

Environmental Implications of Hydroxyl Radicals (<sup>

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Reviews and Syntheses: Ocean acidification and its potential impacts on marine ecosystems. <i>Biogeosciences</i> , 2016, 13, 1767-1786.	1.3	82
4	Reaction rates and kinetic isotope effects of $H_2 + OH \rightarrow H_2O + H$. <i>Journal of Chemical Physics</i> , 2016, 144, 174303.	1.2	29
5	Gas-Phase Photolysis of Pyruvic Acid: The Effect of Pressure on Reaction Rates and Products. <i>Journal of Physical Chemistry A</i> , 2016, 120, 10123-10133.	1.1	41
6	The persistence of pesticides in atmospheric particulate phase: An emerging air quality issue. <i>Scientific Reports</i> , 2016, 6, 33456.	1.6	71
7	Applications of Continuous-Flow Photochemistry in Organic Synthesis, Material Science, and Water Treatment. <i>Chemical Reviews</i> , 2016, 116, 10276-10341.	23.0	1,166
8	A DFT Study Toward the Reaction Mechanisms of TNT With Hydroxyl Radicals for Advanced Oxidation Processes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3747-3753.	1.1	26
9	Sunlight as an energetic driver in the synthesis of molecules necessary for life. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20067-20084.	1.3	85
10	Fenton-like Inactivation of Tobacco Peroxidase Electrocatalysis at Negative Potentials. <i>ACS Catalysis</i> , 2016, 6, 7452-7457.	5.5	14
11	Tolfenamic acid degradation by direct photolysis and the UV-ABC/H ₂ O ₂ process: factorial design, kinetics, identification of intermediates, and toxicity evaluation. <i>Science of the Total Environment</i> , 2016, 573, 518-531.	3.9	36
12	A novel catalytic process for degradation of bisphenol A from aqueous solutions: A synergistic effect of nano-Fe ₃ O ₄ @Alg-Fe on O ₃ /H ₂ O ₂ . <i>Chemical Engineering Research and Design</i> , 2016, 104, 413-421.	2.7	46
13	The 40 m ³ Innovative experimental Room for INdoor Air studies (IRINA): Development and validations. <i>Chemical Engineering Journal</i> , 2016, 306, 568-578.	6.6	14
14	Atmospheric chemistry of bioaerosols: heterogeneous and multiphase reactions with atmospheric oxidants and other trace gases. <i>Chemical Science</i> , 2016, 7, 6604-6616.	3.7	109
15	Introducing saccharic acid as an efficient iron chelate to enhance photo-Fenton degradation of organic contaminants. <i>Water Research</i> , 2016, 104, 168-177.	5.3	70
16	A model assessment of the ability of lake water in Terra Nova Bay, Antarctica, to induce the photochemical degradation of emerging contaminants. <i>Chemosphere</i> , 2016, 162, 91-98.	4.2	5
17	Involvement of Fenton chemistry in rice straw degradation by the lignocellulolytic bacterium <i>Pantoea ananatis</i> Sd-1. <i>Biotechnology for Biofuels</i> , 2016, 9, 211.	6.2	33
18	The contribution of indirect photolysis to the degradation of graphene oxide in sunlight. <i>Carbon</i> , 2016, 110, 426-437.	5.4	35
19	Considerable Fenton and photo-Fenton reactivity of passivated zero-valent iron. <i>RSC Advances</i> , 2016, 6, 86752-86761.	1.7	30
20	Air activation by a metal-free photocatalyst for "totally-green" hydrocarbon selective oxidation. <i>Catalysis Science and Technology</i> , 2016, 6, 7252-7258.	2.1	32

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21	Confinement Effect in Layered Double Hydroxide Nanoreactor: Improved Optical Sensing Selectivity. <i>Analytical Chemistry</i> , 2016, 88, 8188-8193.	3.2	31
22	Chlorination Revisited: Does Cl ⁺ Serve as a Catalyst in the Chlorination of Phenols?. <i>Environmental Science & Technology</i> , 2016, 50, 13291-13298.	4.6	55
23	Mechanistic Studies of TiO ₂ Photocatalysis and Fenton Degradation of Hydrophobic Aromatic Pollutants in Water. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3568-3574.	1.7	14
