

Craig Criddle

List of Publications by Year in Descending Order

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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
citations

61
h-index

113
g-index

199
ext. papers

15,182
ext. citations

8.5
avg, IF

6.43
L-index

#	Paper	IF	Citations
191	SARS-CoV-2 RNA is enriched by orders of magnitude in primary settled solids relative to liquid wastewater at publicly owned treatment works.. <i>Environmental Science: Water Research and Technology</i> , 2022 , 8, 757-770	4.2	5
190	Phylogenetic diversity of NO reductases, new tools for nor monitoring, and insights into N2O production in natural and engineered environments. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16, 1	5.8	1
189	Microbes and Climate Change: a Research Prospectus for the Future.. <i>MBio</i> , 2022 , e0080022	7.8	6
188	The effects of particle clustering on hindered settling in high-concentration particle suspensions. <i>Journal of Fluid Mechanics</i> , 2021 , 920,	3.7	4
187	Optimizing Nitrogen Fixation and Recycling for Food Production in Regenerative Life Support Systems. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	1
186	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 ^{103, 23}	10.3	23
185	More than a fertilizer: wastewater-derived struvite as a high value, sustainable fire retardant. <i>Green Chemistry</i> , 2021 , 23, 4510-4523	10	5
184	Towards a Biomanufactory on Mars. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	3
183	Comparison of the properties of segregated layers in a bidispersed fluidized bed to those of a monodispersed fluidized bed. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	2
182	Competing flow and collision effects in a monodispersed liquid-solid fluidized bed at a moderate Archimedes number. <i>Journal of Fluid Mechanics</i> , 2021 , 927,	3.7	2
181	Temperate climate energy-positive anaerobic secondary treatment of domestic wastewater at pilot-scale. <i>Water Research</i> , 2021 , 204, 117598	12.5	3
180	Anaerobic membrane bioreactor model for design and prediction of domestic wastewater treatment process performance. <i>Chemical Engineering Journal</i> , 2021 , 426, 131912	14.7	3
179	Optimization of reverse osmosis operational conditions to maximize ammonia removal from the effluent of an anaerobic membrane bioreactor. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 739-747	4.2	7
178	Characterization of biodegradation of plastics in insect larvae. <i>Methods in Enzymology</i> , 2021 , 648, 95-120 ^{1.7}	1.7	14
177	Robust Nitrification of Anaerobic Digester Centrate Using Dual Stressors and Timed Alkali Additions. <i>Environmental Science & Technology</i> , 2021 , 55, 2016-2026	10.3	3
176	Reply to Santib̄ et al.: Viscoelastic retardant fluids enable treatments to prevent wildfire on landscapes subject to routine ignitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 5105-5106	11.5	
175	Membrane and Fluid Contactors for Safe and Efficient Methane Delivery in Methanotrophic Bioreactors. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 03120006	2	6

174	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
173	Retrospective on microbial transformations of halogenated organics. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 512-517	4.3	5
172	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
171	Harnessing salinity gradient energy in coastal stormwater runoff to reduce pathogen loading. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 1553-1558	4.2	
170	Metabolic model of nitrite reduction to nitrous oxide coupled to alternating consumption and storage of glycogen and polyhydroxyalkanoate. <i>Bioresource Technology Reports</i> , 2020 , 9, 100370	4.1	2
169	Biodegradation of Polyvinyl Chloride (PVC) in <i>Tenebrio molitor</i> (Coleoptera: Tenebrionidae) larvae. <i>Environment International</i> , 2020 , 145, 106106	12.9	48
168	Impacts of nitrogen-containing coagulants on the nitrification/denitrification of anaerobic digester centrate. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 3451-3459	4.2	5
167	In Vivo Polymerization ("Hard-Wiring") of Bioanodes Enables Rapid Start-Up and Order-of-Magnitude Higher Power Density in a Microbial Battery. <i>Environmental Science & Technology</i> , 2020 , 54, 14732-14739	10.3	3
166	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
165	Community members in activated sludge as determined by molecular probe technology. <i>Water Research</i> , 2020 , 168, 115104	12.5	4
164	Complex organic particulate artificial sewage (COPAS) as surrogate wastewater in anaerobic assays. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1661-1671	4.2	1
163	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
162	Uranium sequestration in sediment at an iron-rich contaminated site at Oak Ridge, Tennessee via. bioreduction followed by reoxidation. <i>Journal of Environmental Sciences</i> , 2019 , 85, 156-167	6.4	3
161	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
160	Can biotechnology turn the tide on plastics?. <i>Current Opinion in Biotechnology</i> , 2019 , 57, 160-166	11.4	13
159	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019 , 4, 1183-1195	26.6	248
158	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
157	Charge-Free Mixing Entropy Battery Enabled by Low-Cost Electrode Materials. <i>ACS Omega</i> , 2019 , 4, 11785-11790	3.5	11790

