Hao Yu

List of Publications by Year
in descending order

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303 papers	18,377 citations	11639 70 h-index	18633 119 g-index
309 all docs	309 docs citations	309 times ranked	20338 citing authors

#	Article	IF	Citations
1	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. Chemical Society Reviews, 2019, 48, 4178-4280.	18.7	810
2	Hybrids of Two-Dimensional Ti₃C₂ and TiO₂ Exposing {001} Facets toward Enhanced Photocatalytic Activity. ACS Applied Materials & Interfaces, 2016, 8, 6051-6060.	4.0	653
3	Phosphorusâ€Doped Graphite Layers with High Electrocatalytic Activity for the O₂ Reduction in an Alkaline Medium. Angewandte Chemie - International Edition, 2011, 50, 3257-3261.	7.2	647
4	High efficiency photocatalytic hydrogen production over ternary Cu/TiO2@Ti3C2Tx enabled by low-work-function 2D titanium carbide. Nano Energy, 2018, 53, 97-107.	8.2	300
5	Synthesis and characterization of substitutional and interstitial nitrogen-doped titanium dioxides with visible light photocatalytic activity. Journal of Solid State Chemistry, 2008, 181, 130-136.	1.4	282
6	A hydrothermal etching route to synthesis of 2D MXene (Ti3C2, Nb2C): Enhanced exfoliation and improved adsorption performance. Ceramics International, 2018, 44, 18886-18893.	2.3	276
7	Magnetic Nanocarbon Adsorbents with Enhanced Hexavalent Chromium Removal: Morphology Dependence of Fibrillar vs Particulate Structures. Industrial & Engineering Chemistry Research, 2017, 56, 10689-10701.	1.8	267
8	Preparation of cuprous oxides with different sizes and their behaviors of adsorption, visible-light driven photocatalysis and photocorrosion. Solid State Sciences, 2009, 11, 129-138.	1.5	266
9	Z-scheme Bi2WO6/CuBi2O4 heterojunction mediated by interfacial electric field for efficient visible-light photocatalytic degradation of tetracycline. Chemical Engineering Journal, 2019, 369, 292-301.	6.6	255
10	Floral homeotic genes are targets of gibberellin signaling in flower development. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7827-7832.	3.3	249
11	2H- and 1T- mixed phase few-layer MoS2 as a superior to Pt co-catalyst coated on TiO2 nanorod arrays for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 241, 236-245.	10.8	242
12	Selective Catalysis of the Aerobic Oxidation of Cyclohexane in the Liquid Phase by Carbon Nanotubes. Angewandte Chemie - International Edition, 2011, 50, 3978-3982.	7.2	234
13	Nitrogen-, phosphorous- and boron-doped carbon nanotubes as catalysts for the aerobic oxidation of cyclohexane. Carbon, 2013, 57, 433-442.	5.4	209
14	Carbocatalysis in Liquidâ€Phase Reactions. Angewandte Chemie - International Edition, 2017, 56, 936-964.	7.2	209
15	A carbon nitride/TiO2 nanotube array heterojunction visible-light photocatalyst: synthesis, characterization, and photoelectrochemical properties. Journal of Materials Chemistry, 2012, 22, 17900.	6.7	206
16	Sulfur and nitrogen co-doped carbon nanotubes for enhancing electrochemical oxygen reduction activity in acidic and alkaline media. Journal of Materials Chemistry A, 2013, 1, 14853.	5.2	203
17	(111) TiO 2-x /Ti 3 C 2 : Synergy of active facets, interfacial charge transfer and Ti 3+ doping for enhance photocatalytic activity. Materials Research Bulletin, 2017, 89, 16-25.	2.7	190
18	Integration of cytokinin and gibberellin signalling by Arabidopsis transcription factors GIS, ZFP8 and GIS2 in the regulation of epidermal cell fate. Development (Cambridge), 2007, 134, 2073-2081.	1.2	178

