

Dionysios D Dionysiou

List of Publications by Year in descending order

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599
papers

62,687
citations

558

126
h-index

1347

223
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617
all docs

617
docs citations

617
times ranked

36748
citing authors

#	ARTICLE	IF	CITATIONS
1	Internal electric field driving separation and migration of charge carriers via Z-scheme path in AgIn ₅ S ₈ /ZnO heterojunction for efficient decontamination of pharmaceutical pollutants. <i>Chemical Engineering Journal</i> , 2022, 428, 132096.	12.7	59
2	Double-dose responses of <i>Scenedesmus capricornus</i> microalgae exposed to humic acid. <i>Science of the Total Environment</i> , 2022, 806, 150547.	8.0	18
3	Rapid detoxification of dioxin and simultaneous stabilization of targeted heavy metals: New insight into a microwave-induced pyrolysis of fly ash. <i>Chemical Engineering Journal</i> , 2022, 429, 131939.	12.7	6
4	Biochar as a novel carbon-negative electron source and mediator: electron exchange capacity (EEC) and environmentally persistent free radicals (EPFRs): a review. <i>Chemical Engineering Journal</i> , 2022, 429, 132313.	12.7	65
5	Adsorption and photochemical capacity on 17 β -ethinylestradiol by char produced in the thermo treatment process of plastic waste. <i>Journal of Hazardous Materials</i> , 2022, 423, 127066.	12.4	16
6	Mechanisms through which reductants influence the catalytic performance of a pyrophosphate-modified Fenton-like process under circumneutral pH conditions. <i>Chemical Engineering Journal</i> , 2022, 435, 133003.	12.7	3
7	Photoelectrocatalytic coupling system synergistically removal of antibiotics and antibiotic resistant bacteria from aquatic environment. <i>Journal of Hazardous Materials</i> , 2022, 424, 127553.	12.4	20
8	Interplay of bicarbonate and the oxygen-containing groups of carbon nanotubes dominated the metal-free activation of peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2022, 430, 133102.	12.7	17
9	Microplastics separation and subsequent carbonization: Synthesis, characterization, and catalytic performance of iron/carbon nanocomposite. <i>Journal of Cleaner Production</i> , 2022, 330, 129901.	9.3	52
10	Self-Powered Water Flow-Triggered Piezocatalytic Generation of Reactive Oxygen Species for Water Purification in Simulated Water Drainage. <i>ACS ES&T Engineering</i> , 2022, 2, 101-109.	7.6	40
11	Low concentrations of 17 β -estradiol exacerbate tamoxifen resistance in breast cancer treatment through membrane estrogen receptor α -mediated signaling pathways. <i>Environmental Toxicology</i> , 2022, 37, 514-526.	4.0	10
12	Opportunities for Treatment and Reuse of Agricultural Drainage in the United States. <i>ACS ES&T Engineering</i> , 2022, 2, 292-305.	7.6	7
13	Cationic polyacrylamide (CPAM) enhanced pressurized vertical electro-osmotic dewatering of activated sludge. <i>Science of the Total Environment</i> , 2022, 818, 151787.	8.0	11
14	The photodegradation of 17 alpha-ethinylestradiol in water containing iron and dissolved organic matter. <i>Science of the Total Environment</i> , 2022, 814, 152516.	8.0	6
15	New insight to superoxide radical-mediated degradation of pentachlorophenate: Kinetic determination and theoretical calculations. <i>Chemical Communications</i> , 2022, , .	4.1	7
16	Efficient synergism of K ₂ FeO ₄ preoxidation/ MIEX adsorption in ultrafiltration membrane fouling control and mechanisms. <i>Journal of Membrane Science</i> , 2022, 648, 120331.	8.2	3
17	Mineral Modulated Single Atom Catalyst for Effective Water Treatment. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	53
18	Nano-enhanced treatment of per-fluorinated and poly-fluorinated alkyl substances (PFAS). <i>Current Opinion in Chemical Engineering</i> , 2022, 35, 100779.	7.8	7

