Pedro Alvarez

List of Publications by Year
in descending order

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370 papers	41,284 citations	2675 95 h-index	2747 192 g-index
378 all docs	378 docs citations	378 times ranked	37346 citing authors

#	Article	IF	Citations
1	Nanomaterials in the environment: Behavior, fate, bioavailability, and effects. Environmental Toxicology and Chemistry, 2008, 27, 1825-1851.	4.3	2,370
2	Antimicrobial nanomaterials for water disinfection and microbial control: Potential applications and implications. Water Research, 2008, 42, 4591-4602.	11.3	2,019
3	Applications of nanotechnology in water and wastewater treatment. Water Research, 2013, 47, 3931-3946.	11.3	1,919
4	Negligible Particle-Specific Antibacterial Activity of Silver Nanoparticles. Nano Letters, 2012, 12, 4271-4275.	9.1	1,830
5	Comparative eco-toxicity of nanoscale TiO2, SiO2, and ZnO water suspensions. Water Research, 2006, 40, 3527-3532.	11.3	1,341
6	Assessing the Risks of Manufactured Nanomaterials. Environmental Science & Technology, 2006, 40, 4336-4345.	10.0	1,018
7	Occurrence and Transport of Tetracycline, Sulfonamide, Quinolone, and Macrolide Antibiotics in the Haihe River Basin, China. Environmental Science & Technology, 2011, 45, 1827-1833.	10.0	786
8	Polysulfone ultrafiltration membranes impregnated with silver nanoparticles show improved biofouling resistance and virus removal. Water Research, 2009, 43, 715-723.	11.3	718
9	Trends in Antibiotic Resistance Genes Occurrence in the Haihe River, China. Environmental Science & Technology, 2010, 44, 7220-7225.	10.0	661
10	Emerging opportunities for nanotechnology to enhance water security. Nature Nanotechnology, 2018, 13, 634-641.	31.5	627
11	Nanomaterials in the Construction Industry: A Review of Their Applications and Environmental Health and Safety Considerations. ACS Nano, 2010, 4, 3580-3590.	14.6	616
12	Nanotechnology for a Safe and Sustainable Water Supply: Enabling Integrated Water Treatment and Reuse. Accounts of Chemical Research, 2013, 46, 834-843.	15.6	607
13	Enrichment and characterization of an anammox bacterium from a rotating biological contactor treating ammonium-rich leachate. Archives of Microbiology, 2001, 175, 198-207.	2.2	516
14	Antibacterial Activity of Fullerene Water Suspensions:Â Effects of Preparation Method and Particle Sizeâ€. Environmental Science & Technology, 2006, 40, 4360-4366.	10.0	515
15	Selective Degradation of Organic Pollutants Using an Efficient Metal-Free Catalyst Derived from Carbonized Polypyrrole via Peroxymonosulfate Activation. Environmental Science & Technology, 2017, 51, 11288-11296.	10.0	514
16	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. Environmental Science & Technology, 2019, 53, 2937-2947.	10.0	493
17	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	13.3	491
18	Developmental phytotoxicity of metal oxide nanoparticles to Arabidopsis thaliana. Environmental Toxicology and Chemistry, 2010, 29, 669-675.	4.3	474

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19	Differential Effect of Common Ligands and Molecular Oxygen on Antimicrobial Activity of Silver Nanoparticles versus Silver Ions. Environmental Science & Technology, 2011, 45, 9003-9008.	10.0	466
20	Prevalence and proliferation of antibiotic resistance genes in two municipal wastewater treatment plants. Water Research, 2015, 85, 458-466.	11.3	448
21	Nanomaterials in the environment: Behavior, fate, bioavailability, and effectsâ€"An updated review. Environmental Toxicology and Chemistry, 2018, 37, 2029-2063.	4.3	429
22	Comparative Photoactivity and Antibacterial Properties of C₆₀ Fullerenes and Titanium Dioxide Nanoparticles. Environmental Science & Technology, 2009, 43, 4355-4360.	10.0	410
23	Persistence of Extracellular DNA in River Sediment Facilitates Antibiotic Resistance Gene Propagation. Environmental Science & Technology, 2014, 48, 71-78.	10.0	345