#	Article	IF	Citations
19	Preparation and characterization of Cu2O/TiO2 nanoâ€“nano heterostructure photocatalysts. Catalysis Communications, 2009, 10, 1839-1843.	1.6	170
20	Electronic synergism of pyridinic- and graphitic-nitrogen on N-doped carbons for the oxygen reduction reaction. Chemical Science, 2019, 10, 1589-1596.	3.7	170
21	MnO₂/CNT Supported Pt and PtRu Nanocatalysts for Direct Methanol Fuel Cells. Langmuir, 2009, 25, 7711-7717.	1.6	169
22	Regulating Electronâ€“Hole Separation to Promote Photocatalytic H₂ Evolution Activity of Nanoconfined Ru/MXene/TiO₂ Catalysts. ACS Nano, 2020, 14, 14181-14189.	7.3	160
23	Pt nanoparticles interacting with graphitic nitrogen of N-doped carbon nanotubes: Effect of electronic properties on activity for aerobic oxidation of glycerol and electro-oxidation of CO. Journal of Catalysis, 2015, 325, 136-144.	3.1	154
24	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. Chemical Communications, 2013, 49, 8151.	2.2	149
25	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. Journal of Materials Chemistry A, 2018, 6, 13062-13074.	5.2	145
26	Selective Allylic Oxidation of Cyclohexene Catalyzed by Nitrogen-Doped Carbon Nanotubes. ACS Catalysis, 2014, 4, 1617-1625.	5.5	143
27	Electrochemical Reduction of CO₂ into Tunable Syngas Production by Regulating the Crystal Facets of Earth-Abundant Zn Catalyst. ACS Applied Materials & Interfaces, 2018, 10, 20530-20539.	4.0	141
28	Electrodeposition preparation of Ag loaded N-doped TiO2 nanotube arrays with enhanced visible light photocatalytic performance. Catalysis Communications, 2011, 12, 689-693.	1.6	138
29	Efficient electrochemical reduction of CO2 into CO promoted by sulfur vacancies. Nano Energy, 2019, 60, 43-51.	8.2	136
30	GLABROUS INFLORESCENCE STEMS Modulates the Regulation by Gibberellins of Epidermal Differentiation and Shoot Maturation in Arabidopsis. Plant Cell, 2006, 18, 1383-1395.	3.1	134
31	Synthesis of porous Fe3O4/g-C3N4 nanospheres as highly efficient and recyclable photocatalysts. Materials Research Bulletin, 2013, 48, 1447-1452.	2.7	132
32	Enhanced photocatalytic CO2 reduction in H2O vapor by atomically thin Bi2WO6 nanosheets with hydrophobic and nonpolar surface. Applied Catalysis B: Environmental, 2021, 283, 119630.	10.8	131
33	Carbon nitride polymer sensitized TiO2 nanotube arrays with enhanced visible light photoelectrochemical and photocatalytic performance. Chemical Communications, 2011, 47, 10323.	2.2	128
34	Electron transfer dependent catalysis of Pt on N-doped carbon nanotubes: Effects of synthesis method on metal-support interaction. Journal of Catalysis, 2017, 348, 100-109.	3.1	126
35	Microporous polyimide networks with large surface areas and their hydrogen storage properties. Chemical Communications, 2010, 46, 7730.	2.2	125
36	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. Carbon, 2016, 109, 640-649.	5.4	125

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37	Nitrogen doped carbon nanotubes with encapsulated ferric carbide as excellent electrocatalyst for oxygen reduction reaction in acid and alkaline media. Journal of Power Sources, 2015, 286, 495-503.	4.0	121
38	Electrodeposition of polyhedral Cu2O on TiO2 nanotube arrays for enhancing visible light photocatalytic performance. Electrochemistry Communications, 2011, 13, 861-864.	2.3	120
