

Craig Criddle

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

191
papers

13,521
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61
h-index

113
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199
ext. papers

15,182
ext. citations

8.5
avg, IF

6.43
L-index

#	Paper	IF	Citations
191	ES Critical Reviews: Transformations of halogenated aliphatic compounds. <i>Environmental Science & Technology</i> , 1987 , 21, 722-36	10.3	824
190	Fluorinated Organics in the Biosphere. <i>Environmental Science & Technology</i> , 1997 , 31, 2445-2454	10.3	572
189	GeoChip: a comprehensive microarray for investigating biogeochemical, ecological and environmental processes. <i>ISME Journal</i> , 2007 , 1, 67-77	11.9	484
188	Quantitative determination of perfluorochemicals in sediments and domestic sludge. <i>Environmental Science & Technology</i> , 2005 , 39, 3946-56	10.3	433
187	How stable is stable? Function versus community composition. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 3697-704	4.8	408
186	Combined niche and neutral effects in a microbial wastewater treatment community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15345-50	11.5	356
185	Three-dimensional carbon nanotube-textile anode for high-performance microbial fuel cells. <i>Nano Letters</i> , 2011 , 11, 291-6	11.5	350
184	Occurrence of ammonia-oxidizing archaea in wastewater treatment plant bioreactors. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5643-7	4.8	312
183	Flexible community structure correlates with stable community function in methanogenic bioreactor communities perturbed by glucose. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 4058-67	4.8	277
182	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 5265-5270	35.4	255
181	Use of reverse osmosis membranes to remove perfluorooctane sulfonate (PFOS) from semiconductor wastewater. <i>Environmental Science & Technology</i> , 2006 , 40, 7343-9	10.3	253
180	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019 , 4, 1183-1195	26.6	248
179	Effect of flux (transmembrane pressure) and membrane properties on fouling and rejection of reverse osmosis and nanofiltration membranes treating perfluorooctane sulfonate containing wastewater. <i>Environmental Science & Technology</i> , 2007 , 41, 2008-14	10.3	247
178	Graphene sponges as high-performance low-cost anodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6862	35.4	239
177	Pilot-scale in situ bioremediation of uranium in a highly contaminated aquifer. 2. Reduction of u(VI) and geochemical control of u(VI) bioavailability. <i>Environmental Science & Technology</i> , 2006 , 40, 3986-95	10.3	223
176	Ammonia-oxidizing communities in a highly aerated full-scale activated sludge bioreactor: betaproteobacterial dynamics and low relative abundance of Crenarchaea. <i>Environmental Microbiology</i> , 2009 , 11, 2310-28	5.2	204
175	Aerobic biotransformation and fate of N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) in activated sludge. <i>Environmental Science & Technology</i> , 2008 , 42, 2873-8	10.3	204