24	Enhancement in Rate of Photocatalysis Upon Catalyst Recycling. <i>Scientific Reports</i> , 2016, 6, 35075.	1.6	41
25	How do Enzymes Utilize Reactive OH Radicals? Lessons from Nonheme HppE and Fenton Systems. <i>Journal of the American Chemical Society</i> , 2016, 138, 8489-8496.	6.6	47
26	Generation of Hydroxyl Radicals in the Reaction of Dihydrogen with AuNbO ₄ ⁺ Cluster Cations. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2730-2734.	1.7	7
27	Synthesize and characterize of Ag ₃ VO ₄ /TiO ₂ nanorods photocatalysts and its photocatalytic activity under visible light irradiation. <i>Applied Surface Science</i> , 2016, 366, 173-180.	3.1	81
28	Instantaneous impedance monitoring of synergistic effect between cavitation erosion and corrosion processes. <i>Electrochimica Acta</i> , 2016, 203, 388-395.	2.6	39
29	The highly enhanced visible light photocatalytic degradation of gaseous o -dichlorobenzene through fabricating like-flowers BiPO ₄ /BiOBr p-n heterojunction composites. <i>Applied Surface Science</i> , 2017, 391, 525-534.	3.1	105
30	On the summertime air quality and related photochemical processes in the megacity Shanghai, China. <i>Science of the Total Environment</i> , 2017, 580, 974-983.	3.9	47
31	Effect of organic co-solvents in the evaluation of the hydroxyl radical scavenging activity by the 2-deoxyribose degradation assay: The paradigmatic case of L-lipoic acid. <i>Biophysical Chemistry</i> , 2017, 220, 1-6.	1.5	15
32	Modelling the photochemical attenuation pathways of the fibrate drug gemfibrozil in surface waters. <i>Chemosphere</i> , 2017, 170, 124-133.	4.2	12
33	Hydroxyl Radicals via Collision-Induced Dissociation of Trimethylammonium Benzyl Alcohols. <i>Australian Journal of Chemistry</i> , 2017, 70, 397.	0.5	5
34	Fluorescence completely separated ratiometric probe for HClO in lysosomes. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 293-299.	4.0	60
35	Reaction of SO ₂ with OH in the atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8091-8100.	1.3	63
36	Cytarabine degradation by simulated solar assisted photocatalysis using TiO ₂ . <i>Chemical Engineering Journal</i> , 2017, 316, 823-831.	6.6	33
37	Does a Nitrogen Lone Pair Lead to Two Centered-Three Electron (2c-3e) Interactions in Pyridyl Radical Isomers?. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3781-3791.	1.1	9
38	Addition of Hydrogen Peroxide to Groundwater with Natural Iron Induces Water Disinfection by Photo-Fenton at Circumneutral pH and other Photochemical Events. <i>Photochemistry and Photobiology</i> , 2017, 93, 1224-1231.	1.3	12

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39	Microbial response to environmental stresses: from fundamental mechanisms to practical applications. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 3991-4008.	1.7	117
40	A Review of Direct Zâ€Scheme Photocatalysts. <i>Small Methods</i> , 2017, 1, 1700080.	4.6	955
41	Addition of hydrogen peroxide enhances abiotic sunlight-induced processes to simultaneous emerging pollutants and bacteria abatement in simulated groundwater using CPC solar reactors. <i>Solar Energy</i> , 2017, 148, 110-116.	2.9	13
42	Oxygen Vacancy Associated Surface Fenton Chemistry: Surface Structure Dependent Hydroxyl Radicals Generation and Substrate Dependent Reactivity. <i>Environmental Science & Technology</i> , 2017, 51, 5685-5694.	4.6	387
43	Fe(III)-Modified BiOBr Hierarchitectures for Improved Photocatalytic Benzyl Alcohol Oxidation and Organic Pollutants Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5935-5943.	1.8	73
44	Electrochemical Advanced Oxidation Processes (EAOP) to degrade per- and polyfluoroalkyl substances (PFASs). <i>Journal of Advanced Oxidation Technologies</i> , 2017, 20, .	0.5	21
