Feng Peng

List of Publications by Citations

329 papers	14,639 citations	64 h-index	105 g-index
346 ext. papers	17,108 ext. citations	7.2 avg, IF	6.96 L-index

#	Paper	IF	Citations
329	Phosphorus-doped graphite layers with high electrocatalytic activity for the O2 reduction in an alkaline medium. *Angewandte Chemie - International Edition*, **2011**, 50, 3257-61	16.4	589
328	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. *Chemical Society Reviews*, **2019**, 48, 4178-4280	58.5	463
327	Hybrids of Two-Dimensional Ti3C2 and TiO2 Exposing {001} Facets toward Enhanced Photocatalytic Activity. *ACS Applied Materials & Interfaces*, **2016**, 8, 6051-60	9.5	424
326	Mechanism study on adsorption of acidified multiwalled carbon nanotubes to Pb(II). *Journal of Colloid and Interface Science*, **2007**, 316, 277-83	9.3	296
325	Fractional purification and bioconversion of hemicelluloses. *Biotechnology Advances*, **2012**, 30, 879-903	17.8	264
324	Comparative study of hemicelluloses obtained by graded ethanol precipitation from sugarcane bagasse. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 6305-17	5.7	256
323	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	3.3	252
322	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	3.4	248
321	Selective catalysis of the aerobic oxidation of cyclohexane in the liquid phase by carbon nanotubes. *Angewandte Chemie - International Edition*, **2011**, 50, 3978-82	16.4	204
320	High efficiency photocatalytic hydrogen production over ternary Cu/TiO2@Ti3C2Tx enabled by low-work-function 2D titanium carbide. *Nano Energy*, **2018**, 53, 97-107	17.1	187
319	A carbon nitride/TiO2 nanotube array heterojunction visible-light photocatalyst: synthesis, characterization, and photoelectrochemical properties. *Journal of Materials Chemistry*, **2012**, 22, 17900		184
318	Phosphorus-Doped Graphite Layers with High Electrocatalytic Activity for the O2 Reduction in an Alkaline Medium. *Angewandte Chemie*, **2011**, 123, 3315-3319	3.6	182
317	Nitrogen-, phosphorous- and boron-doped carbon nanotubes as catalysts for the aerobic oxidation of cyclohexane. *Carbon*, **2013**, 57, 433-442	10.4	176
316	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	13	173
315	Carbocatalysis in Liquid-Phase Reactions. *Angewandte Chemie - International Edition*, **2017**, 56, 936-964	16.4	172
314	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	21.8	160
313	Preparation and characterization of Cu2O/TiO2 nano□ano heterostructure photocatalysts. *Catalysis Communications*, **2009**, 10, 1839-1843	3.2	157

312	MnO2/CNT supported Pt and PtRu nanocatalysts for direct methanol fuel cells. *Langmuir*, **2009**, 25, 77147		156
311	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	14.7	152
310	A hydrothermal etching route to synthesis of 2D MXene (Ti3C2, Nb2C): Enhanced exfoliation and improved adsorption performance. *Ceramics International*, **2018**, 44, 18886-18893	5.1	145
309	Adsorption characteristic of acidified carbon nanotubes for heavy metal Pb(II) in aqueous solution. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2007**, 466, 201-206	5.3	144
308	Preparation of nitrogen-doped titanium dioxide with visible-light photocatalytic activity using a facile hydrothermal method. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1657-1664	3.9	142
307	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. *Journal of Materials Chemistry A*, **2018**, 6, 13062-13074	13	130
306	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. *Chemical Communications*, **2013**, 49, 8151-3	5.8	129
305	Porous Mn2O3 microsphere as a superior anode material for lithium ion batteries. *RSC Advances*, **2012**, 2, 4645	3.7	127
304	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	7.3	125
303	Electrodeposition preparation of Ag loaded N-doped TiO2 nanotube arrays with enhanced visible light photocatalytic performance. *Catalysis Communications*, **2011**, 12, 689-693	3.2	122
302	(111) TiO2-x/Ti3C2: Synergy of active facets, interfacial charge transfer and Ti3+ doping for enhance photocatalytic activity. *Materials Research Bulletin*, **2017**, 89, 16-25	5.1	121
301	Synthesis and characterization of sulfonated single-walled carbon nanotubes and their performance as solid acid catalyst. *Journal of Solid State Chemistry*, **2008**, 181, 432-438	3.3	121
300	Carbon nitride polymer sensitized TiO2 nanotube arrays with enhanced visible light photoelectrochemical and photocatalytic performance. *Chemical Communications*, **2011**, 47, 10323-5	5.8	120
299	Kinetically Controlled Side-Wall Functionalization of Carbon Nanotubes by Nitric Acid Oxidation. *Journal of Physical Chemistry C*, **2008**, 112, 6758-6763	3.8	119
298	Synthesis of porous Fe3O4/g-C3N4 nanospheres as highly efficient and recyclable photocatalysts. *Materials Research Bulletin*, **2013**, 48, 1447-1452	5.1	114
297	Electrodeposition of polyhedral Cu2O on TiO2 nanotube arrays for enhancing visible light photocatalytic performance. *Electrochemistry Communications*, **2011**, 13, 861-864	5.1	113
296	Selective Allylic Oxidation of Cyclohexene Catalyzed by Nitrogen-Doped Carbon Nanotubes. *ACS Catalysis*, **2014**, 4, 1617-1625	13.1	111
295	Novel phosphorus-doped multiwalled nanotubes with high electrocatalytic activity for O2 reduction in alkaline medium. *Catalysis Communications*, **2011**, 16, 35-38	3.2	109

294	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. *Carbon*, **2016**, 109, 640-649	10.4	104
293	Photoelectrochemical characterization of hydrogenated TiO2 nanotubes as photoanodes for sensing applications. *ACS Applied Materials & Interfaces*, **2013**, 5, 11129-35	9.5	102
292	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	8.9	101
291	Electronic synergism of pyridinic- and graphitic-nitrogen on N-doped carbons for the oxygen reduction reaction. *Chemical Science*, **2019**, 10, 1589-1596	9.4	97
290	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	5.1	97
289	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	7.3	94
288	Selective etching of gold nanorods by ferric chloride at room temperature. *CrystEngComm*, **2009**, 11, 2797	3.3	94
287	Sulfonated carbon nanotubes as a strong protonic acid catalyst. *Carbon*, **2005**, 43, 2405-2408	10.4	94
286	Efficient electrochemical reduction of CO2 into CO promoted by sulfur vacancies. *Nano Energy*, **2019**, 60, 43-51	17.1	90
285	Synthesis and characterization of g-C3N4/Cu2O composite catalyst with enhanced photocatalytic activity under visible light irradiation. *Materials Research Bulletin*, **2014**, 56, 19-24	5.1	89
284	Methanol electrocatalytic oxidation on highly dispersed Pt/sulfonated-carbon nanotubes catalysts. *Electrochemistry Communications*, **2006**, 8, 499-504	5.1	88
283	Electrochemical Reduction of CO into Tunable Syngas Production by Regulating the Crystal Facets of Earth-Abundant Zn Catalyst. *ACS Applied Materials & Interfaces*, **2018**, 10, 20530-20539	9.5	86
282	Facile preparation of RuO2/CNT catalyst by a homogenous oxidation precipitation method and its catalytic performance. *Applied Catalysis A: General*, **2007**, 321, 190-197	5.1	84
281	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	5.1	84
280	Low temperature solvothermal synthesis of anatase TiO2 single crystals with wholly {100} and {001} faceted surfaces. *Journal of Materials Chemistry*, **2012**, 22, 23906		82
279	Non-noble metal copper nanoparticles-decorated TiO2 nanotube arrays with plasmon-enhanced photocatalytic hydrogen evolution under visible light. *International Journal of Hydrogen Energy*, **2015**, 40, 303-310	6.7	81
278	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	3.1	81
277	Promoting role of bismuth and antimony on Pt catalysts for the selective oxidation of glycerol to dihydroxyacetone. *Journal of Catalysis*, **2016**, 335, 95-104	7.3	80