174	Understanding bias in microbial community analysis techniques due to rrn operon copy number heterogeneity. <i>BioTechniques</i> , 2003 , 34, 790-4, 796, 798 passim	2.5	204
173	Design and fabrication of bioelectrodes for microbial bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2015 , 8, 3418-3441	35.4	185
172	Defluorination of Organofluorine Sulfur Compounds by Pseudomonas Sp. Strain D2. <i>Environmental Science & Technology</i> , 1998 , 32, 2283-2287	10.3	172
171	In situ bioreduction of uranium (VI) to submicromolar levels and reoxidation by dissolved oxygen. <i>Environmental Science & Technology</i> , 2007 , 41, 5716-23	10.3	166
170	Kinetics of competitive inhibition and cometabolism in the biodegradation of benzene, toluene, and p-xylene by two Pseudomonas isolates. <i>Biotechnology and Bioengineering</i> , 1993 , 41, 1057-65	4.9	166
169	Biodegradation of Polyethylene and Plastic Mixtures in Mealworms (Larvae of Tenebrio molitor) and Effects on the Gut Microbiome. <i>Environmental Science & Technology</i> , 2018 , 52, 6526-6533	10.3	155
168	Membrane fouling in an anaerobic membrane bioreactor: Differences in relative abundance of bacterial species in the membrane foulant layer and in suspension. <i>Journal of Membrane Science</i> , 2010 , 364, 331-338	9.6	150
167	Effect of solution chemistry on the adsorption of perfluorooctane sulfonate onto mineral surfaces. <i>Water Research</i> , 2010 , 44, 2654-62	12.5	147
166	Pilot-scale in situ bioremediation of uranium in a highly contaminated aquifer. 1. Conditioning of a treatment zone. <i>Environmental Science & Technology</i> , 2006 , 40, 3978-85	10.3	142
165	Microbial communities in contaminated sediments, associated with bioremediation of uranium to submicromolar levels. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 3718-29	4.8	141
164	Parallel processing of substrate correlates with greater functional stability in methanogenic bioreactor communities perturbed by glucose. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 4050-74.8		139
163	Cometabolism of Cr(VI) by Shewanella oneidensis MR-1 produces cell-associated reduced chromium and inhibits growth. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 627-37	4.9	132
162	The kinetics of cometabolism. <i>Biotechnology and Bioengineering</i> , 1993 , 41, 1048-56	4.9	124
161	Bioreduction of uranium in a contaminated soil column. <i>Environmental Science & Technology</i> , 2005 , 39, 4841-7	10.3	122
160	Fine-scale bacterial community dynamics and the taxa-time relationship within a full-scale activated sludge bioreactor. <i>Water Research</i> , 2011 , 45, 5476-88	12.5	117
159	Thermodynamic constraints on the oxidation of biogenic UO ₂ by Fe(III) (Hydr)oxides. <i>Environmental Science & Technology</i> , 2006 , 40, 3544-50	10.3	117
158	Global transcriptional profiling of Shewanella oneidensis MR-1 during Cr(VI) and U(VI) reduction. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7453-60	4.8	114
157	Electrolytic model system for reductive dehalogenation in aqueous environments. <i>Environmental Science & Technology</i> , 1991 , 25, 973-978	10.3	112

156	Transformation of carbon tetrachloride by <i>Pseudomonas</i> sp. strain KC under denitrification conditions. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 3240-6	4.8	112
155	Microplastics pollution and reduction strategies. <i>Frontiers of Environmental Science and Engineering</i> , 2017 , 11, 1	5.8	103
154	Speciation of uranium in sediments before and after in situ biostimulation. <i>Environmental Science & Technology</i> , 2008 , 42, 1558-64	10.3	103
153	Biodegradation of polystyrene wastes in yellow mealworms (larvae of <i>Tenebrio molitor</i> Linnaeus): Factors affecting biodegradation rates and the ability of polystyrene-fed larvae to complete their life cycle. <i>Chemosphere</i> , 2018 , 191, 979-989	8.4	98
152	Biodegradation of Polystyrene by Dark (<i>Tenebrio obscurus</i>) and Yellow (<i>Tenebrio molitor</i>) Mealworms (Coleoptera: Tenebrionidae). <i>Environmental Science & Technology</i> , 2019 , 53, 5256-5265	10.3	97
151	Distribution and selection of poly-3-hydroxybutyrate production capacity in methanotrophic proteobacteria. <i>Microbial Ecology</i> , 2011 , 62, 564-73	4.4	96
150	Poly-3-hydroxybutyrate metabolism in the type II methanotroph <i>Methylocystis parvus</i> OBBP. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 6012-9	4.8	94
149	Nitrogen removal with energy recovery through N ₂ O decomposition. <i>Energy and Environmental Science</i> , 2013 , 6, 241-248	35.4	89
148	Responses of microbial community functional structures to pilot-scale uranium in situ bioremediation. <i>ISME Journal</i> , 2010 , 4, 1060-70	11.9	89
147	GeoChip-based analysis of functional microbial communities during the reoxidation of a bio-reduced uranium-contaminated aquifer. <i>Environmental Microbiology</i> , 2009 , 11, 2611-26	5.2	87
146	Ubiquity of polystyrene digestion and biodegradation within yellow mealworms, larvae of <i>Tenebrio molitor</i> Linnaeus (Coleoptera: Tenebrionidae). <i>Chemosphere</i> , 2018 , 212, 262-271	8.4	85
145	Significant association between sulfate-reducing bacteria and uranium-reducing microbial communities as revealed by a combined massively parallel sequencing-indicator species approach. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 6778-86	4.8	85
144	Effects of nitrate on the stability of uranium in a bio-reduced region of the subsurface. <i>Environmental Science & Technology</i> , 2010 , 44, 5104-11	10.3	84
143	Occurrence of ammonia-oxidizing Archaea in activated sludges of a laboratory scale reactor and two wastewater treatment plants. <i>Journal of Applied Microbiology</i> , 2009 , 107, 970-7	4.7	84
142	Addressing the Issue of Microplastics in the Wake of the Microbead-Free Waters Act-A New Standard Can Facilitate Improved Policy. <i>Environmental Science & Technology</i> , 2017 , 51, 6611-6617	10.3	81
141	Bacterial community succession during in situ uranium bioremediation: spatial similarities along controlled flow paths. <i>ISME Journal</i> , 2009 , 3, 47-64	11.9	81
140	A limited microbial consortium is responsible for extended bio-reduction of uranium in a contaminated aquifer. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5955-65	4.8	81
139	Impacts on microbial communities and cultivable isolates from groundwater contaminated with high levels of nitric acid-uranium waste. <i>FEMS Microbiology Ecology</i> , 2005 , 53, 417-28	4.3	81