45	Kinetics of gas phase OH radical reaction with thiophene in the 272â€“353 K temperature range: A laser induced fluorescence study. <i>Chemical Physics Letters</i> , 2017, 682, 154-159.	1.2	8
46	Priority pesticides abatement by advanced water technologies: The case of acetamiprid removal by ozonation. <i>Science of the Total Environment</i> , 2017, 599-600, 1454-1461.	3.9	69
47	Enhancing reactive oxygen species generation and photocatalytic performance via adding oxygen reduction reaction catalysts into the photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 174-185.	10.8	82
48	Enhanced Phototherapy by Nanoparticle-Enzyme via Generation and Photolysis of Hydrogen Peroxide. <i>Nano Letters</i> , 2017, 17, 4323-4329.	4.5	188
49	Photochemical reaction between triclosan and nitrous acid in the atmospheric aqueous environment. <i>Atmospheric Environment</i> , 2017, 157, 38-48.	1.9	14
50	Reaction mechanisms of DNT with hydroxyl radicals for advanced oxidation processesâ€”a DFT study. <i>Journal of Molecular Modeling</i> , 2017, 23, 139.	0.8	10
51	Hydrogen peroxide (H ₂ O ₂) irreversibly inactivates creatine kinase from <i>Pelodiscus sinensis</i> by targeting the active site cysteine. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1595-1601.	3.6	5
52	Au-decorated sodium titanate nanotubes as high-performance selective photocatalysts for pollutant degradation. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 144002.	1.3	20
53	UV-based technologies for marine water disinfection and the application to ballast water: Does salinity interfere with disinfection processes?. <i>Science of the Total Environment</i> , 2017, 581-582, 144-152.	3.9	36
54	Remarkable enhancement of Fenton degradation at a wide pH range promoted by thioglycolic acid. <i>Chemical Communications</i> , 2017, 53, 1136-1139.	2.2	47
55	Cosmetic wastewater treatment by the ZVI/H ₂ O ₂ process. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2589-2600.	1.2	15
56	Secondary organic aerosol formation from photo-oxidation of toluene with NO _x and SO ₂ : Chamber simulation with purified air versus urban ambient air as matrix. <i>Atmospheric Environment</i> , 2017, 150, 67-76.	1.9	36

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57	High-energy oxidation process: an efficient alternative for wastewater organic contaminants removal. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1995-2006.	2.1	35
58	A comparison of photodegradation kinetics, mechanisms, and products between chlorinated and brominated/iodinated haloacetic acids in water. <i>Chemical Engineering Journal</i> , 2017, 330, 1326-1333.	6.6	43
59	Exploring ozonation as treatment alternative for methiocarb and formed transformation products abatement. <i>Chemosphere</i> , 2017, 186, 725-732.	4.2	16
60	Modeling the pH and temperature dependence of aqueous phase hydroxyl radical reaction rate constants of organic micropollutants using QSPR approach. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24936-24946.	2.7	17
61	Theoretical investigation on the mechanism of the OH-initiated degradation process of reactive red 2 azo dye. <i>RSC Advances</i> , 2017, 7, 41799-41811.	1.7	14
62	Photoinduced degradation of sulfonamides, kinetic, and structural characterization of transformation products and assessment of environmental toxicity. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 1304-1327.	0.6	23
63	Contaminants of emerging concern: a review of new approach in AOP technologies. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 414.	1.3	194