39	Novel phosphorus-doped multiwalled nanotubes with high electrocatalytic activity for O2 reduction in alkaline medium. Catalysis Communications, 2011, 16, 35-38.	1.6	114
40	Preparation of aluminum foil-supported nano-sized ZnO thin films and its photocatalytic degradation to phenol under visible light irradiation. Materials Research Bulletin, 2006, 41, 2123-2129.	2.7	113
41	Promoting role of bismuth and antimony on Pt catalysts for the selective oxidation of glycerol to dihydroxyacetone. Journal of Catalysis, 2016, 335, 95-104.	3.1	110
42	Photoelectrochemical Characterization of Hydrogenated TiO₂ Nanotubes as Photoanodes for Sensing Applications. ACS Applied Materials & Interfaces, 2013, 5, 11129-11135.	4.0	108
43	Zinc Finger Protein5Is Required for the Control of Trichome Initiation by Acting Upstream ofZinc Finger Protein8in Arabidopsis Â Â Â. Plant Physiology, 2011, 157, 673-682.	2.3	106
44	Facile synthesis of MnO2/CNT nanocomposite and its electrochemical performance for supercapacitors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1073-1078.	1.7	105
45	Synthesis and characterization of g-C3N4/Cu2O composite catalyst with enhanced photocatalytic activity under visible light irradiation. Materials Research Bulletin, 2014, 56, 19-24.	2.7	104
46	Amorphous TiO₂@NH₂-MIL-125(Ti) homologous MOF-encapsulated heterostructures with enhanced photocatalytic activity. Chemical Communications, 2018, 54, 1917-1920.	2.2	101
47	Elucidating Interaction between Palladium and N-Doped Carbon Nanotubes: Effect of Electronic Property on Activity for Nitrobenzene Hydrogenation. ACS Catalysis, 2019, 9, 2893-2901.	5.5	101
48	Facile preparation of RuO2/CNT catalyst by a homogenous oxidation precipitation method and its catalytic performance. Applied Catalysis A: General, 2007, 321, 190-197.	2.2	100
49	â€œIn situâ€•XPS study of band structures at Cu2O/TiO2 heterojunctions interface. Surface Science, 2009, 603, 2825-2834.	0.8	100
50	Selective etching of gold nanorods by ferric chloride at room temperature. CrystEngComm, 2009, 11, 2797.	1.3	100
51	Microporous Cyanate Resins: Synthesis, Porous Structure, and Correlations with Gas and Vapor Adsorptions. Macromolecules, 2012, 45, 5140-5150.	2.2	98
52	Aerobic Liquidâ€Phase Oxidation of Ethylbenzene to Acetophenone Catalyzed by Carbon Nanotubes. ChemCatChem, 2013, 5, 1578-1586.	1.8	97
53	Effect of the metal foam materials on the performance of methanol steam micro-reformer for fuel cells. Applied Catalysis A: General, 2007, 327, 106-113.	2.2	96
54	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. Chemical Engineering Journal, 2014, 240, 434-442.	6.6	96

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55	Non-noble metal copper nanoparticles-decorated TiO 2 nanotube arrays with plasmon-enhanced photocatalytic hydrogen evolution under visible light. International Journal of Hydrogen Energy, 2015, 40, 303-310.	3.8	95
56	Low temperature solvothermal synthesis of anatase TiO2 single crystals with wholly {100} and {001} faceted surfaces. Journal of Materials Chemistry, 2012, 22, 23906.	6.7	91
57	<scp>GLABROUS INFLORESCENCE STEMS</scp>3 (<scp>GIS</scp>3) regulates trichome initiation and development in Arabidopsis. New Phytologist, 2015, 206, 220-230.	3.5	90
58	AgI/TiO2 nanobelts monolithic catalyst with enhanced visible light photocatalytic activity. Journal of Hazardous Materials, 2015, 284, 207-214.	6.5	87
59	Synthesis of carbon nanotubes from liquefied petroleum gas containing sulfur. Carbon, 2002, 40, 2968-2970.	5.4	84
