

Pedro Alvarez

List of Publications by Year in descending order

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Version: 2024-02-01

370
papers

41,284
citations

2675

95
h-index

2747

192
g-index

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all docs

378
docs citations

378
times ranked

37346
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent free radicals in biochar enhance superoxide-mediated Fe(III)/Fe(II) cycling and the efficacy of CaO ₂ Fenton-like treatment. <i>Journal of Hazardous Materials</i> , 2022, 421, 126805.	12.4	64
2	pH-dependent contribution of chlorine monoxide radicals and byproducts formation during UV/chlorine treatment on clothianidin. <i>Chemical Engineering Journal</i> , 2022, 428, 132444.	12.7	17
3	UV-aging of microplastics increases proximal ARG donor-recipient adsorption and leaching of chemicals that synergistically enhance antibiotic resistance propagation. <i>Journal of Hazardous Materials</i> , 2022, 427, 127895.	12.4	49
4	Renaissance for Phage-Based Bacterial Control. <i>Environmental Science & Technology</i> , 2022, 56, 4691-4701.	10.0	15
5	Bacterial Concentrations and Water Turbulence Influence the Importance of Conjugation Versus Phage-Mediated Antibiotic Resistance Gene Transfer in Suspended Growth Systems. <i>ACS Environmental Au</i> , 2022, 2, 156-165.	7.0	12
6	Phthalate Esters Released from Plastics Promote Biofilm Formation and Chlorine Resistance. <i>Environmental Science & Technology</i> , 2022, 56, 1081-1090.	10.0	31
7	Comment on "Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids". <i>Environmental Science & Technology</i> , 2022, 56, 5287-5288.	10.0	3
8	Which Micropollutants in Water Environments Deserve More Attention Globally?. <i>Environmental Science & Technology</i> , 2022, 56, 13-29.	10.0	176
9	A Polysulfone/Cobalt Metal-Organic Framework Nanocomposite Membrane with Enhanced Water Permeability and Fouling Resistance. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3532-3542.	4.4	4
10	Cobalt-Copper Nanoparticles on Three-Dimensional Substrate for Efficient Ammonia Synthesis via Electrocatalytic Nitrate Reduction. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6982-6989.	3.1	18
11	Current Methods and Prospects for Analysis and Characterization of Nanomaterials in the Environment. <i>Environmental Science & Technology</i> , 2022, 56, 7426-7447.	10.0	19
12	Ultrahigh Peroxymonosulfate Utilization Efficiency over CuO Nanosheets via Heterogeneous Cu(III) Formation and Preferential Electron Transfer during Degradation of Phenols. <i>Environmental Science & Technology</i> , 2022, 56, 8984-8992.	10.0	95
13	Integrating Environmental Dimensions of "One Health" to Combat Antimicrobial Resistance: Essential Research Needs. <i>Environmental Science & Technology</i> , 2022, 56, 14871-14874.	10.0	16
14	Characteristics of Wild Bird Resistomes and Dissemination of Antibiotic Resistance Genes in Interconnected Bird-Habitat Systems Revealed by Similarity of <i>bla</i> TEM Polymorphic Sequences. <i>Environmental Science & Technology</i> , 2022, 56, 15084-15095.	10.0	18
15	Clays play a catalytic role in pyrolytic treatment of crude-oil contaminated soils that is enhanced by ion-exchanged transition metals. <i>Journal of Hazardous Materials</i> , 2022, 437, 129295.	12.4	7
16	Titanium oxide improves boron nitride photocatalytic degradation of perfluorooctanoic acid. <i>Chemical Engineering Journal</i> , 2022, 448, 137735.	12.7	35
17	Technology assessment of solar disinfection for drinking water treatment. <i>Nature Sustainability</i> , 2022, 5, 801-808.	23.7	30
18	Visible-Light Activation of a Dissolved Organic Matter-TiO ₂ Complex Mediated <i>via</i> Ligand-to-Metal Charge Transfer. <i>Environmental Science & Technology</i> , 2022, 56, 10829-10837.	10.0	17