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19	Making waves: Defining advanced reduction technologies from the perspective of water treatment. <i>Water Research</i> , 2022, 212, 118101.	11.3	16
20	Enhanced degradation of sulfamethoxazole by a modified nano zero-valent iron with a β -cyclodextrin polymer: Mechanism and toxicity evaluation. <i>Science of the Total Environment</i> , 2022, 817, 152888.	8.0	26
21	Insight into enhanced Fenton-like degradation of antibiotics over CuFeO ₂ based nanocomposite: To improve the utilization efficiency of OH/O ₂ - via minimizing its migration distance. <i>Chemosphere</i> , 2022, 294, 133743.	8.2	9
22	Visible Light-Induced Catalyst-Free Activation of Peroxydisulfate: Pollutant-Dependent Production of Reactive Species. <i>Environmental Science & Technology</i> , 2022, 56, 2626-2636.	10.0	58
23	Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids. <i>Environmental Science & Technology</i> , 2022, 56, 624-633.	10.0	45
24	Response to Comment on "Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids". <i>Environmental Science & Technology</i> , 2022, 56, 5289-5291.	10.0	2
25	Technology Baselines and Innovation Priorities for Securing Water Supply. <i>ACS ES&T Engineering</i> , 2022, 2, 271-272.	7.6	7
26	Overlooked Formation of H ₂ O ₂ during the Hydroxyl Radical-Scavenging Process When Using Alcohols as Scavengers. <i>Environmental Science & Technology</i> , 2022, 56, 3386-3396.	10.0	83
27	Nonradical Activation of Peroxydisulfate with In Situ Generated Amorphous MnO ₂ in an Electro-Permanganate Process: Involvement of Singlet Oxygen, Electron Transfer, and Mn(III) ^{aq} . <i>ACS ES&T Engineering</i> , 2022, 2, 1316-1325.	7.6	13
28	Mechanistic Study of the Effects of Agricultural Amendments on Photochemical Processes in Paddy Water during Rice Growth. <i>Environmental Science & Technology</i> , 2022, 56, 4221-4230.	10.0	17
29	Peroxymonosulfate catalytic degradation of persistent organic pollutants by engineered catalyst of self-doped iron/carbon nanocomposite derived from waste toner powder. <i>Separation and Purification Technology</i> , 2022, 291, 120963.	7.9	70
30	Insight into the visible light activation of sulfite by Fe/g-C ₃ N ₄ with rich N vacancies for pollutant removal and sterilization: A novel approach for enhanced generation of oxysulfur radical. <i>Chemical Engineering Journal</i> , 2022, 438, 135663.	12.7	31
31	Designing NAZO@BC electrodes for enhanced elimination of hydrophilic organic pollutants in heterogeneous electro-Fenton system: Insights into the detoxification mediated by $^{1}O_2$ and $^{\bullet}OH$. <i>Journal of Hazardous Materials</i> , 2022, 431, 128598.	12.4	8
32	Reconsidering the use of ferrous hydroxide for remediation of chlorinated ethylene contaminated groundwater: Ultra-fast trichloroethene dechlorination by ferrous hydroxide and bone char mixture. <i>Chemical Engineering Journal</i> , 2022, 438, 135516.	12.7	9
33	Degradation of mineral-immobilized pyrene by ferrate oxidation: Role of mineral type and intermediate oxidative iron species. <i>Water Research</i> , 2022, 217, 118377.	11.3	20
34	Novel strategy for enhanced visible light-responsive photoactivity of ZnFe ₂ O ₄ with a single-mode microwave combustion process: Primary parameters. <i>Chemical Engineering Journal</i> , 2022, 440, 135551.	12.7	5
35	Transformation of phenol and nitrobenzene by superoxide radicals: Kinetics and mechanisms. <i>Chemical Engineering Journal</i> , 2022, 442, 136134.	12.7	25
36	Degradation of contaminants of emerging concern in UV/Sodium percarbonate Process: Kinetic understanding of carbonate radical and energy consumption evaluation. <i>Chemical Engineering Journal</i> , 2022, 442, 135995.	12.7	23

