

# Hao Yu

## List of Publications by Citations

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297  
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13,897  
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103  
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309  
ext. papers

16,207  
ext. citations

7.4  
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6.93  
L-index

#	Paper	IF	Citations
297	Phosphorus-doped graphite layers with high electrocatalytic activity for the O <sub>2</sub> reduction in an alkaline medium. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3257-61	16.4	589
296	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 4178-4280	58.5	463
295	Hybrids of Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> and TiO <sub>2</sub> Exposing {001} Facets toward Enhanced Photocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6051-60	9.5	424
294	Synthesis and characterization of substitutional and interstitial nitrogen-doped titanium dioxides with visible light photocatalytic activity. <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 130-136	3.3	252
293	Preparation of cuprous oxides with different sizes and their behaviors of adsorption, visible-light driven photocatalysis and photocorrosion. <i>Solid State Sciences</i> , <b>2009</b> , 11, 129-138	3.4	248
292	Magnetic Nanocarbon Adsorbents with Enhanced Hexavalent Chromium Removal: Morphology Dependence of Fibrillar vs Particulate Structures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10689-10701	3.9	244
291	Floral homeotic genes are targets of gibberellin signaling in flower development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 7827-32	11.5	211
290	Selective catalysis of the aerobic oxidation of cyclohexane in the liquid phase by carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3978-82	16.4	204
289	High efficiency photocatalytic hydrogen production over ternary Cu/TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> enabled by low-work-function 2D titanium carbide. <i>Nano Energy</i> , <b>2018</b> , 53, 97-107	17.1	187
288	A carbon nitride/TiO <sub>2</sub> nanotube array heterojunction visible-light photocatalyst: synthesis, characterization, and photoelectrochemical properties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17900		184
287	Phosphorus-Doped Graphite Layers with High Electrocatalytic Activity for the O <sub>2</sub> Reduction in an Alkaline Medium. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3315-3319	3.6	182
286	Nitrogen-, phosphorous- and boron-doped carbon nanotubes as catalysts for the aerobic oxidation of cyclohexane. <i>Carbon</i> , <b>2013</b> , 57, 433-442	10.4	176
285	Sulfur and nitrogen co-doped carbon nanotubes for enhancing electrochemical oxygen reduction activity in acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14853	13	173
284	Carbocatalysis in Liquid-Phase Reactions. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 936-964	16.4	172
283	2H- and 1T- mixed phase few-layer MoS <sub>2</sub> as a superior to Pt co-catalyst coated on TiO <sub>2</sub> nanorod arrays for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 236-245	21.8	160
282	Preparation and characterization of Cu <sub>2</sub> O/TiO <sub>2</sub> nano/nano heterostructure photocatalysts. <i>Catalysis Communications</i> , <b>2009</b> , 10, 1839-1843	3.2	157
281	MnO <sub>2</sub> /CNT supported Pt and PtRu nanocatalysts for direct methanol fuel cells. <i>Langmuir</i> , <b>2009</b> , 25, 7711-7		156

280	Z-scheme Bi <sub>2</sub> WO <sub>6</sub> /CuBi <sub>2</sub> O <sub>4</sub> heterojunction mediated by interfacial electric field for efficient visible-light photocatalytic degradation of tetracycline. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 292-301	14.7	152
279	A hydrothermal etching route to synthesis of 2D MXene (Ti <sub>3</sub> C <sub>2</sub> , Nb <sub>2</sub> C): Enhanced exfoliation and improved adsorption performance. <i>Ceramics International</i> , <b>2018</b> , 44, 18886-18893	5.1	145
278	Integration of cytokinin and gibberellin signalling by Arabidopsis transcription factors GIS, ZFP8 and GIS2 in the regulation of epidermal cell fate. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 2073-81	6.6	145
