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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

290 papers	23,215 citations	88 h-index	144 g-index
295 ext. papers	28,584 ext. citations	10.7 avg, IF	7.62 L-index

#	Paper	IF	Citations
290	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , 2018 , 51, 678-687	24.3	573
289	N-Doping-Induced Nonradical Reaction on Single-Walled Carbon Nanotubes for Catalytic Phenol Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 553-559	13.1	525
288	Reduced graphene oxide for catalytic oxidation of aqueous organic pollutants. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5466-71	9.5	517
287	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. <i>Chemical Engineering Journal</i> , 2013 , 226, 336-347	14.7	508
286	Synthesis, characterization, and adsorption properties of magnetic Fe ₃ O ₄ @graphene nanocomposite. <i>Chemical Engineering Journal</i> , 2012 , 184, 326-332	14.7	477
285	Nitrogen-doped graphene for generation and evolution of reactive radicals by metal-free catalysis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4169-78	9.5	471
284	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , 2015 , 5, 4629-4636	13.1	450
283	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , 2015 , 11, 3036-44	11	412
282	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 973-982	21.8	397
281	Occurrence of radical and nonradical pathways from carbocatalysts for aqueous and nonaqueous catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 98-105	21.8	386
280	A review on photocatalysis for air treatment: From catalyst development to reactor design. <i>Chemical Engineering Journal</i> , 2017 , 310, 537-559	14.7	335
279	Different crystallographic one-dimensional MnO ₂ nanomaterials and their superior performance in catalytic phenol degradation. <i>Environmental Science & Technology</i> , 2013 , 47, 5882-7	10.3	335
278	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2014 , 154-155, 134-141	21.8	333
277	Activated carbon supported cobalt catalysts for advanced oxidation of organic contaminants in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 529-534	21.8	324
276	Manganese oxides at different oxidation states for heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 729-735	21.8	308
275	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016 , 194, 7-15	21.8	277
274	3D-hierarchically structured MnO ₂ for catalytic oxidation of phenol solutions by activation of peroxymonosulfate: Structure dependence and mechanism. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 159-167	21.8	274

273	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 626-634	21.8	274
272	An insight into metal organic framework derived N-doped graphene for the oxidative degradation of persistent contaminants: formation mechanism and generation of singlet oxygen from peroxymonosulfate. <i>Environmental Science: Nano</i> , 2017 , 4, 315-324	7.1	272
271	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. <i>Catalysis Science and Technology</i> , 2016 , 6, 7002-7023	5.5	271
270	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013 , 49, 9914-6	5.8	248
269	Facile assembly of Bi ₂ O ₃ /Bi ₂ S ₃ /MoS ₂ n-p heterojunction with layered n-Bi ₂ O ₃ and p-MoS ₂ for enhanced photocatalytic water oxidation and pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 47-55	21.8	234
268	Nanocarbons in different structural dimensions (0BD) for phenol adsorption and metal-free catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 352-362	21.8	220
267	0D (MoS ₂)/2D (g-C ₃ N ₄) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 228, 64-74	21.8	220
266	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. <i>Carbon</i> , 2016 , 107, 371-378	21.8	219
265	Hydrothermal Synthesis of Co ₃ O ₄ /Graphene for Heterogeneous Activation of Peroxymonosulfate for Decomposition of Phenol. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14958-14965	3.9	213
264	Facile synthesis of nitrogen-doped graphene via low-temperature pyrolysis: The effects of precursors and annealing ambience on metal-free catalytic oxidation. <i>Carbon</i> , 2017 , 115, 649-658	10.4	209
263	A new magnetic nano zero-valent iron encapsulated in carbon spheres for oxidative degradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2015 , 172-173, 73-81	21.8	198
262	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. <i>Chemical Communications</i> , 2015 , 51, 15249-52	5.8	195
261	Activation of peroxymonosulfate by carbonaceous oxygen groups: experimental and density functional theory calculations. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 295-302	21.8	192
260	Co-SBA-15 for heterogeneous oxidation of phenol with sulfate radical for wastewater treatment. <i>Catalysis Today</i> , 2011 , 175, 380-385	5.3	188
259	Preparation and Characterization of Visible-Light-Driven Carbon Sulfur-Codoped TiO ₂ Photocatalysts. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4971-4976	3.9	186
258	Excellent performance of mesoporous Co ₃ O ₄ /MnO ₂ nanoparticles in heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2012 , 127, 330-335	21.8	185
257	Magnetic CoFe ₂ O ₄ /Graphene Hybrids: Facile Synthesis, Characterization, and Catalytic Properties. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 6044-6051	3.9	185
256	Fabrication of Fe ₃ O ₄ /SiO ₂ core/shell nanoparticles attached to graphene oxide and its use as an adsorbent. <i>Journal of Colloid and Interface Science</i> , 2012 , 379, 20-6	9.3	175