276	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. *Chemical Engineering Journal*, **2014**, 240, 434-442	14.7	80
275	Aerobic Liquid-Phase Oxidation of Ethylbenzene to Acetophenone Catalyzed by Carbon Nanotubes. *ChemCatChem*, **2013**, 5, 1578-1586	5.2	80
274	AgI/TiO2 nanobelts monolithic catalyst with enhanced visible light photocatalytic activity. *Journal of Hazardous Materials*, **2015**, 284, 207-14	12.8	78
273	Autothermal reforming of ethanol for hydrogen production over perovskite LaNiO3. *Chemical Engineering Journal*, **2010**, 160, 333-339	14.7	78
272	In situ XPS study of band structures at Cu2O/TiO2 heterojunctions interface. *Surface Science*, **2009**, 603, 2825-2834	1.8	77
271	Regulating Electron-Hole Separation to Promote Photocatalytic H Evolution Activity of Nanoconfined Ru/MXene/TiO Catalysts. *ACS Nano*, **2020**, 14, 14181-14189	16.7	74
270	High performance hydrogenated TiO2 nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. *Electrochemistry Communications*, **2014**, 40, 24-27	5.1	69
269	Selective liquid phase oxidation of benzyl alcohol catalyzed by carbon nanotubes. *Chemical Engineering Journal*, **2012**, 204-206, 98-106	14.7	67
268	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	5.5	65
267	A bi-functional CoCaOCa 12 Al 14 O 33 catalyst for sorption-enhanced steam reforming of glycerol to high-purity hydrogen. *Chemical Engineering Journal*, **2016**, 286, 329-338	14.7	64
266	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	7.3	64
265	Elucidating Interaction between Palladium and N-Doped Carbon Nanotubes: Effect of Electronic Property on Activity for Nitrobenzene Hydrogenation. *ACS Catalysis*, **2019**, 9, 2893-2901	13.1	63
264	Selective Catalysis of the Aerobic Oxidation of Cyclohexane in the Liquid Phase by Carbon Nanotubes. *Angewandte Chemie*, **2011**, 123, 4064-4068	3.6	63
263	Pt supported on phosphorus-doped carbon nanotube as an anode catalyst for direct methanol fuel cells. *Electrochemistry Communications*, **2012**, 16, 73-76	5.1	61
262	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	13	60
261	High efficient conversion of cellulose to polyols with Ru/CNTs as catalyst. *Renewable Energy*, **2012**, 37, 192-196	8.1	58
260	CdS@Ni3S2 coreshell 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	13	56
259	Crystal engineering and SERS properties of AgFe3O4 nanohybrids: from heterodimer to coreshell nanostructures. *Journal of Materials Chemistry*, **2011**, 21, 17930		56

258	ZnO/CdS/PbS nanotube arrays with multi-heterojunctions for efficient visible-light-driven photoelectrochemical hydrogen evolution. *Chemical Engineering Journal*, **2019**, 362, 658-666	14.7	56
257	Co3S4/NCNTs: A catalyst for oxygen evolution reaction. *Catalysis Today*, **2015**, 245, 74-78	5.3	55
256	A new insight into regulating high energy facets of rutile TiO2. *Journal of Materials Chemistry A*, **2013**, 1, 4182	13	55
255	A facile fabrication of hierarchical Ag nanoparticles-decorated N-TiO2 with enhanced photocatalytic hydrogen production under solar light. *International Journal of Hydrogen Energy*, **2016**, 41, 3446-3455	6.7	53
254	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	8.9	53
253	The role of RuO2 in the electrocatalytic oxidation of methanol for direct methanol fuel cell. *Catalysis Communications*, **2009**, 10, 533-537	3.2	52
252	Electrodeposition preparation of octahedral-Cu2O-loaded TiO2 nanotube arrays for visible light-driven photocatalysis. *Scripta Materialia*, **2010**, 63, 159-161	5.6	51
251	Nitrogen-doped graphene-supported cobalt carbonitride@oxide core–shell nanoparticles as a non-noble metal electrocatalyst for an oxygen reduction reaction. *Journal of Materials Chemistry A*, **2015**, 3, 1142-1151	13	49
250	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	8.3	48
249	Confined iron nanowires enhance the catalytic activity of carbon nanotubes in the aerobic oxidation of cyclohexane. *ChemSusChem*, **2012**, 5, 1213-7	8.3	48
248	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	3.2	48
247	Thermal stability of gold nanorods in an aqueous solution. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2010**, 372, 177-181	5.1	48
246	Development of stable PtRu catalyst coated with manganese dioxide for electrocatalytic oxidation of methanol. *Electrochemistry Communications*, **2010**, 12, 1210-1213	5.1	47
245	Visible light active pure rutile TiO2 photoanodes with 100% exposed pyramid-shaped (111) surfaces. *Nano Research*, **2012**, 5, 762-769	10	46
244	Preparation of B, N-codoped nanotube arrays and their enhanced visible light photoelectrochemical performances. *Electrochemistry Communications*, **2011**, 13, 121-124	5.1	46
243	Synthesis of Cu2O nanoboxes, nanocubes and nanospheres by polyol process and their adsorption characteristic. *Materials Research Bulletin*, **2008**, 43, 3047-3053	5.1	46
242	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	6.7	46
241	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	3.3	45