64	Modeling the aqueous phase reactivity of hydroxyl radical towards diverse organic micropollutants: An aid to water decontamination processes. <i>Chemosphere</i> , 2017, 185, 1164-1172.	4.2	15
65	Phototransformation of Acesulfame K in surface waters: Comparison of two techniques for the measurement of the second-order rate constants of indirect photodegradation, and modelling of photoreaction kinetics. <i>Chemosphere</i> , 2017, 186, 185-192.	4.2	23
66	Photochemical Water-Splitting with Organomanganese Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 9954-9965.	1.9	18
67	Can radiation chemistry supply a highly efficient AO(R)P process for organics removal from drinking and waste water? A review. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20187-20208.	2.7	46
68	Enhanced antibacterial activity of silica nanorattles with ZnO combination nanoparticles against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Science Bulletin</i> , 2017, 62, 1207-1215.	4.3	10
69	Can Carbamates Undergo Radical Oxidation in the Soil Environment? A Case Study on Carbaryl and Carbofuran. <i>Environmental Science & Technology</i> , 2017, 51, 14124-14134.	4.6	15
70	Boron Doped ZIF@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzyme-Free Hydrogen Peroxide Biosensor. <i>Advanced Materials Technologies</i> , 2017, 2, 1700224.	3.0	22
71	Raman Spectroscopy of Single Light-Absorbing Carbonaceous Particles Levitated in Air Using an Annular Laser Beam. <i>Analytical Chemistry</i> , 2017, 89, 12866-12871.	3.2	16
72	A new 3D-printed photoelectrocatalytic reactor combining the benefits of a transparent electrode and the Fenton reaction for advanced wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24951-24964.	5.2	40
73	Biowaste-derived substances as a tool for obtaining magnet-sensitive materials for environmental applications in wastewater treatments. <i>Chemical Engineering Journal</i> , 2017, 310, 307-316.	6.6	42
74	Photo-Fenton degradation of organic pollutants using a zinc oxide decorated iron oxide/reduced graphene oxide nanocomposite. <i>Ceramics International</i> , 2017, 43, 1290-1297.	2.3	59

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76	2,4-D abatement from groundwater samples by photo-Fenton processes at circumneutral pH using naturally iron present. Effect of inorganic ions. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6213-6221.	2.7	24
77	Mixing state of oxalic acid containing particles in the rural area of Pearl River Delta, China: implications for the formation mechanism of oxalic acid. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9519-9533.	1.9	36
78	Degradation of Methyl 2-Aminobenzoate (Methyl Anthranilate) by H ₂ O ₂ /UV: Effect of Inorganic Anions and Derived Radicals. <i>Molecules</i> , 2017, 22, 619.	1.7	22
79	The TOMCAT global chemical transport model v1.6: description of chemical mechanism and model evaluation. <i>Geoscientific Model Development</i> , 2017, 10, 3025-3057.	1.3	35
80	Magnetite and Green Rust: Synthesis, Properties, and Environmental Applications of Mixed-Valent Iron Minerals. <i>Chemical Reviews</i> , 2018, 118, 3251-3304.	23.0	319
81	Hot electron-induced electrochemiluminescence of calcein and calcein-Tb(III) complex at disposable oxide-covered aluminum and polyvinyl butyral-carbon black/metal composite electrodes in aqueous solutions. <i>Electrochimica Acta</i> , 2018, 266, 212-219.	2.6	6
82	Reinventing Fenton Chemistry: Iron Oxychloride Nanosheet for pH-Insensitive H ₂ O ₂ Activation. <i>Environmental Science and Technology Letters</i> , 2018, 5, 186-191.	3.9	202
83	Enhance low temperature oxidization of shale gas recovery using hydrogen peroxide. <i>Journal of Petroleum Science and Engineering</i> , 2018, 164, 523-530.	2.1	17