24	The Water Footprint of Biofuels: A Drink or Drive Issue?. Environmental Science & Technology, 2009, 43, 3005-3010.	10.0	316
25	2D N-Doped Porous Carbon Derived from Polydopamine-Coated Graphitic Carbon Nitride for Efficient Nonradical Activation of Peroxymonosulfate. Environmental Science & Technology, 2020, 54, 8473-8481.	10.0	316
26	Heavy metal removal with mexican clinoptilolite:. Water Research, 2001, 35, 373-378.	11.3	307
27	Adsorbed Polymer and NOM Limits Adhesion and Toxicity of Nano Scale Zerovalent Iron to E. coli. Environmental Science & Technology, 2010, 44, 3462-3467.	10.0	304
28	Substrate interactions of benzene, toluene, and para-xylene during microbial degradation by pure cultures and mixed culture aquifer slurries. Applied and Environmental Microbiology, 1991, 57, 2981-2985.	3.1	302
29	Porous Electrospun Fibers Embedding TiO₂ for Adsorption and Photocatalytic Degradation of Water Pollutants. Environmental Science & Technology, 2018, 52, 4285-4293.	10.0	286
30	Fe(0)-Supported Autotrophic Denitrification. Environmental Science & Technology, 1998, 32, 634-639.	10.0	285
31	Improved Pd-on-Au bimetallic nanoparticle catalysts for aqueous-phase trichloroethene hydrodechlorination. Applied Catalysis B: Environmental, 2006, 69, 115-125.	20.2	258
32	Chemistry and Microbiology of Permeable Reactive Barriers forIn SituGroundwater Clean up. Critical Reviews in Environmental Science and Technology, 2000, 30, 363-411.	12.8	256
33	Photochemistry of Dissolved Black Carbon Released from Biochar: Reactive Oxygen Species Generation and Phototransformation. Environmental Science & Technology, 2016, 50, 1218-1226.	10.0	252
34	Antibacterial Activity of Fullerene Water Suspensions (nC₆₀) Is Not Due to ROS-Mediated Damage. Nano Letters, 2008, 8, 1539-1543.	9.1	249
35	Effect of natural organic matter on toxicity and reactivity of nano-scale zero-valent iron. Water Research, 2011, 45, 1995-2001.	11.3	245
36	Microbial Extracellular Polymeric Substances Reduce Ag⁺ to Silver Nanoparticles and Antagonize Bactericidal Activity. Environmental Science & Technology, 2014, 48, 316-322.	10.0	243

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37	Antibiotic resistance genes from livestock waste: occurrence, dissemination, and treatment. Npj Clean Water, 2020, 3, .	8.0	242
38	Toward a Comprehensive Strategy to Mitigate Dissemination of Environmental Sources of Antibiotic Resistance. Environmental Science & Technology, 2017, 51, 13061-13069.	10.0	236
39	Effect of a Fullerene Water Suspension on Bacterial Phospholipids and Membrane Phase Behavior. Environmental Science & Technology, 2007, 41, 2636-2642.	10.0	232
40	Effects of nano-scale zero-valent iron particles on a mixed culture dechlorinating trichloroethylene. Bioresource Technology, 2010, 101, 1141-1146.	9.6	227
41	Fullerene Water Suspension (nC₆₀) Exerts Antibacterial Effects via ROS-Independent Protein Oxidation. Environmental Science & Technology, 2008, 42, 8127-8132.	10.0	215
42	Phytostimulation of Poplars and Arabidopsis Exposed to Silver Nanoparticles and Ag⁺ at Sublethal Concentrations. Environmental Science & Technology, 2013, 47, 5442-5449.	10.0	201
43	A Real-Time Polymerase Chain Reaction Method for Monitoring Anaerobic, Hydrocarbon-Degrading Bacteria Based on a Catabolic Gene. Environmental Science & Technology, 2002, 36, 3977-3984.	10.0	197
44	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. Nature Sustainability, 2020, 3, 981-990.	23.7	195
45	Spin-State-Dependent Peroxymonosulfate Activation of Single-Atom Mâ€“N Moieties via a Radical-Free Pathway. ACS Catalysis, 2021, 11, 9569-9577.	11.2	192
46	DEVELOPMENTAL TOXICITY IN ZEBRAFISH (DANIO RERIO) EMBRYOS AFTER EXPOSURE TO MANUFACTURED NANOMATERIALS: BUCKMINSTERFULLERENE AGGREGATES (nC60) AND FULLEROL. Environmental Toxicology and Chemistry, 2007, 26, 976.	4.3	190