138	Cradle-to-gate life cycle assessment for a cradle-to-cradle cycle: biogas-to-bioplastic (and back). <i>Environmental Science & Technology</i> , 2012 , 46, 9822-9	10.3	80
137	Pilot-Scale Evaluation of Bioaugmentation for In-Situ Remediation of a Carbon Tetrachloride-Contaminated Aquifer. <i>Environmental Science & Technology</i> , 1998 , 32, 3598-3611	10.3	79
136	Stoichiometry and kinetics of the PHB-producing Type II methanotrophs <i>Methylosinus trichosporium</i> OB3b and <i>Methylocystis parvus</i> OBBP. <i>Bioresource Technology</i> , 2013 , 132, 71-7	11	78
135	Magnetically ultrasensitive nanoscavengers for next-generation water purification systems. <i>Nature Communications</i> , 2013 , 4, 1866	17.4	67
134	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1293	35.4	67
133	In situ bioremediation of uranium with emulsified vegetable oil as the electron donor. <i>Environmental Science & Technology</i> , 2013 , 47, 6440-8	10.3	66
132	Reductive dehalogenation of carbon tetrachloride by <i>Escherichia coli</i> K-12. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 3247-54	4.8	65
131	Production of nitrous oxide from anaerobic digester centrate and its use as a co-oxidant of biogas to enhance energy recovery. <i>Environmental Science & Technology</i> , 2014 , 48, 5612-9	10.3	64
130	Reduction of uranium(VI) by soluble iron(II) conforms with thermodynamic predictions. <i>Environmental Science & Technology</i> , 2011 , 45, 4718-25	10.3	60
129	Recovery of freshwater from wastewater: upgrading process configurations to maximize energy recovery and minimize residuals. <i>Environmental Science & Technology</i> , 2014 , 48, 8420-32	10.3	59
128	Use of low cost and easily regenerated Prussian Blue cathodes for efficient electrical energy recovery in a microbial battery. <i>Energy and Environmental Science</i> , 2015 , 8, 546-551	35.4	58
127	Long-term cultivation of a stable <i>Methylocystis</i> -dominated methanotrophic enrichment enabling tailored production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Bioresource Technology</i> , 2015 , 198, 811-8	11	58
126	Use of atomic force microscopy and fractal geometry to characterize the roughness of nano-, micro-, and ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2009 , 340, 117-132	9.6	58
125	Microbial battery for efficient energy recovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15925-30	11.5	55
124	Development, operation, and long-term performance of a full-scale biocurtain utilizing bioaugmentation. <i>Environmental Science & Technology</i> , 2002 , 36, 3635-44	10.3	55
123	Selection of Type I and Type II methanotrophic proteobacteria in a fluidized bed reactor under non-sterile conditions. <i>Bioresource Technology</i> , 2011 , 102, 9919-26	11	52
122	Influence of bicarbonate, sulfate, and electron donors on biological reduction of uranium and microbial community composition. <i>Applied Microbiology and Biotechnology</i> , 2007 , 77, 713-21	5.7	52
121	Heterogeneous response to biostimulation for U(VI) reduction in replicated sediment microcosms. <i>Biodegradation</i> , 2006 , 17, 303-16	4.1	50