240	Designing efficient TiO2-based photoelectrocatalysis systems for chemical engineering and sensing. *Chemical Engineering Journal*, **2020**, 381, 122605	14.7	45
239	Enhanced photocatalytic CO2 reduction in H2O vapor by atomically thin Bi2WO6 nanosheets with hydrophobic and nonpolar surface. *Applied Catalysis B: Environmental*, **2021**, 283, 119630	21.8	45
238	Morphology Effect of Ir/La2O2CO3 Nanorods with Selectively Exposed {110} Facets in Catalytic Steam Reforming of Glycerol. *ACS Catalysis*, **2015**, 5, 1155-1163	13.1	44
237	Revealing active-site structure of porous nitrogen-defected carbon nitride for highly effective photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2019**, 373, 687-699	14.7	43
236	Preparation of phosphorus-doped carbon nanospheres and their electrocatalytic performance for O2 reduction. *Journal of Natural Gas Chemistry*, **2012**, 21, 257-264		43
235	Preparation of nitrogen doped TiO2 photocatalyst by oxidation of titanium nitride with H2O2. *Materials Research Bulletin*, **2011**, 46, 840-844	5.1	43
234	Bifunctional CdS@Co9S8/Ni3S2 catalyst for efficient electrocatalytic and photo-assisted electrocatalytic overall water splitting. *Journal of Materials Chemistry A*, **2020**, 8, 3083-3096	13	43
233	Co9S8-porous carbon spheres as bifunctional electrocatalysts with high activity and stability for oxygen reduction and evolution reactions. *Electrochimica Acta*, **2018**, 265, 32-40	6.7	42
232	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	6.7	42
231	A simple preparation of nitrogen doped titanium dioxide nanocrystals with exposed (001) facets with high visible light activity. *Chemical Communications*, **2012**, 48, 600-2	5.8	42
230	Steam Reforming of Oxygenate Fuels for Hydrogen Production: A Thermodynamic Study. *Energy & Fuels*, **2011**, 25, 2643-2650	4.1	42
229	Novel highly efficient alumina-supported cobalt nitride catalyst for preferential CO oxidation at high temperatures. *International Journal of Hydrogen Energy*, **2011**, 36, 1955-1959	6.7	42
228	A novel bicomponent Co3S4/Co@C cocatalyst on CdS, accelerating charge separation for highly efficient photocatalytic hydrogen evolution. *Green Chemistry*, **2020**, 22, 238-247	10	42
227	sp2- and sp3-hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. *Catalysis Science and Technology*, **2013**, 3, 2654	5.5	41
226	Highly uniform and monodisperse carbon nanospheres enriched with cobalt–nitrogen active sites as a potential oxygen reduction electrocatalyst. *Journal of Power Sources*, **2017**, 346, 80-88	8.9	40
225	Metal-free carbocatalysis for electrochemical oxygen reduction reaction: Activity origin and mechanism. *Journal of Energy Chemistry*, **2020**, 48, 308-321	12	40
224	Mesoporous zinc-blende ZnS nanoparticles: synthesis, characterization and superior photocatalytic properties. *Nanotechnology*, **2008**, 19, 255603	3.4	40
223	The effect of edge carbon of carbon nanotubes on the electrocatalytic performance of oxygen reduction reaction. *Electrochemistry Communications*, **2014**, 40, 5-8	5.1	39

222	Cu(OH)2-modified TiO2 nanotube arrays for efficient photocatalytic hydrogen production. *International Journal of Hydrogen Energy*, **2013**, 38, 7241-7245	6.7	39
221	Chemical synthesis, structural characterization, optical properties, and photocatalytic activity of ultrathin ZnSe nanorods. *Chemistry - A European Journal*, **2011**, 17, 8663-70	4.8	39
220	Tailoring the geometric and electronic structure of tungsten oxide with manganese or vanadium doping toward highly efficient electrochemical and photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2019**, 7, 6161-6172	13	38
219	Carbon nanotubes as catalyst for the aerobic oxidation of cumene to cumene hydroperoxide. *Applied Catalysis A: General*, **2014**, 478, 1-8	5.1	38
218	Phosphorus doped Co9S8@CS as an excellent air-electrode catalyst for zinc-air batteries. *Chemical Engineering Journal*, **2020**, 381, 122683	14.7	38
217	Superior cycle stability of graphene nanosheets prepared by freeze-drying process as anodes for lithium-ion batteries. *Journal of Power Sources*, **2014**, 254, 198-203	8.9	37
216	Thermodynamic analysis of hydrogen generation via oxidative steam reforming of glycerol. *Renewable Energy*, **2011**, 36, 2120-2127	8.1	37
215	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	11.3	36
214	Mechanistic insight into the catalytic oxidation of cyclohexane over carbon nanotubes: kinetic and in situ spectroscopic evidence. *Chemistry - A European Journal*, **2013**, 19, 9818-24	4.8	35
213	One-step synthesis and characterization of gold-hollow PbS(x) hybrid nanoparticles. *Angewandte Chemie - International Edition*, **2009**, 48, 3991-5	16.4	35
212	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	12	35
211	Nickel Nanoparticles Encapsulated in Nitrogen-Doped Carbon Nanotubes as Excellent Bifunctional Oxygen Electrode for Fuel Cell and Metal–Air Battery. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15108-15118	8.3	35
210	Low-overpotential selective reduction of CO2 to ethanol on electrodeposited CuxAuy nanowire arrays. *Journal of Energy Chemistry*, **2019**, 37, 176-182	12	34
209	Tuning the Selectivity in the Aerobic Oxidation of Cumene Catalyzed by Nitrogen-Doped Carbon Nanotubes. *ChemCatChem*, **2014**, 6, 555-560	5.2	34
208	Synergies of the crystallinity and conductive agents on the electrochemical properties of the hollow Fe3O4 spheres. *Electrochimica Acta*, **2012**, 76, 495-503	6.7	33
207	RuO2·xH2O Supported on Carbon Nanotubes as a Highly Active Catalyst for Methanol Oxidation. *Journal of Physical Chemistry C*, **2008**, 112, 11875-11880	3.8	33
206	Syngas production by dry reforming of the mixture of glycerol and ethanol with CaCO3. *Journal of Energy Chemistry*, **2020**, 43, 90-97	12	33
205	Co-Cu-CaO catalysts for high-purity hydrogen from sorption-enhanced steam reforming of glycerol. *Applied Catalysis A: General*, **2017**, 533, 9-16	5.1	32

204	Electron-Rich Ruthenium on Nitrogen-Doped Carbons Promoting Levulinic Acid Hydrogenation to γ-Valerolactone: Effect of Metal–Support Interaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16501-16510	8.3	32
203	Organic-free Anatase TiO2 Paste for Efficient Plastic Dye-Sensitized Solar Cells and Low Temperature Processed Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 19431-8	9.5	32
202	Revealing the Relationship between Photocatalytic Properties and Structure Characteristics of TiO Reduced by Hydrogen and Carbon Monoxide Treatment. *ChemSusChem*, **2018**, 11, 2766-2775	8.3	32
201	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	6.7	32
200	Photoelectrochemical characterization of a robust TiO2/BDD heterojunction electrode for sensing application in aqueous solutions. *Langmuir*, **2010**, 26, 6033-40	4	32
199	Synergistic Effect of Nitrogen Dopants on Carbon Nanotubes on the Catalytic Selective Epoxidation of Styrene. *ACS Catalysis*, **2020**, 10, 129-137	13.1	32
198	Understanding of nitrogen fixation electro catalyzed by molybdenum–iron carbide through the experiment and theory. *Nano Energy*, **2020**, 68, 104374	17.1	32
197	MnO-decorated N-doped carbon nanotube with boosted activity for low-temperature oxidation of formaldehyde. *Journal of Hazardous Materials*, **2020**, 396, 122750	12.8	31
196	In-situ photo-deposition CuO1–cluster on TiO2 for enhanced photocatalytic H2-production activity. *International Journal of Hydrogen Energy*, **2017**, 42, 19942-19950	6.7	31
195	Capacitance dependent catalytic activity of RuO2 x xH2O/CNT nanocatalysts for aerobic oxidation of benzyl alcohol. *Chemical Communications*, **2009**, 2408-10	5.8	31
194	Carbokatalyse in Flüssigphasenreaktionen. *Angewandte Chemie*, **2017**, 129, 956-985	3.6	30
193	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	8.3	30
192	Enhancing hydrogen evolution reaction through modulating electronic structure of self-supported NiFe LDH. *Catalysis Science and Technology*, **2020**, 10, 4184-4190	5.5	29
191	Calcium cobaltate: a phase-change catalyst for stable hydrogen production from bio-glycerol. *Energy and Environmental Science*, **2018**, 11, 660-668	35.4	29
190	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	6.7	29
189	A Novel Carbon-Encapsulated Cobalt-Tungsten Carbide as Electrocatalyst for Oxygen Reduction Reaction in Alkaline Media. *Fuel Cells*, **2013**, 13, 387-391	2.9	29
188	Hydrogen production via autothermal reforming of ethanol over noble metal catalysts supported on oxides. *Journal of Natural Gas Chemistry*, **2009**, 18, 191-198		29
187	Catalytic wet air oxidation of phenol over carbon nanotubes: Synergistic effect of carboxyl groups and edge carbons. *Carbon*, **2018**, 133, 464-473	10.4	28