47	Selective Oxidative Degradation of Organic Pollutants by Singlet Oxygen-Mediated Photosensitization: Tin Porphyrin versus C₆₀ Aminofullerene Systems. Environmental Science & Technology, 2012, 46, 9606-9613.	10.0	190
48	Transport of Gold Nanoparticles through Plasmodesmata and Precipitation of Gold Ions in Woody Poplar. Environmental Science and Technology Letters, 2014, 1, 146-151.	8.7	188
49	Thermal Treatment of Hydrocarbon-Impacted Soils: A Review of Technology Innovation for Sustainable Remediation. Engineering, 2016, 2, 426-437.	6.7	188
50	Quantum Dot Weathering Results in Microbial Toxicity. Environmental Science & Technology, 2008, 42, 9424-9430.	10.0	187
51	Which Micropollutants in Water Environments Deserve More Attention Globally?. Environmental Science & Technology, 2022, 56, 13-29.	10.0	176
52	Adsorption of tetracycline on singleâ€walled and multiâ€walled carbon nanotubes as affected by aqueous solution chemistry. Environmental Toxicology and Chemistry, 2010, 29, 2713-2719.	4.3	174
53	Benzo[a]pyrene co-metabolism in the presence of plant root extracts and exudates: Implications for phytoremediation. Environmental Pollution, 2005, 136, 477-484.	7.5	171
54	Understanding and harnessing the microaerobic metabolism of glycerol in Escherichia coli. Biotechnology and Bioengineering, 2009, 103, 148-161.	3.3	169

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55	RDX degradation using an integrated Fe(0)-microbial treatment approach. Water Science and Technology, 2001, 43, 25-33.	2.5	161
56	Extracellular Saccharide-Mediated Reduction of Au³⁺ to Gold Nanoparticles: New Insights for Heavy Metals Biomineralization on Microbial Surfaces. Environmental Science & Technology, 2017, 51, 2776-2785.	10.0	159
57	Arsenic(V) removal using an amine-doped acrylic ion exchange fiber: Kinetic, equilibrium, and regeneration studies. Journal of Hazardous Materials, 2017, 325, 223-229.	12.4	159
58	Pyrosequencing reveals higher impact of silver nanoparticles than Ag+ on the microbial community structure of activated sludge. Water Research, 2014, 48, 317-325.	11.3	155
59	Impacts of silver nanoparticles on cellular and transcriptional activity of nitrogenâ€cycling bacteria. Environmental Toxicology and Chemistry, 2013, 32, 1488-1494.	4.3	151
60	Modeling transport and biodegradation of benzene and toluene in sandy aquifer material: Comparisons With experimental measurements. Water Resources Research, 1992, 28, 1833-1847.	4.2	149
61	Mechanisms of Photochemistry and Reactive Oxygen Production by Fullerene Suspensions in Water. Environmental Science & Technology, 2008, 42, 4175-4180.	10.0	145
62	Trading oxidation power for efficiency: Differential inhibition of photo-generated hydroxyl radicals versus singlet oxygen. Water Research, 2014, 60, 259-266.	11.3	145
63	Inactivation of Bacteriophages via Photosensitization of Fullerol Nanoparticles. Environmental Science & Technology, 2007, 41, 6627-6632.	10.0	144
64	Comparative toxicity of nano-scale TiO2, SiO2 and ZnO water suspensions. Water Science and Technology, 2006, 54, 327-334.	2.5	143
65	In situ Synthesis of Metal Nanoparticle Embedded Free Standing Multifunctional PDMS Films. Macromolecular Rapid Communications, 2009, 30, 1116-1122.	3.9	143
66	Chemistry and Microbiology of Permeable Reactive Barriers forIn SituGroundwater Clean up. Critical Reviews in Microbiology, 2000, 26, 221-264.	6.1	142
67	Effect of hybrid poplar trees on microbial populations important to hazardous waste bioremediation. Environmental Toxicology and Chemistry, 1997, 16, 1318-1321.	4.3	138
68	Earthworm avoidance of biochar can be mitigated by wetting. Soil Biology and Biochemistry, 2011, 43, 1732-1737.	8.8	136
69	The Transport and Fate of Ethanol and BTEX in Groundwater Contaminated by Gasohol. Critical Reviews in Environmental Science and Technology, 2001, 31, 79-123.	12.8	135
70	Nanotechnology-enabled water treatment and reuse: emerging opportunities and challenges for developing countries. Trends in Food Science and Technology, 2011, 22, 618-624.	15.1	135