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37	Reactive High-Valent Iron Intermediates in Enhancing Treatment of Water by Ferrate. <i>Environmental Science & Technology</i> , 2022, 56, 30-47.	10.0	63
38	Inference of emission history of neonicotinoid pesticides from marine sediment cores impacted by riverine runoff of a developed agricultural region: The Pearl River Basin, China. <i>Water Research</i> , 2022, 218, 118475.	11.3	13
39	UV/Sodium percarbonate for bisphenol A treatment in water: Impact of water quality parameters on the formation of reactive radicals. <i>Water Research</i> , 2022, 219, 118457.	11.3	20
40	A comprehensive review on algae removal and control by coagulation-based processes: mechanism, material, and application. <i>Separation and Purification Technology</i> , 2022, 293, 121106.	7.9	40
41	New Insight into a Fenton-like Reaction Mechanism over Sulfidated Fe^{2+} -FeOOH: Key Role of Sulfidation in Efficient Iron(III) Reduction and Sulfate Radical Generation. <i>Environmental Science & Technology</i> , 2022, 56, 5542-5551.	10.0	35
42	Novel Photocatalysts for Environmental and Energy Applications. <i>Catalysts</i> , 2022, 12, 458.	3.5	8
43	Kinetics and mechanistic aspects of superoxide radical-mediated transformation of ascorbate. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107736.	6.7	5
44	Nanoscale Zero-Valent Iron Confined in Anion Exchange Resins to Enhance Selective Adsorption of Phosphate from Wastewater. <i>ACS ES&T Engineering</i> , 2022, 2, 1454-1464.	7.6	15
45	Solar light induced photocatalytic activation of peroxydisulfate by ultra-thin Ti^{3+} self-doped $\text{Fe}_2\text{O}_3/\text{TiO}_2$ nanoflakes for the degradation of naphthalene. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121532.	20.2	54
46	Photocatalytic activation of peroxydisulfate by a new porous $\text{g-C}_3\text{N}_4$ /reduced graphene oxide/ TiO_2 nanobelts composite for efficient degradation of 17 β -ethinylestradiol. <i>Chemical Engineering Journal</i> , 2022, 446, 137325.	12.7	18
47	Commemorative Issue in Honor of Professor Gerhard Ertl on the Occasion of His 85th Birthday. <i>Catalysts</i> , 2022, 12, 624.	3.5	1
48	Understanding mechanism of improved-dewatering of waste activated sludge by multi-stage pressurized vertical electro-osmotic. <i>Chemical Engineering Research and Design</i> , 2022, 164, 846-856.	5.6	7
49	Influencing factors and health risk assessment of polycyclic aromatic hydrocarbons in groundwater in China. <i>Journal of Hazardous Materials</i> , 2021, 402, 123419.	12.4	42
50	Preparation and antibacterial properties of gold nanoparticles: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 167-187.	16.2	121
51	Graphene-modified graphite paper cathode for the efficient bioelectrochemical removal of chromium. <i>Chemical Engineering Journal</i> , 2021, 405, 126545.	12.7	17
52	Degradation of highly chlorinated pesticide, lindane, in water using UV/persulfate: kinetics and mechanism, toxicity evaluation, and synergism by H_2O_2 . <i>Journal of Hazardous Materials</i> , 2021, 402, 123558.	12.4	53
53	Enhanced photocatalytic oxidizing ability of $\text{Zn}_{1-x}\text{In}_x/\text{S}$ solid solution via band structure by composition regulation. <i>Separation and Purification Technology</i> , 2021, 255, 117726.	7.9	12
54	Heterogeneous Fenton catalysts: A review of recent advances. <i>Journal of Hazardous Materials</i> , 2021, 404, 124082.	12.4	412