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19	How to Accurately Assess the Intrinsic Activity of Catalysts in Peroxy Activation?. <i>Environmental Science & Technology</i> , 2022, 56, 10557-10559.	10.0	5
20	Directional Oxidation of Amine-Containing Phenolic Pharmaceuticals by Aqueous Dissolved Oxygen under Dark Conditions Catalyzed by Nitrogen-Doped Multiwall Carbon Nanotubes. <i>ACS ES&T Water</i> , 2021, 1, 79-88.	4.6	5
21	Simple preparation method for Styrofoamâ€™TiO ₂ composites and their photocatalytic application for dye oxidation and Cr(VI) reduction in industrial wastewater. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 222-230.	2.4	9
22	Uncover the secret of granule calcification and deactivation in up-flow anaerobic sludge bed (UASB) reactor with long-term exposure to high calcium. <i>Water Research</i> , 2021, 189, 116586.	11.3	29
23	Solar photoelectrochemical synthesis of electrolyte-free H ₂ O ₂ aqueous solution without needing electrical bias and H ₂ . <i>Energy and Environmental Science</i> , 2021, 14, 3110-3119.	30.8	37
24	Microbial methylation potential of mercury sulfide particles dictated by surface structure. <i>Nature Geoscience</i> , 2021, 14, 409-416.	12.9	36
25	Combinatorial Analysis of Sparse Experiments on Photocatalytic Performance of Cement Composites: A Route toward Optimizing Multifunctional Materials for Water Purification. <i>Langmuir</i> , 2021, 37, 5699-5706.	3.5	1
26	Efficient Reduction of Selenite to Elemental Selenium by Liquid-Phase Catalytic Hydrogenation Using a Highly Stable Multiwalled Carbon Nanotube-Supported Pt Catalyst Coated by N-Doped Carbon. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29541-29550.	8.0	14
27	U.S.â€™China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science & Technology</i> , 2021, 55, 9622-9626.	10.0	10
28	Enhanced mutualistic symbiosis between soil phages and bacteria with elevated chromium-induced environmental stress. <i>Microbiome</i> , 2021, 9, 150.	11.1	67
29	Spin-State-Dependent Peroxymonosulfate Activation of Single-Atom N Moieties via a Radical-Free Pathway. <i>ACS Catalysis</i> , 2021, 11, 9569-9577.	11.2	192
30	Aminoglycosides Antagonize Bacteriophage Proliferation, Attenuating Phage Suppression of Bacterial Growth, Biofilm Formation, and Antibiotic Resistance. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0046821.	3.1	28
31	Integrating Thermal Analysis and Reaction Modeling for Rational Design of Pyrolytic Processes to Remediate Soils Contaminated with Heavy Crude Oil. <i>Environmental Science & Technology</i> , 2021, 55, 11987-11996.	10.0	6
32	Utilizing the broad electromagnetic spectrum and unique nanoscale properties for chemical-free water treatment. <i>Current Opinion in Chemical Engineering</i> , 2021, 33, 100709.	7.8	3
33	Rapid Metabolism of 1,4-Dioxane to below Health Advisory Levels by Thiamine-Amended <i>Rhodococcus ruber</i> Strain 219. <i>Environmental Science and Technology Letters</i> , 2021, 8, 975-980.	8.7	11
34	High Concentration Organic Wastewater with High Phosphorus Treatment by Facultative MBR. <i>Water (Switzerland)</i> , 2021, 13, 2902.	2.7	1
35	Microbial diversity analysis of two full-scale seawater desalination treatment trains provides insights into detrimental biofilm formation. , 2021, 1, 100001.		6
36	Treatment of aqueous solutions of 1,4-dioxane by ozonation and catalytic ozonation with copper oxide (CuO). <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1464-1476.	2.2	11