71	Repression of Pseudomonas putida phenanthrene-degrading activity by plant root extracts and exudates. Environmental Microbiology, 2004, 6, 574-583.	3.8	134
72	Amplification and attenuation of tetracycline resistance in soil bacteria: aquifer column experiments. Water Research, 2004, 38, 3705-3712.	11.3	134

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73	Proliferation of Multidrug-Resistant New Delhi Metallo-Î²-lactamase Genes in Municipal Wastewater Treatment Plants in Northern China. Environmental Science and Technology Letters, 2014, 1, 26-30.	8.7	133
74	Effect of soil sorption and aquatic natural organic matter on the antibacterial activity of a fullerene water suspension. Environmental Toxicology and Chemistry, 2008, 27, 1888-1894.	4.3	132
75	Kinetics of aerobic biodegradation of benzene and toluene in sandy aquifer material. Biodegradation, 1991, 2, 43-51.	3.0	131
76	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. Environmental Science & Technology, 2017, 51, 10274-10281.	10.0	129
77	Hexahydro-1,3,5-trinitro-1,3,5-triazine Mineralization by Zerovalent Iron and Mixed Anaerobic Cultures. Environmental Science & Technology, 2001, 35, 4341-4346.	10.0	127
78	Cleaner water using bimetallic nanoparticle catalysts. Journal of Chemical Technology and Biotechnology, 2009, 84, 158-166.	3.2	127
79	Photochemical and Antimicrobial Properties of Novel C₆₀ Derivatives in Aqueous Systems. Environmental Science & Technology, 2009, 43, 6604-6610.	10.0	127
80	Cooperative Pollutant Adsorption and Persulfate-Driven Oxidation on Hierarchically Ordered Porous Carbon. Environmental Science & Technology, 2019, 53, 10352-10360.	10.0	127
81	Inhibitory effect of natural organic matter or other background constituents on photocatalytic advanced oxidation processes: Mechanistic model development and validation. Water Research, 2015, 84, 362-371.	11.3	125
82	The influence of the gasoline oxygenate ethanol on aerobic and anaerobic BTX biodegradation. Water Research, 1998, 32, 2065-2072.	11.3	124
83	Research Priorities to Advance Eco-Responsible Nanotechnology. ACS Nano, 2009, 3, 1616-1619.	14.6	122
84	Enhanced Anaerobic Biodegradation of Benzene-Toluene-Ethylbenzene-Xylene-Ethanol Mixtures in Bioaugmented Aquifer Columns. Applied and Environmental Microbiology, 2004, 70, 4720-4726.	3.1	121
85	Degradation of TCE, Cr(VI), sulfate, and nitrate mixtures by granular iron in flow-through columns under different microbial conditions. Water Research, 2002, 36, 1973-1982.	11.3	119
86	Fluorescence Reports Intact Quantum Dot Uptake into Roots and Translocation to Leaves of Arabidopsis thaliana and Subsequent Ingestion by Insect Herbivores. Environmental Science & Technology, 2015, 49, 626-632.	10.0	117
87	Bacterial exposure to ZnO nanoparticles facilitates horizontal transfer of antibiotic resistance genes. NanoImpact, 2018, 10, 61-67.	4.5	117
88	Benzo[a]pyrene degradation by Sphingomonas yanoikuyae JAR02. Environmental Pollution, 2008, 151, 669-677.	7.5	115
89	Reductive dechlorination of carbon tetrachloride with elemental iron. Journal of Hazardous Materials, 1995, 41, 205-216.	12.4	111
90	Regional Variation in Water-Related Impacts of Shale Gas Development and Implications for Emerging International Plays. Environmental Science & Technology, 2014, 48, 8298-8306.	10.0	111

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91	Photosensitized Oxidation of Emerging Organic Pollutants by Tetrakis C₆₀ Aminofullerene-Derivatized Silica under Visible Light Irradiation. Environmental Science & Technology, 2011, 45, 10598-10604.	10.0	107
92	Utilization of Cathodic Hydrogen as Electron Donor for Chloroform Cometabolism by a Mixed, Methanogenic Culture. Environmental Science & Technology, 1997, 31, 880-885.	10.0	103
93	Phosphate Changes Effect of Humic Acids on TiO₂ Photocatalysis: From Inhibition to Mitigation of Electronâ€“Hole Recombination. Environmental Science & Technology, 2017, 51, 514-521.	10.0	102
