

Hongqi Sun

List of Publications by Year in Descending Order

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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	Porous Nitrogen-Defected Carbon Nitride Derived from A Precursor Pretreatment Strategy for Efficient Photocatalytic Degradation and Hydrogen Evolution.. <i>Langmuir</i> , 2022 ,	4	3
289	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1899-1909	8.3	8
288	Nano-sized FeVO ₄ ·1.1H ₂ O and FeVO ₄ for peroxymonosulfate activation towards enhanced photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107199	6.8	0
287	Controllable synthesis of a hollow Cr ₂ O ₃ electrocatalyst for enhanced nitrogen reduction toward ammonia synthesis. <i>Chinese Journal of Chemical Engineering</i> , 2022 , 41, 358-365	3.2	0
286	Carbon Dots Based Photocatalysis for Environmental Applications. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107336	6.8	7
285	Nitrogen defects/boron dopants engineered tubular carbon nitride for efficient tetracycline hydrochloride photodegradation and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2022 , 303, 120932	21.8	20
284	Morphology/facet-dependent photo-Fenton-like degradation of pharmaceuticals and personal care products over hematite nanocrystals. <i>Chemical Engineering Journal</i> , 2022 , 432, 134429	14.7	4
283	Kinetics and mechanism of synergistic adsorption and persulfate activation by N-doped porous carbon for antibiotics removals in single and binary solutions. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127083	12.8	14
282	Synergy of intermolecular Donor-Acceptor and ultrathin structures in crystalline carbon nitride for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1603-1612	9.3	6
281	Efficient electro-Fenton catalysis by self-supported CFP@CoFeO electrode. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127033	12.8	3
280	Enhanced adsorption and visible-light photocatalysis on TiO ₂ with in situ formed carbon quantum dots.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
279	Morphology-dependent photocatalysis of graphitic carbon nitride for sustainable remediation of aqueous pollutants: A mini review. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107438	6.8	1
278	One-pot synthesis of boron and nitrogen co-doped nanocarbons for efficient catalytic reduction of nitrophenols. <i>Chemical Engineering Journal</i> , 2022 , 439, 135733	14.7	4
277	Carbon nitride-based Z-scheme heterojunctions for solar-driven advanced oxidation processes.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128866	12.8	6
276	Regulation of energetic hot carriers on Pt/TiO ₂ with thermal energy for photothermal catalysis. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121263	21.8	1
275	Highly dispersive Ru confined in porous ultrathin g-CN nanosheets as an efficient peroxymonosulfate activator for removal of organic pollutants.. <i>Journal of Hazardous Materials</i> , 2022 , 435, 128939	12.8	3
274	Atomic H* mediated fast decontamination of antibiotics by bubble-propelled magnetic iron-manganese oxides core-shell micromotors. <i>Applied Catalysis B: Environmental</i> , 2022 , 121484	21.8	1

273	Three-dimensional nitrogen-doped graphene oxide beads for catalytic degradation of aqueous pollutants. <i>Chemical Engineering Journal</i> , 2022 , 446, 137042	14.7	0
272	Sulfate radical-based advanced oxidation processes for water decontamination using biomass-derived carbon as catalysts. <i>Current Opinion in Chemical Engineering</i> , 2022 , 37, 100838	5.4	0
271	Unzipping MWCNTs for controlled edge- and heteroatom-defects in revealing their roles in gas-phase oxidative dehydrogenation of ethanol to acetaldehyde. <i>Chemical Engineering Journal</i> , 2022 , 446, 137150	14.7	1
270	Challenges in radical/nonradical-based advanced oxidation processes for carbon recycling. <i>Chem Catalysis</i> , 2022 ,		3
269	Carbon Nitride Based Z-scheme Photocatalyst for Non-Sacrificial Overall Water Splitting. <i>Materials Today Energy</i> , 2021 , 23, 100915	7	2
268	Graphitic carbon nitride nanosheets via acid pretreatments for promoted photocatalysis toward degradation of organic pollutants. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1334-1347	9.3	3
267	Photocatalytic and Photoelectrochemical Nitrogen Fixation 2021 , 301-337		
266	The effect of carbon structure in chars on Fe migration and its catalytic activity for benzyl phenyl ether decomposition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 154, 105008	6	3
265	Artificial Photosynthesis and Solar Fuels 2021 , 7-39		
264	Photocatalytic Oxygen Evolution 2021 , 129-162		
263	Magnetically steerable iron oxides-manganese dioxide core-shell micromotors for organic and microplastic removals. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 510-521	9.3	25
262	Temperature-Induced Variations in Photocatalyst Properties and Photocatalytic Hydrogen Evolution: Differences in UV, Visible, and Infrared Radiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7277-7285	8.3	9
261	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
260	Hematite-based nanomaterials for photocatalytic degradation of pharmaceuticals and personal care products (PPCPs): A short review. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 28, 100447	7.9	15
259	The Study on the Pathogenesis of Pediatric Lymphoma Based on the Combination of Pseudotargeted and Targeted Metabolomics. <i>BioMed Research International</i> , 2021 , 2021, 9984357	3	
258	Wastewater Remediation Technologies Using Macroscopic Graphene-Based Materials: A Perspective. <i>Frontiers in Nanotechnology</i> , 2021 , 3,	5.5	4
257	Photoelectrochemical Water Oxidation and Longevous Photoelectric Conversion by a Photosystem II Electrode. <i>Advanced Energy Materials</i> , 2021 , 11, 2100911	21.8	6
256	Sustainable redox processes induced by peroxydisulfate and metal doping on amorphous manganese dioxide for nonradical degradation of water contaminants. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119903	21.8	35