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55	Isotope ratio mass spectrometry and spectroscopic techniques for microplastics characterization. <i>Talanta</i> , 2021, 224, 121743.	5.5	30
56	Enhancing the performance of Fenton-like oxidation by a dual-layer membrane: A sequential interception-oxidation process. <i>Journal of Hazardous Materials</i> , 2021, 402, 123766.	12.4	18
57	Do membrane filtration systems in drinking water treatment plants release nano/microplastics?. <i>Science of the Total Environment</i> , 2021, 755, 142658.	8.0	59
58	Manganese doped iron-carbon composite for synergistic persulfate activation: Reactivity, stability, and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 405, 124228.	12.4	44
59	Understanding synergistic mechanisms of ferrous iron activated sulfite oxidation and organic polymer flocculation for enhancing wastewater sludge dewaterability. <i>Water Research</i> , 2021, 189, 116652.	11.3	52
60	Efficient degradation of clofibrac acid by heterogeneous catalytic ozonation using CoFe ₂ O ₄ catalyst in water. <i>Journal of Hazardous Materials</i> , 2021, 410, 124604.	12.4	57
61	What is the role of light in persulfate-based advanced oxidation for water treatment?. <i>Water Research</i> , 2021, 189, 116627.	11.3	214
62	Fabrication of Bi _{1.81} MnNbO _{6.72} /sulfite system for efficient degradation of chlortetracycline. <i>Chemosphere</i> , 2021, 268, 129269.	8.2	14
63	High-performance and stable Ru-Pd nanosphere catalyst supported on two-dimensional boron nitride nanosheets for the hydrogenation of furfural via water-mediated protonation. <i>Fuel</i> , 2021, 290, 119826.	6.4	31
64	Modified humic acids mediate efficient mineralization in a photo-bio-electro-Fenton process. <i>Water Research</i> , 2021, 190, 116740.	11.3	34
65	Determination and Environmental Implications of Aqueous-Phase Rate Constants in Radical Reactions. <i>Water Research</i> , 2021, 190, 116746.	11.3	65
66	Kinetics and mechanistic aspects of removal of heavy metal through gas-liquid sulfide precipitation: A computational and experimental study. <i>Journal of Hazardous Materials</i> , 2021, 408, 124868.	12.4	25
67	Comparative toxicity reduction potential of UV/sodium percarbonate and UV/hydrogen peroxide treatments for bisphenol A in water: An integrated analysis using chemical, computational, biological, and metabolomic approaches. <i>Water Research</i> , 2021, 190, 116755.	11.3	37
68	Novel microwave-driven synthesis of hydrophilic polyvinylidene fluoride/polyacrylic acid (PVDF/PAA) membranes and decoration with nano zero-valent-iron (nZVI) for water treatment applications. <i>Journal of Membrane Science</i> , 2021, 620, 118817.	8.2	28
69	Abundance and distribution characteristics of microplastic in plateau cultivated land of Yunnan Province, China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 1675-1688.	5.3	81
70	Ag-decorated 3D flower-like Bi ₂ MoO ₆ /rGO with boosted photocatalytic performance for removal of organic pollutants. <i>Rare Metals</i> , 2021, 40, 1086-1098.	7.1	51
71	Alternative synthesis of nitrogen and carbon co-doped TiO ₂ for removing fluoroquinolone antibiotics in water under visible light. <i>Catalysis Today</i> , 2021, 361, 11-16.	4.4	27
72	Activation of inorganic peroxides with magnetic graphene for the removal of antibiotics from wastewater. <i>Environmental Science: Nano</i> , 2021, 8, 960-977.	4.3	34

