

# Dionysios D Dionysiou

## List of Publications by Year in descending order

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672  
papers

66,079  
citations

470

129  
h-index

1198

228  
g-index

691  
all docs

691  
docs citations

691  
times ranked

51791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on DeNO <sub>x</sub> of NaClO <sub>2</sub> in simulated seawater solution enhanced by hydrodynamic cavitation. Separation and Purification Technology, 2024, 330, 125190.	8.1	2
2	The efficient abatement of contaminants of emerging concern by LED-UV275nm/electrochemical chlorine for wastewater reuse: kinetics, degradation pathways, and cytotoxicity. Chemical Engineering Journal, 2024, 480, 148032.	13.0	0
3	Bimolecular versus Trimolecular Reaction Pathways for H <sub>2</sub> O <sub>2</sub> with Hypochlorous Species and Implications for Wastewater Reclamation. Environmental Science & Technology, 2024, 58, 847-858.	10.5	2
4	Monitoring the oxidative function of hydroxytyrosol and potential interactions with glutathione produced by human cells. Microchemical Journal, 2024, 197, 109863.	4.6	2
5	Applying microelectrodes to investigate aged ductile iron and copper coupon reactivity during free chlorine application. Water Research, 2024, 253, 121324.	11.4	1
6	Compact, high-flow, water-based, turbulent-mixing, condensation aerosol concentrator for collection of spot samples. Aerosol Science and Technology, 2024, 58, 889-901.	3.1	1
7	Engineered plastic-associated bacteria for biodegradation and bioremediation. , 2024, 1, .		0
8	A High-throughput, Turbulent-mixing, Condensation Aerosol Concentrator for Direct Aerosol Collection as a Liquid Suspension. Journal of Aerosol Science, 2024, , 106442.	3.9	0
9	Development of tungsten-modified iron oxides to decompose an over-the-counter painkiller, Acetaminophen by activating peroxymonosulfate. Science of the Total Environment, 2024, , 175472.	8.2	0
10	Highly efficient photocatalytic degradation over rose-like 1D/2D La(OH) <sub>3</sub> /(BiO) <sub>2</sub> OHCl heterostructures boosted by rich oxygen vacancies and enhanced interfacial charge transfer. Environmental Science: Nano, 2023, 10, 215-228.	4.2	9
11	Silkworm cocoon waste-derived nitrogen-doped hierarchical porous carbon as robust electrode materials for efficient capacitive desalination. Chemical Engineering Journal, 2023, 458, 141471.	13.0	26
12	NanoSpot <sup>TM</sup> collector for aerosol sample collection for direct microscopy and spectroscopy analysis. Aerosol Science and Technology, 2023, 57, 342-354.	3.1	5
13	Advanced Oxidation Processes for Removal of Emerging Contaminants in Water. Water (Switzerland), 2023, 15, 398.	2.8	14
14	UVA and goethite activated persulfate oxidation of landfill leachate. Chemical Engineering Journal Advances, 2023, 14, 100452.	5.3	5
15	Mechanistic and quantitative profiling of electro-Fenton process for wastewater treatment. Water Research, 2023, 235, 119838.	11.4	28
16	Advanced destruction technologies for PFAS in soils: Progress and challenges. Current Opinion in Environmental Science and Health, 2023, 33, 100459.	4.5	7
17	Ferrate(VI) mediated degradation of the potent cyanotoxin, cylindrospermopsin: Kinetics, products, and toxicity. Water Research, 2023, 233, 119773.	11.4	8
18	Overlooked Transformation of Nitrated Polycyclic Aromatic Hydrocarbons in Natural Waters: Role of Self-Photosensitization. Environmental Science & Technology, 2023, 57, 9832-9842.	10.5	11