156	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
155	Niche Differentiation among Three Closely Related Clades at a Full-Scale Activated Sludge Wastewater Treatment Plant and Putative Linkages to Process Performance. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	4
154	Engineering the Dark Food Chain. <i>Environmental Science & Technology</i> , 2019 , 53, 2273-2287	10.3	16
153	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
152	Decision support toolkit for integrated analysis and design of reclaimed water infrastructure. <i>Water Research</i> , 2018 , 134, 234-252	12.5	14
151	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
150	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
149	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
148	Biodegradation of Polyethylene and Plastic Mixtures in Mealworms (Larvae of <i>Tenebrio molitor</i>) and Effects on the Gut Microbiome. <i>Environmental Science & Technology</i> , 2018 , 52, 6526-6533	10.3	155
147	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
146	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
145	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
144	Microplastics pollution and reduction strategies. <i>Frontiers of Environmental Science and Engineering</i> , 2017 , 11, 1	5.8	103
143	Assessment of models for anaerobic biodegradation of a model bioplastic: Poly(hydroxybutyrate-co-hydroxyvalerate). <i>Bioresource Technology</i> , 2017 , 227, 205-213	11	21
142	Use of an intermediate solid-state electrode to enable efficient hydrogen production from dilute organic matter. <i>Nano Energy</i> , 2017 , 39, 499-505	17.1	6
141	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
140	A proposed nomenclature for biological processes that remove nitrogen. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 10-17	4.2	18
139	An integrated planning tool for design of recycled water distribution networks. <i>Environmental Modelling and Software</i> , 2016 , 84, 311-325	5.2	8

138	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
137	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
136	Poly(hydroxyalkanoate)s from Waste Biomass: A Combined ChemicalBiological Approach. <i>ChemistrySelect</i> , 2016 , 1, 2327-2331	1.8	11
135	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
134	Design and fabrication of bioelectrodes for microbial bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2015 , 8, 3418-3441	35.4	185
133	Production of Nitrous Oxide from Nitrite in Stable Type II Methanotrophic Enrichments. <i>Environmental Science & Technology</i> , 2015 , 49, 10969-75	10.3	36
132	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
131	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
130	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
129	High-Quality Draft Genome Sequence of <i>Desulfovibrio carbinolophilus</i> FW-101-2B, an Organic Acid-Oxidizing Sulfate-Reducing Bacterium Isolated from Uranium(VI)-Contaminated Groundwater. <i>Genome Announcements</i> , 2015 , 3,		1
128	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
127	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
126	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
125	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
124	Disassembly and reassembly of polyhydroxyalkanoates: recycling through abiotic depolymerization and biotic repolymerization. <i>Bioresource Technology</i> , 2014 , 170, 167-174	11	27
123	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
122	Sidestream Treatment with Energy Recovery from Nitrogen Waste: The Coupled Aerobic-anoxic Nitrous Decomposition Operation (CANDO). <i>Proceedings of the Water Environment Federation</i> , 2014 , 2014, 1114-1125		2
121	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