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73	Emerging investigator series: could the superoxide radical be implemented in decontamination processes?. Environmental Science: Water Research and Technology, 2021, 7, 1966-1970.	2.4	10
74	Influence of catalyst zeta potential on the activation of persulfate. Chemical Communications, 2021, 57, 7814-7817.	4.1	13
75	Formation of Nitrite and Hydrogen Peroxide in Water during the Vacuum Ultraviolet Irradiation Process: Impacts of pH, Dissolved Oxygen, and Nitrate Concentration. Environmental Science & Technology, 2021, 55, 1682-1689.	10.0	21
76	Effects of Experimental Conditions on the Signaling Fidelity of Impedance-Based Nucleic Acid Sensors. Analytical Chemistry, 2021, 93, 812-819.	6.5	16
77	Degradation of atrazine in the electrochemical LED-UV/Cl ₂ system: the role of $\cdot\text{OH}$ and $\text{Cl}_2^{\cdot-}$. Environmental Science: Water Research and Technology, 2021, 7, 1630-1642.	2.4	1
78	Hydroxyl Radical-Involving <i>p</i> -Nitrophenol Oxidation during Its Reduction by Nanoscale Sulfidated Zerovalent Iron under Anaerobic Conditions. Environmental Science & Technology, 2021, 55, 2403-2410.	10.0	26
79	Tube-in-tube membrane photoreactor as a new technology to boost sulfate radical advanced oxidation processes. Water Research, 2021, 191, 116815.	11.3	26
80	Construction of TiO ₂ @Bi ₂ WO ₆ hollow microspheres by template method for enhanced degradation of ethylene under visible light. Optical Materials, 2021, 113, 110839.	3.6	19
81	Simultaneous changes of exogenous dissolved organic matter treated by ozonation in properties and interaction behavior with sulfonamides. Environmental Pollution, 2021, 275, 116546.	7.5	10
82	Transport and Fate of Virus-Laden Particles in a Supermarket: Recommendations for Risk Reduction of COVID-19 Spreading. Journal of Environmental Engineering, ASCE, 2021, 147, .	1.4	12
83	Mechanistic insight into superoxide radical-mediated degradation of carbon tetrachloride in aqueous solution: An in situ spectroscopic and computational study. Chemical Engineering Journal, 2021, 410, 128181.	12.7	49
84	Graphite as catalyst for UV-A LED assisted catalytic wet peroxide oxidation of ibuprofen and diclofenac. Chemical Engineering Journal Advances, 2021, 6, 100090.	5.2	10
85	Photogeneration of Reactive Species from Biochar-Derived Dissolved Black Carbon for the Degradation of Amine and Phenolic Pollutants. Environmental Science & Technology, 2021, 55, 8866-8876.	10.0	59
86	Silver Nanoparticle Interactions with Surfactant-Based Household Surface Cleaners. Environmental Engineering Science, 2021, 38, 481-488.	1.6	3
87	Production of polyhydroxyalkanoates from propylene oxide saponification wastewater residual sludge using volatile fatty acids and bacterial community succession. Bioresource Technology, 2021, 329, 124912.	9.6	19
88	A review of clay based photocatalysts: Role of phyllosilicate mineral in interfacial assembly, microstructure control and performance regulation. Chemosphere, 2021, 273, 129723.	8.2	57
89	In-situ mediation of graphitic carbon film-encapsulated tungsten carbide for enhancing hydrogen evolution performance and stability. Electrochimica Acta, 2021, 388, 138566.	5.2	3
90	Molybdenum disulfide nanosheets vertically grown on self-supported titanium dioxide/nitrogen-doped carbon nanofiber film for effective hydrogen peroxide decomposition and H_2 memory catalysis. Journal of Colloid and Interface Science, 2021, 596, 384-395.	9.4	17

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91	An N,S-Anchored Single-Atom Catalyst Derived from Domestic Waste for Environmental Remediation. ACS ES&T Engineering, 2021, 1, 1460-1469.	7.6	33
92	Removal of humic acid and Cr(VI) from water using ZnO@30N-zeolite. Chemosphere, 2021, 279, 130491.	8.2	13
93	Novel hierarchical carbon quantum dots-decorated BiOCl nanosheet/carbonized eggshell membrane composites for improved removal of organic contaminants from water via synergistic adsorption and photocatalysis. Chemical Engineering Journal, 2021, 420, 129582.	12.7	116
94	Sensitive Electrochemical Detection of Microcystin-LR in Water Samples Via Target-Induced Displacement of Aptamer Associated [Ru(NH ₃) ₆] ³⁺ . ACS ES&T Engineering, 2021, 1, 1597-1605.	7.6	7
95	Photochemical characterization of paddy water during rice cultivation: Formation of reactive intermediates for As(III) oxidation. Water Research, 2021, 206, 117721.	11.3	33
96	Novel slow release ammonium persulfate capsules for in situ remediation of high arsenic groundwater. Journal of Hydrology, 2021, 600, 126571.	5.4	4
97	Roles of oxygen-containing functional groups of O-doped g-C ₃ N ₄ in catalytic ozonation: Quantitative relationship and first-principles investigation. Applied Catalysis B: Environmental, 2021, 292, 120155.	20.2	137
98	Editorial Overview: Emissions of Microplastics and Their Control in the Environment. Journal of Environmental Engineering, ASCE, 2021, 147, .	1.4	11
99	Tailored BiVO ₄ for enhanced visible-light photocatalytic performance. Journal of Environmental Chemical Engineering, 2021, 9, 106025.	6.7	22
100	Bi ₂ WO ₆ -TiO ₂ /starch composite films with Ag nanoparticle irradiated by ¹³⁷ γ-ray used for the visible light photocatalytic degradation of ethylene. Chemical Engineering Journal, 2021, 421, 129986.	12.7	43
101	Selective spectrophotometric determination of peroxydisulfate based on a by-product formation. Sensors and Actuators B: Chemical, 2021, 344, 130214.	7.8	6
102	Nitrogen-doped hollow carbon nanospheres as highly efficient electrocatalysts for detection of triclosan. Journal of Environmental Chemical Engineering, 2021, 9, 106022.	6.7	10
103	Reactivity and reaction mechanisms of sulfate radicals with lindane: An experimental and theoretical study. Environmental Research, 2021, 201, 111523.	7.5	13
104	Electrochemical reductive remediation of trichloroethylene contaminated groundwater using biomimetic iron-nitrogen-doped carbon. Journal of Hazardous Materials, 2021, 419, 126458.	12.4	20
105	TiO ₂ -carbon microspheres as photocatalysts for effective remediation of pharmaceuticals under simulated solar light. Separation and Purification Technology, 2021, 275, 119169.	7.9	38
106	Highly efficient photoelectrocatalytic degradation of cefotaxime sodium on the MoSe ₂ /TiO ₂ nanotubes photoanode with abundant oxygen vacancies. Journal of Solid State Chemistry, 2021, 303, 122455.	2.9	21
107	A review on the degradation efficiency, DBP formation, and toxicity variation in the UV/chlorine treatment of micropollutants. Chemical Engineering Journal, 2021, 424, 130053.	12.7	91
108	Solar light assisted photocatalytic degradation of 1,4-dioxane using high temperature stable anatase W-TiO ₂ nanocomposites. Catalysis Today, 2021, 380, 199-208.	4.4	20