255	Topotactic Transformation of Metal-Organic Frameworks to Graphene-Encapsulated Transition-Metal Nitrides as Efficient Fenton-like Catalysts. <i>ACS Nano</i> , 2016 , 10, 11532-11540	16.7	174
254	Nano-Fe ₃ O ₄ -Encapsulated in microcarbon spheres: synthesis, characterization, and environmental applications. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6235-41	9.5	166
253	New insights into heterogeneous generation and evolution processes of sulfate radicals for phenol degradation over one-dimensional γ -MnO ₂ nanostructures. <i>Chemical Engineering Journal</i> , 2015 , 266, 12-20	14.7	165
252	Synthesis of porous reduced graphene oxide as metal-free carbon for adsorption and catalytic oxidation of organics in water. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5854	13	164
251	Nitrogen- and Sulfur-Codoped Hierarchically Porous Carbon for Adsorptive and Oxidative Removal of Pharmaceutical Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7184-93	9.5	162
250	A comparative study of reduced graphene oxide modified TiO ₂ , ZnO and Ta ₂ O ₅ in visible light photocatalytic/photochemical oxidation of methylene blue. <i>Applied Catalysis B: Environmental</i> , 2014 , 146, 162-168	21.8	160
249	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , 2013 , 214, 298-303	14.7	160
248	Nanodiamonds in sp ² /sp ³ configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , 2018 , 222, 176-181	21.8	157
247	Efficient Catalytic Ozonation over Reduced Graphene Oxide for p-Hydroxylbenzoic Acid (PHBA) Destruction: Active Site and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9710-20	9.5	157
246	Shape-controlled activation of peroxymonosulfate by single crystal γ -Mn ₂ O ₃ for catalytic phenol degradation in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2014 , 154-155, 246-251	21.8	157
245	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3432-3440	13	156
244	2D/2D nano-hybrids of γ -MnO ₂ /reduced graphene oxide for catalytic ozonation and coupling peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2016 , 301, 56-64	12.8	153
243	N-Doped Graphene from Metal-Organic Frameworks for Catalytic Oxidation of p-Hydroxylbenzoic Acid: N-Functionality and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2693-2701	8.3	152
242	A new metal-free carbon hybrid for enhanced photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16745-54	9.5	144
241	A comparative study of spinel structured Mn ₃ O ₄ , Co ₃ O ₄ and Fe ₃ O ₄ nanoparticles in catalytic oxidation of phenolic contaminants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2013 , 407, 467-73	9.3	143
240	Nanosized Co ₃ O ₄ /SiO ₂ for heterogeneous oxidation of phenolic contaminants in waste water. <i>Separation and Purification Technology</i> , 2011 , 77, 230-236	8.3	143
239	Excellent performance of copper based metal organic framework in adsorptive removal of toxic sulfonamide antibiotics from wastewater. <i>Journal of Colloid and Interface Science</i> , 2016 , 478, 344-52	9.3	142
238	Nitrogen-doped bamboo-like carbon nanotubes with Ni encapsulation for persulfate activation to remove emerging contaminants with excellent catalytic stability. <i>Chemical Engineering Journal</i> , 2018 , 332, 398-408	14.7	141