120	Adaptation of nitrifying microbial biomass to nickel in batch incubations. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 847-57	5.7	7
119	Surge block method for controlling well clogging and sampling sediment during bioremediation. <i>Water Research</i> , 2013 , 47, 6566-73	12.5	8
118	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
117	Nitrogen removal with energy recovery through N ₂ O decomposition. <i>Energy and Environmental Science</i> , 2013 , 6, 241-248	35.4	89
116	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
115	Bioaugmentation with <i>Pseudomonas Stutzeri</i> KC for Carbon Tetrachloride Remediation 2013 , 257-288		
114	Magnetically ultrasensitive nanoscavengers for next-generation water purification systems. <i>Nature Communications</i> , 2013 , 4, 1866	17.4	67
113	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
112	Assessing the scale of resource recovery for centralized and satellite wastewater treatment. <i>Environmental Science & Technology</i> , 2013 , 47, 10762-70	10.3	34
111	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
110	Cyclic, alternating methane and nitrogen limitation increases PHB production in a methanotrophic community. <i>Bioresource Technology</i> , 2012 , 107, 385-92	11	41
109	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 5265-5270	35.4	255
108	Graphene sponges as high-performance low-cost anodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6862	35.4	239
107	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
106	Chemical and Biological Processes: The Need for Mixing. <i>SERDP and ESTCP Remediation Technology Monograph Series</i> , 2012 , 7-52		3
105	Three-dimensional carbon nanotube-textile anode for high-performance microbial fuel cells. <i>Nano Letters</i> , 2011 , 11, 291-6	11.5	350
104	Reduction of uranium(VI) by soluble iron(II) conforms with thermodynamic predictions. <i>Environmental Science & Technology</i> , 2011 , 45, 4718-25	10.3	60
103	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

102	Estimating reaction rate coefficients within a travel-time modeling framework. <i>Ground Water</i> , 2011 , 49, 209-18	2.4	6
101	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
100	Distribution and selection of poly-3-hydroxybutyrate production capacity in methanotrophic proteobacteria. <i>Microbial Ecology</i> , 2011 , 62, 564-73	4.4	96
99	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1293	35.4	67
98	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
97	Dynamics of Microbial Community Composition and Function during In Situ Bioremediation of a Uranium-Contaminated Aquifer. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5063-5063	4.8	4
96	A limited microbial consortium is responsible for extended bioreduction of uranium in a contaminated aquifer. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5955-65	4.8	81
95	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
94	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
93	Responses of microbial community functional structures to pilot-scale uranium in situ bioremediation. <i>ISME Journal</i> , 2010 , 4, 1060-70	11.9	89
92	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
91	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
90	Effects of nitrate on the stability of uranium in a bioreduced region of the subsurface. <i>Environmental Science & Technology</i> , 2010 , 44, 5104-11	10.3	84
89	Uranium transformations in static microcosms. <i>Environmental Science & Technology</i> , 2010 , 44, 236-42	10.3	42
88	Effect of solution chemistry on the adsorption of perfluorooctane sulfonate onto mineral surfaces. <i>Water Research</i> , 2010 , 44, 2654-62	12.5	147
87	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
86	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
85	Estimating kinetic mass transfer by resting-period measurements in flow-interruption tracer tests. <i>Journal of Contaminant Hydrology</i> , 2010 , 117, 37-45	3.9	3