120	Modeling in-situ uranium(VI) bioreduction by sulfate-reducing bacteria. <i>Journal of Contaminant Hydrology</i> , 2007 , 92, 129-48	3.9	49
119	A nested-cell approach for in situ remediation. <i>Ground Water</i> , 2006 , 44, 266-74	2.4	49
118	Motility-Enhanced Bioremediation of Carbon Tetrachloride-Contaminated Aquifer Sediments. <i>Environmental Science & Technology</i> , 1999 , 33, 2958-2964	10.3	48
117	Biodegradation of Polyvinyl Chloride (PVC) in <i>Tenebrio molitor</i> (Coleoptera: Tenebrionidae) larvae. <i>Environment International</i> , 2020 , 145, 106106	12.9	48
116	Performance of a mixing entropy battery alternately flushed with wastewater effluent and seawater for recovery of salinity-gradient energy. <i>Energy and Environmental Science</i> , 2014 , 7, 2295-2300	35.4	47
115	Localization and Characterization of the Carbon Tetrachloride Transformation Activity of <i>Pseudomonas</i> sp. Strain KC. <i>Applied and Environmental Microbiology</i> , 1995 , 61, 758-62	4.8	47
114	Community analysis of ammonia-oxidizing bacteria in activated sludge of eight wastewater treatment systems. <i>Journal of Environmental Sciences</i> , 2010 , 22, 627-34	6.4	46
113	Detection and quantification of <i>Geobacter lovleyi</i> strain SZ: implications for bioremediation at tetrachloroethene- and uranium-impacted sites. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 6898-904	4.8	45
112	Effects of a long-term periodic substrate perturbation on an anaerobic community. <i>Water Research</i> , 1997 , 31, 2195-2204	12.5	44
111	Correlation of functional instability and community dynamics in denitrifying dispersed-growth reactors. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 680-90	4.8	44
110	Effects of medium and trace metals on kinetics of carbon tetrachloride transformation by <i>Pseudomonas</i> sp. strain KC. <i>Applied and Environmental Microbiology</i> , 1993 , 59, 2126-31	4.8	44
109	Changes in bacterial community structure correlate with initial operating conditions of a field-scale denitrifying fluidized bed reactor. <i>Applied Microbiology and Biotechnology</i> , 2006 , 71, 748-60	5.7	43
108	Uranium transformations in static microcosms. <i>Environmental Science & Technology</i> , 2010 , 44, 236-42	20.3	42
107	Dynamics of microbial community composition and function during in situ bioremediation of a uranium-contaminated aquifer. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 3860-9	4.8	42
106	Correspondence between community structure and function during succession in phenol- and phenol-plus-trichloroethene-fed sequencing batch reactors. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4950-60	4.8	42
105	Biotransformation of HCFC-22, HCFC-142b, HCFC-123, and HFC-134a by methanotrophic mixed culture MM1. <i>Biodegradation</i> , 1995 , 6, 1-9	4.1	42
104	Cyclic, alternating methane and nitrogen limitation increases PHB production in a methanotrophic community. <i>Bioresour. Technol.</i> , 2012 , 107, 385-92	11	41
103	Biodegradation of low-density polyethylene and polystyrene in superworms, larvae of <i>Zophobas atratus</i> (Coleoptera: Tenebrionidae): Broad and limited extent depolymerization. <i>Environmental Pollution</i> , 2020 , 266, 115206	9.3	39