277	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13062-13074	13	130
276	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. <i>Chemical Communications</i> , <b>2013</b> , 49, 8151-3	5.8	129
275	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. <i>Journal of Catalysis</i> , <b>2015</b> , 325, 136-144	7.3	125
274	Electrodeposition preparation of Ag loaded N-doped TiO <sub>2</sub> nanotube arrays with enhanced visible light photocatalytic performance. <i>Catalysis Communications</i> , <b>2011</b> , 12, 689-693	3.2	122
273	(111) TiO <sub>2</sub> -x/Ti <sub>3</sub> C <sub>2</sub> : Synergy of active facets, interfacial charge transfer and Ti <sup>3+</sup> doping for enhance photocatalytic activity. <i>Materials Research Bulletin</i> , <b>2017</b> , 89, 16-25	5.1	121
272	Microporous polyimide networks with large surface areas and their hydrogen storage properties. <i>Chemical Communications</i> , <b>2010</b> , 46, 7730-2	5.8	121
271	Carbon nitride polymer sensitized TiO <sub>2</sub> nanotube arrays with enhanced visible light photoelectrochemical and photocatalytic performance. <i>Chemical Communications</i> , <b>2011</b> , 47, 10323-5	5.8	120
270	GLABROUS INFLORESCENCE STEMS modulates the regulation by gibberellins of epidermal differentiation and shoot maturation in Arabidopsis. <i>Plant Cell</i> , <b>2006</b> , 18, 1383-95	11.6	115
269	Synthesis of porous Fe <sub>3</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanospheres as highly efficient and recyclable photocatalysts. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 1447-1452	5.1	114
268	Electrodeposition of polyhedral Cu <sub>2</sub> O on TiO <sub>2</sub> nanotube arrays for enhancing visible light photocatalytic performance. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 861-864	5.1	113
267	Selective Allylic Oxidation of Cyclohexene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ACS Catalysis</i> , <b>2014</b> , 4, 1617-1625	13.1	111
266	Novel phosphorus-doped multiwalled nanotubes with high electrocatalytic activity for O <sub>2</sub> reduction in alkaline medium. <i>Catalysis Communications</i> , <b>2011</b> , 16, 35-38	3.2	109
265	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. <i>Carbon</i> , <b>2016</b> , 109, 640-649	10.4	104
264	Photoelectrochemical characterization of hydrogenated TiO <sub>2</sub> nanotubes as photoanodes for sensing applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11129-35	9.5	102
263	Nitrogen doped carbon nanotubes with encapsulated ferric carbide as excellent electrocatalyst for oxygen reduction reaction in acid and alkaline media. <i>Journal of Power Sources</i> , <b>2015</b> , 286, 495-503	8.9	101

262	Electronic synergism of pyridinic- and graphitic-nitrogen on N-doped carbons for the oxygen reduction reaction. <i>Chemical Science</i> , <b>2019</b> , 10, 1589-1596	9.4	97
261	Preparation of aluminum foil-supported nano-sized ZnO thin films and its photocatalytic degradation to phenol under visible light irradiation. <i>Materials Research Bulletin</i> , <b>2006</b> , 41, 2123-2129	5.1	97
260	Electron transfer dependent catalysis of Pt on N-doped carbon nanotubes: Effects of synthesis method on metal-support interaction. <i>Journal of Catalysis</i> , <b>2017</b> , 348, 100-109	7.3	94
259	Selective etching of gold nanorods by ferric chloride at room temperature. <i>CrystEngComm</i> , <b>2009</b> , 11, 2797	3.3	94
258	Efficient electrochemical reduction of CO <sub>2</sub> into CO promoted by sulfur vacancies. <i>Nano Energy</i> , <b>2019</b> , 60, 43-51	17.1	90
257	Synthesis and characterization of g-C <sub>3</sub> N <sub>4</sub> /Cu <sub>2</sub> O composite catalyst with enhanced photocatalytic activity under visible light irradiation. <i>Materials Research Bulletin</i> , <b>2014</b> , 56, 19-24	5.1	89
256	Electrochemical Reduction of CO into Tunable Syngas Production by Regulating the Crystal Facets of Earth-Abundant Zn Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20530-20539	9.5	86