84	Kinetics and mechanism of OH-initiated atmospheric oxidation of organophosphorus plasticizers: A computational study on tri-p-cresyl phosphate. <i>Chemosphere</i> , 2018, 201, 557-563.	4.2	29
85	Effect of initial pH on the tetracycline (TC) removal by zero-valent iron: Adsorption, oxidation and reduction. <i>Chemical Engineering Journal</i> , 2018, 343, 492-499.	6.6	226
86	The synergistic effect of nickel-iron-foam and tripolyphosphate for enhancing the electro-Fenton process at circum-neutral pH. <i>Chemosphere</i> , 2018, 201, 687-696.	4.2	41
87	Synthesis of ZnO/Bi-doped porous LaFeO ₃ nanocomposites as highly efficient nano-photocatalysts dependent on the enhanced utilization of visible-light-excited electrons. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 23-33.	10.8	113
88	A model assessment of the potential of river water to induce the photochemical attenuation of pharmaceuticals downstream of a wastewater treatment plant (Guadiana River, Badajoz, Spain). <i>Chemosphere</i> , 2018, 198, 473-481.	4.2	20
89	Treatment of organic pollutants by homogeneous and heterogeneous Fenton reaction processes. <i>Environmental Chemistry Letters</i> , 2018, 16, 947-967.	8.3	254
90	Environmental Processing of Lipids Driven by Aqueous Photochemistry of α -Keto Acids. <i>ACS Central Science</i> , 2018, 4, 624-630.	5.3	32
91	Treatment of oilfield production wastewater by an integrated process. <i>Petroleum Science and Technology</i> , 2018, 36, 1007-1013.	0.7	1
92	Insights into the degradation of (CF ₃) ₂ CHOCH ₃ and its oxidative product (CF ₃) ₂ CHOCHO & the formation and catalytic degradation of organic nitrates. <i>Atmospheric Environment</i> , 2018, 183, 135-143.	1.9	13

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93	Effects of typical water components on the UV 254 photodegradation kinetics of haloacetic acids in water. <i>Separation and Purification Technology</i> , 2018, 200, 255-265.	3.9	18
94	Photocatalytic Hybrid Semiconductorâ€“Metal Nanoparticles; from Synergistic Properties to Emerging Applications. <i>Advanced Materials</i> , 2018, 30, e1706697.	11.1	111
95	Secondary battery inspired γ -nickel hydroxide as an efficient Ni-based heterogeneous catalyst for sulfate radical activation. <i>Science Bulletin</i> , 2018, 63, 278-281.	4.3	25
96	Falseâ€“positive result when a diphenylcarbazide spot test is used on trivalent chromiumâ€“passivated zinc surfaces. <i>Contact Dermatitis</i> , 2018, 78, 315-320.	0.8	4
97	Exquisite Enzyme-Fenton Biomimetic Catalysts for Hydroxyl Radical Production by Mimicking an Enzyme Cascade. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8666-8675.	4.0	24
98	Aquatic photochemistry of sulfamethazine: multivariate effects of main water constituents and mechanisms. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 513-522.	1.7	29
99	Atmospherically Relevant Radicals Derived from the Oxidation of Dimethyl Sulfide. <i>Accounts of Chemical Research</i> , 2018, 51, 475-483.	7.6	40
100	Photochemical transformation of dimethyl phthalate (DMP) with N(iii)(H ₂ ONO ⁺ /HONO/NO ₂ [•]) in the atmospheric aqueous environment. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 332-341.	1.6	8
101	Catalytic oxidation of trichloroethylene from gas streams by perovskite-type catalysts. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11584-11594.	2.7	21
102	Towards reliable quantification of hydroxyl radicals in the Fenton reaction using chemical probes. <i>RSC Advances</i> , 2018, 8, 5321-5330.	1.7	46
103	Electrochemical oxidizing digestion using PbO ₂ electrode for total phosphorus determination in a water sample. <i>RSC Advances</i> , 2018, 8, 6206-6211.	1.7	8