60	A bi-functional Coâ€“CaOâ€“Ca 12 Al 14 O 33 catalyst for sorption-enhanced steam reforming of glycerol to high-purity hydrogen. Chemical Engineering Journal, 2016, 286, 329-338.	6.6	81
61	Designing efficient TiO2-based photoelectrocatalysis systems for chemical engineering and sensing. Chemical Engineering Journal, 2020, 381, 122605.	6.6	81
62	Introduction to the CDEX experiment. Frontiers of Physics, 2013, 8, 412-437.	2.4	80
63	Identifying active sites of CoNC/CNT from pyrolysis of molecularly defined complexes for oxidative esterification and hydrogenation reactions. Catalysis Science and Technology, 2016, 6, 1007-1015.	2.1	80
64	Bifunctional CdS@Co₉S₈/Ni₃S₂ catalyst for efficient electrocatalytic and photo-assisted electrocatalytic overall water splitting. Journal of Materials Chemistry A, 2020, 8, 3083-3096.	5.2	78
65	Selective liquid phase oxidation of benzyl alcohol catalyzed by carbon nanotubes. Chemical Engineering Journal, 2012, 204-206, 98-106.	6.6	77
66	Novel silicon-doped, silicon and nitrogen-codoped carbon nanomaterials with high activity for the oxygen reduction reaction in alkaline medium. Journal of Materials Chemistry A, 2015, 3, 3289-3293.	5.2	77
67	ZnO/CdS/PbS nanotube arrays with multi-heterojunctions for efficient visible-light-driven photoelectrochemical hydrogen evolution. Chemical Engineering Journal, 2019, 362, 658-666.	6.6	76
68	High performance hydrogenated TiO2 nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. Electrochemistry Communications, 2014, 40, 24-27.	2.3	74
69	Engineering highly active Ag/Nb2O5@Nb2CT (MXene) photocatalysts via steering charge kinetics strategy. Chemical Engineering Journal, 2021, 421, 128766.	6.6	73
70	CdS@Ni₃S₂ coreâ€“shell nanorod arrays on nickel foam: a multifunctional catalyst for efficient electrochemical catalytic, photoelectrochemical and photocatalytic H₂ production reaction. Journal of Materials Chemistry A, 2019, 7, 2560-2574.	5.2	71
71	Efficient and stable oxidative steam reforming of ethanol for hydrogen production: Effect of in situ dispersion of Ir over Ir/La2O3. Journal of Catalysis, 2010, 269, 281-290.	3.1	70
72	Novel Highly Active Anatase/Rutile TiO₂ Photocatalyst with Hydrogenated Heterophase Interface Structures for Photoelectrochemical Water Splitting into Hydrogen. ACS Sustainable Chemistry and Engineering, 2018, 6, 10823-10832.	3.2	69

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73	Metal-free carbocatalysis for electrochemical oxygen reduction reaction: Activity origin and mechanism. Journal of Energy Chemistry, 2020, 48, 308-321.	7.1	69
74	Revealing active-site structure of porous nitrogen-defected carbon nitride for highly effective photocatalytic hydrogen evolution. Chemical Engineering Journal, 2019, 373, 687-699.	6.6	68
75	Regulation of the rutile/anatase TiO2 phase junction in-situ grown on â€“OH terminated Ti3C2T (MXene) towards remarkably enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2022, 439, 135685.	6.6	68
76	Facile preparation of porous polybenzimidazole networks and adsorption behavior of CO₂gas, organic and water vapors. Polymer Chemistry, 2013, 4, 961-968.	1.9	67
77	A new insight into regulating high energy facets of rutile TiO2. Journal of Materials Chemistry A, 2013, 1, 4182.	5.2	67
78	MnO2-decorated N-doped carbon nanotube with boosted activity for low-temperature oxidation of formaldehyde. Journal of Hazardous Materials, 2020, 396, 122750.	6.5	66