255	Microporous Cyanate Resins: Synthesis, Porous Structure, and Correlations with Gas and Vapor Adsorptions. <i>Macromolecules</i> , <b>2012</b> , 45, 5140-5150	5.5	85
254	Facile preparation of RuO <sub>2</sub> /CNT catalyst by a homogenous oxidation precipitation method and its catalytic performance. <i>Applied Catalysis A: General</i> , <b>2007</b> , 321, 190-197	5.1	84
253	Effect of the metal foam materials on the performance of methanol steam micro-reformer for fuel cells. <i>Applied Catalysis A: General</i> , <b>2007</b> , 327, 106-113	5.1	84
252	Low temperature solvothermal synthesis of anatase TiO <sub>2</sub> single crystals with wholly {100} and {001} faceted surfaces. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23906		82
251	Non-noble metal copper nanoparticles-decorated TiO <sub>2</sub> nanotube arrays with plasmon-enhanced photocatalytic hydrogen evolution under visible light. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 303-310	6.7	81
250	Facile synthesis of MnO <sub>2</sub> /CNT nanocomposite and its electrochemical performance for supercapacitors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 1073-1078	3.1	81
249	Promoting role of bismuth and antimony on Pt catalysts for the selective oxidation of glycerol to dihydroxyacetone. <i>Journal of Catalysis</i> , <b>2016</b> , 335, 95-104	7.3	80
248	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. <i>Chemical Engineering Journal</i> , <b>2014</b> , 240, 434-442	14.7	80
247	Aerobic Liquid-Phase Oxidation of Ethylbenzene to Acetophenone Catalyzed by Carbon Nanotubes. <i>ChemCatChem</i> , <b>2013</b> , 5, 1578-1586	5.2	80
246	Zinc finger protein5 is required for the control of trichome initiation by acting upstream of zinc finger protein8 in Arabidopsis. <i>Plant Physiology</i> , <b>2011</b> , 157, 673-82	6.6	79
245	Synthesis of carbon nanotubes from liquefied petroleum gas containing sulfur. <i>Carbon</i> , <b>2002</b> , 40, 2968-2970	2.0	79

244	AgI/TiO <sub>2</sub> nanobelts monolithic catalyst with enhanced visible light photocatalytic activity. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 284, 207-14	12.8	78
243	In situ XPS study of band structures at Cu <sub>2</sub> O/TiO <sub>2</sub> heterojunctions interface. <i>Surface Science</i> , <b>2009</b> , 603, 2825-2834	1.8	77
242	Amorphous TiO@NH-MIL-125(Ti) homologous MOF-encapsulated heterostructures with enhanced photocatalytic activity. <i>Chemical Communications</i> , <b>2018</b> , 54, 1917-1920	5.8	74
241	Regulating Electron-Hole Separation to Promote Photocatalytic H <sub>2</sub> Evolution Activity of Nanoconfined Ru/MXene/TiO Catalysts. <i>ACS Nano</i> , <b>2020</b> , 14, 14181-14189	16.7	74
240	Introduction to the CDEX experiment. <i>Frontiers of Physics</i> , <b>2013</b> , 8, 412-437	3.7	70
239	High performance hydrogenated TiO <sub>2</sub> nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. <i>Electrochemistry Communications</i> , <b>2014</b> , 40, 24-27	5.1	69
238	GLABROUS INFLORESCENCE STEMS3 (GIS3) regulates trichome initiation and development in Arabidopsis. <i>New Phytologist</i> , <b>2015</b> , 206, 220-230	9.8	67
237	Selective liquid phase oxidation of benzyl alcohol catalyzed by carbon nanotubes. <i>Chemical Engineering Journal</i> , <b>2012</b> , 204-206, 98-106	14.7	67
236	Identifying active sites of CoNC/CNT from pyrolysis of molecularly defined complexes for oxidative esterification and hydrogenation reactions. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1007-1015	5.5	65
235	A bi-functional Co <sub>2</sub> Al <sub>2</sub> O <sub>7</sub> catalyst for sorption-enhanced steam reforming of glycerol to high-purity hydrogen. <i>Chemical Engineering Journal</i> , <b>2016</b> , 286, 329-338	14.7	64
234	Facile preparation of porous polybenzimidazole networks and adsorption behavior of CO <sub>2</sub> gas, organic and water vapors. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 961-968	4.9	64
233	Efficient and stable oxidative steam reforming of ethanol for hydrogen production: Effect of in situ dispersion of Ir over Ir/La <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2010</b> , 269, 281-290	7.3	64