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19	Metal sulfide-based Z-scheme heterojunctions in photocatalytic removal of contaminants, H <sub>2</sub> evolution and CO <sub>2</sub> reduction: Current status and future perspectives. <i>Journal of Cleaner Production</i> , 2023, 416, 137957.	9.5	50
20	Dissolved organic matter promotes photocatalytic degradation of refractory organic pollutants in water by forming hydrogen bonding with photocatalyst. <i>Water Research</i> , 2023, 242, 120297.	11.4	30
21	The role of reactive phosphate species in the abatement of micropollutants by activated peroxymonosulfate in the treatment of phosphate-rich wastewater. <i>Water Research</i> , 2023, 243, 120341.	11.4	14
22	A tutorial mini-review on nanoporous carbons from biosourced compounds: ordered hierarchical nanoarchitectures through benign methodologies. <i>RSC Sustainability</i> , 2023, 1, 1354-1368.	0.0	0
23	Peroxymonosulfate activation by Ni-Fe (hydr)oxides through radical and nonradical pathways for efficient trichloroethylene degradation. <i>Separation and Purification Technology</i> , 2023, 325, 124675.	8.1	11
24	Merits and Limitations of Radical vs. Nonradical Pathways in Persulfate-Based Advanced Oxidation Processes. <i>Environmental Science &amp; Technology</i> , 2023, 57, 12153-12179.	10.5	115
25	The overlooked carbonate radical in micropollutant degradation: An insight into hydration interaction. <i>Chemical Engineering Journal</i> , 2023, 474, 145245.	13.0	9
26	Catalytic activity and anti-passivation of single iron atoms and atomic clusters co-stabilized on carbonized waste polystyrene plastic. <i>Chemical Engineering Journal</i> , 2023, 474, 145488.	13.0	3
27	Implementation of laser flash photolysis for radical-induced reactions and environmental implications. <i>Water Research</i> , 2023, 244, 120526.	11.4	11
28	Biochar as a multifunctional agent for aqueous chromium removal: A critical review of governing mechanisms, targeted syntheses, influencing factors, and practical applications. <i>Chemical Engineering Journal</i> , 2023, 475, 146364.	13.0	4
29	Triplet chromophoric dissolved organic matter regulating the phototransformation and toxicity of imidacloprid in paddy water. <i>Chemical Engineering Journal</i> , 2023, 474, 145636.	13.0	4
30	Enhancement of bio-SO recovery and revealing the inhibitory effect on microorganisms under high sulfide loading. <i>Environmental Research</i> , 2023, 238, 117214.	7.7	2
31	Cross-national challenges and strategies for PFAS regulatory compliance in water infrastructure. <i>Nature Water</i> , 2023, 1, 1004-1015.	0.0	8
32	Internal electric field driving separation and migration of charge carriers via Z-scheme path in AgIn <sub>5</sub> S <sub>8</sub> /ZnO heterojunction for efficient decontamination of pharmaceutical pollutants. <i>Chemical Engineering Journal</i> , 2022, 428, 132096.	13.0	63
33	Double-dose responses of <i>Scenedesmus capricornus</i> microalgae exposed to humic acid. <i>Science of the Total Environment</i> , 2022, 806, 150547.	8.2	22
34	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.	13.0	7
35	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.	13.0	84
36	BDNF as a potential mediator between childhood BPA exposure and behavioral function in adolescent boys from the INMA-Granada cohort. <i>Science of the Total Environment</i> , 2022, 803, 150014.	8.2	25