255	Tailoring collaborative ND functionalities of graphene oxide for enhanced selective oxidation of benzyl alcohol. <i>Carbon</i> , 2021 , 182, 715-715	10.4	4
254	Heterogeneous electro-Fenton catalysis with self-supporting CFP@MnO-FeO/C cathode for shale gas fracturing flowback wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125208	12.8	14
253	Manganese-Based Micro/Nanomotors: Synthesis, Motion, and Applications. <i>Small</i> , 2021 , e2100927	11	6
252	Quasi-MOF derivative-based electrode for efficient electro-Fenton oxidation. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123423	12.8	28
251	Enhanced removals of micropollutants in binary organic systems by biomass derived porous carbon/peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124459	12.8	16
250	Graphitic Carbon Nitride-Based Z-Scheme Structure for Photocatalytic CO ₂ Reduction. <i>Energy & Fuels</i> , 2021 , 35, 7-24	4.1	42
249	Encapsulation of cuprous/cobalt sites in metal organic framework for enhanced CH ₄ /CH ₃ separation. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 605-613	9.3	4
248	Hierarchically porous hydrangea-like InS/InO heterostructures for enhanced photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 876-882	9.3	16
247	Conversion and transformation of N species during pyrolysis of wood-based panels: A review. <i>Environmental Pollution</i> , 2021 , 270, 116120	9.3	16
246	Coupling hydrothermal and photothermal single-atom catalysis toward excellent water splitting to hydrogen. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119660	21.8	38
245	Novel two-dimensional crystalline carbon nitrides beyond g-C ₃ N ₄ : structure and applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17-33	13	29
244	Cobalt Single Atoms Embedded in Nitrogen-Doped Graphene for Selective Oxidation of Benzyl Alcohol by Activated Peroxymonosulfate. <i>Small</i> , 2021 , 17, e2004579	11	15
243	Selective oxidation of alcohols by graphene-like carbon with electrophilic oxygen and integrated pyridinic nitrogen active sites. <i>Nanoscale</i> , 2021 , 13, 12979-12990	7.7	3
242	Corrosion behavior and mechanism of selective laser melted Ti35Nb alloy produced using pre-alloyed and mixed powder in Hank's solution. <i>Corrosion Science</i> , 2021 , 189, 109609	6.8	19
241	Hydrogenolysis of lignin to phenolic monomers over Ru based catalysts with different metal-support interactions: Effect of partial hydrogenation of C(sp ²)-O/C. <i>Fuel</i> , 2021 , 302, 121184	7.1	5
240	Decomposition of benzyl phenyl ether over char-supported Ni: The effect of char structures. <i>Fuel Processing Technology</i> , 2021 , 221, 106941	7.2	4
239	Quasi-solid-state self-assembly of 1D-branched ZnSe/ZnS quantum rods into parallel monorail-like continuous films for solar devices. <i>Nano Energy</i> , 2021 , 89, 106348	17.1	2
238	Effects of inter/intralayer adsorption and direct/indirect reaction on photo-removal of pollutants by layered g-C ₃ N ₄ and BiOBr. <i>Journal of Cleaner Production</i> , 2021 , 322, 129025	10.3	6