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37	Mechanistic inference on the reaction kinetics of phenols and anilines in carbon nanotubes-activated peroxydisulfate systems: pp-LFERs and QSARs analyses. <i>Chemical Engineering Journal</i> , 2020, 385, 123923.	12.7	48
38	Ammonium Enhances Food Waste Fermentation to High-Value Optically Active L-Lactic acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 669-677.	6.7	31
39	High levels of antibiotic resistance genes and opportunistic pathogenic bacteria indicators in urban wild bird feces. <i>Environmental Pollution</i> , 2020, 266, 115200.	7.5	23
40	Discerning the Relevance of Superoxide in PFOA Degradation. <i>Environmental Science and Technology Letters</i> , 2020, 7, 653-658.	8.7	36
41	Photocatalytic degradation of neonicotinoid insecticides using sulfate-doped Ag ₃ PO ₄ with enhanced visible light activity. <i>Chemical Engineering Journal</i> , 2020, 402, 126183.	12.7	70
42	Hormetic Promotion of Biofilm Growth by Polyvalent Bacteriophages at Low Concentrations. <i>Environmental Science & Technology</i> , 2020, 54, 12358-12365.	10.0	37
43	Why Was My Paper Rejected without Review?. <i>Environmental Science & Technology</i> , 2020, 54, 11641-11644.	10.0	10
44	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	23.7	195
45	Beta-lactam-Induced Outer Membrane Alteration Confers <i>E. coli</i> a Fortuitous Competitive Advantage through Cross-Resistance to Bacteriophages. <i>Environmental Science and Technology Letters</i> , 2020, 7, 428-433.	8.7	5
46	Enhanced long-term attenuation of 1,4-dioxane in bioaugmented flow-through aquifer columns. <i>Biodegradation</i> , 2020, 31, 201-211.	3.0	7
47	Targeting specific cell organelles with different-faceted nanocrystals that are selectively recognized by organelle-targeting peptides. <i>Chemical Communications</i> , 2020, 56, 7613-7616.	4.1	6
48	Probing extracellular reduction mechanisms of <i>Bacillus subtilis</i> and <i>Escherichia coli</i> with nitroaromatic compounds. <i>Science of the Total Environment</i> , 2020, 724, 138291.	8.0	16
49	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. <i>Environmental Science: Nano</i> , 2020, 7, 2178-2194.	4.3	74
50	2D N-Doped Porous Carbon Derived from Polydopamine-Coated Graphitic Carbon Nitride for Efficient Nonradical Activation of Peroxymonosulfate. <i>Environmental Science & Technology</i> , 2020, 54, 8473-8481.	10.0	316
51	Selective Adsorption and Photocatalytic Degradation of Extracellular Antibiotic Resistance Genes by Molecularly-Imprinted Graphitic Carbon Nitride. <i>Environmental Science & Technology</i> , 2020, 54, 4621-4630.	10.0	80
52	Synthesis of citrate-modified CuFeS ₂ catalyst with significant effect on the photo-Fenton degradation efficiency of bisphenol a under visible light and near-neutral pH. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 595, 124679.	4.7	26
53	Nanocrystal facet modulation to enhance transferrin binding and cellular delivery. <i>Nature Communications</i> , 2020, 11, 1262.	12.8	33
54	Hierarchical Bi ₂ O ₂ CO ₃ wrapped with modified graphene oxide for adsorption-enhanced photocatalytic inactivation of antibiotic resistant bacteria and resistance genes. <i>Water Research</i> , 2020, 184, 116157.	11.3	50