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109	Applications of computational chemistry, artificial intelligence, and machine learning in aquatic chemistry research. <i>Chemical Engineering Journal</i> , 2021, 426, 131810.	12.7	49
110	Treatment of contaminants of emerging concern and pathogens using electrophotocatalytic processes: A review. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 32, 100527.	5.9	6
111	Origin of the improved reactivity of MoS ₂ single crystal by confining lattice Fe atom in peroxymonosulfate-based Fenton-like reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120537.	20.2	53
112	Dual-functional paired photoelectrocatalytic system for the photocathodic reduction of CO ₂ to fuels and the anodic oxidation of furfural to value-added chemicals. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120520.	20.2	24
113	Oxidative dehydrogenation of ethane: catalytic and mechanistic aspects and future trends. <i>Chemical Society Reviews</i> , 2021, 50, 4564-4605.	38.1	119
114	Ecotoxicological Assessment of Microplastics in Freshwater Sources – A Review. <i>Water (Switzerland)</i> , 2021, 13, 56.	2.7	44
115	Reevaluation of the Reactivity of Superoxide Radicals with a Sulfonamide Antibiotic, Sulfacetamide: An Experimental and Theoretical Study. <i>ACS ES&T Water</i> , 2021, 1, 2339-2347.	4.6	17
116	A comparative study of the degradation efficiency of chlorinated organic compounds by bimetallic zero-valent iron nanoparticles. <i>Environmental Science: Water Research and Technology</i> , 2021, 8, 162-172.	2.4	16
117	Enhanced CO ₂ photoconversion activity of TiO ₂ via double effect of CoPi as hole traps and high CO ₂ capture. <i>Catalysis Today</i> , 2020, 340, 204-208.	4.4	12
118	Fabrication of CQDs/Bi ₅ Nb ₃ O ₁₅ nanocomposites for photocatalytic degradation of veterinary pharmaceutical sarafloxacin. <i>Catalysis Today</i> , 2020, 355, 716-726.	4.4	11
119	Hetero-nanostructured metal oxide-based hybrid photocatalysts for enhanced photoelectrochemical water splitting – A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18331-18347.	7.1	185
120	Bismuth impregnated biochar for efficient estrone degradation: The synergistic effect between biochar and Bi/Bi ₂ O ₃ for a high photocatalytic performance. <i>Journal of Hazardous Materials</i> , 2020, 384, 121258.	12.4	60
121	Photosensitive cellular polymeric substances accelerate 17 β -ethinylestradiol photodegradation. <i>Chemical Engineering Journal</i> , 2020, 381, 122737.	12.7	10
122	Adsorptive interaction of peroxymonosulfate with graphene and catalytic assessment via non-radical pathway for the removal of aqueous pharmaceuticals. <i>Journal of Hazardous Materials</i> , 2020, 384, 121340.	12.4	53
123	Efficient toxicity elimination of aqueous Cr(VI) by positively-charged BiOCl _{1-x} Br _{1-x} and BiOCl _{1-x} Br _{1-x} solid solution with internal hole-scavenging capacity via the synergy of adsorption and photocatalytic reduction. <i>Journal of Hazardous Materials</i> , 2020, 383, 121127.	12.4	111
124	Glucose and melamine derived nitrogen-doped carbonaceous catalyst for nonradical peroxymonosulfate activation. <i>Carbon</i> , 2020, 156, 399-409.	10.3	76
125	Environmentally friendly synthesized and magnetically recoverable designed ferrite photo-catalysts for wastewater treatment applications. <i>Journal of Hazardous Materials</i> , 2020, 381, 121200.	12.4	31
126	Development of ozonation and reactive electrochemical membrane coupled process: Enhanced tetracycline mineralization and toxicity reduction. <i>Chemical Engineering Journal</i> , 2020, 383, 123149.	12.7	81