237	Direct Z-scheme SiNWs@CoO photocathode with a cocatalyst of sludge-derived carbon quantum dots for efficient photoelectrochemical hydrogen production. <i>Science of the Total Environment</i> , 2021 , 796, 148931	10.2	1
236	Aligning potential differences within carbon nitride based photocatalysis for efficient solar energy harvesting. <i>Nano Energy</i> , 2021 , 89, 106357	17.1	13
235	Atomic heterojunction-induced accelerated charge transfer for boosted photocatalytic hydrogen evolution over 1D CdS nanorod/2D ZnInS nanosheet composites. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 500-507	9.3	5
234	Heterogeneous activation of peroxymonosulfate by Co-doped FeO nanospheres for degradation of p-hydroxybenzoic acid. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 390-401	9.3	10
233	Atomically dispersed cobalt on graphitic carbon nitride as a robust catalyst for selective oxidation of ethylbenzene by peroxymonosulfate. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3029-3035	13	11
232	N Evolution and Physiochemical Structure Changes in Chars during Co-Pyrolysis: Effects of Abundance of Glucose in Fiberboard. <i>Energies</i> , 2020 , 13, 5105	3.1	2
231	Volatile-char interactions during biomass pyrolysis: Contribution of amino group on graphitized carbon nanotube to xylose evolution based on experimental and theoretical studies. <i>Fuel</i> , 2020 , 282, 118921	7.1	12
230	Nanocarbon-Based Catalytic Ozonation for Aqueous Oxidation: Engineering Defects for Active Sites and Tunable Reaction Pathways. <i>ACS Catalysis</i> , 2020 , 10, 13383-13414	13.1	36
229	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
228	Heterogeneous activation of peroxymonosulfate by hierarchically porous cobalt/iron bimetallic oxide nanosheets for degradation of phenol solutions. <i>Chemosphere</i> , 2020 , 256, 127160	8.4	17
227	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metal-Organic Framework (Bio-MOF-11). <i>ACS Omega</i> , 2020 , 5, 15402-15408	3.9	16
226	Synergy of NiO quantum dots and temperature on enhanced photocatalytic and thermophoto hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020 , 390, 124634	14.7	14
225	Deformation and toughness behavior of β -type titanium alloys comprising C15-type Laves phase. <i>Materials Today Sustainability</i> , 2020 , 9, 100034	5	8
224	Rigorous and reliable operations for electrocatalytic nitrogen reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119325	21.8	28
223	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
222	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909265	15.6	119
221	Functional carbon nitride materials for water oxidation: from heteroatom doping to interface engineering. <i>Nanoscale</i> , 2020 , 12, 6937-6952	7.7	20
220	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

219	Nitrogen-doped Carbon Nanospheres-Modified Graphitic Carbon Nitride with Outstanding Photocatalytic Activity. <i>Nano-Micro Letters</i> , 2020 , 12, 24	19.5	27
218	Structural-Phase Catalytic Redox Reactions in Energy and Environmental Applications. <i>Advanced Materials</i> , 2020 , 32, e1905739	24	31
217	Volatile-char interactions during biomass pyrolysis: Cleavage of C-C bond in a β lignin model dimer by amino-modified graphitized carbon nanotube. <i>Bioresource Technology</i> , 2020 , 307, 123192	11	19
216	An efficient and robust exfoliated bentonite/AgPO/AgBr plasmonic photocatalyst for degradation of parabens.. <i>RSC Advances</i> , 2020 , 10, 16027-16037	3.7	10
215	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
214	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
213	Confinement of Ag(I) Sites within MIL-101 for Robust Ethylene/Ethane Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 823-830	8.3	10
212	Simulated biomass tar removal mechanism by a Quench Coupled with Adsorption Technology (QCADT). <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 279-285	3.2	1
211	Biomass-derived functional porous carbons for adsorption and catalytic degradation of binary micropollutants in water. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121881	12.8	40
210	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
209	UVC-assisted photocatalytic degradation of carbamazepine by Nd-doped SbO/TiO photocatalyst. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 461-469	9.3	17
208	A Hydrogen-Initiated Chemical Epitaxial Growth Strategy for In-Plane Heterostructured Photocatalyst. <i>ACS Nano</i> , 2020 ,	16.7	18
207	Selective adsorption of rare earth ions from aqueous solution on metal-organic framework HKUST-1. <i>Chemical Engineering Journal Advances</i> , 2020 , 1, 100009	3.6	18
206	Acidification and bubble template derived porous g-C ₃ N ₄ for efficient photodegradation and hydrogen evolution. <i>Chinese Chemical Letters</i> , 2020 , 31, 2668-2672	8.1	21
205	Fundamental Advances in Biomass Autothermal/Oxidative Pyrolysis: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11888-11905	8.3	37
204	Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. <i>Environmental Science: Nano</i> , 2020 , 7, 2595-2606	7.1	8
203	Graphitic Carbon Nitride Microtubes for Efficient Photocatalytic Overall Water Splitting: The Morphology Derived Electrical Field Enhancement. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14386-14396	8.3	16
202	Catalytic degradation of antibiotics by metal-free catalysis over nitrogen-doped graphene. <i>Catalysis Today</i> , 2020 , 357, 341-349	5.3	29