102	Microbial biogeography across a full-scale wastewater treatment plant transect: evidence for immigration between coupled processes. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 4723-36	5.7	39
101	Experimental evaluation of a model for cometabolism: Prediction of simultaneous degradation of trichloroethylene and methane by a methanotrophic mixed culture. <i>Biotechnology and Bioengineering</i> , 1997 , 56, 492-501	4.9	39
100	Reassessing authorship of the Book of Mormon using delta and nearest shrunken centroid classification. <i>Literary and Linguistic Computing</i> , 2008 , 23, 465-491		39
99	Expanding the range of polyhydroxyalkanoates synthesized by methanotrophic bacteria through the utilization of omega-hydroxyalkanoate co-substrates. <i>AMB Express</i> , 2017 , 7, 118	4.1	38
98	Phylogenetic and functional biomarkers as indicators of bacterial community responses to mixed-waste contamination. <i>Environmental Science & Technology</i> , 2006 , 40, 2601-7	10.3	37
97	Production of Nitrous Oxide from Nitrite in Stable Type II Methanotrophic Enrichments. <i>Environmental Science & Technology</i> , 2015 , 49, 10969-75	10.3	36
96	Optimization of Methanotrophic Growth and Production of Poly(3-Hydroxybutyrate) in a High-Throughput Microbioreactor System. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4767-73	4.8	35
95	Methane or methanol-oxidation dependent synthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by obligate type II methanotrophs. <i>Process Biochemistry</i> , 2016 , 51, 561-567	4.8	34
94	Assessing the scale of resource recovery for centralized and satellite wastewater treatment. <i>Environmental Science & Technology</i> , 2013 , 47, 10762-70	10.3	34
93	Correlation of patterns of denitrification instability in replicated bioreactor communities with shifts in the relative abundance and the denitrification patterns of specific populations. <i>ISME Journal</i> , 2007 , 1, 714-28	11.9	34
92	Mass-transfer limitations for nitrate removal in a uranium-contaminated aquifer. <i>Environmental Science & Technology</i> , 2005 , 39, 8453-9	10.3	34
91	Reduction of hexachloroethane to tetrachloroethylene in groundwater. <i>Journal of Contaminant Hydrology</i> , 1986 , 1, 133-142	3.9	33
90	Stability in a denitrifying fluidized bed reactor. <i>Microbial Ecology</i> , 2006 , 52, 311-21	4.4	32
89	A derivative of the menaquinone precursor 1,4-dihydroxy-2-naphthoate is involved in the reductive transformation of carbon tetrachloride by aerobically grown <i>Shewanella oneidensis</i> MR-1. <i>Applied Microbiology and Biotechnology</i> , 2004 , 63, 571-7	5.7	28
88	Low energy emulsion-based fermentation enabling accelerated methane mass transfer and growth of poly(3-hydroxybutyrate)-accumulating methanotrophs. <i>Bioresource Technology</i> , 2016 , 207, 302-7	11	27
87	Disassembly and reassembly of polyhydroxyalkanoates: recycling through abiotic depolymerization and biotic repolymerization. <i>Bioresource Technology</i> , 2014 , 170, 167-174	11	27
86	Growth and cometabolic reduction kinetics of a uranium- and sulfate-reducing <i>Desulfovibrio/Clostridia</i> mixed culture: Temperature effects. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 1107-19	4.9	27
85	A parametric transfer function methodology for analyzing reactive transport in nonuniform flow. <i>Journal of Contaminant Hydrology</i> , 2006 , 83, 27-41	3.9	27