232	Elucidating Interaction between Palladium and N-Doped Carbon Nanotubes: Effect of Electronic Property on Activity for Nitrobenzene Hydrogenation. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2893-2901	13.1	63
231	Selective Catalysis of the Aerobic Oxidation of Cyclohexane in the Liquid Phase by Carbon Nanotubes. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4064-4068	3.6	63
230	Pt supported on phosphorus-doped carbon nanotube as an anode catalyst for direct methanol fuel cells. <i>Electrochemistry Communications</i> , <b>2012</b> , 16, 73-76	5.1	61
229	Novel silicon-doped, silicon and nitrogen-codoped carbon nanomaterials with high activity for the oxygen reduction reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3289-3293	13	60
228	Synthetic control of network topology and pore structure in microporous polyimides based on triangular triphenylbenzene and triphenylamine units. <i>Soft Matter</i> , <b>2011</b> , 7, 5723	3.6	60
227	High efficient conversion of cellulose to polyols with Ru/CNTs as catalyst. <i>Renewable Energy</i> , <b>2012</b> , 37, 192-196	8.1	58

226	CdS@Ni <sub>3</sub> S <sub>2</sub> core-shell nanorod arrays on nickel foam: a multifunctional catalyst for efficient electrochemical catalytic, photoelectrochemical and photocatalytic H <sub>2</sub> production reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2560-2574	13	56
225	Crystal engineering and SERS properties of Ag@Fe <sub>3</sub> O <sub>4</sub> nanohybrids: from heterodimer to core-shell nanostructures. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17930		56
224	ZnO/CdS/PbS nanotube arrays with multi-heterojunctions for efficient visible-light-driven photoelectrochemical hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2019</b> , 362, 658-666	14.7	56
223	Co <sub>3</sub> S <sub>4</sub> /NCNTs: A catalyst for oxygen evolution reaction. <i>Catalysis Today</i> , <b>2015</b> , 245, 74-78	5.3	55
222	ZnO nanorods/Ag nanoparticles heterostructures with tunable Ag contents: A facile solution-phase synthesis and applications in photocatalysis. <i>CrystEngComm</i> , <b>2013</b> , 15, 5994	3.3	55
221	A new insight into regulating high energy facets of rutile TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4182	13	55
220	Promoting role of bismuth on carbon nanotube supported platinum catalysts in aqueous phase aerobic oxidation of benzyl alcohol. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 181, 118-126	21.8	53
219	A facile fabrication of hierarchical Ag nanoparticles-decorated N-TiO <sub>2</sub> with enhanced photocatalytic hydrogen production under solar light. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 3446-3455	6.7	53
218	Phosphorus-doped carbon nanotubes supported low Pt loading catalyst for the oxygen reduction reaction in acidic fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 171-175	8.9	53
217	The role of RuO <sub>2</sub> in the electrocatalytic oxidation of methanol for direct methanol fuel cell. <i>Catalysis Communications</i> , <b>2009</b> , 10, 533-537	3.2	52
216	Modeling of velocity distribution among microchannels with triangle manifolds. <i>AIChE Journal</i> , <b>2009</b> , 55, 1969-1982	3.6	51
215	Nitrogen-doped graphene-supported cobalt carbonitride@oxide core-shell nanoparticles as a non-noble metal electrocatalyst for an oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1142-1151	13	49
214	Novel Highly Active Anatase/Rutile TiO <sub>2</sub> Photocatalyst with Hydrogenated Heterophase Interface Structures for Photoelectrochemical Water Splitting into Hydrogen. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10823-10832	8.3	48
213	Confined iron nanowires enhance the catalytic activity of carbon nanotubes in the aerobic oxidation of cyclohexane. <i>ChemSusChem</i> , <b>2012</b> , 5, 1213-7	8.3	48
212	Enhancing the catalytic activity of carbon nanotubes by nitrogen doping in the selective liquid phase oxidation of benzyl alcohol. <i>Catalysis Communications</i> , <b>2013</b> , 39, 44-49	3.2	48
211	Thermal stability of gold nanorods in an aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 372, 177-181	5.1	48