201	Synergy of carbocatalytic and heat activation of persulfate for evolution of reactive radicals toward metal-free oxidation. <i>Catalysis Today</i> , 2020 , 355, 319-324	5.3	13
200	Surface engineering of hollow carbon nitride microspheres for efficient photoredox catalysis. <i>Chemical Engineering Journal</i> , 2020 , 381, 122593	14.7	25
199	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
198	Core/shell FeVO ₄ @BiOCl heterojunction as a durable heterogeneous Fenton catalyst for the efficient sonophotocatalytic degradation of p-nitrophenol. <i>Separation and Purification Technology</i> , 2020 , 231, 115915	8.3	39
197	Improved trade-off between strength and plasticity in titanium based metastable beta type Ti-Zr-Fe-Sn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138340	5.3	36
196	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019 , 167, 115110	12.5	86
195	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
194	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
193	Nickel in hierarchically structured nitrogen-doped graphene for robust and promoted degradation of antibiotics. <i>Journal of Cleaner Production</i> , 2019 , 218, 202-211	10.3	26
192	COSMO-based solvent selection and Aspen Plus process simulation for tar absorptive removal. <i>Applied Energy</i> , 2019 , 251, 113314	10.7	5
191	Design and Synthesis of a New Mannitol Stearate Ester-Based Aluminum Alkoxide as a Novel Tri-Functional Additive for Poly(Vinyl Chloride) and Its Synergistic Effect with Zinc Stearate. <i>Polymers</i> , 2019 , 11,	4.5	12
190	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23904-23913	13	33
189	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
188	Deformation and strength characteristics of Laves phases in titanium alloys. <i>Materials and Design</i> , 2019 , 179, 107891	8.1	44
187	Cuprous/Vanadium Sites on MIL-101 for Selective CO Adsorption from Gas Mixtures with Superior Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11284-11292	8.3	19
186	Ultrathin nickel-cobalt inorganic-organic hydroxide hybrid nanobelts as highly efficient electrocatalysts for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 318, 966-976	6.7	12
185	Facile Synthesis of Di-Mannitol Adipate Ester-Based Zinc Metal Alkoxide as a Bi-Functional Additive for Poly(Vinyl Chloride). <i>Polymers</i> , 2019 , 11,	4.5	8
184	Cobalt@nitrogen-doped bamboo-structured carbon nanotube to boost photocatalytic hydrogen evolution on carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 443-451	21.8	42

183	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. <i>Sustainable Materials and Technologies</i> , 2019 , 20, e00108	5.3	12
182	Zn phthalocyanine/carbon nitride heterojunction for visible light photoelectrocatalytic conversion of CO ₂ to methanol. <i>Journal of Catalysis</i> , 2019 , 371, 214-223	7.3	30
181	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
180	Application of Biochar Derived From Pyrolysis of Waste Fiberboard on Tetracycline Adsorption in Aqueous Solution. <i>Frontiers in Chemistry</i> , 2019 , 7, 943	5	20
179	Facile synthesis of Co-N-rGO composites as an excellent electrocatalyst for oxygen reduction reaction. <i>Chemical Engineering Science</i> , 2019 , 194, 45-53	4.4	19
178	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
177	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science & Technology</i> , 2019 , 53, 11391-11400	10.3	105
176	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
175	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
174	Photocatalytic reforming of biomass for hydrogen production over ZnS nanoparticles modified carbon nitride nanosheets. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 22-30	9.3	14
173	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , 2019 , 1, 745-758	12.7	140
172	Graphitic Carbon Nitride Decorated with CoP Nanocrystals for Enhanced Photocatalytic and Photoelectrochemical H ₂ Evolution. <i>Energy & Fuels</i> , 2019 , 33, 11663-11676	4.1	23
171	Enhanced humidity sensing of functionalized reduced graphene oxide with 4-chloro-3-sulfophenylazo groups. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 258-266	8.5	7
170	Grand Challenges in Environmental Nanotechnology. <i>Frontiers in Nanotechnology</i> , 2019 , 1,	5.5	12
169	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
168	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
167	Pyrolysis of palm kernel shell with internal recycling of heavy oil. <i>Bioresource Technology</i> , 2019 , 272, 77-82	8.2	44
166	Worm-like FeS ₂ /TiO ₂ Nanotubes for Photoelectrocatalytic Reduction of CO ₂ to Methanol under Visible Light. <i>Energy & Fuels</i> , 2018 , 32, 4357-4363	4.1	27