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37	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.	13.0	3
38	Developing a meta-model for early-stage overheating risk assessment for new apartments in London. <i>Energy and Buildings</i> , 2022, 254, 111586.	6.8	8
39	Interplay of bicarbonate and the oxygen-containing groups of carbon nanotubes dominated the metal-free activation of peroxydisulfate. <i>Chemical Engineering Journal</i> , 2022, 430, 133102.	13.0	18
40	Microplastics separation and subsequent carbonization: Synthesis, characterization, and catalytic performance of iron/carbon nanocomposite. <i>Journal of Cleaner Production</i> , 2022, 330, 129901.	9.5	63
41	Self-Powered Water Flow-Triggered Piezocatalytic Generation of Reactive Oxygen Species for Water Purification in Simulated Water Drainage. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 101-109.	7.8	46
42	Low concentrations of 17 $\beta$ -estradiol exacerbate tamoxifen resistance in breast cancer treatment through membrane estrogen receptor $\alpha$ -mediated signaling pathways. <i>Environmental Toxicology</i> , 2022, 37, 514-526.	4.1	11
43	Opportunities for Treatment and Reuse of Agricultural Drainage in the United States. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 292-305.	7.8	13
44	Rheological investigation of polymer/clay dispersions as potential drilling fluids. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 110015.	4.3	10
45	New insight to superoxide radical-mediated degradation of pentachlorophenate: Kinetic determination and theoretical calculations. <i>Chemical Communications</i> , 2022, 58, 2666-2669.	4.2	10
46	Efficient synergism of K <sub>2</sub> FeO <sub>4</sub> preoxidation/ MIEX adsorption in ultrafiltration membrane fouling control and mechanisms. <i>Journal of Membrane Science</i> , 2022, 648, 120331.	8.3	6
47	Mineral Modulated Single Atom Catalyst for Effective Water Treatment. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	67
48	Three-dimensional image authentication with double random phase encryption in one capture. <i>Applied Optics</i> , 2022, 61, D92.	1.8	3
49	Nano-enhanced treatment of per-fluorinated and poly-fluorinated alkyl substances (PFAS). <i>Current Opinion in Chemical Engineering</i> , 2022, 35, 100779.	8.0	8
50	Making waves: Defining advanced reduction technologies from the perspective of water treatment. <i>Water Research</i> , 2022, 212, 118101.	11.4	19
51	Enhanced degradation of sulfamethoxazole by a modified nano zero-valent iron with a $\beta$ -cyclodextrin polymer: Mechanism and toxicity evaluation. <i>Science of the Total Environment</i> , 2022, 817, 152888.	8.2	31
52	Insight into enhanced Fenton-like degradation of antibiotics over CuFeO <sub>2</sub> based nanocomposite: To improve the utilization efficiency of OH/O <sub>2</sub> - via minimizing its migration distance. <i>Chemosphere</i> , 2022, 294, 133743.	8.4	9
53	Visible Light-Induced Catalyst-Free Activation of Peroxydisulfate: Pollutant-Dependent Production of Reactive Species. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2626-2636.	10.5	74
54	Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids. <i>Environmental Science &amp; Technology</i> , 2022, 56, 624-633.	10.5	63

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55	Response to Comment on "Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids". <i>Environmental Science &amp; Technology</i> , 2022, 56, 5289-5291.	10.5	2
56	Inactivation Rates for Airborne Human Coronavirus by Low Doses of 222 nm Far-UVC Radiation. <i>Viruses</i> , 2022, 14, 684.	3.4	17
57	Technology Baselines and Innovation Priorities for Securing Water Supply. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 271-272.	7.8	7
58	Overlooked Formation of $H_2O_2$ during the Hydroxyl Radical-Scavenging Process When Using Alcohols as Scavengers. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3386-3396.	10.5	117
59	Nonradical Activation of Peroxydisulfate with In Situ Generated Amorphous $MnO_2$ in an Electro-Permanganate Process: Involvement of Singlet Oxygen, Electron Transfer, and $Mn(III)$ . <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1316-1325.	7.8	20
60	Mechanistic Study of the Effects of Agricultural Amendments on Photochemical Processes in Paddy Water during Rice Growth. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4221-4230.	10.5	27
61	Peroxydisulfate 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.	8.1	81
62	Insight into the visible light activation of sulfite by Fe/g-C <sub>3</sub> N <sub>4</sub> 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.	13.0	37
63	Designing NAZO@BC electrodes for enhanced elimination of hydrophilic organic pollutants in heterogeneous electro-Fenton system: Insights into the detoxification mediated by $HO_2$ and $HO$ . <i>Journal of Hazardous Materials</i> , 2022, 431, 128598.	12.6	12
64	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.	13.0	12
65	Degradation of mineral-immobilized pyrene by ferrate oxidation: Role of mineral type and intermediate oxidative iron species. <i>Water Research</i> , 2022, 217, 118377.	11.4	23
66	Novel strategy for enhanced visible light-responsive photoactivity of ZnFe <sub>2</sub> O <sub>4</sub> with a single-mode microwave combustion process: Primary parameters. <i>Chemical Engineering Journal</i> , 2022, 440, 135551.	13.0	6
67	Transformation of phenol and nitrobenzene by superoxide radicals: Kinetics and mechanisms. <i>Chemical Engineering Journal</i> , 2022, 442, 136134.	13.0	35
68	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.	13.0	31
69	Reactive High-Valent Iron Intermediates in Enhancing Treatment of Water by Ferrate. <i>Environmental Science &amp; Technology</i> , 2022, 56, 30-47.	10.5	80
70	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.	11.4	15
71	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.	11.4	30
72	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.	8.1	53