186	Design, synthesis and the electrochemical performance of MnO2/C@CNT as supercapacitor material. *Materials Research Bulletin*, **2013**, 48, 3389-3393	5.1	28
185	Enhanced methanol oxidation activity of Pt catalyst supported on the phosphorus-doped multiwalled carbon nanotubes in alkaline medium. *Catalysis Communications*, **2012**, 22, 34-38	3.2	28
184	Preparation of boron and phosphor co-doped TiO2 nanotube arrays and their photoelectrochemical property. *Electrochemistry Communications*, **2012**, 19, 127-130	5.1	27
183	Fabrication of uniformly dispersed Ag nanoparticles loaded TiO 2 nanotube arrays for enhancing photoelectrochemical and photocatalytic performances under visible light irradiation. *Materials Research Bulletin*, **2014**, 60, 130-136	5.1	26
182	Synthesis of cationic hemicellulosic derivatives with a low degree of substitution in dimethyl sulfoxide media. *Journal of Applied Polymer Science*, **2008**, 109, 2711-2717	2.9	26
181	Assessment and optimization of the mass-transfer limitation in a metal foam methanol microreformer. *Applied Catalysis A: General*, **2008**, 337, 155-162	5.1	26
180	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	14.7	26
179	CdS branched TiO2: Rods-on-rods nanoarrays for efficient photoelectrochemical (PEC) and self-bias photocatalytic (PC) hydrogen production. *Journal of Power Sources*, **2019**, 430, 32-42	8.9	25
178	Chemically drilling carbon nanotubes for electrocatalytic oxygen reduction reaction. *Electrochimica Acta*, **2016**, 190, 49-56	6.7	25
177	Solvent effect on the allylic oxidation of cyclohexene catalyzed by nitrogen doped carbon nanotubes. *Catalysis Communications*, **2017**, 88, 99-103	3.2	25
176	Aerobic oxidation of □pinene catalyzed by carbon nanotubes. *Catalysis Science and Technology*, **2015**, 5, 3935-3944	5.5	25
175	Branched hydrogenated TiO 2 nanorod arrays for improving photocatalytic hydrogen evolution performance under simulated solar light. *International Journal of Hydrogen Energy*, **2016**, 41, 20192-20197	6.7	25
174	Enhanced activity and durability of platinum anode catalyst by the modification of cobalt phosphide for direct methanol fuel cells. *Electrochimica Acta*, **2015**, 185, 178-183	6.7	24
173	Si-doped carbon nanotubes as efficient metal-free electrocatalysts for O2 reduction in alkaline medium. *Materials Letters*, **2015**, 158, 32-35	3.3	24
172	Boron and nitrogen-codoped TiO2 nanorods: Synthesis, characterization, and photoelectrochemical properties. *Journal of Solid State Chemistry*, **2011**, 184, 3002-3007	3.3	24
171	A kinetics study on cumene oxidation catalyzed by carbon nanotubes: Effect of N-doping. *Chemical Engineering Science*, **2018**, 177, 391-398	4.4	24
170	Dual modification of TiO 2 nanorods for selective photoelectrochemical detection of organic compounds. *Sensors and Actuators B: Chemical*, **2017**, 250, 307-314	8.5	23
169	Preparation of Bi2Ti2O7/TiO2 nanocomposites and their photocatalytic performance under visible light irradiation. *Materials and Design*, **2015**, 86, 152-155	8.1	23

168	Controlled preparation of Ag□Cu2O nanocorncobs and their enhanced photocatalytic activity under visible light. *Materials Research Bulletin*, **2015**, 70, 296-302	5.1	23
167	Facile preparation of hierarchical TiO2 nanowire□anoparticle/nanotube architecture for highly efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20366-20374	13	23
166	Design of cocatalyst loading position for photocatalytic water splitting into hydrogen in electrolyte solutions. *International Journal of Hydrogen Energy*, **2018**, 43, 5551-5560	6.7	23
165	Enhancing the catalytic activity of carbon nanotubes by filled iron nanowires for selective oxidation of ethylbenzene. *Catalysis Communications*, **2014**, 51, 77-81	3.2	23
164	Heterostructured CoO/3D-TiO2 nanorod arrays for photoelectrochemical water splitting hydrogen production. *Journal of Solid State Electrochemistry*, **2017**, 21, 455-461	2.6	23
163	Ni foams decorated with carbon nanotubes as catalytic stirrers for aerobic oxidation of cumene. *Chemical Engineering Journal*, **2016**, 306, 806-815	14.7	23
162	Controllable Preparation of Holey Graphene and Electrocatalytic Performance for Oxygen Reduction Reaction. *Electrochimica Acta*, **2017**, 228, 203-213	6.7	22
161	Sorption-enhanced steam reforming of glycerol over NiCuCaAl catalysts for producing fuel-cell grade hydrogen. *International Journal of Hydrogen Energy*, **2017**, 42, 17446-17456	6.7	22
160	Competitive adsorption on single-atom catalysts: Mechanistic insights into the aerobic oxidation of alcohols over CoNC. *Journal of Catalysis*, **2019**, 377, 283-292	7.3	22
159	Magnetic Fe3C@C nanoparticles as a novel cocatalyst for boosting visible-light-driven photocatalytic performance of g-C3N4. *International Journal of Hydrogen Energy*, **2019**, 44, 26970-26981	6.7	22
158	Nanocrystal Cu2O-loaded TiO2 nanotube array films as high-performance visible-light bactericidal photocatalyst. *Applied Microbiology and Biotechnology*, **2012**, 96, 1201-7	5.7	22
157	Facile Preparation of an Excellent Pt/RuO2-MnO2/CNTs Nanocatalyst for Anodes of Direct Methanol Fuel Cells. *Fuel Cells*, **2011**, 11, 301-308	2.9	22
156	Preparation of carbon nanotube-supported Fe2O3 catalysts and their catalytic activities for ethylbenzene dehydrogenation. *New Carbon Materials*, **2007**, 22, 213-217	4.4	22
155	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	14.7	22
154	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	12	22
153	New route of fabricating BiOI and Bi 2 O 3 supported TiO 2 nanotube arrays via the electrodeposition of bismuth nanoparticles for photocatalytic degradation of acid orange II. *Materials Chemistry and Physics*, **2017**, 196, 237-244	4.4	21
152	O2 and H2O2 transformation steps for the oxygen reduction reaction catalyzed by graphitic nitrogen-doped carbon nanotubes in acidic electrolyte from first principles calculations. *Physical Chemistry Chemical Physics*, **2015**, 17, 21950-9	3.6	21
151	Effect of calcium dopant on catalysis of Ir/La2O3 for hydrogen production by oxidative steam reforming of glycerol. *Applied Catalysis B: Environmental*, **2012**, 127, 89-98	21.8	21