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55	Bioaugmenting the poplar rhizosphere to enhance treatment of 1,4-dioxane. <i>Science of the Total Environment</i> , 2020, 744, 140823.	8.0	17
56	TiO ₂ microspheres with cross-linked cyclodextrin coating exhibit improved stability and sustained photocatalytic degradation of bisphenol A in secondary effluent. <i>Water Research</i> , 2020, 183, 116095.	11.3	35
57	Antibiotic resistance genes from livestock waste: occurrence, dissemination, and treatment. <i>Npj Clean Water</i> , 2020, 3, .	8.0	242
58	Fit-for-purpose treatment goals for produced waters in shale oil and gas fields. <i>Water Research</i> , 2020, 173, 115467.	11.3	71
59	Ionic Liquid Enriches the Antibiotic Resistome, Especially Efflux Pump Genes, Before Significantly Affecting Microbial Community Structure. <i>Environmental Science & Technology</i> , 2020, 54, 4305-4315.	10.0	21
60	Discerning the inefficacy of hydroxyl radicals during perfluorooctanoic acid degradation. <i>Chemosphere</i> , 2020, 247, 125883.	8.2	68
61	The importance of system configuration for distributed direct potable water reuse. <i>Nature Sustainability</i> , 2020, 3, 548-555.	23.7	38
62	Differential histological, cellular and organism-wide response of earthworms exposed to multi-layer graphenes with different morphologies and hydrophobicity. <i>Environmental Pollution</i> , 2020, 263, 114468.	7.5	10
63	Role of Extracellular Polymeric Substances in Microbial Reduction of Arsenate to Arsenite by <i>Escherichia coli</i> and <i>Bacillus subtilis</i> . <i>Environmental Science & Technology</i> , 2020, 54, 6185-6193.	10.0	48
64	Engineering of CoSe ₂ Nanosheets via Vacancy Manipulation for Efficient Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 7800-7809.	4.6	4
65	Cooperative Pollutant Adsorption and Persulfate-Driven Oxidation on Hierarchically Ordered Porous Carbon. <i>Environmental Science & Technology</i> , 2019, 53, 10352-10360.	10.0	127
66	Redistribution of intracellular and extracellular free & adsorbed antibiotic resistance genes through a wastewater treatment plant by an enhanced extracellular DNA extraction method with magnetic beads. <i>Environment International</i> , 2019, 131, 104986.	10.0	95
67	Specific ion effects on the aggregation behavior of aquatic natural organic matter. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 734-742.	9.4	25
68	Bacteriophages from Arsenic-Resistant Bacteria Transduced Resistance Genes, which Changed Arsenic Speciation and Increased Soil Toxicity. <i>Environmental Science and Technology Letters</i> , 2019, 6, 675-680.	8.7	25
69	Bottom-up biofilm eradication using bacteriophage-loaded magnetic nanocomposites: a computational and experimental study. <i>Environmental Science: Nano</i> , 2019, 6, 3539-3550.	4.3	19
70	Photolysis of graphene oxide in the presence of nitrate: implications for graphene oxide integrity in water and wastewater treatment. <i>Environmental Science: Nano</i> , 2019, 6, 136-145.	4.3	11
71	Pilot-Scale Pyrolytic Remediation of Crude-Oil-Contaminated Soil in a Continuously-Fed Reactor: Treatment Intensity Trade-Offs. <i>Environmental Science & Technology</i> , 2019, 53, 2045-2053.	10.0	43
72	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	13.3	491