210	Synthesis of 1,3,5,7-tetrakis(4-cyanatophenyl)adamantane and its microporous polycyanurate network for adsorption of organic vapors, hydrogen and carbon dioxide. <i>Chemical Communications</i> , <b>2014</b> , 50, 11238-41	5.8	47
209	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. <i>Carbon</i> , <b>2017</b> , 115, 503-514	10.4	46

208	Visible light active pure rutile TiO <sub>2</sub> photoanodes with 100% exposed pyramid-shaped (111) surfaces. <i>Nano Research</i> , <b>2012</b> , 5, 762-769	10	46
207	Preparation of B, N-codoped nanotube arrays and their enhanced visible light photoelectrochemical performances. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 121-124	5.1	46
206	From chicken feather to nitrogen and sulfur co-doped large surface bio-carbon floccs: an efficient electrocatalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 273-282	6.7	46
205	Effect of nitrogen-doping temperature on the structure and photocatalytic activity of the B,N-doped TiO <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 134-140	3.3	45
204	Designing efficient TiO <sub>2</sub> -based photoelectrocatalysis systems for chemical engineering and sensing. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122605	14.7	45
203	Enhanced photocatalytic CO <sub>2</sub> reduction in H <sub>2</sub> O vapor by atomically thin Bi <sub>2</sub> WO <sub>6</sub> nanosheets with hydrophobic and nonpolar surface. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 283, 119630	21.8	45
202	Morphology Effect of Ir/La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> Nanorods with Selectively Exposed {110} Facets in Catalytic Steam Reforming of Glycerol. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1155-1163	13.1	44
201	Revealing active-site structure of porous nitrogen-defected carbon nitride for highly effective photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 687-699	14.7	43
200	Preparation of phosphorus-doped carbon nanospheres and their electrocatalytic performance for O <sub>2</sub> reduction. <i>Journal of Natural Gas Chemistry</i> , <b>2012</b> , 21, 257-264		43
199	Preparation of nitrogen doped TiO <sub>2</sub> photocatalyst by oxidation of titanium nitride with H <sub>2</sub> O <sub>2</sub> . <i>Materials Research Bulletin</i> , <b>2011</b> , 46, 840-844	5.1	43
198	Bifunctional CdS@Co <sub>9</sub> S <sub>8</sub> /Ni <sub>3</sub> S <sub>2</sub> catalyst for efficient electrocatalytic and photo-assisted electrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3083-3096	13	43
197	Co <sub>9</sub> S <sub>8</sub> -porous carbon spheres as bifunctional electrocatalysts with high activity and stability for oxygen reduction and evolution reactions. <i>Electrochimica Acta</i> , <b>2018</b> , 265, 32-40	6.7	42
196	The influence of the electrodeposition potential on the morphology of Cu <sub>2</sub> O/TiO <sub>2</sub> nanotube arrays and their visible-light-driven photocatalytic activity for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 13866-13871	6.7	42
195	A simple preparation of nitrogen doped titanium dioxide nanocrystals with exposed (001) facets with high visible light activity. <i>Chemical Communications</i> , <b>2012</b> , 48, 600-2	5.8	42
194	Novel highly efficient alumina-supported cobalt nitride catalyst for preferential CO oxidation at high temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 1955-1959	6.7	42
193	A novel bicomponent Co <sub>3</sub> S <sub>4</sub> /Co@C cocatalyst on CdS, accelerating charge separation for highly efficient photocatalytic hydrogen evolution. <i>Green Chemistry</i> , <b>2020</b> , 22, 238-247	10	42
192	sp <sup>2</sup> - and sp <sup>3</sup> -hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2654	5.5	41
191	Highly uniform and monodisperse carbon nanospheres enriched with cobalt/nitrogen active sites as a potential oxygen reduction electrocatalyst. <i>Journal of Power Sources</i> , <b>2017</b> , 346, 80-88	8.9	40

190	Metal-free carbocatalysis for electrochemical oxygen reduction reaction: Activity origin and mechanism. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 48, 308-321	12	40
189	The effect of edge carbon of carbon nanotubes on the electrocatalytic performance of oxygen reduction reaction. <i>Electrochemistry Communications</i> , <b>2014</b> , 40, 5-8	5.1	39