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73	New Insight into a Fenton-like Reaction Mechanism over Sulfidated $\hat{I}^2$ -FeOOH: Key Role of Sulfidation in Efficient Iron(III) Reduction and Sulfate Radical Generation. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5542-5551.	10.5	43
74	Novel Photocatalysts for Environmental and Energy Applications. <i>Catalysts</i> , 2022, 12, 458.	3.6	10
75	Kinetics and mechanistic aspects of superoxide radical-mediated transformation of ascorbate. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107736.	6.9	8
76	Nanoscale Zero-Valent Iron Confined in Anion Exchange Resins to Enhance Selective Adsorption of Phosphate from Wastewater. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1454-1464.	7.8	18
77	Solar light induced photocatalytic activation of peroxymonosulfate by ultra-thin Ti <sup>3+</sup> self-doped Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanoflakes for the degradation of naphthalene. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121532.	20.7	67
78	Graphitic Carbon Nitride Platforms Modified with Gold-Aryl Nanoparticles for Efficient Electrocatalytic Hydrogen Evolution. <i>Comments on Inorganic Chemistry</i> , 2022, 42, 249-270.	5.9	2
79	Photocatalytic activation of peroxydisulfate by a new porous g-C <sub>3</sub> N <sub>4</sub> /reduced graphene oxide/TiO <sub>2</sub> nanobelts composite for efficient degradation of 17 $\beta$ -ethinylestradiol. <i>Chemical Engineering Journal</i> , 2022, 446, 137325.	13.0	23
80	Commemorative Issue in Honor of Professor Gerhard Ertl on the Occasion of His 85th Birthday. <i>Catalysts</i> , 2022, 12, 624.	3.6	1
81	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.	5.7	10
82	Reactivity of Reactive Nitrogen Species and Degradation Kinetics of Micropollutants in the UV/Monochloramine Process. <i>ACS ES&amp;T Water</i> , 2022, 2, 1422-1430.	4.8	8
83	Influencing factors and health risk assessment of polycyclic aromatic hydrocarbons in groundwater in China. <i>Journal of Hazardous Materials</i> , 2021, 402, 123419.	12.6	47
84	Nanogap dielectrophoresis combined with buffer exchange for detecting protein binding to trapped bioparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125829.	4.8	4
85	Graphene-modified graphite paper cathode for the efficient bioelectrochemical removal of chromium. <i>Chemical Engineering Journal</i> , 2021, 405, 126545.	13.0	19
86	Degradation of highly chlorinated pesticide, lindane, in water using UV/persulfate: kinetics and mechanism, toxicity evaluation, and synergism by H <sub>2</sub> O <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2021, 402, 123558.	12.6	56
87	Enhanced photocatalytic oxidizing ability of Zn <sub>1-x</sub> In <sub>2x</sub> /3S solid solution via band structure by composition regulation. <i>Separation and Purification Technology</i> , 2021, 255, 117726.	8.1	13
88	Heterogeneous Fenton catalysts: A review of recent advances. <i>Journal of Hazardous Materials</i> , 2021, 404, 124082.	12.6	475
89	Isotope ratio mass spectrometry and spectroscopic techniques for microplastics characterization. <i>Talanta</i> , 2021, 224, 121743.	5.7	37
90	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.	12.6	19