79	Synthetic control of network topology and pore structure in microporous polyimides based on triangular triphenylbenzene and triphenylamine units. Soft Matter, 2011, 7, 5723.	1.2	65
80	Pt supported on phosphorus-doped carbon nanotube as an anode catalyst for direct methanol fuel cells. Electrochemistry Communications, 2012, 16, 73-76.	2.3	65
81	The Evolution from a Typical Type-I CdS/ZnS to Type-II and Z-Scheme Hybrid Structure for Efficient and Stable Hydrogen Production under Visible Light. ACS Sustainable Chemistry and Engineering, 2020, 8, 4537-4546.	3.2	65
82	High efficient conversion of cellulose to polyols with Ru/CNTs as catalyst. Renewable Energy, 2012, 37, 192-196.	4.3	64
83	Morphology Effect of Ir/La₂O₂CO₃ Nanorods with Selectively Exposed {110} Facets in Catalytic Steam Reforming of Glycerol. ACS Catalysis, 2015, 5, 1155-1163.	5.5	64
84	Electron-Rich Ruthenium on Nitrogen-Doped Carbons Promoting Levulinic Acid Hydrogenation to Î³-Valerolactone: Effect of Metalâ€“Support Interaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 16501-16510.	3.2	64
85	Modeling of velocity distribution among microchannels with triangle manifolds. AICHE Journal, 2009, 55, 1969-1982.	1.8	63
86	ZnO nanorods/Ag nanoparticles heterostructures with tunable Ag contents: A facile solution-phase synthesis and applications in photocatalysis. CrystEngComm, 2013, 15, 5994.	1.3	62
87	Co3S4/NCNTs: A catalyst for oxygen evolution reaction. Catalysis Today, 2015, 245, 74-78.	2.2	62
88	Promoting role of bismuth on carbon nanotube supported platinum catalysts in aqueous phase aerobic oxidation of benzyl alcohol. Applied Catalysis B: Environmental, 2016, 181, 118-126.	10.8	62
89	Lignin derived multi-doped (N, S, Cl) carbon materials as excellent electrocatalyst for oxygen reduction reaction in proton exchange membrane fuel cells. Journal of Energy Chemistry, 2020, 44, 106-114.	7.1	62
90	Phosphorus-doped carbon nanotubes supported low Pt loading catalyst for the oxygen reduction reaction in acidic fuel cells. Journal of Power Sources, 2014, 268, 171-175.	4.0	61

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91	A facile fabrication of hierarchical Ag nanoparticles-decorated N-TiO 2 with enhanced photocatalytic hydrogen production under solar light. International Journal of Hydrogen Energy, 2016, 41, 3446-3455.	3.8	61
92	A novel bicomponent Co₃S₄/Co@C cocatalyst on CdS, accelerating charge separation for highly efficient photocatalytic hydrogen evolution. Green Chemistry, 2020, 22, 238-247.	4.6	61
93	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. Carbon, 2017, 115, 503-514.	5.4	60
94	Thermal stability of gold nanorods in an aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 372, 177-181.	2.3	59
95	Crystal engineering and SERS properties of Agâ€“Fe3O4 nanohybrids: from heterodimer to coreâ€“shell nanostructures. Journal of Materials Chemistry, 2011, 21, 17930.	6.7	59
96	From chicken feather to nitrogen and sulfur co-doped large surface bio-carbon flocs: an efficient electrocatalyst for oxygen reduction reaction. Electrochimica Acta, 2016, 213, 273-282.	2.6	59
97	Confined Iron Nanowires Enhance the Catalytic Activity of Carbon Nanotubes in the Aerobic Oxidation of Cyclohexane. ChemSusChem, 2012, 5, 1213-1217.	3.6	58
98	Co9S8-porous carbon spheres as bifunctional electrocatalysts with high activity and stability for oxygen reduction and evolution reactions. Electrochimica Acta, 2018, 265, 32-40.	2.6	58