188	Cu(OH) <sub>2</sub> -modified TiO <sub>2</sub> nanotube arrays for efficient photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 7241-7245	6.7	39
187	Chemical synthesis, structural characterization, optical properties, and photocatalytic activity of ultrathin ZnSe nanorods. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 8663-70	4.8	39
186	Carbon nanotubes as catalyst for the aerobic oxidation of cumene to cumene hydroperoxide. <i>Applied Catalysis A: General</i> , <b>2014</b> , 478, 1-8	5.1	38
185	Phosphorus doped Co <sub>9</sub> S <sub>8</sub> @CS as an excellent air-electrode catalyst for zinc-air batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122683	14.7	38
184	Electrodeposition of Cu <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> heterojunction film on an FTO substrate for enhancing visible light photoelectrochemical water splitting. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 365-371	11.3	36
183	Mechanistic insight into the catalytic oxidation of cyclohexane over carbon nanotubes: kinetic and in situ spectroscopic evidence. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9818-24	4.8	35
182	Lignin derived multi-doped (N, S, Cl) carbon materials as excellent electrocatalyst for oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 44, 106-114	11.4	35
181	Nickel Nanoparticles Encapsulated in Nitrogen-Doped Carbon Nanotubes as Excellent Bifunctional Oxygen Electrode for Fuel Cell and Metal-Air Battery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 15108-15118	8.3	35
180	Tuning the Selectivity in the Aerobic Oxidation of Cumene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ChemCatChem</i> , <b>2014</b> , 6, 555-560	5.2	34
179	Syngas production by dry reforming of the mixture of glycerol and ethanol with CaCO <sub>3</sub> . <i>Journal of Energy Chemistry</i> , <b>2020</b> , 43, 90-97	12	33
178	Co-Cu-CaO catalysts for high-purity hydrogen from sorption-enhanced steam reforming of glycerol. <i>Applied Catalysis A: General</i> , <b>2017</b> , 533, 9-16	5.1	32
177	Electron-Rich Ruthenium on Nitrogen-Doped Carbons Promoting Levulinic Acid Hydrogenation to Valerolactone: Effect of Metal-Support Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16501-16510	8.3	32
176	Revealing the Relationship between Photocatalytic Properties and Structure Characteristics of TiO <sub>2</sub> Reduced by Hydrogen and Carbon Monoxide Treatment. <i>ChemSusChem</i> , <b>2018</b> , 11, 2766-2775	8.3	32
175	Design and preparation of CdS/H <sub>3</sub> D-TiO <sub>2</sub> /Pt-wire photocatalysis system with enhanced visible-light driven H <sub>2</sub> evolution. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 928-937	6.7	32
174	Photoelectrochemical characterization of a robust TiO <sub>2</sub> /BDD heterojunction electrode for sensing application in aqueous solutions. <i>Langmuir</i> , <b>2010</b> , 26, 6033-40	4	32
173	Synergistic Effect of Nitrogen Dopants on Carbon Nanotubes on the Catalytic Selective Epoxidation of Styrene. <i>ACS Catalysis</i> , <b>2020</b> , 10, 129-137	13.1	32



172	Understanding of nitrogen fixation electro catalyzed by molybdenum-tri-carbide through the experiment and theory. <i>Nano Energy</i> , <b>2020</b> , 68, 104374	17.1	32
171	MnO-decorated N-doped carbon nanotube with boosted activity for low-temperature oxidation of formaldehyde. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 396, 122750	12.8	31
170	Catalytic applications of alkali-functionalized carbon nanospheres and their supported Pd nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 184, 104-118	21.8	31
169	In-situ photo-deposition CuO <sub>1-x</sub> S <sub>x</sub> cluster on TiO <sub>2</sub> for enhanced photocatalytic H <sub>2</sub> -production activity. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 19942-19950	6.7	31
168	Capacitance dependent catalytic activity of RuO <sub>2</sub> x xH <sub>2</sub> O/CNT nanocatalysts for aerobic oxidation of benzyl alcohol. <i>Chemical Communications</i> , <b>2009</b> , 2408-10	5.8	31
167	Carbokatalyse in Flüssigphasenreaktionen. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 956-985	3.6	30