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91	Do membrane filtration systems in drinking water treatment plants release nano/microplastics?. <i>Science of the Total Environment</i> , 2021, 755, 142658.	8.2	70
92	Manganese doped iron-carbon composite for synergistic persulfate activation: Reactivity, stability, and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 405, 124228.	12.6	51
93	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.	11.4	65
94	Efficient degradation of clofibric acid by heterogeneous catalytic ozonation using CoFe <sub>2</sub> O <sub>4</sub> catalyst in water. <i>Journal of Hazardous Materials</i> , 2021, 410, 124604.	12.6	67
95	What is the role of light in persulfate-based advanced oxidation for water treatment?. <i>Water Research</i> , 2021, 189, 116627.	11.4	237
96	Fabrication of Bi <sub>1.81</sub> MnNbO <sub>6.72</sub> /sulfite system for efficient degradation of chlortetracycline. <i>Chemosphere</i> , 2021, 268, 129269.	8.4	15
97	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.	6.6	33
98	Modified humic acids mediate efficient mineralization in a photo-bio-electro-Fenton process. <i>Water Research</i> , 2021, 190, 116740.	11.4	38
99	Determination and Environmental Implications of Aqueous-Phase Rate Constants in Radical Reactions. <i>Water Research</i> , 2021, 190, 116746.	11.4	72
100	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.	12.6	35
101	Research on influencing factors of heat transfer enhancement fins in fuel cell cooling channel. <i>Ionics</i> , 2021, 27, 743-757.	2.5	11
102	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.	11.4	41
103	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.	8.3	33
104	Analyzing the green innovation practices based on sustainability performance indicators: a Chinese manufacturing industry case. <i>Environmental Science and Pollution Research</i> , 2021, 28, 1181-1203.	5.3	75
105	Ag-decorated 3D flower-like Bi <sub>2</sub> MoO <sub>6</sub> /rGO with boosted photocatalytic performance for removal of organic pollutants. <i>Rare Metals</i> , 2021, 40, 1086-1098.	7.2	55
106	Alternative synthesis of nitrogen and carbon co-doped TiO <sub>2</sub> for removing fluoroquinolone antibiotics in water under visible light. <i>Catalysis Today</i> , 2021, 361, 11-16.	4.9	30
107	Activation of inorganic peroxides with magnetic graphene for the removal of antibiotics from wastewater. <i>Environmental Science: Nano</i> , 2021, 8, 960-977.	4.2	35
108	Emerging investigator series: could the superoxide radical be implemented in decontamination processes?. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1966-1970.	2.2	10