84	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
83	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
82	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
81	Simple menaquinones reduce carbon tetrachloride and iron (III). <i>Biodegradation</i> , 2009 , 20, 109-16	4.1	12
80	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
79	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
78	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
77	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
76	Uranium reduction and resistance to reoxidation under iron-reducing and sulfate-reducing conditions. <i>Water Research</i> , 2009 , 43, 4652-64	12.5	25
75	Estimating first-order reaction rate coefficient for transport with nonequilibrium linear mass transfer in heterogeneous media. <i>Journal of Contaminant Hydrology</i> , 2008 , 98, 50-60	3.9	6
74	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
73	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
72	Speciation of uranium in sediments before and after in situ biostimulation. <i>Environmental Science & Technology</i> , 2008 , 42, 1558-64	10.3	103
71	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
70	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
69	Inhibition of a U(VI)- and sulfate-reducing consortia by U(VI). <i>Environmental Science & Technology</i> , 2007 , 41, 6528-33	10.3	18
68	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
67	Hydraulic performance analysis of a multiple injection-extraction well system. <i>Journal of Hydrology</i> , 2007 , 336, 294-302	6	25

66	GeoChip: a comprehensive microarray for investigating biogeochemical, ecological and environmental processes. <i>ISME Journal</i> , 2007 , 1, 67-77	11.9	484
65	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
64	Modeling in-situ uranium(VI) bioreduction by sulfate-reducing bacteria. <i>Journal of Contaminant Hydrology</i> , 2007 , 92, 129-48	3.9	49
63	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
62	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
61	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
60	Sulfate Requirement for the Growth of U(VI)-Reducing Bacteria in an Ethanol-Fed Enrichment. <i>Bioremediation Journal</i> , 2007 , 11, 21-32	2.3	8
59	Gene capture and random amplification for quantitative recovery of homologous genes. <i>Molecular and Cellular Probes</i> , 2007 , 21, 140-7	3.3	11
58	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
57	Stability in a denitrifying fluidized bed reactor. <i>Microbial Ecology</i> , 2006 , 52, 311-21	4.4	32
56	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
55	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
54	Occurrence of ammonia-oxidizing archaea in wastewater treatment plant bioreactors. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5643-7	4.8	312
53	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
52	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
51	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
50	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
49	A nested-cell approach for in situ remediation. <i>Ground Water</i> , 2006 , 44, 266-74	2.4	49

48	Heterogeneous response to biostimulation for U(VI) reduction in replicated sediment microcosms. <i>Biodegradation</i> , 2006 , 17, 303-16	4.1	50
47	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
46	Uranium (VI) Reduction by Denitrifying Biomass. <i>Bioremediation Journal</i> , 2005 , 9, 49-61	2.3	20
45	Mass-transfer limitations for nitrate removal in a uranium-contaminated aquifer. <i>Environmental Science & Technology</i> , 2005 , 39, 8453-9	10.3	34
44	Quantitative determination of perfluorochemicals in sediments and domestic sludge. <i>Environmental Science & Technology</i> , 2005 , 39, 3946-56	10.3	433
43	Bioreduction of uranium in a contaminated soil column. <i>Environmental Science & Technology</i> , 2005 , 39, 4841-7	10.3	122
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41	Global transcriptional profiling of <i>Shewanella oneidensis</i> MR-1 during Cr(VI) and U(VI) reduction. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7453-60	4.8	114
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37	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
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35	Biocurtain Design Using Reactive Transport Models. <i>Ground Water Monitoring and Remediation</i> , 2002 , 22, 113-123	1.4	3
34	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
33	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
32	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
31	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

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28	How stable is stable? Function versus community composition. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 3697-704	4.8	408
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26	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
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21	Effects of a long-term periodic substrate perturbation on an anaerobic community. <i>Water Research</i> , 1997 , 31, 2195-2204	12.5	44
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19	Bench-Scale Evaluation of Bioaugmentation to Remediate Carbon Tetrachloride-Contaminated Aquifer Materials. <i>Ground Water</i> , 1996 , 34, 358-367	2.4	27
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17	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
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2	Towards a Biomanufactory on Mars		4
1	Ethane-dependent synthesis of polyhydroxyalkanoates by the obligate methanotroph <i>Methylocystis parvus</i> OBBP		1