166	Synthesis of Responsive Two-Dimensional Polymers via Self-Assembled DNA Networks. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5040-5044	16.4	30
165	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. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4537-4546	8.3	30
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163	Hydrodynamics and gas mixing in a carbon nanotube agglomerate fluidized bed. <i>AIChE Journal</i> , <b>2006</b> , 52, 4110-4123	3.6	30
162	Calcium cobaltate: a phase-change catalyst for stable hydrogen production from bio-glycerol. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 660-668	35.4	29
161	Manipulating photocatalytic pathway and activity of ternary Cu <sub>2</sub> O/(001)TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> catalysts for H <sub>2</sub> evolution: Effect of surface coverage. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 29975-29985	6.7	29
160	Catalytic wet air oxidation of phenol over carbon nanotubes: Synergistic effect of carboxyl groups and edge carbons. <i>Carbon</i> , <b>2018</b> , 133, 464-473	10.4	28
159	Design, synthesis and the electrochemical performance of MnO <sub>2</sub> /C@CNT as supercapacitor material. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 3389-3393	5.1	28
158	Enhanced methanol oxidation activity of Pt catalyst supported on the phosphorus-doped multiwalled carbon nanotubes in alkaline medium. <i>Catalysis Communications</i> , <b>2012</b> , 22, 34-38	3.2	28
157	Mg-promoted Ni-CaO microsphere as bi-functional catalyst for hydrogen production from sorption-enhanced steam reforming of glycerol. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123204	14.7	28
156	ZnO nanorods/Pt and ZnO nanorods/Ag heteronanostructure arrays with enhanced photocatalytic degradation of dyes. <i>RSC Advances</i> , <b>2014</b> , 4, 59009-59016	3.7	27
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154	Fabrication of uniformly dispersed Ag nanoparticles loaded TiO <sub>2</sub> nanotube arrays for enhancing photoelectrochemical and photocatalytic performances under visible light irradiation. <i>Materials Research Bulletin</i> , <b>2014</b> , 60, 130-136	5.1	26
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152	Chemically drilling carbon nanotubes for electrocatalytic oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 49-56	6.7	25
151	Solvent effect on the allylic oxidation of cyclohexene catalyzed by nitrogen doped carbon nanotubes. <i>Catalysis Communications</i> , <b>2017</b> , 88, 99-103	3.2	25
150	Aerobic oxidation of $\alpha$ -pinene catalyzed by carbon nanotubes. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 3935-3944	5.5	25
149	Micro- and Mesoporous Polycyanurate Networks Based on Triangular Units. <i>ChemPlusChem</i> , <b>2013</b> , 78, 498-505	2.8	25
148	Branched hydrogenated TiO <sub>2</sub> nanorod arrays for improving photocatalytic hydrogen evolution performance under simulated solar light. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 20192-20197	6.7	25
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145	Si-doped carbon nanotubes as efficient metal-free electrocatalysts for O <sub>2</sub> reduction in alkaline medium. <i>Materials Letters</i> , <b>2015</b> , 158, 32-35	3.3	24
144	Boron and nitrogen-codoped TiO <sub>2</sub> nanorods: Synthesis, characterization, and photoelectrochemical properties. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 3002-3007	3.3	24
143	A kinetics study on cumene oxidation catalyzed by carbon nanotubes: Effect of N-doping. <i>Chemical Engineering Science</i> , <b>2018</b> , 177, 391-398	4.4	24
142	Preparation of Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /TiO <sub>2</sub> nanocomposites and their photocatalytic performance under visible light irradiation. <i>Materials and Design</i> , <b>2015</b> , 86, 152-155	8.1	23
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139	Enhancing the catalytic activity of carbon nanotubes by filled iron nanowires for selective oxidation of ethylbenzene. <i>Catalysis Communications</i> , <b>2014</b> , 51, 77-81	3.2	23