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109	Influence of catalyst zeta potential on the activation of persulfate. <i>Chemical Communications</i> , 2021, 57, 7814-7817.	4.2	17
110	Formation of Nitrite and Hydrogen Peroxide in Water during the Vacuum Ultraviolet Irradiation Process: Impacts of pH, Dissolved Oxygen, and Nitrate Concentration. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1682-1689.	10.5	26
111	Effects of Experimental Conditions on the Signaling Fidelity of Impedance-Based Nucleic Acid Sensors. <i>Analytical Chemistry</i> , 2021, 93, 812-819.	6.8	18
112	Degradation of atrazine in the electrochemical LED-UV/Cl <sub>2</sub> system: the role of E <sup>•</sup> OH and Cl <sup>•</sup> . <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1630-1642.	2.2	1
113	Hydroxyl Radical-Involving <i>p</i> -Nitrophenol Oxidation during Its Reduction by Nanoscale Sulfidated Zerovalent Iron under Anaerobic Conditions. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2403-2410.	10.5	32
114	Tube-in-tube membrane photoreactor as a new technology to boost sulfate radical advanced oxidation processes. <i>Water Research</i> , 2021, 191, 116815.	11.4	27
115	Construction of TiO <sub>2</sub> @Bi <sub>2</sub> WO <sub>6</sub> hollow microspheres by template method for enhanced degradation of ethylene under visible light. <i>Optical Materials</i> , 2021, 113, 110839.	3.7	23
116	Simultaneous changes of exogenous dissolved organic matter treated by ozonation in properties and interaction behavior with sulfonamides. <i>Environmental Pollution</i> , 2021, 275, 116546.	7.7	10
117	Transport and Fate of Virus-Laden Particles in a Supermarket: Recommendations for Risk Reduction of COVID-19 Spreading. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	1.3	13
118	Mechanistic insight into superoxide radical-mediated degradation of carbon tetrachloride in aqueous solution: An in situ spectroscopic and computational study. <i>Chemical Engineering Journal</i> , 2021, 410, 128181.	13.0	53
119	Graphite as catalyst for UV-A LED assisted catalytic wet peroxide oxidation of ibuprofen and diclofenac. <i>Chemical Engineering Journal Advances</i> , 2021, 6, 100090.	5.3	13
120	Photogeneration of Reactive Species from Biochar-Derived Dissolved Black Carbon for the Degradation of Amine and Phenolic Pollutants. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8866-8876.	10.5	72
121	Silver Nanoparticle Interactions with Surfactant-Based Household Surface Cleaners. <i>Environmental Engineering Science</i> , 2021, 38, 481-488.	1.7	4
122	Production of polyhydroxyalkanoates from propylene oxide saponification wastewater residual sludge using volatile fatty acids and bacterial community succession. <i>Bioresource Technology</i> , 2021, 329, 124912.	9.7	20
123	A review of clay based photocatalysts: Role of phyllosilicate mineral in interfacial assembly, microstructure control and performance regulation. <i>Chemosphere</i> , 2021, 273, 129723.	8.4	64
124	In-situ mediation of graphitic carbon film-encapsulated tungsten carbide for enhancing hydrogen evolution performance and stability. <i>Electrochimica Acta</i> , 2021, 388, 138566.	5.4	3
125	Molybdenum disulfide nanosheets vertically grown on self-supported titanium dioxide/nitrogen-doped carbon nanofiber film for effective hydrogen peroxide decomposition and memory catalysis. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 384-395.	9.6	21
126	An N,S-Anchored Single-Atom Catalyst Derived from Domestic Waste for Environmental Remediation. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1460-1469.	7.8	47