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73	<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.	4.3	65
74	Going Viral: Emerging Opportunities for Phage-Based Bacterial Control in Water Treatment and Reuse. <i>Accounts of Chemical Research</i> , 2019, 52, 849-857.	15.6	61
75	Hazardous waste dewatering and dry mass reduction through hydrophobic modification by a facile one-pot, alkali-assisted hydrothermal reaction. <i>Water Research</i> , 2019, 155, 225-232.	11.3	24
76	Distributed lump kinetic modeling for slurry phase vacuum residue hydroconversion. <i>Chemical Engineering Journal</i> , 2019, 377, 119811.	12.7	14
77	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. <i>Environmental Science & Technology</i> , 2019, 53, 2937-2947.	10.0	493
78	Quantifying hydrophobicity of natural organic matter using partition coefficients in aqueous two-phase systems. <i>Chemosphere</i> , 2019, 218, 922-929.	8.2	22
79	Threshold Concentrations of Silver Ions Exist for the Sunlight-Induced Formation of Silver Nanoparticles in the Presence of Natural Organic Matter. <i>Environmental Science & Technology</i> , 2018, 52, 4040-4050.	10.0	26
80	Detection and cell sorting of <i>Pseudonocardia</i> species by fluorescence in situ hybridization and flow cytometry using 16S rRNA-targeted oligonucleotide probes. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3375-3386.	3.6	19
81	Pyrolytic Remediation of Oil-Contaminated Soils: Reaction Mechanisms, Soil Changes, and Implications for Treated Soil Fertility. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3489-3500.	3.7	50
82	Gradient reduced aeration in an enhanced aerobic granular sludge process optimizes the dominant microbial community and its function. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 680-688.	2.4	8
83	Nanomaterials in the environment: Behavior, fate, bioavailability, and effects—An updated review. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2029-2063.	4.3	429
84	Oxidized template-synthesized mesoporous carbon with pH-dependent adsorption activity: A promising adsorbent for removal of hydrophilic ionic liquid. <i>Applied Surface Science</i> , 2018, 440, 821-829.	6.1	13
85	Development of an analytical method for pesticide residues in berries with dispersive solid phase extraction using multiwalled carbon nanotubes and primary secondary amine sorbents. <i>Analytical Methods</i> , 2018, 10, 757-766.	2.7	16
86	Quantitative structure–activity relationship for the oxidation of aromatic organic contaminants in water by TAML/H ₂ O ₂ . <i>Water Research</i> , 2018, 140, 354-363.	11.3	69
87	Improving Photocatalytic Water Treatment through Nanocrystal Engineering: Mesoporous Nanosheet-Assembled 3D BiOCl Hierarchical Nanostructures That Induce Unprecedented Large Vacancies. <i>Environmental Science & Technology</i> , 2018, 52, 6872-6880.	10.0	63
88	Porous Electrospun Fibers Embedding TiO ₂ for Adsorption and Photocatalytic Degradation of Water Pollutants. <i>Environmental Science & Technology</i> , 2018, 52, 4285-4293.	10.0	286
89	Associating potential 1,4-dioxane biodegradation activity with groundwater geochemical parameters at four different contaminated sites. <i>Journal of Environmental Management</i> , 2018, 206, 60-64.	7.8	8
90	Phosphorous recovery from sewage sludge using calcium silicate hydrates. <i>Chemosphere</i> , 2018, 193, 1087-1093.	8.2	77

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91	Bacterial exposure to ZnO nanoparticles facilitates horizontal transfer of antibiotic resistance genes. <i>NanoImpact</i> , 2018, 10, 61-67.	4.5	117
92	Effect of bamboo charcoal amendment on an AnMBR in the aspect of anaerobic habitat and membrane fouling. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 2058-2069.	2.4	4
93	CeO ₂ /TiO ₂ nanostructures enhance adsorption and photocatalytic degradation of organic compounds in aqueous suspension. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 325-336.	3.9	70
94	Easily Recoverable, Micrometer-Sized TiO ₂ Hierarchical Spheres Decorated with Cyclodextrin for Enhanced Photocatalytic Degradation of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2018, 52, 12402-12411.	10.0	71
95	Self-Damaging Aerobic Reduction of Graphene Oxide by <i>Escherichia coli</i> : Role of GO-Mediated Extracellular Superoxide Formation. <i>Environmental Science & Technology</i> , 2018, 52, 12783-12791.	10.0	35
96	Efficient removal of bisphenol-A by ultra-high surface area porous activated carbon derived from asphalt. <i>Carbon</i> , 2018, 140, 441-448.	10.3	67
97	An Environmental Science and Engineering Framework for Combating Antimicrobial Resistance. <i>Environmental Engineering Science</i> , 2018, 35, 1005-1011.	1.6	47
98	Emerging opportunities for nanotechnology to enhance water security. <i>Nature Nanotechnology</i> , 2018, 13, 634-641.	31.5	627
99	Elevated Levels of Pathogenic Indicator Bacteria and Antibiotic Resistance Genes after Hurricane Harvey's Flooding in Houston. <i>Environmental Science and Technology Letters</i> , 2018, 5, 481-486.	8.7	65
100	Carbon nanomaterials differentially impact mineralization kinetics of phenanthrene and indigenous microbial communities in a natural soil. <i>NanoImpact</i> , 2018, 11, 146-155.	4.5	10
101	Bacterial Endospores as Phage Genome Carriers and Protective Shells. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	17
102	Dissolved Mineral Ash Generated by Vegetation Fire Is Photoactive under the Solar Spectrum. <i>Environmental Science & Technology</i> , 2018, 52, 10453-10461.	10.0	29
103	1,4-Dioxane-degrading consortia can be enriched from uncontaminated soils: prevalence of <i>Mycobacterium</i> and soluble iron monooxygenase genes. <i>Microbial Biotechnology</i> , 2018, 11, 189-198.	4.2	43
104	Extracellular Saccharide-Mediated Reduction of Au ³⁺ to Gold Nanoparticles: New Insights for Heavy Metals Biomineralization on Microbial Surfaces. <i>Environmental Science & Technology</i> , 2017, 51, 2776-2785.	10.0	159
105	Control of Antibiotic-Resistant Bacteria in Activated Sludge Using Polyvalent Phages in Conjunction with a Production Host. <i>Environmental Science and Technology Letters</i> , 2017, 4, 137-142.	8.7	43
106	Suppression of Enteric Bacteria by Bacteriophages: Importance of Phage Polyvalence in the Presence of Soil Bacteria. <i>Environmental Science & Technology</i> , 2017, 51, 5270-5278.	10.0	42
107	Sunlight Promotes Fast Release of Hazardous Cadmium from Widely-Used Commercial Cadmium Pigment. <i>Environmental Science & Technology</i> , 2017, 51, 6877-6886.	10.0	39
108	Hindrance of 1,4-dioxane biodegradation in microcosms biostimulated with inducing or non-inducing auxiliary substrates. <i>Water Research</i> , 2017, 112, 217-225.	11.3	37