84	The impact of fermentative organisms on carbon flow in methanogenic systems under constant low-substrate conditions. <i>Applied Microbiology and Biotechnology</i> , 2001 , 56, 531-8	5.7	27
83	Bench-Scale Evaluation of Bioaugmentation to Remediate Carbon Tetrachloride-Contaminated Aquifer Materials. <i>Ground Water</i> , 1996 , 34, 358-367	2.4	27
82	Bacterial Community Shift and Coexisting/Coexcluding Patterns Revealed by Network Analysis in a Uranium-Contaminated Site after Bioreduction Followed by Reoxidation. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	26
81	Anaerobic biodegradation of the microbial copolymer poly(3-hydroxybutyrate-co-3-hydroxyhexanoate): Effects of comonomer content, processing history, and semi-crystalline morphology. <i>Polymer</i> , 2011 , 52, 547-556	3.9	26
80	Uranium reduction and resistance to reoxidation under iron-reducing and sulfate-reducing conditions. <i>Water Research</i> , 2009 , 43, 4652-64	12.5	25
79	Hydraulic performance analysis of a multiple injection-extraction well system. <i>Journal of Hydrology</i> , 2007 , 336, 294-302	6	25
78	Generation and initial characterization of <i>Pseudomonas stutzeri</i> KC mutants with impaired ability to degrade carbon tetrachloride. <i>Archives of Microbiology</i> , 1999 , 171, 424-9	3	25
77	Enhancing the nanomaterial bio-interface by addition of mesoscale secondary features: crinkling of carbon nanotube films to create subcellular ridges. <i>ACS Nano</i> , 2014 , 8, 11958-65	16.7	24
76	Simulation of microbial transport and carbon tetrachloride biodegradation in intermittently-fed aquifer columns. <i>Water Resources Research</i> , 2002 , 38, 4-1-4-13	5.4	24
75	Enhanced Bioavailability and Microbial Biodegradation of Polystyrene in an Enrichment Derived from the Gut Microbiome of (Mealworm Larvae). <i>Environmental Science & Technology</i> , 2021 , 55, 2027-2036 ^{10.3623}	10.3	23
74	Can microbially-generated hydrogen sulfide account for the rates of U(VI) reduction by a sulfate-reducing bacterium?. <i>Biodegradation</i> , 2010 , 21, 81-95	4.1	22
73	Assessment of models for anaerobic biodegradation of a model bioplastic: Poly(hydroxybutyrate-co-hydroxyvalerate). <i>Bioresource Technology</i> , 2017 , 227, 205-213	11	21
72	Microbial Processes in Porous Media 1991 , 639-691		21
71	Uranium (VI) Reduction by Denitrifying Biomass. <i>Bioremediation Journal</i> , 2005 , 9, 49-61	2.3	20
70	Kinetic analysis and modeling of oleate and ethanol stimulated uranium (VI) bio-reduction in contaminated sediments under sulfate reduction conditions. <i>Journal of Hazardous Materials</i> , 2010 , 183, 482-9	12.8	19
69	Dynamic Succession of Groundwater Functional Microbial Communities in Response to Emulsified Vegetable Oil Amendment during Sustained In Situ U(VI) Reduction. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4164-72	4.8	18
68	A proposed nomenclature for biological processes that remove nitrogen. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 10-17	4.2	18
67	Inhibition of a U(VI)- and sulfate-reducing consortia by U(VI). <i>Environmental Science & Technology</i> , 2007 , 41, 6528-33	10.3	18