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127	Removal of humic acid and Cr(VI) from water using ZnO@30N-zeolite. <i>Chemosphere</i> , 2021, 279, 130491.	8.4	13
128	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. <i>Chemical Engineering Journal</i> , 2021, 420, 129582.	13.0	141
129	Sensitive Electrochemical Detection of Microcystin-LR in Water Samples Via Target-Induced Displacement of Aptamer Associated [Ru(NH <sub>3</sub> ) <sub>6</sub> ] <sup>3+</sup> . <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1597-1605.	7.8	7
130	Photochemical characterization of paddy water during rice cultivation: Formation of reactive intermediates for As(III) oxidation. <i>Water Research</i> , 2021, 206, 117721.	11.4	45
131	Novel slow release ammonium persulfate capsules for in situ remediation of high arsenic groundwater. <i>Journal of Hydrology</i> , 2021, 600, 126571.	5.6	7
132	Roles of oxygen-containing functional groups of O-doped g-C <sub>3</sub> N <sub>4</sub> in catalytic ozonation: Quantitative relationship and first-principles investigation. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120155.	20.7	150
133	Editorial Overview: Emissions of Microplastics and Their Control in the Environment. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	1.3	12
134	Tailored BiVO <sub>4</sub> for enhanced visible-light photocatalytic performance. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106025.	6.9	27
135	Bi <sub>2</sub> WO <sub>6</sub> -TiO <sub>2</sub> /starch composite films with Ag nanoparticle irradiated by <sup>60</sup> Co-γ-ray used for the visible light photocatalytic degradation of ethylene. <i>Chemical Engineering Journal</i> , 2021, 421, 129986.	13.0	49
136	Selective spectrophotometric determination of peroxydisulfate based on a by-product formation. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130214.	8.0	6
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272	Simulated solar photo-assisted decomposition of peroxymonosulfate. Radiation filtering and operational variables influence on the oxidation of aqueous bezafibrate. <i>Water Research</i> , 2019, 162, 383-393.	11.4	22
273	Elimination of antibiotic resistance genes and control of horizontal transfer risk by UV-based treatment of drinking water: A mini review. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.1	70
274	2D Nanomaterials for Photocatalytic Hydrogen Production. <i>ACS Energy Letters</i> , 2019, 4, 1687-1709.	18.4	418
275	One-step reductive synthesis of Ti <sup>3+</sup> self-doped elongated anatase TiO <sub>2</sub> nanowires combined with reduced graphene oxide for adsorbing and degrading waste engine oil. <i>Journal of Hazardous Materials</i> , 2019, 378, 120752.	12.6	29
276	Electrophilicity index as a critical indicator for the biodegradation of the pharmaceuticals in aerobic activated sludge processes. <i>Water Research</i> , 2019, 160, 10-17.	11.4	92
277	Hydrogel as a miniature hydrogen production reactor to enhance photocatalytic hydrogen evolution activities of CdS and ZnS quantum dots derived from modified gel crystal growth method. <i>Chemical Engineering Journal</i> , 2019, 373, 814-820.	13.0	37
278	Cotransformation of Carbon Dots and Contaminant under Light in Aqueous Solutions: A Mechanistic Study. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6235-6244.	10.5	36
279	Exhaustive Photocatalytic Lindane Degradation by Combined Simulated Solar Light-Activated Nanocrystalline TiO <sub>2</sub> and Inorganic Oxidants. <i>Catalysts</i> , 2019, 9, 425.	3.6	26
280	Monodispersed CuFe <sub>2</sub> O <sub>4</sub> nanoparticles anchored on natural kaolinite as highly efficient peroxymonosulfate catalyst for bisphenol A degradation. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 206-217.	20.7	435
281	Unraveling different mechanisms of persulfate activation by graphite felt anode and cathode to destruct contaminants of emerging concern. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 140-148.	20.7	90
282	A Comprehensive Review: Development of Electrochemical Biosensors for Detection of Cyanotoxins in Freshwater. <i>ACS Sensors</i> , 2019, 4, 1151-1173.	8.1	98
283	Electrochemical activation of peroxymonosulfate with ACF cathode: Kinetics, influencing factors, mechanism, and application potential. <i>Water Research</i> , 2019, 159, 111-121.	11.4	228
284	Construction of novel Z-scheme Ag/ZnFe <sub>2</sub> O <sub>4</sub> /Ag/BiTa <sub>1-x</sub> V <sub>x</sub> O <sub>4</sub> system with enhanced electron transfer capacity for visible light photocatalytic degradation of sulfanilamide. <i>Journal of Hazardous Materials</i> , 2019, 375, 161-173.	12.6	48
285	Zinc oxide-coated zeolite adsorbs and inactivates waterborne <i>Staphylococcus aureus</i> . <i>Chemosphere</i> , 2019, 229, 1-7.	8.4	7
286	Polymeric ultrafiltration membrane with in situ formed nano-silver within the inner pores for simultaneous separation and catalysis. <i>Journal of Membrane Science</i> , 2019, 579, 190-198.	8.3	94
287	Highly efficient Sr/Ce/activated carbon bimetallic nanocomposite for photoinduced degradation of rhodamine B. <i>Catalysis Today</i> , 2019, 335, 437-451.	4.9	169
288	<i>In situ</i> remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019, 6, 1283-1302.	4.2	73