99	Phosphorus doped Co9S8@CS as an excellent air-electrode catalyst for zinc-air batteries. Chemical Engineering Journal, 2020, 381, 122683.	6.6	58
100	Noble-metal-based high-entropy-alloy nanoparticles for electrocatalysis. Journal of Energy Chemistry, 2022, 68, 721-751.	7.1	58
101	The role of RuO2 in the electrocatalytic oxidation of methanol for direct methanol fuel cell. Catalysis Communications, 2009, 10, 533-537.	1.6	57
102	Visible light active pure rutile TiO2 photoanodes with 100% exposed pyramid-shaped (111) surfaces. Nano Research, 2012, 5, 762-769.	5.8	57
103	Enhancing the catalytic activity of carbon nanotubes by nitrogen doping in the selective liquid phase oxidation of benzyl alcohol. Catalysis Communications, 2013, 39, 44-49.	1.6	56
104	The effect of edge carbon of carbon nanotubes on the electrocatalytic performance of oxygen reduction reaction. Electrochemistry Communications, 2014, 40, 5-8.	2.3	55
105	Nitrogen-doped graphene-supported cobalt carbonitride@oxide coreâ€“shell nanoparticles as a non-noble metal electrocatalyst for an oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 1142-1151.	5.2	55
106	Synergistic Effect of Nitrogen Dopants on Carbon Nanotubes on the Catalytic Selective Epoxidation of Styrene. ACS Catalysis, 2020, 10, 129-137.	5.5	55
107	Understanding of nitrogen fixation electro catalyzed by molybdenumâ€“iron carbide through the experiment and theory. Nano Energy, 2020, 68, 104374.	8.2	55
108	Carbon nanotubes as catalyst for the aerobic oxidation of cumene to cumene hydroperoxide. Applied Catalysis A: General, 2014, 478, 1-8.	2.2	54

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109	Mg-promoted Ni-CaO microsphere as bi-functional catalyst for hydrogen production from sorption-enhanced steam reforming of glycerol. Chemical Engineering Journal, 2020, 383, 123204.	6.6	53
110	The influence of the electrodeposition potential on the morphology of Cu2O/TiO2 nanotube arrays and their visible-light-driven photocatalytic activity for hydrogen evolution. International Journal of Hydrogen Energy, 2013, 38, 13866-13871.	3.8	52
111	Synthesis of 1,3,5,7-tetrakis(4-cyanatophenyl)adamantane and its microporous polycyanurate network for adsorption of organic vapors, hydrogen and carbon dioxide. Chemical Communications, 2014, 50, 11238.	2.2	52
112	Preparation of phosphorus-doped carbon nanospheres and their electrocatalytic performance for O2 reduction. Journal of Natural Gas Chemistry, 2012, 21, 257-264.	1.8	51
113	Electrodeposition of Cu2O/g-C3N4 heterojunction film on an FTO substrate for enhancing visible light photoelectrochemical water splitting. Chinese Journal of Catalysis, 2017, 38, 365-371.	6.9	51
114	Preparation of nitrogen doped TiO2 photocatalyst by oxidation of titanium nitride with H2O2. Materials Research Bulletin, 2011, 46, 840-844.	2.7	50
115	Effect of nitrogen-doping temperature on the structure and photocatalytic activity of the B,N-doped TiO2. Journal of Solid State Chemistry, 2011, 184, 134-140.	1.4	50
116	Manipulating photocatalytic pathway and activity of ternary Cu2O/(001)TiO2@Ti3C2Tx catalysts for H2 evolution: Effect of surface coverage. International Journal of Hydrogen Energy, 2019, 44, 29975-29985.	3.8	50
117	Preparation of B, N-codoped nanotube arrays and their enhanced visible light photoelectrochemical performances. Electrochemistry Communications, 2011, 13, 121-124.	2.3	48