104	A metal-free visible light active photo-electro-Fenton-like cell for organic pollutants degradation. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 211-217.	10.8	58
105	Theoretical insight into reaction mechanisms of 2,4-dinitroanisole with hydroxyl radicals for advanced oxidation processes. <i>Journal of Molecular Modeling</i> , 2018, 24, 44.	0.8	14
106	Photolysis mechanism of sulfonamide moiety in five-membered sulfonamides: A DFT study. <i>Chemosphere</i> , 2018, 197, 569-575.	4.2	46
107	A cyclic signal amplification strategy to fluorescence and colorimetric dual-readout assay for the detection of H ₂ O ₂ -related analytes and application to colorimetric logic gate. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 908-917.	4.0	43
108	Interface Mechanisms of Catalytic Ozonation with Amorphous Iron Silicate for Removal of 4-Chloronitrobenzene in Aqueous Solution. <i>Environmental Science & Technology</i> , 2018, 52, 1429-1434.	4.6	56
109	pH-dependence of production of oxidants (Cu(III) and/or HO \cdot) by copper-catalyzed decomposition of hydrogen peroxide under conditions typical of natural saline waters. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 30-47.	1.6	41
110	Microwave-enhanced advanced oxidation processes for the degradation of dyes in water. <i>Environmental Chemistry Letters</i> , 2018, 16, 969-1007.	8.3	113

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111	Modelling the physical multiphase interactions of HNO ₃ and SO ₂ between snow and air on the Antarctic Plateau (Dome A) and coast (Halley). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1507-1534.	1.9	8
112	Ozone initiated inactivation of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> in water: Influence of selected organic solvents prevalent in wastewaters. <i>Chemosphere</i> , 2018, 206, 43-50.	4.2	14
113	Sugarcane juice mediated eco-friendly synthesis of visible light active zinc ferrite nanoparticles: Application to degradation of mixed dyes and antibacterial activities. <i>Materials Chemistry and Physics</i> , 2018, 212, 351-362.	2.0	84
114	Earthquake chemical precursors in groundwater: a review. <i>Journal of Seismology</i> , 2018, 22, 1293-1314.	0.6	33
115	Degradation of 4-aminoantipyrine by electro-oxidation with a boron-doped diamond anode: Optimization by central composite design, oxidation products and toxicity. <i>Science of the Total Environment</i> , 2018, 631-632, 1079-1088.	3.9	29
116	Instrument-Free and Autonomous Generation of H ₂ O ₂ from Mg@ZnO/Au Hybrids for Disinfection and Organic Pollutant Degradations. <i>Metals and Materials International</i> , 2018, 24, 657-663.	1.8	6
117	TiO ₂ -MgO mixed oxide nanomaterials for solar energy conversion. <i>Catalysis Today</i> , 2018, 300, 39-49.	2.2	16
118	Changes in the brain antioxidant profile after chronic vanadium administration in mice. <i>Metabolic Brain Disease</i> , 2018, 33, 377-385.	1.4	17
119	Effects of pulsed and continuous wave discharges of underwater plasma on <i>Escherichia coli</i> . <i>Separation and Purification Technology</i> , 2018, 193, 351-357.	3.9	31
120	Photochemical degradation of the carbapenem antibiotics imipenem and meropenem in aqueous solutions under solar radiation. <i>Water Research</i> , 2018, 128, 61-70.	5.3	39
121	Small-Molecule Fluorescent Probes for Imaging and Detection of Reactive Oxygen, Nitrogen, and Sulfur Species in Biological Systems. <i>Analytical Chemistry</i> , 2018, 90, 533-555.	3.2	412
122	Bio-Fenton and Bio-electro-Fenton as sustainable methods for degrading organic pollutants in wastewater. <i>Process Biochemistry</i> , 2018, 64, 237-247.	1.8	71