94	Overcoming implementation barriers for nanotechnology in drinking water treatment. Environmental Science: Nano, 2016, 3, 1241-1253.	4.3	101
95	Evolution and functional analysis of extracellular polymeric substances during the granulation of aerobic sludge used to treat p-chloroaniline wastewater. Chemical Engineering Journal, 2017, 330, 596-604.	12.7	101
96	Isolation of Polyvalent Bacteriophages by Sequential Multiple-Host Approaches. Applied and Environmental Microbiology, 2016, 82, 808-815.	3.1	99
97	Chemical and microbiological assessment of pendimethalin-contaminated soil after treatment with Fenton's reagent. Water Research, 1996, 30, 2579-2586.	11.3	95
98	Effect of Root-Derived Substrates on the Expression ofnah-luxGenes inPseudomonas fluorescensHK44: Implications for PAH Biodegradation in the Rhizosphere. Environmental Science & Technology, 2004, 38, 1740-1745.	10.0	95
99	Properties of Membranes Containing Semi-dispersed Carbon Nanotubes. Environmental Engineering Science, 2008, 25, 565-576.	1.6	95
100	UV Irradiation and Humic Acid Mediate Aggregation of Aqueous Fullerene (nC₆₀) Nanoparticles. Environmental Science & Technology, 2010, 44, 7821-7826.	10.0	95
101	Aggregation Behavior of Dissolved Black Carbon: Implications for Vertical Mass Flux and Fractionation in Aquatic Systems. Environmental Science & Technology, 2017, 51, 13723-13732.	10.0	95
102	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. Environment International, 2019, 131, 104986.	10.0	95
103	Ultrahigh Peroxymonosulfate Utilization Efficiency over CuO Nanosheets via Heterogeneous Cu(III) Formation and Preferential Electron Transfer during Degradation of Phenols. Environmental Science & Technology, 2022, 56, 8984-8992.	10.0	95
104	Deactivation resistance of Pd/Au nanoparticle catalysts for water-phase hydrodechlorination. Journal of Catalysis, 2009, 267, 97-104.	6.2	93
105	Photochemical Transformation of Carboxylated Multiwalled Carbon Nanotubes: Role of Reactive Oxygen Species. Environmental Science & Technology, 2013, 47, 14080-14088.	10.0	93
106	Effect of Bare and Coated Nanoscale Zerovalent Iron on tceA and vcrA Gene Expression in Dehalococcoides spp.. Environmental Science & Technology, 2010, 44, 7647-7651.	10.0	91
107	Defense Mechanisms of Pseudomonas aeruginosa PAO1 against Quantum Dots and Their Released Heavy Metals. ACS Nano, 2012, 6, 6091-6098.	14.6	89
108	Pyrolytic Treatment and Fertility Enhancement of Soils Contaminated with Heavy Hydrocarbons. Environmental Science & Technology, 2016, 50, 2498-2506.	10.0	89

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109	Phytoremediation of 1,4-Dioxane by Hybrid Poplar Trees. Water Environment Research, 2000, 72, 313-321.	2.7	81
110	Reduced graphene oxide enhances horseradish peroxidase stability by serving as radical scavenger and redox mediator. Carbon, 2015, 94, 531-538.	10.3	81
111	Effect of ethanol on BTEX biodegradation kinetics: aerobic continuous culture experiments. Water Research, 2002, 36, 3739-3746.	11.3	80
112	Selective Adsorption and Photocatalytic Degradation of Extracellular Antibiotic Resistance Genes by Molecularly-Imprinted Graphitic Carbon Nitride. Environmental Science & Technology, 2020, 54, 4621-4630.	10.0	80
113	Effects of Ethanol versus MTBE on Benzene, Toluene, Ethylbenzene, and Xylene Natural Attenuation in Aquifer Columns. Journal of Environmental Engineering, ASCE, 2002, 128, 862-867.	1.4	79
114	Tetracycline Resistance Gene Maintenance under Varying Bacterial Growth Rate, Substrate and Oxygen Availability, and Tetracycline Concentration. Environmental Science & Technology, 2013, 47, 6995-7001.	10.0	77
115	Fate of TiO2 nanoparticles entering sewage treatment plants and bioaccumulation in fish in the receiving streams. NanoImpact, 2016, 3-4, 96-103.	4.5	77