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135	Controllable Preparation of Holey Graphene and Electrocatalytic Performance for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , <b>2017</b> , 228, 203-213	6.7	22
134	Sorption-enhanced steam reforming of glycerol over NiCuCaAl catalysts for producing fuel-cell grade hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 17446-17456	6.7	22
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52	3D Conformations of Thick Synthetic Polymer Chains Observed by Cryogenic Electron Microscopy. <i>ACS Nano</i> , <b>2019</b> , 13, 3466-3473	16.7	8
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45	Electrochemical preparation of cobalt hexacyanoferrate nanoparticles under the synergic action of EDTA and overoxidized polypyrrole film. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 650-658	6.7	7
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41	Regulation of the rutile/anatase TiO <sub>2</sub> phase junction in-situ grown on OH terminated Ti <sub>3</sub> C <sub>2</sub> T (MXene) towards remarkably enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135685	14.7	7
40	Selective Catalytic Oxidation of Benzyl Alcohol to Benzaldehyde by Nitrates. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 151	5	6
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38	One-pot synthesis of Ru/Nb <sub>2</sub> O <sub>5</sub> @Nb <sub>2</sub> C ternary photocatalysts for water splitting by harnessing hydrothermal redox reactions. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 303, 120910	21.8	6
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26	High-purity hydrogen production by sorption-enhanced steam reforming of iso-octane over a Pd-promoted Ni-Ca-Al-O bi-functional catalyst. <i>Fuel</i> , <b>2021</b> , 293, 120430	7.1	3
25	Inhibitory effect of Zn <sup>2+</sup> on the chain-initiation process of cumene oxidation. <i>International Journal of Quantum Chemistry</i> , <b>2021</b> , 121, e26780	2.1	3
24	One-Step Synthesis and Characterization of Gold-Hollow PbS <sub>x</sub> Hybrid Nanoparticles. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 4051-4055	3.6	2
23	Noble-metal-based high-entropy-alloy nanoparticles for electrocatalysis. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 68, 721-751	12	2
22	Ce <sub>x</sub> Ni <sub>0.5</sub> La <sub>0.5-x</sub> O Catalysts for Hydrogen Production by Oxidative Steam Reforming of Glycerol: Influence of the Ce-to-La Ratio. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2016</b> , 32, 1527-1533	3.8	2
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16	Speciation Analysis of Heavy Metals in Sludge from a Wastewater Treatment Plant. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 448-453, 376-379	0.3	1
15	Degradation of Typical Indoor Air Pollutants Using Fe-Doped TiO <sub>2</sub> Thin Film under Daylight Illumination. <i>Journal of Chemistry</i> , <b>2014</b> , 2014, 1-5	2.3	1
14	Performance of Fast Thermally Reduced Graphene Oxide for Supercapacitor. <i>Advanced Materials Research</i> , <b>2013</b> , 785-786, 783-786	0.5	1
13	Non-Metal Doped Pd/CNTs Catalysts for Oxygen Reduction Reaction in Alkaline Medium. <i>Advanced Materials Research</i> , <b>2012</b> , 550-553, 238-242	0.5	1
12	Solvent-Free Production of ε-Caprolactone from Oxidation of Cyclohexanone Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 2037-2044	2.9	1
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10	Radical Propagation Facilitating Aerobic Oxidation of Substituted Aromatics Promoted by Tert-Butyl Hydroperoxide. <i>ChemistrySelect</i> , <b>2021</b> , 6, 6895-6903	1.8	1
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3	Pt-Bi-calcium cobaltate enables sorption-enhanced steam reforming of glycerol coupled with chemical-looping CH <sub>4</sub> combustion. <i>AIChE Journal</i> , <b>2021</b> , 67, e17383	3.6	0
2	Can one determine the density of an individual synthetic macromolecule?. <i>Soft Matter</i> , <b>2019</b> , 15, 6547-6556	3.5	0
1	Degradation of Indoor Ammonia Using TiO <sub>2</sub> Thin Film Doped with Iron(III) under Visible Light Illumination. <i>Advanced Materials Research</i> , <b>2013</b> , 668, 136-139	0.5	0