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109	Arsenic(V) removal using an amine-doped acrylic ion exchange fiber: Kinetic, equilibrium, and regeneration studies. <i>Journal of Hazardous Materials</i> , 2017, 325, 223-229.	12.4	159
110	Phosphate Changes Effect of Humic Acids on TiO ₂ Photocatalysis: From Inhibition to Mitigation of Electron-Hole Recombination. <i>Environmental Science & Technology</i> , 2017, 51, 514-521.	10.0	102
111	Toward a Comprehensive Strategy to Mitigate Dissemination of Environmental Sources of Antibiotic Resistance. <i>Environmental Science & Technology</i> , 2017, 51, 13061-13069.	10.0	236
112	1,4-Dioxane Biodegradation by <i>Mycobacterium dioxanotrophicus</i> PH-06 Is Associated with a Group-6 Soluble Di-Iron Monooxygenase. <i>Environmental Science and Technology Letters</i> , 2017, 4, 494-499.	8.7	45
113	Sodium rhodizonate induced formation of gold nanoparticles supported on cellulose fibers for catalytic reduction of 4-nitrophenol and organic dyes. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4185-4193.	6.7	54
114	Selective Degradation of Organic Pollutants Using an Efficient Metal-Free Catalyst Derived from Carbonized Polypyrrole via Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2017, 51, 11288-11296.	10.0	514
115	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. <i>Environmental Science & Technology</i> , 2017, 51, 10274-10281.	10.0	129
116	Merits and limitations of TiO ₂ -based photocatalytic pretreatment of soils impacted by crude oil for expediting bioremediation. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 387-394.	4.4	19
117	Enhanced biofilm penetration for microbial control by polyvalent phages conjugated with magnetic colloidal nanoparticle clusters (CNCs). <i>Environmental Science: Nano</i> , 2017, 4, 1817-1826.	4.3	43
118	Evolution and functional analysis of extracellular polymeric substances during the granulation of aerobic sludge used to treat p-chloroaniline wastewater. <i>Chemical Engineering Journal</i> , 2017, 330, 596-604.	12.7	101
119	2-Hydroxypropyl-beta-cyclodextrin (HP β CD) reduces age-related lipofuscin accumulation through a cholesterol-associated pathway. <i>Scientific Reports</i> , 2017, 7, 2197.	3.3	10
120	Whole-Genome Sequence of the 1,4-Dioxane-Degrading Bacterium <i>Mycobacterium dioxanotrophicus</i> PH-06. <i>Genome Announcements</i> , 2017, 5, .	0.8	19
121	Aggregation Behavior of Dissolved Black Carbon: Implications for Vertical Mass Flux and Fractionation in Aquatic Systems. <i>Environmental Science & Technology</i> , 2017, 51, 13723-13732.	10.0	95
122	Graphene oxide significantly inhibits cell growth at sublethal concentrations by causing extracellular iron deficiency. <i>Nanotoxicology</i> , 2017, 11, 1102-1114.	3.0	22
123	Microbial fuel cell fed by Barnett Shale produced water: Power production by hypersaline autochthonous bacteria and coupling to a desalination unit. <i>Biochemical Engineering Journal</i> , 2017, 117, 87-91.	3.6	53
124	The oxidation capacity of Mn ₃ O ₄ nanoparticles is significantly enhanced by anchoring them onto reduced graphene oxide to facilitate regeneration of surface-associated Mn(III). <i>Water Research</i> , 2016, 103, 101-108.	11.3	21
125	Thermal Treatment of Hydrocarbon-Impacted Soils: A Review of Technology Innovation for Sustainable Remediation. <i>Engineering</i> , 2016, 2, 426-437.	6.7	188
126	Biogenic versus Thermogenic H ₂ S Source Determination in Bakken Wells: Considerations for Biocide Application. <i>Environmental Science and Technology Letters</i> , 2016, 3, 127-132.	8.7	13