118	Competitive adsorption on single-atom catalysts: Mechanistic insights into the aerobic oxidation of alcohols over Co N C. Journal of Catalysis, 2019, 377, 283-292.	3.1	48
119	Syngas production by dry reforming of the mixture of glycerol and ethanol with CaCO3. Journal of Energy Chemistry, 2020, 43, 90-97.	7.1	48
120	A simple preparation of nitrogen doped titanium dioxide nanocrystals with exposed (001) facets with high visible light activity. Chemical Communications, 2012, 48, 600-602.	2.2	46
121	sp2- and sp3-hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. Catalysis Science and Technology, 2013, 3, 2654.	2.1	46
122	Cu(OH)2-modified TiO2 nanotube arrays for efficient photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 7241-7245.	3.8	46
123	Novel highly efficient alumina-supported cobalt nitride catalyst for preferential CO oxidation at high temperatures. International Journal of Hydrogen Energy, 2011, 36, 1955-1959.	3.8	45
124	Mechanistic Insight into the Catalytic Oxidation of Cyclohexane over Carbon Nanotubes: Kinetic and In Situ Spectroscopic Evidence. Chemistry - A European Journal, 2013, 19, 9818-9824.	1.7	44
125	Preparation of nitrogen and sulfur co-doped ultrathin graphitic carbon via annealing bagasse lignin as potential electrocatalyst towards oxygen reduction reaction in alkaline and acid media. Journal of Energy Chemistry, 2019, 34, 33-42.	7.1	44
126	Highly uniform and monodisperse carbon nanospheres enriched with cobaltâ€“nitrogen active sites as a potential oxygen reduction electrocatalyst. Journal of Power Sources, 2017, 346, 80-88.	4.0	42

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127	Nickel Nanoparticles Encapsulated in Nitrogen-Doped Carbon Nanotubes as Excellent Bifunctional Oxygen Electrode for Fuel Cell and Metalâ€‘Air Battery. ACS Sustainable Chemistry and Engineering, 2018, 6, 15108-15118.	3.2	42
128	Electrocatalytic Oxidation of Small Molecule Alcohols over Pt, Pd, and Au Catalysts: The Effect of Alcoholâ€™s Hydrogen Bond Donation Ability and Molecular Structure Properties. Catalysts, 2019, 9, 387.	1.6	42
129	Selective oxidation of glycerol over supported noble metal catalysts. Catalysis Today, 2021, 365, 162-171.	2.2	42
130	Synthesis of Responsive Twoâ€Dimensional Polymers via Selfâ€Assembled DNA Networks. Angewandte Chemie - International Edition, 2017, 56, 5040-5044.	7.2	41
131	Catalytic wet air oxidation of phenol over carbon nanotubes: Synergistic effect of carboxyl groups and edge carbons. Carbon, 2018, 133, 464-473.	5.4	41
132	Highly efficient and acid-corrosion resistant nitrogen doped magnetic carbon nanotubes for the hexavalent chromium removal with subsequent reutilization. Chemical Engineering Journal, 2019, 361, 547-558.	6.6	41
133	CdS@Ni3S2 for efficient and stable photo-assisted electrochemical (P-EC) overall water splitting. Chemical Engineering Journal, 2021, 405, 126231.	6.6	41
134	Chemical Synthesis, Structural Characterization, Optical Properties, and Photocatalytic Activity of Ultrathin ZnSe Nanorods. Chemistry - A European Journal, 2011, 17, 8663-8670.	1.7	40
135	A kinetics study on cumene oxidation catalyzed by carbon nanotubes: Effect of N-doping. Chemical Engineering Science, 2018, 177, 391-398.	1.9	40
136	Revealing the Relationship between Photocatalytic Properties and Structure Characteristics of TiO₂ Reduced by Hydrogen and Carbon Monoxide Treatment. ChemSusChem, 2018, 11, 2766-2775.	3.6	40