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290	Intermittent light and microbial action of mixed endogenous source DOM affects degradation of 17 $\beta$ -estradiol day after day in a relatively deep natural anaerobic aqueous environment. <i>Journal of Hazardous Materials</i> , 2019, 369, 40-49.	12.6	14
291	Rapid and versatile pre-treatment for quantification of multi-walled carbon nanotubes in the environment using microwave-induced heating. <i>Environmental Science and Pollution Research</i> , 2019, 26, 13999-14012.	5.3	0
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301	An innovative nutritional slow-release packing material with functional microorganisms for biofiltration: Characterization and performance evaluation. <i>Journal of Hazardous Materials</i> , 2019, 366, 16-26.	12.6	27
302	RR2 dye adsorption to <i>Hymenaea courbaril</i> L. bark activated carbon associated with biofilm. <i>Environmental Science and Pollution Research</i> , 2019, 26, 28524-28532.	5.3	9
303	A specific synbiotic-containing amino acid-based formula in dietary management of cow's milk allergy: a randomized controlled trial. <i>Clinical and Translational Allergy</i> , 2019, 9, 5.	3.3	34
304	Improving dewaterability and filterability of waste activated sludge by electrochemical Fenton pretreatment. <i>Chemical Engineering Journal</i> , 2019, 362, 525-536.	13.0	93
305	Protection Mechanisms of Periphytic Biofilm to Photocatalytic Nanoparticle Exposure. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1585-1594.	10.5	59
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313	Electrochemical treatment of bio-treated landfill leachate: Influence of electrode arrangement, potential, and characteristics. <i>Chemical Engineering Journal</i> , 2018, 344, 34-41.	13.0	39
314	Removal of carbamazepine in water by electro-activated carbon fiber-peroxydisulfate: Comparison, optimization, recycle, and mechanism study. <i>Chemical Engineering Journal</i> , 2018, 343, 28-36.	13.0	126
315	Kinetic and mechanistic aspects of hydroxyl radical-mediated degradation of naproxen and reaction intermediates. <i>Water Research</i> , 2018, 137, 233-241.	11.4	173
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319	Sorption and biodegradation of pharmaceuticals in aerobic activated sludge system: A combined experimental and theoretical mechanistic study. <i>Chemical Engineering Journal</i> , 2018, 342, 211-219.	13.0	91
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321	Nanomedicine: An effective tool in cancer therapy. <i>International Journal of Pharmaceutics</i> , 2018, 540, 132-149.	5.4	175
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326	Solvothermal synthesis of P25/Bi <sub>2</sub> WO <sub>6</sub> nanocomposite photocatalyst and photocatalytic degradation of ethylene under visible light. <i>Applied Surface Science</i> , 2018, 439, 815-822.	6.3	36
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334	Visible-light-responsive graphene-functionalized Bi-bridge Z-scheme black BiOCl/Bi <sub>2</sub> O <sub>3</sub> heterojunction with oxygen vacancy and multiple charge transfer channels for efficient photocatalytic degradation of 2-nitrophenol and industrial wastewater treatment. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 61-69.	20.7	206
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338	Dynamic Recrystallization Behavior of Zr-1Sn-0.3Nb Alloy During Hot Rolling Process. <i>Jom</i> , 2018, 70, 1106-1111.	2.2	2
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340	Quantitative structure-activity relationships for reactivities of sulfate and hydroxyl radicals with aromatic contaminants through single-electron transfer pathway. <i>Journal of Hazardous Materials</i> , 2018, 344, 1165-1173.	12.6	112
341	Highly efficient visible-light photocatalytic performance of Ag/AgIn <sub>5</sub> S <sub>8</sub> for degradation of tetracycline hydrochloride and treatment of real pharmaceutical industry wastewater. <i>Chemical Engineering Journal</i> , 2018, 333, 423-433.	13.0	278
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344	UV direct photolysis of sulfamethoxazole and ibuprofen: An experimental and modelling study. <i>Journal of Hazardous Materials</i> , 2018, 343, 132-139.	12.6	121
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349	Insight into carbamazepine degradation by UV/monochloramine: Reaction mechanism, oxidation products, and DBPs formation. <i>Water Research</i> , 2018, 146, 288-297.	11.4	124
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399	Photogeneration of reactive oxygen species from biochar suspension for diethyl phthalate degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 34-45.	20.7	268
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401	Degradation kinetics and mechanism of desethyl-atrazine and desisopropyl-atrazine in water with OH and SO <sub>4</sub> <sup>2-</sup> based-AOPs. <i>Chemical Engineering Journal</i> , 2017, 325, 485-494.	13.0	104
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