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127	Environmental Factors Associated With Natural Methane Occurrence in the Appalachian Basin. Ground Water, 2016, 54, 656-668.	1.3	47
128	Optimizing granules size distribution for aerobic granular sludge stability: Effect of a novel funnel-shaped internals on hydraulic shear stress. Bioresource Technology, 2016, 216, 562-570.	9.6	54
129	Biodiesel presence in the source zone hinders aromatic hydrocarbons attenuation in a B20-contaminated groundwater. Journal of Contaminant Hydrology, 2016, 193, 48-53.	3.3	10
130	Visible Light Sensitized Production of Hydroxyl Radicals Using Fullerol as an Electron-Transfer Mediator. Environmental Science & Technology, 2016, 50, 10545-10553.	10.0	37
131	Fate of TiO ₂ nanoparticles entering sewage treatment plants and bioaccumulation in fish in the receiving streams. NanoImpact, 2016, 3-4, 96-103.	4.5	77
132	Overcoming implementation barriers for nanotechnology in drinking water treatment. Environmental Science: Nano, 2016, 3, 1241-1253.	4.3	101
133	Critical Uncertainties and Gaps in the Environmental- and Social-Impact Assessment of the Proposed Interoceanic Canal through Nicaragua. BioScience, 2016, 66, 632-645.	4.9	12
134	A new frontier in Texas: managing and regulating brackish groundwater. Water Policy, 2016, 18, 727-749.	1.5	7
135	Tin porphyrin immobilization significantly enhances visible-light-photosensitized degradation of Microcystins: Mechanistic implications. Applied Catalysis B: Environmental, 2016, 199, 33-44.	20.2	12
136	Enhanced Adsorption of Hydroxyl- and Amino-Substituted Aromatic Chemicals to Nitrogen-Doped Multiwall Carbon Nanotubes: A Combined Batch and Theoretical Calculation Study. Environmental Science & Technology, 2016, 50, 899-905.	10.0	53
137	Quorum sensing autoinducers enhance biofilm formation and power production in a hypersaline microbial fuel cell. Biochemical Engineering Journal, 2016, 109, 222-227.	3.6	63
138	Facet Energy and Reactivity versus Cytotoxicity: The Surprising Behavior of CdS Nanorods. Nano Letters, 2016, 16, 688-694.	9.1	30
139	Photochemistry of Dissolved Black Carbon Released from Biochar: Reactive Oxygen Species Generation and Phototransformation. Environmental Science & Technology, 2016, 50, 1218-1226.	10.0	252
140	Isolation of Polyvalent Bacteriophages by Sequential Multiple-Host Approaches. Applied and Environmental Microbiology, 2016, 82, 808-815.	3.1	99
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