116	Phosphorous recovery from sewage sludge using calcium silicate hydrates. Chemosphere, 2018, 193, 1087-1093.	8.2	77
117	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater â€“ a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	4.3	74
118	C₆₀ Aminofullerene Immobilized on Silica as a Visible-Light-Activated Photocatalyst. Environmental Science & Technology, 2010, 44, 9488-9495.	10.0	73
119	Sublethal Concentrations of Silver Nanoparticles Stimulate Biofilm Development. Environmental Science and Technology Letters, 2015, 2, 221-226.	8.7	71
120	Easily Recoverable, Micrometer-Sized TiO₂ Hierarchical Spheres Decorated with Cyclodextrin for Enhanced Photocatalytic Degradation of Organic Micropollutants. Environmental Science & Technology, 2018, 52, 12402-12411.	10.0	71
121	Fit-for-purpose treatment goals for produced waters in shale oil and gas fields. Water Research, 2020, 173, 115467.	11.3	71
122	CeO2/TiO2 nanostructures enhance adsorption and photocatalytic degradation of organic compounds in aqueous suspension. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 325-336.	3.9	70
123	Photocatalytic degradation of neonicotinoid insecticides using sulfate-doped Ag3PO4 with enhanced visible light activity. Chemical Engineering Journal, 2020, 402, 126183.	12.7	70
124	1,4-Dioxane biodegradation at low temperatures in Arctic groundwater samples. Water Research, 2010, 44, 2894-2900.	11.3	69
125	Granular activated carbon as nucleating agent for aerobic sludge granulation: Effect of GAC size on velocity field differences (GAC versus flocs) and aggregation behavior. Bioresource Technology, 2015, 198, 358-363.	9.6	69
126	Quantitative structureâ€“activity relationship for the oxidation of aromatic organic contaminants in water by TAML/H2O2. Water Research, 2018, 140, 354-363.	11.3	69

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127	Perfluorooctanoic acid degradation in the presence of Fe(III) under natural sunlight. Journal of Hazardous Materials, 2013, 262, 456-463.	12.4	68
128	Manganese Peroxidase Degrades Pristine but Not Surface-Oxidized (Carboxylated) Single-Walled Carbon Nanotubes. Environmental Science & Technology, 2014, 48, 7918-7923.	10.0	68
129	Discerning the inefficacy of hydroxyl radicals during perfluorooctanoic acid degradation. Chemosphere, 2020, 247, 125883.	8.2	68
130	Implications and potential applications of bactericidal fullerene water suspensions: effect of nC60 concentration, exposure conditions and shelf life. Water Science and Technology, 2008, 57, 1533-1538.	2.5	67
131	Efficient removal of bisphenol-A by ultra-high surface area porous activated carbon derived from asphalt. Carbon, 2018, 140, 441-448.	10.3	67
132	Enhanced mutualistic symbiosis between soil phages and bacteria with elevated chromium-induced environmental stress. Microbiome, 2021, 9, 150.	11.1	67
133	Elevated Levels of Pathogenic Indicator Bacteria and Antibiotic Resistance Genes after Hurricane Harveyâ€™s Flooding in Houston. Environmental Science and Technology Letters, 2018, 5, 481-486.	8.7	65
134	In situremediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. Environmental Science: Nano, 2019, 6, 1283-1302.	4.3	65
135	Biodegradation of monoaromatic hydrocarbons in aquifer columns amended with hydrogen peroxide and nitrate. Water Research, 1993, 27, 685-691.	11.3	64
136	Biodegradation of 1,4-dioxane in planted and unplanted soil: effect of bioaugmentation with amycolata sp. CB1190. Water Research, 2001, 35, 3791-3800.	11.3	64
137	Persistent free radicals in biochar enhance superoxide-mediated Fe(III)/Fe(II) cycling and the efficacy of CaO2 Fenton-like treatment. Journal of Hazardous Materials, 2022, 421, 126805.	12.4	64
138	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
139	Improving Photocatalytic Water Treatment through Nanocrystal Engineering: Mesoporous Nanosheet-Assembled 3D BiOCl Hierarchical Nanostructures That Induce Unprecedented Large Vacancies. Environmental Science & Technology, 2018, 52, 6872-6880.	10.0	63
