology, 2011, 80, 209-216.	7.9	31
117	Three-dimensional TiO₂/CeO₂ nanowire composite for efficient formaldehyde oxidation at low temperature. RSC Advances, 2015, 5, 7729-7733.	3.6	31
118	Highly Efficient, Mild, Bromide-Free and Acetic Acid-Free Dioxygen Oxidation ofp-Nitrotoluene top-Nitrobenzoic Acid with Metal Phthalocyanine Catalysts. Organic Process Research and Development, 2005, 9, 297-301.	2.7	30
119	Efficient remediation of 2,4-dichlorophenol from aqueous solution using Î²-cyclodextrin-based submicron polymeric particles. Chemical Engineering Journal, 2019, 360, 531-541.	12.7	30
120	Mechanism into selective oxidation of cinnamaldehyde using Î²-cyclodextrin polymer as phase-transfer catalyst. Tetrahedron, 2012, 68, 5912-5919.	1.9	29
121	Recyclable bifunctional aluminum salen catalyst for CO2 fixation: the efficient formation of five-membered heterocyclic compounds. Science China Chemistry, 2017, 60, 979-989.	8.2	29
122	A recyclable photocatalytic tea-bag-like device model based on ultrathin Bi/C/BiOX (XÂ=ÂCl, Br) nanosheets. Applied Surface Science, 2020, 515, 145967.	6.1	29
123	Green oxidation of alcohols by a reusable nickel catalyst in the presence of molecular oxygen. Reaction Kinetics and Catalysis Letters, 2007, 90, 251-257.	0.6	28
124	Efficient removal of BTEX from aqueous solution by Î²-cyclodextrin modified poly(butyl methacrylate) resin. Separation and Purification Technology, 2016, 158, 417-421.	7.9	28
125	Rapid and selective recovery of acetophenone from petrochemical effluents by crosslinked starch polymer. Journal of Hazardous Materials, 2018, 348, 20-28.	12.4	28
126	Controllable Synthesis, Core-Shell Nanostructures, and Supercapacitor Performance of Highly Uniform Polypyrrole/Polyaniline Nanospheres. ACS Applied Energy Materials, 2021, 4, 3701-3711.	5.1	28

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127	Tribological Performance of an Imidazolium Ionic Liquid-Functionalized SiO₂@Graphene Oxide as an Additive. ACS Applied Materials & Interfaces, 2021, 13, 50573-50583.	8.0	28
128	Direct aerobic liquid phase epoxidation of propylene catalyzed by Mn(<scp>iii</scp>) porphyrin under mild conditions: evidence for the existence of both peroxide and Mn(<scp>iv</scp>)-oxo species from in situ characterizations. RSC Advances, 2015, 5, 30014-30020.	3.6	27
129	Influence of Zr, Ce, and La on Co 3 O 4 catalyst for CO 2 methanation at low temperature. Chinese Journal of Chemical Engineering, 2018, 26, 768-774.	3.5	27
130	Mn Modified Ni/Bsentonite for CO2 Methanation. Catalysts, 2018, 8, 646.	3.5	27
131	Single Cu atom dispersed on S,N-codoped nanocarbon derived from shrimp shells for highly-efficient oxygen reduction reaction. Nano Research, 2022, 15, 5995-6000.	10.4	27
132	Synchronous pore structure and surface hydroxyl groups amelioration as an efficient route for promoting HCHO oxidation over Pt/ZSM-5. Catalysis Today, 2018, 316, 107-113.	4.4	26
133	Construction of efficient solar-light-driven quaternary Ag3VO4/Zn3(VO4)2/Zn2V2O7/ ZnO heterostructures for removing organic pollutants via phase transformation and in-situ precipitation route. Applied Catalysis A: General, 2019, 578, 70-82.	4.3	26
134	Click-Based Porous Ionic Polymers with Intercalated High-Density Metalloporphyrin for Sustainable CO₂ Transformation. Industrial & Engineering Chemistry Research, 2020, 59, 20269-20277.	3.7	26
135	Sustainable synthesis of multifunctional porous metalloporphyrin polymers for efficient carbon dioxide transformation under mild conditions. Chemical Engineering Science, 2021, 232, 116380.	3.8	26
136	Low-Temperature Photothermal Catalytic Oxidation of Toluene on a Core/Shell SiO₂@Pt@ZrO₂ Nanostructure. Industrial & Engineering Chemistry Research, 2019, 58, 16450-16458.	3.7	25
137	Broadband photocatalysis using a Z-scheme heterojunction of Au/NaYF₄:Yb,Er/WO₃Â·0.33H₂O-W₁₈O₄₉via a synergetic strategy of upconversion function and plasmonic effect. Inorganic Chemistry Frontiers, 2019, 6, 3158-3167.	6.0	25
138	Amino-metalloporphyrin polymers derived Fe single atom catalysts for highly efficient oxygen reduction reaction. Science China Chemistry, 2020, 63, 810-817.	8.2	25
139	Highly dispersed and active Pd nanoparticles over titania support through engineering oxygen vacancies and their anchoring effect. AICHE Journal, 2020, 66, e16288.	3.6	25
140	Removal of various pollutants from wastewaters using an efficient and degradable hypercrosslinked polymer. Separation Science and Technology, 2021, 56, 860-869.	2.5	25
141	TiO2 nanotube arrays sensitized by copper (II) porphyrins with efficient interfacial charge transfer for the photocatalytic degradation of 4-nitrophenol. Journal of Hazardous Materials, 2022, 422, 126869.	12.4	25
142	Oxidation of benzyl alcohol aiming at a greener reaction. Reaction Kinetics and Catalysis Letters, 2003, 78, 73-80.	0.6	24
143	Facile synthesis of a robust visible-light-driven AgCl/WO3 composite microrod photocatalyst. Journal of Alloys and Compounds, 2019, 809, 151844.	5.5	24
144	A Carbazolyl Porphyrinâ€Based Conjugated Microporous Polymer for Metalâ€Free Photocatalytic Aerobic Oxidation Reactions. ChemCatChem, 2020, 12, 3523-3529.	3.7	24

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145	Highly Efficient Oxidative Cleavage of Carbonâ€Carbon Double Bond over mesoâ€Tetraphenyl Cobalt Porphyrin Catalyst in the Presence of Molecular Oxygen. Chinese Journal of Chemistry, 2012, 30, 2103-2108.	4.9	23
146	Surface immobilization of Î²-cyclodextrin on hybrid silica and its fast adsorption performance of p-nitrophenol from the aqueous phase. RSC Advances, 2015, 5, 84410-84422.	3.6	23
147	Metalloporphyrin-mediated aerobic oxidation of hydrocarbons in cumene: Co-substrate specificity and mechanistic consideration. Molecular Catalysis, 2017, 440, 36-42.	2.0	23
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