123	Priority pesticide dichlorvos removal from water by ozonation process: Reactivity, transformation products and associated toxicity. <i>Separation and Purification Technology</i> , 2018, 192, 123-129.	3.9	41
124	Simultaneous removal of benzene, toluene, ethylbenzene and xylene (BTEX) by CaO ₂ based Fenton system: Enhanced degradation by chelating agents. <i>Chemical Engineering Journal</i> , 2018, 331, 255-264.	6.6	97
125	Structures and thermochemistry of methyl ethyl sulfide and its hydroperoxides: HOOCH ₂ SCH ₂ CH ₃ , CH ₃ SCH(OOH)CH ₃ , CH ₃ SCH ₂ CH ₂ OOH, and radicals. <i>Journal of Physical Organic Chemistry</i> , 2018, 31, e3751.	0.9	4
126	Inactivation of a wild isolated <i>Klebsiella pneumoniae</i> by photo-chemical processes: UV-C, UV-C/H ₂ O ₂ and UV-C/H ₂ O ₂ /Fe ³⁺ . <i>Catalysis Today</i> , 2018, 313, 94-99.	2.2	22
127	Soybean peroxidase immobilized onto silica-coated superparamagnetic iron oxide nanoparticles: Effect of silica layer on the enzymatic activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 654-661.	2.5	34
128	An unprecedented route of OH radical reactivity evidenced by an electrocatalytic process: Ipso-substitution with perhalogenocarbon compounds. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 135-146.	10.8	83

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129	Alkenyl and Aryl Peroxides. Chemistry - A European Journal, 2018, 24, 4480-4496.	1.7	31
130	Antituberculosis drugs degradation by UV-based advanced oxidation processes. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 26-33.	2.0	39
131	Constructing magnetic catalysts with in-situ solid-liquid interfacial photo-Fenton-like reaction over Ag ₃ PO ₄ @NiFe ₂ O ₄ composites. Applied Catalysis B: Environmental, 2018, 225, 40-50.	10.8	175
132	Advanced Oxidation/Reduction Processes treatment for aqueous perfluorooctanoate (PFOA) and perfluorooctanesulfonate (PFOS) – A review of recent advances. Chemical Engineering Journal, 2018, 336, 170-199.	6.6	390
133	Low levels of iron enhance UV/H ₂ O ₂ efficiency at neutral pH. Water Research, 2018, 130, 234-242.	5.3	36
134	Synthesis, thermal behaviour and some properties of CuII complexes with N,O-donor Schiff bases. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1221-1236.	2.0	19
135	Dual-components modified TiO ₂ with Pt and fluoride as deactivation-resistant photocatalyst for the degradation of volatile organic compound. Applied Catalysis B: Environmental, 2018, 220, 1-8.	10.8	125
136	Oligomerization Reactions of Criegee Intermediates with Hydroxyalkyl Hydroperoxides: Mechanism, Kinetics, and Structure-Reactivity Relationship. Atmospheric Chemistry and Physics Discussions, 0, , 1-35.	1.0	3
137	A new source of ammonia and carboxylic acids in cloud water: The first evidence of photochemical process involving an iron-amino acid complex. Atmospheric Environment, 2018, 195, 179-186.	1.9	15
138	Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. Microbiology and Molecular Biology Reviews, 2018, 82, .	2.9	204
139	Reactivity of Hydroxyl Radical in Nonaqueous Phases: Addition Reactions. Journal of Physical Chemistry A, 2018, 122, 8326-8335.	1.1	5
140	Dual-Functional Photocatalytic and Photoelectrocatalytic Systems for Energy- and Resource-Recovering Water Treatment. ACS Catalysis, 2018, 8, 11542-11563.	5.5	138
141	Probing the Migration of Free Radicals in Solid and Liquid Media via Cr(VI) Reduction by High-Energy Electron Beam Irradiation. Scientific Reports, 2018, 8, 15196.	1.6	3
142	A New Graphitic Carbon Nitride/Horseradish Peroxidase Hybrid Nano-Bio Artificial Catalytic System for Unselective Degradation of Persistent Phenolic Pollutants. Advanced Materials Interfaces, 2018, 5, 1801297.	1.9	30
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