237	Bread-making synthesis of hierarchically Co@C nanoarchitecture in heteroatom doped porous carbons for oxidative degradation of emerging contaminants. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 76-83	21.8	141
236	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , 2019 , 1, 745-758	12.7	140
235	Adsorptive removal of antibiotic sulfonamide by UiO-66 and ZIF-67 for wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 88-95	9.3	137
234	Carbocatalytic activation of persulfate for removal of antibiotics in water solutions. <i>Chemical Engineering Journal</i> , 2016 , 288, 399-405	14.7	135
233	Heteroatom (N or N-S)-Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 8651-8661	15.6	133
232	Magnetic Fe ₃ O ₄ /carbon sphere/cobalt composites for catalytic oxidation of phenol solutions with sulfate radicals. <i>Chemical Engineering Journal</i> , 2014 , 245, 1-9	14.7	133
231	Facile synthesis of hierarchically structured magnetic MnO ₂ /ZnFe ₂ O ₄ hybrid materials and their performance in heterogeneous activation of peroxymonosulfate. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19914-23	9.5	132
230	Halogen element modified titanium dioxide for visible light photocatalysis. <i>Chemical Engineering Journal</i> , 2010 , 162, 437-447	14.7	131
229	Surface aging behaviour of Fe-based amorphous alloys as catalysts during heterogeneous photo Fenton-like process for water treatment. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 537-547	21.8	130
228	Physical and chemical activation of reduced graphene oxide for enhanced adsorption and catalytic oxidation. <i>Nanoscale</i> , 2014 , 6, 766-71	7.7	129
227	Co ₃ O ₄ nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14427	13	128
226	Adsorption and heterogeneous advanced oxidation of phenolic contaminants using Fe loaded mesoporous SBA-15 and H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2010 , 164, 255-260	14.7	127
225	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016 , 103, 404-411	10.4	127
224	Rational Catalyst Design for N ₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. <i>ACS Catalysis</i> , 2020 , 10, 6870-6899	13.1	126
223	Ferric carbide nanocrystals encapsulated in nitrogen-doped carbon nanotubes as an outstanding environmental catalyst. <i>Environmental Science: Nano</i> , 2017 , 4, 170-179	7.1	125
222	Effects of nitrogen-, boron-, and phosphorus-doping or codoping on metal-free graphene catalysis. <i>Catalysis Today</i> , 2015 , 249, 184-191	5.3	123
221	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909265	15.6	119
220	One-pot hydrothermal synthesis of ZnO-reduced graphene oxide composites using Zn powders for enhanced photocatalysis. <i>Chemical Engineering Journal</i> , 2013 , 229, 533-539	14.7	119

219	Disordered Atomic Packing Structure of Metallic Glass: Toward Ultrafast Hydroxyl Radicals Production Rate and Strong Electron Transfer Ability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2017 , 27, 1702258	15.6	118
218	One-pot synthesis of N-doped graphene for metal-free advanced oxidation processes. <i>Carbon</i> , 2016 , 102, 279-287	10.4	115
217	B ³⁺ MnO ₂ activation of peroxymonosulfate for catalytic phenol degradation in aqueous solutions. <i>Catalysis Communications</i> , 2012 , 26, 144-148	3.2	108
216	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science & Technology</i> , 2019 , 53, 11391-11400	10.3	105
215	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117931	21.8	105
214	Coal fly ash supported Co ₃ O ₄ catalysts for phenol degradation using peroxymonosulfate. <i>RSC Advances</i> , 2012 , 2, 5645	3.7	104
213	Photocatalytic degradation of 4-chlorophenol with combustion synthesized TiO ₂ under visible light irradiation. <i>Chemical Engineering Journal</i> , 2007 , 128, 127-133	14.7	102
212	Oxygen Vacancies in Shape Controlled CuO/Reduced Graphene Oxide/InO Hybrid for Promoted Photocatalytic Water Oxidation and Degradation of Environmental Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11678-11688	9.5	101
211	Flower-like MoS ₂ on graphitic carbon nitride for enhanced photocatalytic and electrochemical hydrogen evolutions. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 334-344	21.8	100
210	Research Advances in the Synthesis of Nanocarbon-Based Photocatalysts and Their Applications for Photocatalytic Conversion of Carbon Dioxide to Hydrocarbon Fuels. <i>Energy & Fuels</i> , 2014 , 28, 22-36	4.1	99
209	Monodisperse Co ₃ O ₄ quantum dots on porous carbon nitride nanosheets for enhanced visible-light-driven water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018 , 223, 2-9	21.8	97
208	Metal-free activation of persulfate by cubic mesoporous carbons for catalytic oxidation via radical and nonradical processes. <i>Catalysis Today</i> , 2018 , 307, 140-146	5.3	91
207	Oxygen functional groups in graphitic carbon nitride for enhanced photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2016 , 468, 176-182	9.3	91
206	Laves phase precipitation in Ti-Zr-Fe-Cr alloys with high strength and large plasticity. <i>Materials and Design</i> , 2018 , 154, 228-238	8.1	89
205	Visible-light-driven TiO ₂ catalysts doped with low-concentration nitrogen species. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 76-83	6.4	89
204	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. <i>Chemical Engineering Journal</i> , 2019 , 362, 251-261	14.7	89
203	UV-assisted construction of 3D hierarchical rGO/Bi ₂ MoO ₆ composites for enhanced photocatalytic water oxidation. <i>Chemical Engineering Journal</i> , 2017 , 313, 1447-1453	14.7	88
202	Activated carbons as green and effective catalysts for generation of reactive radicals in degradation of aqueous phenol. <i>RSC Advances</i> , 2013 , 3, 21905	3.7	88