66	Mass transfer and temperature effects on substrate utilization in brewery granules. <i>Biotechnology and Bioengineering</i> , 1995 , 46, 465-75	4.9	17
65	Fate of Hexabromocyclododecane (HBCD), A Common Flame Retardant, In Polystyrene-Degrading Mealworms: Elevated HBCD Levels in Egested Polymer but No Bioaccumulation. <i>Environmental Science & Technology</i> , 2020 , 54, 364-371	10.3	17
64	Clues to membrane fouling hidden within the microbial communities of membrane bioreactors. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1389-1399	4.2	16
63	Microbial communities biostimulated by ethanol during uranium (VI) bioremediation in contaminated sediment as shown by stable isotope probing. <i>Frontiers of Environmental Science and Engineering</i> , 2015 , 9, 453-464	5.8	16
62	Effects of phenol feeding pattern on microbial community structure and cometabolism of trichloroethylene. <i>Applied and Environmental Microbiology</i> , 1996 , 62, 2953-60	4.8	16
61	Engineering the Dark Food Chain. <i>Environmental Science & Technology</i> , 2019 , 53, 2273-2287	10.3	16
60	Analysis of regulatory elements and genes required for carbon tetrachloride degradation in <i>Pseudomonas stutzeri</i> strain KC. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2002 , 4, 151-61	0.9	16
59	Wildfire prevention through prophylactic treatment of high-risk landscapes using viscoelastic retardant fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20820-20827	11.5	14
58	Decision support toolkit for integrated analysis and design of reclaimed water infrastructure. <i>Water Research</i> , 2018 , 134, 234-252	12.5	14
57	Microbial Battery Powered Enzymatic Electrosynthesis for Carbon Capture and Generation of Hydrogen and Formate from Dilute Organics. <i>ACS Energy Letters</i> , 2019 , 4, 2929-2936	20.1	14
56	Use of Bioaugmentation for Continuous Removal of Carbon Tetrachloride in Model Aquifer Columns. <i>Environmental Engineering Science</i> , 1999 , 16, 475-485	2	14
55	Characterization of biodegradation of plastics in insect larvae. <i>Methods in Enzymology</i> , 2021 , 648, 95-120	1.7	14
54	Can biotechnology turn the tide on plastics?. <i>Current Opinion in Biotechnology</i> , 2019 , 57, 160-166	11.4	13
53	Progresses in Polystyrene Biodegradation and Prospects for Solutions to Plastic Waste Pollution. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 150, 012005	0.3	13
52	Simple menaquinones reduce carbon tetrachloride and iron (III). <i>Biodegradation</i> , 2009 , 20, 109-16	4.1	12
51	Biocomposite Fiber-Matrix Treatments that Enhance In-Service Performance Can Also Accelerate End-of-Life Fragmentation and Anaerobic Biodegradation to Methane. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 1715-1726	4.5	12
50	Nitrogen removal as nitrous oxide for energy recovery: Increased process stability and high nitrous yields at short hydraulic residence times. <i>Water Research</i> , 2020 , 173, 115575	12.5	11
49	Gene capture and random amplification for quantitative recovery of homologous genes. <i>Molecular and Cellular Probes</i> , 2007 , 21, 140-7	3.3	11

48	Poly(hydroxyalkanoate)s from Waste Biomass: A Combined ChemicalBiological Approach. <i>ChemistrySelect</i> , 2016 , 1, 2327-2331	1.8	11
47	Charge-Free Mixing Entropy Battery Enabled by Low-Cost Electrode Materials. <i>ACS Omega</i> , 2019 , 4, 11785-11790	3.9	9
46	Methodology to assess end-of-life anaerobic biodegradation kinetics and methane production potential for composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 95, 388-399	8.4	9
45	Use of on-site bioreactors to estimate the biotransformation rate of N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) during activated sludge treatment. <i>Chemosphere</i> , 2013 , 92, 702-7	8.4	9
44	An integrated planning tool for design of recycled water distribution networks. <i>Environmental Modelling and Software</i> , 2016 , 84, 311-325	5.2	8
43	Surge block method for controlling well clogging and sampling sediment during bioremediation. <i>Water Research</i> , 2013 , 47, 6566-73	12.5	8
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