150	A Novel Carbothermal Synthesis Route for Carbon Nanotube Supported Fe2P Nanoparticles. *Topics in Catalysis*, **2012**, 55, 1040-1045	2.3	21
149	Effect of Experimental Operations on the Limiting Current Density of Oxygen Reduction Reaction Evaluated by Rotating-Disk Electrode. *ChemElectroChem*, **2020**, 7, 1107-1114	4.3	21
148	Boosting photocatalytic hydrogen evolution using a noble-metal-free co-catalyst: CuNi@C with oxygen-containing functional groups. *Applied Catalysis B: Environmental*, **2021**, 291, 120139	21.8	21
147	Trace iron impurities deactivate palladium supported on nitrogen-doped carbon nanotubes for nitrobenzene hydrogenation. *Applied Catalysis A: General*, **2017**, 545, 54-63	5.1	20
146	Controlled synthesis of octahedral Cu2O on TiO2 nanotube arrays by electrochemical deposition. *Materials Chemistry and Physics*, **2011**, 130, 316-322	4.4	20
145	Chemical synthesis, structure characterization, and optical properties of hollow PbS(x)-solid Au heterodimer nanostructures. *Chemistry - A European Journal*, **2010**, 16, 5920-6	4.8	20
144	FeCo alloy@N-doped graphitized carbon as an efficient cocatalyst for enhanced photocatalytic H2 evolution by inducing accelerated charge transfer. *Journal of Energy Chemistry*, **2021**, 52, 92-101	12	20
143	Antibacterial Activities of Novel Dithiocarbamate-Containing 4-Chromen-4-one Derivatives. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 5641-5647	5.7	19
142	An opposite change rule in carbon nanotubes supported platinum catalyst for methanol oxidation and oxygen reduction reactions. *Journal of Power Sources*, **2014**, 260, 1-5	8.9	19
141	Facile formation of branched titanate nanotubes to grow a three-dimensional nanotubular network directly on a solid substrate. *Langmuir*, **2010**, 26, 1574-8	4	19
140	Microemulsion Synthesis of Nanosized SiO2/TiO2 Particles and Their Photocatalytic Activity. *Chinese Journal of Catalysis*, **2007**, 28, 251-256	11.3	19
139	Enhancing the photocatalytic efficiency of TiO2 nanotube arrays for H2 production by using non-noble metal cobalt as co-catalyst. *Materials Letters*, **2016**, 165, 37-40	3.3	18
138	Design of two kinds of branched TiO2 nano array photoanodes and their comparison of photoelectrochemical performances. *Electrochimica Acta*, **2017**, 252, 368-373	6.7	18
137	Effect of the surface roughness of copper substrate on three-dimensional tin electrode for electrochemical reduction of CO2 into HCOOH. *Journal of CO2 Utilization*, **2017**, 21, 219-223	7.6	18
136	CdS@Ni3S2 for efficient and stable photo-assisted electrochemical (P-EC) overall water splitting. *Chemical Engineering Journal*, **2021**, 405, 126231	14.7	18
135	Engineering highly active Ag/Nb2O5@Nb2CT (MXene) photocatalysts via steering charge kinetics strategy. *Chemical Engineering Journal*, **2021**, 421, 128766	14.7	18
134	Visible light photoelectrochemical properties of a hydrogenated TiO2 nanorod film and its application in the detection of chemical oxygen demand. *RSC Advances*, **2015**, 5, 76315-76320	3.7	17
133	Influence of Si contents on the microstructure, mechanical and tribological properties of CrSiN coatings. *Ceramics International*, **2016**, 42, 5062-5067	5.1	17

132	Design of Pt catalyst with high electrocatalytic activity and well tolerance to methanol for oxygen reduction in acidic medium. *Catalysis Communications*, **2012**, 29, 11-14	3.2	17
131	Efficient functionalization of multi-walled carbon nanotubes by nitrogen dioxide. *Materials Research Bulletin*, **2013**, 48, 3218-3222	5.1	17
130	Hydrogen permeability of Pd□Ag membrane modules with porous stainless steel substrates. *International Journal of Hydrogen Energy*, **2011**, 36, 1014-1026	6.7	17
129	Preparation of Ag-sensitized ZnO and its photocatalytic performance under simulated solar light. *Korean Journal of Chemical Engineering*, **2007**, 24, 1022-1026	2.8	17
128	Two-dimensional oxalate-bridged heterometallic coordination polymer: Crystal structure and thermal behavior of [NaCr(pyim)(ox)2(H2O)]□2H2O (pyim=2-(2?-pyridyl)imidazole). *Inorganic Chemistry Communication*, **2006**, 9, 486-488	3.1	17
127	Oxygen Doping in Graphitic Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2020**, 13, 5041-5049	8.3	17
126	Mn3O4@C Nanoparticles Supported on Porous Carbon as Bifunctional Oxygen Electrodes and their Electrocatalytic Mechanism. *ChemElectroChem*, **2019**, 6, 359-368	4.3	17
125	Highly exposed (001) facets Ni(OH)2 induced formation of nickle phosphide over cadmium sulfide nanorods for efficient photocatalytic hydrogen evolution. *International Journal of Hydrogen Energy*, **2020**, 45, 9397-9407	6.7	16
124	Enhanced activity of Pt/CNTs anode catalyst for direct methanol fuel cells using Ni2P as co-catalyst. *Applied Surface Science*, **2018**, 434, 534-539	6.7	16
123	A novel carbothermal reduction nitridation route to MoN nanoparticles on CNTs support. *Journal of Materials Chemistry*, **2011**, 21, 6898		16
122	Preparation of NaxBayBiO3□hH2O and their photooxidation characteristic under visible-light irradiation. *Materials Chemistry and Physics*, **2009**, 116, 294-299	4.4	16
121	Direct vapor-phase carbonylation of methanol at atmospheric pressure on activated carbon-supported NiCl2□CuCl2 catalysts. *Catalysis Today*, **2004**, 93-95, 451-455	5.3	16
120	Theoretical calculations and controllable synthesis of MoSe2/CdS-CdSe with highly active sites for photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2020**, 383, 123133	14.7	16
119	Hydrogen Production from Sorption-Enhanced Steam Reforming of Phenol over a Ni□CaAlO Bifunctional Catalyst. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7111-7120	8.3	16
118	Iron based dual-metal oxides on graphene for lithium-ion batteries anode: Effects of composition and morphology. *Journal of Alloys and Compounds*, **2016**, 684, 47-54	5.7	15
117	Valorization of Biomass Hydrolysis Waste: Activated Carbon from Humins as Exceptional Sorbent for Wastewater Treatment. *Sustainability*, **2018**, 10, 1795	3.6	15
116	Pt/IrO2/CNT anode catalyst with high performance for direct methanol fuel cells. *Catalysis Communications*, **2013**, 33, 34-37	3.2	15
115	Novel 3-D nanoporous graphitic-C3N4 nanosheets with heterostructured modification for efficient visible-light photocatalytic hydrogen production. *RSC Advances*, **2014**, 4, 52332-52337	3.7	15