165	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
164	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , 2018 , 51, 678-687	24.3	573
163	One-step synthesis of flour-derived functional nanocarbons with hierarchical pores for versatile environmental applications. <i>Chemical Engineering Journal</i> , 2018 , 347, 432-439	14.7	42
162	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
161	Cascade applications of robust MIL-96 metal organic frameworks in environmental remediation: Proof of concept. <i>Chemical Engineering Journal</i> , 2018 , 341, 262-271	14.7	17
160	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
159	Enhanced CO ₂ Adsorption and Selectivity of CO ₂ /N ₂ on Amino-MIL-53(Al) Synthesized by Polar Co-solvents. <i>Energy & Fuels</i> , 2018 , 32, 4502-4510	4.1	25
158	Crystal transformation of 2D tungstic acid HWO to WO for enhanced photocatalytic water oxidation. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 576-583	9.3	33
157	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
156	Atomic-level design of CoOH-hydroxyapatite@C catalysts for superfast degradation of organics via peroxymonosulfate activation. <i>Chemical Communications</i> , 2018 , 54, 4919-4922	5.8	18
155	Pt-Free microengines at extremely low peroxide levels. <i>Chemical Communications</i> , 2018 , 54, 4653-4656	5.8	19
154	Co@C/CoO _x coupled with N-doped layer-structured carbons for excellent CO ₂ capture and oxygen reduction reaction. <i>Carbon</i> , 2018 , 133, 306-315	10.4	25
153	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
152	Effects of -NO ₂ and -NH ₂ functional groups in mixed-linker Zr-based MOFs on gas adsorption of CO ₂ and CH ₄ . <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 160-167	3.6	42
151	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
150	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
149	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
148	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

147	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
146	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
145	Synthesis of pentaerythritol stearate ester-based zinc alkoxide and its synergistic effect with calcium stearate and zinc stearate on PVC thermal stability. <i>Journal of Vinyl and Additive Technology</i> , 2018 , 24, 314-323	2	8
144	Temperature dependent photocatalysis of g-CN, TiO and ZnO: Differences in photoactive mechanism. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 321-330	9.3	40
143	Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018 , 30, e1803351	24	38
142	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
141	Carbon nitride photocatalysts 2018 , 103-126		0
140	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
139	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
138	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
137	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
136	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 973-982	21.8	397
135	Quasi single cobalt sites in nanopores for superior catalytic oxidation of organic pollutants. <i>Environmental Science: Nano</i> , 2018 , 5, 2842-2852	7.1	30
134	Improved deformation behavior in Ti-Zr-Fe-Mn alloys comprising the C14 type Laves and β phases. <i>Materials and Design</i> , 2018 , 160, 1059-1070	8.1	49
133	Temperature-dependent evolution of hydroxyl radicals from peroxymonosulfate activation over nitrogen-modified carbon nanotubes. <i>Sustainable Materials and Technologies</i> , 2018 , 18, e00082	5.3	7
132	A comparative study of metal (Ni, Co, or Mn)-borate catalysts and their photodeposition on rGO/ZnO nanoarrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24149-24156	13	27
131	High-speed graphene@Ag-MnO micromotors at low peroxide levels. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 271-280	9.3	36
130	Dual-metal zeolitic imidazolate frameworks and their derived nanoporous carbons for multiple environmental and electrochemical applications. <i>Chemical Engineering Journal</i> , 2018 , 351, 641-649	14.7	30

129	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
128	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
127	Metal-free hybrids of graphitic carbon nitride and nanodiamonds for photoelectrochemical and photocatalytic applications. <i>Journal of Colloid and Interface Science</i> , 2017 , 493, 275-280	9.3	28
126	Green Synthesis of Carbon Quantum Dots for Sensitized Solar Cells. <i>ChemPhotoChem</i> , 2017 , 1, 116-119	3.3	37
125	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
124	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
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113	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
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