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127	Natural illite-based ultrafine cobalt oxide with abundant oxygen-vacancies for highly efficient Fenton-like catalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118214.	20.2	194
128	Non-negligible risk of chloropicrin formation during chlorination with the UV/persulfate pretreatment process in the presence of low concentrations of nitrite. <i>Water Research</i> , 2020, 168, 115194.	11.3	50
129	Rapid toxicity elimination of organic pollutants by the photocatalysis of environment-friendly and magnetically recoverable step-scheme SnFe ₂ O ₄ /ZnFe ₂ O ₄ nano-heterojunctions. <i>Chemical Engineering Journal</i> , 2020, 379, 122264.	12.7	238
130	Rapid removal of tetrabromobisphenol A by $\text{Fe}_2\text{O}_3\text{-x@Graphene@Montmorillonite}$ catalyst with oxygen vacancies through peroxymonosulfate activation: Role of halogen and Fe^{\pm} -hydroxyalkyl radicals. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118129.	20.2	135
131	Utilization of formic acid in nanoscale zero valent iron-catalyzed Fenton system for carbon tetrachloride degradation. <i>Chemical Engineering Journal</i> , 2020, 380, 122537.	12.7	45
132	Advanced oxidation processes for the treatment of contaminants of emerging concern. , 2020, , 299-365.		13
133	Magnetically recoverable MgFe ₂ O ₄ /conjugated polyvinyl chloride derivative nanocomposite with higher visible-light photocatalytic activity for treating Cr(VI)-polluted water. <i>Separation and Purification Technology</i> , 2020, 236, 116272.	7.9	116
134	Black phosphorous-based nanostructures in environmental remediation: Current status and future perspectives. <i>Chemical Engineering Journal</i> , 2020, 389, 123460.	12.7	14
135	Molecular identification guided process design for advanced treatment of electroless nickel plating effluent. <i>Water Research</i> , 2020, 168, 115211.	11.3	28
136	The influence of a washing pretreatment containing phosphate anions on single-mode microwave-based detoxification of fly ash from municipal solid waste incinerators. <i>Chemical Engineering Journal</i> , 2020, 387, 124053.	12.7	16
137	An experimental and theoretical study on the degradation of clonidine by hydroxyl and sulfate radicals. <i>Science of the Total Environment</i> , 2020, 710, 136333.	8.0	79
138	Template-mediated growth of tungsten oxide with different morphologies for electrochemical application. <i>Materials Letters</i> , 2020, 264, 127309.	2.6	2
139	Synthesis of eosin modified TiO ₂ film with co-exposed {001} and {101} facets for photocatalytic degradation of para-aminobenzoic acid and solar H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118557.	20.2	106
140	Novel biosorbents synthesized from fungal and bacterial biomass and their applications in the adsorption of volatile organic compounds. <i>Bioresource Technology</i> , 2020, 300, 122705.	9.6	38
141	Experimental and theoretical insight into hydroxyl and sulfate radicals-mediated degradation of carbamazepine. <i>Environmental Pollution</i> , 2020, 257, 113498.	7.5	73
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292	Cobalt ferrite nanoparticles with controlled composition-peroxymonosulfate mediated degradation of 2-phenylbenzimidazole-5-sulfonic acid. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 266-279.	20.2	155
293	UV direct photolysis of sulfamethoxazole and ibuprofen: An experimental and modelling study. <i>Journal of Hazardous Materials</i> , 2018, 343, 132-139.	12.4	114
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