114	Structural stability and mutual transformations of molybdenum carbide, nitride and phosphide. *Materials Research Bulletin*, **2011**, 46, 1938-1941	5.1	15
113	Auto-thermal ethanol micro-reformer with a structural Ir/La2O3/ZrO2 catalyst for hydrogen production. *Chemical Engineering Journal*, **2011**, 167, 322-327	14.7	15
112	The influence of ultrasound on the formation of TiO2 nanotube arrays. *Materials Research Bulletin*, **2010**, 45, 200-204	5.1	15
111	Anion-tuned self-assembly of zinc(II)–fluconazole complexes: Crystal structures, luminescent and thermal properties. *Journal of Molecular Structure*, **2007**, 829, 161-167	3.4	15
110	Unraveling the intrinsic enhancement of fluorine doping in the dual-doped magnetic carbon adsorbent for the environmental remediation. *Journal of Colloid and Interface Science*, **2019**, 538, 327-339	9.3	15
109	Facile and scalable synthesis of coal tar-derived, nitrogen and sulfur-codoped carbon nanotubes with superior activity for O2 reduction by employing an evocating agent. *Journal of Materials Chemistry A*, **2015**, 3, 22723-22729	13	14
108	Formation of Lattice-Dislocated Zinc Oxide via Anodic Corrosion for Electrocatalytic CO Reduction to Syngas with a Potential-Dependent CO:H Ratio. *ACS Applied Materials & Interfaces*, **2020**, 12, 30466-30473	9.5	14
107	Hydrogenated CdS nanorods arrays/FTO film: A highly stable photocatalyst for photocatalytic H2 production. *International Journal of Hydrogen Energy*, **2018**, 43, 17696-17707	6.7	14
106	Preparation of CdS-CoSx photocatalysts and their photocatalytic and photoelectrochemical characteristics for hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 27795-27805	6.7	14
105	Unravelling the radical transition during the carbon-catalyzed oxidation of cyclohexane by in situ electron paramagnetic resonance in the liquid phase. *Catalysis Science and Technology*, **2017**, 7, 4431-4436	5.5	14
104	Selective oxidation of glycerol over supported noble metal catalysts. *Catalysis Today*, **2021**, 365, 162-171	5.3	14
103	Surface oxidized nano-cobalt wrapped by nitrogen-doped carbon nanotubes for efficient purification of organic wastewater. *Separation and Purification Technology*, **2021**, 259, 118098	8.3	14
102	Energy-efficient catalytic removal of formaldehyde enabled by precisely Joule-heated Ag/Co3O4@mesoporous-carbon monoliths. *Carbon*, **2020**, 167, 709-717	10.4	13
101	Computational Screening of Metal?Organic Framework Membranes for the Separation of 15 Gas Mixtures. *Nanomaterials*, **2019**, 9,	5.4	13
100	Facile synthesis of porous hollow iron oxide nanoparticles supported on carbon nanotubes. *Materials Letters*, **2012**, 67, 245-247	3.3	13
99	Solution growth of peony-like copper hydroxyl-phosphate (Cu 2 (OH)PO 4) flowers on Cu foil and their photocatalytic activity under visible light. *Materials and Design*, **2016**, 100, 30-36	8.1	13
98	Deactivation and regeneration of in situ formed bismuth-promoted platinum catalyst for the selective oxidation of glycerol to dihydroxyacetone. *New Journal of Chemistry*, **2018**, 42, 18837-18843	3.6	13
97	Facile Synthesis of Cobalt and Nitrogen Coordinated Carbon Nanotube as a High-Performance Electrocatalyst for Oxygen Reduction Reaction in Both Acidic and Alkaline Media. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10951-10961	8.3	12

96	Low Pt content catalyst supported on nitrogen and phosphorus-codoped carbon nanotubes for electrocatalytic O2 reaction in acidic medium. *Materials Letters*, **2015**, 142, 115-118	3.3	12
95	Deactivation and regeneration of RuO2·xH2O/CNT catalyst for aerobic oxidation of benzyl alcohol. *Catalysis Communications*, **2009**, 10, 1752-1756	3.2	12
94	Reaction/separation coupled equilibrium modeling of steam methane reforming in fluidized bed membrane reactors. *International Journal of Hydrogen Energy*, **2010**, 35, 11798-11809	6.7	12
93	Superoxide Decay Pathways in Oxygen Reduction Reaction on Carbon-Based Catalysts Evidenced by Theoretical Calculations. *ChemSusChem*, **2019**, 12, 1133-1138	8.3	12
92	Combining large-scale screening and machine learning to predict the metal-organic frameworks for organosulfurs removal from high-sour natural gas. *APL Materials*, **2019**, 7, 091101	5.7	11
91	Metal-Foam-Supported Pd/Al2O3 Catalysts for Catalytic Combustion of Methane: Effect of Interaction between Support and Catalyst. *International Journal of Chemical Reactor Engineering*, **2015**, 13, 83-93	1.2	11
90	Preparation and the Electrochemical Performance of MnO2/PANI@CNT Composite for Supercapacitors. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 709-14	1.3	11
89	Mechanistic Insights into the Electrochemical Reduction of CO2 on Cyclo[18]carbon using Density Functional Theory Calculations. *ChemElectroChem*, **2020**, 7, 1838-1842	4.3	11
88	Enhanced Activity and Durability of Nanosized Pt-SnO2/IrO2/CNTs Catalyst for Methanol Electrooxidation. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3662-9	1.3	11
87	Effects of RuO2 Content in Pt/RuO2/CNTs Nanocatalyst on the Electrocatalytic Oxidation Performance of Methanol. *Chinese Journal of Catalysis*, **2008**, 29, 1093-1098	11.3	11
86	A Review of Carbon-based Non-noble Catalysts for Oxygen Reduction Reaction. *Acta Chimica Sinica*, **2017**, 75, 943	3.3	11
85	MoS2 supported on hydrogenated TiO2 heterostructure film as photocathode for photoelectrochemical hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 31008-31019	6.7	11
84	Dual Functional CuO1 Clusters for Enhanced Photocatalytic Activity and Stability of a Pt Cocatalyst in an Overall Water-Splitting Reaction. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 17340-17351	8.3	11
83	Calcium Chloride Activation of Mung Bean: A Low-Cost, Green Route to N-Doped Porous Carbon for Supercapacitors. *ChemistrySelect*, **2019**, 4, 3432-3439	1.8	10
82	A novel approach to the synthesis of bulk and supported Mo2C using dimethyl ether as a carbon source. *New Journal of Chemistry*, **2015**, 39, 4901-4908	3.6	10
81	Intrinsic acid resistance and high removal performance from the incorporation of nickel nanoparticles into nitrogen doped tubular carbons for environmental remediation. *Journal of Colloid and Interface Science*, **2020**, 566, 46-59	9.3	10
80	The effect of surface oxygenated groups of carbon nanotubes on liquid phase catalytic oxidation of cumene. *Catalysis Science and Technology*, **2016**, 6, 2396-2402	5.5	10
79	Facile synthesis of self-assembled mesoporous CuO nanospheres and hollow Cu2O microspheres with excellent adsorption performance. *RSC Advances*, **2014**, 4, 43024-43028	3.7	10