201	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019 , 167, 115110	12.5	86
200	Template-free synthesis of N-doped carbon with pillared-layered pores as bifunctional materials for supercapacitor and environmental applications. <i>Carbon</i> , 2017 , 118, 98-105	10.4	85
199	Design and engineering heterojunctions for the photoelectrochemical monitoring of environmental pollutants: A review. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 405-422	21.8	85
198	Synthesis of Co oxide doped carbon aerogel catalyst and catalytic performance in heterogeneous oxidation of phenol in water. <i>Chemical Engineering Journal</i> , 2011 , 174, 376-382	14.7	84
197	One-pot synthesis of binary metal organic frameworks (HKUST-1 and UiO-66) for enhanced adsorptive removal of water contaminants. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 685-694	9.3	80
196	Red mud and fly ash supported Co catalysts for phenol oxidation. <i>Catalysis Today</i> , 2012 , 190, 68-72	5.3	80
195	Tailored synthesis of active reduced graphene oxides from waste graphite: Structural defects and pollutant-dependent reactive radicals in aqueous organics decontamination. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 71-80	21.8	77
194	Visible light responsive titania photocatalysts codoped by nitrogen and metal (Fe, Ni, Ag, or Pt) for remediation of aqueous pollutants. <i>Chemical Engineering Journal</i> , 2013 , 231, 18-25	14.7	77
193	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. <i>ACS Catalysis</i> , 2020 , 10, 3516-3525	13.1	76
192	Titanate supported cobalt catalysts for photochemical oxidation of phenol under visible light irradiations. <i>Separation and Purification Technology</i> , 2011 , 80, 626-634	8.3	76
191	Submicron sized water-stable metal organic framework (bio-MOF-11) for catalytic degradation of pharmaceuticals and personal care products. <i>Chemosphere</i> , 2018 , 196, 105-114	8.4	70
190	Room-light-induced indoor air purification using an efficient Pt/N-TiO ₂ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2011 , 108-109, 127-133	21.8	68
189	Effects of amino functionality on uptake of CO ₂ , CH ₄ and selectivity of CO ₂ /CH ₄ on titanium based MOFs. <i>Fuel</i> , 2015 , 160, 318-327	7.1	67
188	Flower-like Cobalt Hydroxide/Oxide on Graphitic Carbon Nitride for Visible-Light-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35203-35212	9.5	65
187	Photochemical degradation of phenol solutions on Co ₃ O ₄ nanorods with sulfate radicals. <i>Catalysis Today</i> , 2015 , 258, 576-584	5.3	64
186	Novel polyoxometalate@g-C ₃ N ₄ hybrid photocatalysts for degradation of dyes and phenolics. <i>Journal of Colloid and Interface Science</i> , 2015 , 456, 15-21	9.3	63
185	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117795	21.8	62
184	High-strength β -stabilized Ti-Nb-Fe-Cr alloys with large plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 732, 368-377	5.3	62