137	Zinc finger protein 5 (ZFP5) associates with ethylene signaling to regulate the phosphate and potassium deficiency-induced root hair development in Arabidopsis. Plant Molecular Biology, 2020, 102, 143-158.	2.0	39
138	Platinum-based ternary catalysts for the electrooxidation of ethanol. Particuology, 2021, 58, 169-186.	2.0	39
139	Tuning the Selectivity in the Aerobic Oxidation of Cumene Catalyzed by Nitrogenâ€Doped Carbon Nanotubes. ChemCatChem, 2014, 6, 555-560.	1.8	38
140	Co-Cu-CaO catalysts for high-purity hydrogen from sorption-enhanced steam reforming of glycerol. Applied Catalysis A: General, 2017, 533, 9-16.	2.2	38
141	In-situ photo-deposition CuO1â‚“ cluster on TiO2 for enhanced photocatalytic H2-production activity. International Journal of Hydrogen Energy, 2017, 42, 19942-19950.	3.8	38
142	Calcium cobaltate: a phase-change catalyst for stable hydrogen production from bio-glycerol. Energy and Environmental Science, 2018, 11, 660-668.	15.6	38
143	Hydrodynamics and gas mixing in a carbon nanotube agglomerate fluidized bed. AICHE Journal, 2006, 52, 4110-4123.	1.8	37
144	Carbokatalyse in FlÃ¼ssigphasenreaktionen. Angewandte Chemie, 2017, 129, 956-985.	1.6	37

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145	Phaseâ€Controllable Growth Ni_xP_y Modified CdS@Ni₃S₂ Electrodes for Efficient Electrocatalytic and Enhanced Photoassisted Electrocatalytic Overall Water Splitting. Small Methods, 2021, 5, e2100878.	4.6	37
146	Design and preparation of CdS/H-3D-TiO2/Pt-wire photocatalysis system with enhanced visible-light driven H2 evolution. International Journal of Hydrogen Energy, 2017, 42, 928-937.	3.8	35
147	Co-production of high quality hydrogen and synthesis gas via sorption-enhanced steam reforming of glycerol coupled with methane reforming of carbonates. Chemical Engineering Journal, 2019, 360, 47-53.	6.6	35
148	Photoelectrochemical Characterization of a Robust TiO₂/BDD Heterojunction Electrode for Sensing Application in Aqueous Solutions. Langmuir, 2010, 26, 6033-6040.	1.6	34
149	Ni foams decorated with carbon nanotubes as catalytic stirrers for aerobic oxidation of cumene. Chemical Engineering Journal, 2016, 306, 806-815.	6.6	34
150	Catalytic applications of alkali-functionalized carbon nanospheres and their supported Pd nanoparticles. Applied Catalysis B: Environmental, 2016, 184, 104-118.	10.8	34
151	Chemically drilling carbon nanotubes for electrocatalytic oxygen reduction reaction. Electrochimica Acta, 2016, 190, 49-56.	2.6	34
152	Solvent effect on the allylic oxidation of cyclohexene catalyzed by nitrogen doped carbon nanotubes. Catalysis Communications, 2017, 88, 99-103.	1.6	34
153	Capacitance dependent catalytic activity of RuO2Â·xH2O/CNT nanocatalysts for aerobic oxidation of benzyl alcohol. Chemical Communications, 2009, , 2408.	2.2	33
154	Theoretical calculations and controllable synthesis of MoSe2/CdS-CdSe with highly active sites for photocatalytic hydrogen evolution. Chemical Engineering Journal, 2020, 383, 123133.	6.6	33
155	Enhanced methanol oxidation activity of Pt catalyst supported on the phosphorus-doped multiwalled carbon nanotubes in alkaline medium. Catalysis Communications, 2012, 22, 34-38.	1.6	32
156	Enhancing the catalytic activity of carbon nanotubes by filled iron nanowires for selective oxidation of ethylbenzene. Catalysis Communications, 2014, 51, 77-81.	1.6	32
157	Aerobic oxidation of Î±-pinene catalyzed by carbon nanotubes. Catalysis Science and Technology, 2015, 5, 3935-3944.	2.1	32
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