78	Controllable synthesis and catalytic performance of graphene-supported metal oxide nanoparticles. *Chinese Journal of Catalysis*, **2014**, 35, 952-959	11.3	10
77	Low-Pollution and Controllable Selective-Area Deposition of a CdS Buffering Layer on CIGS Solar Cells by a Photochemical Technique. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7325-7333	8.3	10
76	A facile one-step preparation of hierarchically-structured TiO2 nanotube array photoanodes with enhanced photocatalytic activity. *Electrochemistry Communications*, **2011**, 13, 1151-1154	5.1	10
75	Cobalt and cobalt oxide supported on nitrogen-doped porous carbon as electrode materials for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 3649-3657	6.7	10
74	Triple deletion of clpC, porB, and mepA enhances production of small ubiquitin-like modifier-N-terminal pro-brain natriuretic peptide in Corynebacterium glutamicum. *Journal of Industrial Microbiology and Biotechnology*, **2019**, 46, 67-79	4.2	10
73	New Understanding of Selective Aerobic Oxidation of Ethylbenzene Catalyzed by Nitrogen-doped Carbon Nanotubes. *ChemCatChem*, **2021**, 13, 646-655	5.2	10
72	Wearable self-powered human motion sensors based on highly stretchable quasi-solid state hydrogel. *Nano Energy*, **2021**, 88, 106272	17.1	10
71	Facile fabrication of highly porous photoanode at low temperature for all-plastic dye-sensitized solar cells with quasi-solid state electrolyte. *Journal of Power Sources*, **2014**, 271, 8-15	8.9	9
70	Chlorine-Promoted Nitrogen and Sulfur Co-Doped Biocarbon Catalyst for Electrochemical Carbon Dioxide Reduction. *ChemElectroChem*, **2020**, 7, 320-327	4.3	9
69	Photocatalysis over MXene-based hybrids: Synthesis, surface chemistry, and interfacial charge kinetics. *APL Materials*, **2021**, 9, 070703	5.7	9
68	Platinum-based ternary catalysts for the electrooxidation of ethanol. *Particuology*, **2021**, 58, 169-186	2.8	9
67	Trace amounts of Cu(OAc)2 boost the efficiency of cumene oxidation catalyzed by carbon nanotubes washed with HCl. *Catalysis Science and Technology*, **2020**, 10, 2523-2530	5.5	8
66	Pt/MoO3-WO3/CNTs catalyst with excellent performance for methanol electrooxidation. *Chinese Journal of Catalysis*, **2014**, 35, 1687-1694	11.3	8
65	Synthesis and Characterization of Novel N-doped TiO2 Photocatalyst with Visible Light Active. *Chinese Journal of Chemical Physics*, **2010**, 23, 437-441	0.9	8
64	Preparation and Quantitative Characterization of Nitrogen-Functionalized Multiwalled Carbon Nanotubes. *Chinese Journal of Catalysis*, **2010**, 31, 948-954	11.3	8
63	A Non-Noble Monometallic Catalyst Derived from Cu-MOFs for Highly Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. *ChemistrySelect*, **2019**, 4, 13517-13524	1.8	8
62	Antibacterial and Antiviral Activities of 1,3,4-Oxadiazole Thioether 4-Chromen-4-one Derivatives. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 11085-11094	5.7	8
61	A robust approach to fabricate CZTSSe absorber layer for solar cells via a self-selenizations process conducted by concentrated selenium solution. *Materials Research Express*, **2018**, 5, 016413	1.7	7

60	Enhanced Catalytic Activity of Carbon Nanotubes for the Oxidation of Cyclohexane by Filling with Fe, Ni, and FeNi alloy Nanowires. *Australian Journal of Chemistry*, **2016**, 69, 689	1.2	7
59	Biomass-Derived Nitrogen-Doped Porous Carbons Activated by Magnesium Chloride as Ultrahigh-Performance Supercapacitors. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21756-21767	3.9	7
58	Structure, characterization, and dynamic performance of a wet air oxidation catalyst Cu□Fe□a/□Al2O3. *Chinese Journal of Chemical Engineering*, **2016**, 24, 1171-1177	3.2	7
57	Understanding the Catalytic Sites in Porous Hexagonal Boron Nitride for the Epoxidation of Styrene. *ACS Catalysis*, **2021**, 11, 8872-8880	13.1	7
56	Selective Catalytic Oxidation of Benzyl Alcohol to Benzaldehyde by Nitrates. *Frontiers in Chemistry*, **2020**, 8, 151	5	6
55	Growth of Aligned Carbon Nanotubes on Large Scale by Methane Decomposition with Deactivation Inhibitor. *Journal of Natural Gas Chemistry*, **2007**, 16, 382-388		6
54	Design, Synthesis, Antibacterial Activity, Antiviral Activity, and Mechanism of Myricetin Derivatives Containing a Quinazolinone Moiety. *ACS Omega*, **2021**, 6, 30826-30833	3.9	6
53	One-pot synthesis of Ru/Nb2O5@Nb2C ternary photocatalysts for water splitting by harnessing hydrothermal redox reactions. *Applied Catalysis B: Environmental*, **2022**, 303, 120910	21.8	6
52	Phase-Controllable Growth Ni P Modified CdS@Ni S Electrodes for Efficient Electrocatalytic and Enhanced Photoassisted Electrocatalytic Overall Water Splitting.. *Small Methods*, **2021**, 5, e2100878	12.8	6
51	Green synthesis of iron and nitrogen co-doped porous carbon via pyrolysing lotus root as a high-performance electrocatalyst for oxygen reduction reaction. *International Journal of Energy Research*, **2021**, 45, 10393-10408	4.5	6
50	Effect of Inlet Flow Distributor for Reagent Equalization on Autothermal Reforming of Ethanol in a Microreformer. *Industrial & Engineering Chemistry Research*, **2012**, 51, 10132-10139	3.9	5
49	Porous Carbon Nanosheets Derived from ZIF-8 Treated with KCl as Highly Efficient Electrocatalysts for the Oxygen Reduction Reaction. *Energy Technology*, **2021**, 9, 2100035	3.5	5
48	Bi-functional particles for integrated thermo-chemical processes: Catalysis and beyond. *Particuology*, **2021**, 56, 10-32	2.8	5
47	Surface-structure sensitive chemical diffusivity and reactivity of CO adsorbates on noble metal electrocatalysts. *Applied Catalysis B: Environmental*, **2021**, 281, 119522	21.8	5
46	Antimicrobial evaluation of myricetin derivatives containing benzimidazole skeleton against plant pathogens. *F□toterap□*, **2021**, 149, 104804	3.2	5
45	Enhancing Catalytic Activity and Selectivity by Plasmon-Induced Hot Carriers. *IScience*, **2020**, 23, 101107	6.1	4
44	Quantum dot-encoded beads for ultrasensitive detection. *Recent Patents on Nanotechnology*, **2009**, 3, 192-202	1.2	4
43	Design, synthesis, and antibacterial activity of novel myricetin derivatives containing sulfonate. *Monatshefte F□ Chemie*, **2021**, 152, 345-356	1.4	4