183	Improved Corrosion Resistance on Selective Laser Melting Produced Ti-5Cu Alloy after Heat Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2633-2642	5.5	60
182	Ultra-sustainable FeSiB metallic glass as a catalyst for activation of persulfate on methylene blue degradation under UV-Vis light. <i>Scientific Reports</i> , 2016 , 6, 38520	4.9	60
181	Metal-free graphene-carbon nitride hybrids for photodegradation of organic pollutants in water. <i>Catalysis Today</i> , 2015 , 258, 668-675	5.3	58
180	Metal-free melem/g-C ₃ N ₄ hybrid photocatalysts for water treatment. <i>Journal of Colloid and Interface Science</i> , 2016 , 464, 10-7	9.3	58
179	Photocatalysis of C, N-doped ZnO derived from ZIF-8 for dye degradation and water oxidation. <i>RSC Advances</i> , 2016 , 6, 95903-95909	3.7	58
178	Egg-shaped core/shell Mn ₂ O ₃ @MnO ₂ as heterogeneous catalysts for decomposition of phenolics in aqueous solutions. <i>Chemosphere</i> , 2016 , 159, 351-358	8.4	54
177	Synthesis of magnetic core/shell carbon nanosphere supported manganese catalysts for oxidation of organics in water by peroxymonosulfate. <i>Journal of Colloid and Interface Science</i> , 2014 , 433, 68-75	9.3	54
176	Size dependence of uniformed carbon spheres in promoting graphitic carbon nitride toward enhanced photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 358-364	21.8	52
175	Preparation of cobalt/carbon-xerogel for heterogeneous oxidation of phenol. <i>Catalysis Today</i> , 2012 , 186, 63-68	5.3	52
174	Size-Tailored Porous Spheres of Manganese Oxides for Catalytic Oxidation via Peroxymonosulfate Activation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16871-16878	3.8	52
173	Adsorption of cerium (III) by HKUST-1 metal-organic framework from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2019 , 542, 421-428	9.3	51
172	Hierarchical shape-controlled mixed-valence calcium manganites for catalytic ozonation of aqueous phenolic compounds. <i>Catalysis Science and Technology</i> , 2016 , 6, 2918-2929	5.5	51
171	Supported cobalt catalysts by one-pot aqueous combustion synthesis for catalytic phenol degradation. <i>Journal of Colloid and Interface Science</i> , 2013 , 394, 394-400	9.3	51
170	Heterostructured WO ₃ @CoWO ₄ bilayer nanosheets for enhanced visible-light photo, electro and photoelectro-chemical oxidation of water. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6265-6272	13	50
169	sp ² /sp ³ Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. <i>ACS Catalysis</i> , 2019 , 9, 7494-7519	13.1	50
168	Mechanism of Nitrogen-Concentration Dependence on pH Value: Experimental and Theoretical Studies on Nitrogen-Doped TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13304-13309	3.8	50
167	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. <i>Energy & Fuels</i> , 2020 , 34, 1219-1229	4.1	50
166	Bifunctionalized Metal Organic Frameworks, UiO-66-NO ₂ -N (N = -NH ₂ , -(OH) ₂ , -(COOH) ₂), for Enhanced Adsorption and Selectivity of CO ₂ and N ₂ . <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2152-2161	2.8	49

165	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. <i>Chemical Engineering Journal</i> , 2019 , 355, 118-129	14.7	49
164	Resemblance in Corrosion Behavior of Selective Laser Melted and Traditional Monolithic Ti-24Nb-4Zr-8Sn Alloy. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1141-1149	5.5	49
163	Improved deformation behavior in Ti-Zr-Fe-Mn alloys comprising the C14 type Laves and η phases. <i>Materials and Design</i> , 2018 , 160, 1059-1070	8.1	49
162	Unzipping carbon nanotubes to nanoribbons for revealing the mechanism of nonradical oxidation by carbocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 276, 119146	21.8	48
161	Superior performance of FeVO@CeO uniform core-shell nanostructures in heterogeneous Fenton-sonophotocatalytic degradation of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121059	12.8	48
160	Enhanced performance of g-C ₃ N ₄ /TiO ₂ photocatalysts for degradation of organic pollutants under visible light. <i>Chinese Journal of Chemical Engineering</i> , 2015 , 23, 1326-1334	3.2	47
159	Efficient photocatalytic overall water splitting on metal-free 1D SWCNT/2D ultrathin C ₃ N ₄ heterojunctions via novel non-resonant plasmonic effect. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119312	21.8	46
158	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. <i>Advanced Materials</i> , 2020 , 32, e1904037	24	46
157	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. <i>Energy & Fuels</i> , 2021 , 35, 6504-6526	4.1	46
156	Preparation of a p-n heterojunction BiFeO ₃ @TiO ₂ photocatalyst with a core-shell structure for visible-light photocatalytic degradation. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 1052-1062	11.3	45
155	Integrated oxygen-doping and dye sensitization of graphitic carbon nitride for enhanced visible light photodegradation. <i>Journal of Colloid and Interface Science</i> , 2016 , 476, 193-199	9.3	45
154	New insight to the role of edges and heteroatoms in nanocarbons for oxygen reduction reaction. <i>Nano Energy</i> , 2019 , 66, 104096	17.1	44
153	Deformation and strength characteristics of Laves phases in titanium alloys. <i>Materials and Design</i> , 2019 , 179, 107891	8.1	44
152	Ag ₂ MoO ₄ nanoparticles encapsulated in g-C ₃ N ₄ for sunlight photodegradation of pollutants. <i>Catalysis Today</i> , 2018 , 315, 205-212	5.3	44
151	Photocatalytic decomposition of 4-chlorophenol over an efficient N-doped TiO ₂ under sunlight irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 201, 15-22	4.7	44
150	Pyrolysis of palm kernel shell with internal recycling of heavy oil. <i>Bioresource Technology</i> , 2019 , 272, 77-82	7.2	44
149	Long non-coding RNA Linc00675 suppresses cell proliferation and metastasis in colorectal cancer via acting on miR-942 and Wnt/ β -catenin signaling. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 101, 769-776	7.5	43
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