140	Uptake and transformation of trichloroethylene by edible garden plants. Water Research, 1997, 31, 816-824.	11.3	61
141	Going Viral: Emerging Opportunities for Phage-Based Bacterial Control in Water Treatment and Reuse. Accounts of Chemical Research, 2019, 52, 849-857.	15.6	61
142	Visible Light Sensitized Inactivation of MS-2 Bacteriophage by a Cationic Amine-Functionalized C₆₀ Derivative. Environmental Science & Technology, 2010, 44, 6685-6691.	10.0	60
143	Performance Assessment of Bioremediation and Natural Attenuation. Critical Reviews in Environmental Science and Technology, 2009, 39, 209-270.	12.8	58
144	BTEX Plume Dynamics Following an Ethanol Blend Release: Geochemical Footprint and Thermodynamic Constraints on Natural Attenuation. Environmental Science & Technology, 2011, 45, 3422-3429.	10.0	58

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145	Impact of Sunlight and Humic Acid on the Deposition Kinetics of Aqueous Fullerene Nanoparticles (nC₆₀). Environmental Science & Technology, 2012, 46, 13455-13462.	10.0	58
146	Effect of ethanol and methylâ€Tertâ€butyl ether on monoaromatic hydrocarbon biodegradation: Response variability for different aquifer materials under various electronâ€accepting conditions. Environmental Toxicology and Chemistry, 2002, 21, 2631-2639.	4.3	57
147	Structural analysis of palladium-decorated gold nanoparticles as colloidal bimetallic catalysts. Catalysis Today, 2011, 160, 96-102.	4.4	57
148	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) degradation by Acetobacterium paludosum. Biodegradation, 2005, 16, 539-547.	3.0	56
149	Peer Reviewed: Will Ethanol-Blended Gasoline Affect Groundwater Quality?. Environmental Science & Technology, 2001, 35, 24A-30A.	10.0	55
150	Kinetics Analysis of Palladium/Gold Nanoparticles as Colloidal Hydrodechlorination Catalysts. ACS Catalysis, 2011, 1, 128-138.	11.2	55
151	Cellular and Transcriptional Response of Pseudomonas stutzeri to Quantum Dots under Aerobic and Denitrifying Conditions. Environmental Science & Technology, 2011, 45, 4988-4994.	10.0	55
152	Field metabolomics and laboratory assessments of anaerobic intrinsic bioremediation of hydrocarbons at a petroleumâ€contaminated site. Microbial Biotechnology, 2009, 2, 202-212.	4.2	54
153	Bioaccumulation of¹⁴C₆₀by the EarthwormEisenia fetida. Environmental Science & Technology, 2010, 44, 9170-9175.	10.0	54
154	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
155	Sodium rhodizonate induced formation of gold nanoparticles supported on cellulose fibers for catalytic reduction of 4-nitrophenol and organic dyes. Journal of Environmental Chemical Engineering, 2017, 5, 4185-4193.	6.7	54
156	Uptake, Translocation, and Transformation of Quantum Dots with Cationic versus Anionic Coatings by Populus deltoides Ã— nigra Cuttings. Environmental Science & Technology, 2014, 48, 6754-6762.	10.0	53
157	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
158	Microbial fuel cell fed by Barnett Shale produced water: Power production by hypersaline autochthonous bacteria and coupling to a desalination unit. Biochemical Engineering Journal, 2017, 117, 87-91.	3.6	53
159	Diversity and correlation of specific aromatic hydrocarbon biodegradation capabilities. , 1999, 10, 331-340.		52
160	Nitrate and Nitrite Reduction by Fe0: Influence of Mass Transport, Temperature, and Denitrifying Microbes. Environmental Engineering Science, 2004, 21, 219-229.	1.6	51
161	Enhanced anaerobic biodegradation of BTEX-ethanol mixtures in aquifer columns amended with sulfate, chelated ferric iron or nitrate. Biodegradation, 2005, 16, 105-114.	3.0	51
162	Widespread Distribution of Soluble Di-Iron Monooxygenase (SDIMO) Genes in Arctic Groundwater Impacted by 1,4-Dioxane. Environmental Science & Technology, 2013, 47, 9950-9958.	10.0	51

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