42	CoMn2O4 supported on carbon nanotubes for effective low-temperature HCHO removal. *Journal of Alloys and Compounds*, **2021**, 859, 157808	5.7	4
41	High-Order Interference Effect Introduced by Polarization Mode Coupling in Polarization--Maintaining Fiber and Its Identification. *Sensors*, **2016**, 16,	3.8	4
40	The zinc vacancy induced CdS/ZnS Z-scheme structure as a highly stable photocatalyst for hydrogen production. *Journal of Alloys and Compounds*, **2021**, 888, 161620	5.7	4
39	Photoelectrochemical detection of ultra-trace fluorine ion using TiO nanorod arrays as a probe.. *RSC Advances*, **2019**, 9, 26712-26717	3.7	3
38	Mechanistic Insights into Cyclic Voltammograms on Pt(111): Kinetics Simulations. *ChemPhysChem*, **2019**, 20, 2791-2798	3.2	3
37	Synthesis and Catalytic Properties of Carbon-Nanotube-Supported RuO2 Catalyst Encapsulated in Silica Coating. *Catalysis Letters*, **2012**, 142, 100-107	2.8	3
36	Co□□-Supported Platinum Catalyst: Synergistic Effect on the Aerobic Oxidation of Glycerol. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 19062-19071	8.3	3
35	High-purity hydrogen production by sorption-enhanced steam reforming of iso-octane over a Pd-promoted Ni-Ca-Al-O bi-functional catalyst. *Fuel*, **2021**, 293, 120430	7.1	3
34	Inhibitory effect of Zn2+ on the chain-initiation process of cumene oxidation. *International Journal of Quantum Chemistry*, **2021**, 121, e26780	2.1	3
33	Synthesis and antibacterial activity of novel myricetin derivatives containing sulfonylpiperazine. *Chemical Papers*, **2021**, 75, 1021-1027	1.9	3
32	One-Step Synthesis and Characterization of Gold□Hollow PbSx Hybrid Nanoparticles. *Angewandte Chemie*, **2009**, 121, 4051-4055	3.6	2
31	Nanosized TiO2 synthesis by EbCDAB microemulsion. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 860-865	3.5	2
30	Noble-metal-based high-entropy-alloy nanoparticles for electrocatalysis. *Journal of Energy Chemistry*, **2022**, 68, 721-751	12	2
29	CexNi0.5La0.5-xO Catalysts for Hydrogen Production by Oxidative Steam Reforming of Glycerol: Influence of the Ce-to-La Ratio. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2016**, 32, 1527-1533	3.8	2
28	Heat-regulating effects of inert salts on magnesiothermic reduction preparation of silicon nanopowder for lithium storage. *Ionics*, **2020**, 26, 1249-1259	2.7	2
27	Identification, repair and characterization of a benzyl alcohol-inducible promoter for recombinant proteins overexpression in Corynebacterium glutamicum. *Enzyme and Microbial Technology*, **2020**, 141, 109651	3.8	2
26	Production of high-purity hydrogen from paper recycling black liquor via sorption enhanced steam reforming. *Green Energy and Environment*, **2020**, 6, 771-771	5.7	2
25	Catalytic Transfer Hydrogenation of Biomass-Derived 5-Hydroxymethylfurfural into 2,5-Dihydroxymethylfuran over Co/UiO-66-NH2. *Catalysis Letters*,1	2.8	2

24	Mechanistic Insights into the Electrochemical Reduction of CO and N on the Regulation of a Boron Nitride Defect-Derived Two-Dimensional Catalyst using Density Functional Theory Calculations. *Journal of Physical Chemistry Letters*, **2021**, 12, 7151-7158	6.4	2
23	Controllable preparation of hollow fibrous (hbox {SrCO}_{{3}}). *Bulletin of Materials Science*, **2019**, 42, 1	1.7	2
22	Production Process Development of Pseudorabies Virus Vaccine by Using a Novel Scale-Down Model of a Fixed-Bed Bioreactor. *Journal of Pharmaceutical Sciences*, **2020**, 109, 959-965	3.9	2
21	Ni Foam Supported TiO 2 Nanorod Arrays with CdS Branches: Type II and Z-Scheme Mechanisms Coexisted Monolithic Catalyst Film for Improved Photocatalytic H 2 Production. *Solar Rrl*,2200187	7.1	2
20	Natural light driven photovoltaic-electrolysis water splitting with 12.7% solar-to-hydrogen conversion efficiency using a two-electrode system grown with metal foam. *Journal of Power Sources*, **2022**, 538, 231536	8.9	2
19	MnO2 nanoparticles supported on CNTs for cumene oxidation: Synergistic effect and kinetic modelling. *Chemical Engineering Journal*, **2022**, 444, 136666	14.7	2
18	Performance of Fast Thermally Reduced Graphene Oxide for Supercapacitor. *Advanced Materials Research*, **2013**, 785-786, 783-786	0.5	1
17	High Oxygen-Reduction-Activity and Methanol-Tolerance Cathode Catalyst Cu/PtFe/CNTs for Direct Methanol Fuel Cells. *Fuel Cells*, **2009**, 10, n/a-n/a	2.9	1
16	Non-Metal Doped Pd/CNTs Catalysts for Oxygen Reduction Reaction in Alkaline Medium. *Advanced Materials Research*, **2012**, 550-553, 238-242	0.5	1
15	Solvent-Free Production of Ε-Caprolactone from Oxidation of Cyclohexanone Catalyzed by Nitrogen-Doped Carbon Nanotubes. *Industrial & Engineering Chemistry Research*, **2022**, 61, 2037-2044	3.9	1
14	Pseudorabies virus production using a serum-free medium in fixed-bed bioreactors with low cell inoculum density. *Biotechnology Letters*, **2020**, 42, 2551-2560	3	1
13	Non Noble-Metal Copper-Cobalt Bimetallic Catalyst for Efficient Catalysis of the Hydrogenolysis of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran under Mild Conditions. *ACS Omega*, **2021**, 6, 10910-10920	3.9	1
12	Highly Enhanced Methanol Electrooxidation on Pt/NCNT-Decorated FeP**. *ChemElectroChem*, **2021**, 8, 2442-2448	4.3	1
11	Radical Propagation Facilitating Aerobic Oxidation of Substituted Aromatics Promoted by Tert-Butyl Hydroperoxide. *ChemistrySelect*, **2021**, 6, 6895-6903	1.8	1
10	Essential analysis of cyclic voltammetry of methanol electrooxidation using the differential electrochemical mass spectrometry. *Journal of Power Sources*, **2021**, 509, 230397	8.9	1
9	First complete mitochondrial genome from the genus (Coleoptera: Curculionidae: Scolytinae) and its phylogenetic implications.. *Mitochondrial DNA Part B: Resources*, **2022**, 7, 575-576	0.5	1
8	Efficient purification of tetracycline wastewater by activated persulfate with heterogeneous Co-V bimetallic oxides.. *Journal of Colloid and Interface Science*, **2022**, 619, 188-197	9.3	1
7	Facile Synthesis and Performance of Reduced Graphene Oxide/Cobalt Oxide Composite for Supercapacitor. *Advanced Materials Research*, **2013**, 785-786, 779-782	0.5	0

6	Self-nitrogen-doped porous carbon prepared via pyrolysis of grass-blade without additive for oxygen reduction reaction. *Diamond and Related Materials*, **2021**, 121, 108742	3.5	0
5	Pt□alcium cobaltate enables sorption-enhanced steam reforming of glycerol coupled with chemical-looping CH4 combustion. *AICHE Journal*, **2021**, 67, e17383	3.6	0
4	Design, Synthesis and Antibacterial Activity of Novel Pyrimidine-Containing 4H-Chromen-4-One Derivatives*. *Chemistry and Biodiversity*, **2021**, 18, e2100186	2.5	0
3	Effects of colloidal silica on the properties of POSS-containing fluorinated poly(styrene□crylate)/SiO2 composite materials **2021**, 18, 107-116		
2	The PhoPR two-component system responds to oxygen deficiency and regulates the pathways for energy supply in Corynebacterium glutamicum. *World Journal of Microbiology and Biotechnology*, **2021**, 37, 160	4.4	
1	Wheat-Flour-Derived Magnetic Porous Carbons by CaCl 2 -Activation and their Application in Cr(VI) Removal. *ChemistrySelect*, **2021**, 6, 13215-13223	1.8	