

# Kenneth H Williams

## List of Publications by Citations

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156  
papers

8,319  
citations

48  
h-index

87  
g-index

163  
ext. papers

10,566  
ext. citations

7.3  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
156	Unusual biology across a group comprising more than 15% of domain Bacteria. <i>Nature</i> , <b>2015</b> , 523, 208-115	10.4	688
155	Thousands of microbial genomes shed light on interconnected biogeochemical processes in an aquifer system. <i>Nature Communications</i> , <b>2016</b> , 7, 13219	17.4	589
154	Fermentation, hydrogen, and sulfur metabolism in multiple uncultivated bacterial phyla. <i>Science</i> , <b>2012</b> , 337, 1661-5	33.3	464
153	Genomic expansion of domain archaea highlights roles for organisms from new phyla in anaerobic carbon cycling. <i>Current Biology</i> , <b>2015</b> , 25, 690-701	6.3	354
152	Community genomic analyses constrain the distribution of metabolic traits across the Chloroflexi phylum and indicate roles in sediment carbon cycling. <i>Microbiome</i> , <b>2013</b> , 1, 22	16.6	305
151	Diverse uncultivated ultra-small bacterial cells in groundwater. <i>Nature Communications</i> , <b>2015</b> , 6, 6372	17.4	232
150	Acetate Availability and its Influence on Sustainable Bioremediation of Uranium-Contaminated Groundwater. <i>Geomicrobiology Journal</i> , <b>2011</b> , 28, 519-539	2.5	201
149	An overview of the spectral induced polarization method for near-surface applications. <i>Near Surface Geophysics</i> , <b>2012</b> , 10, 453-468	1.6	167
148	Extraordinary phylogenetic diversity and metabolic versatility in aquifer sediment. <i>Nature Communications</i> , <b>2013</b> , 4, 2120	17.4	145
147	Hydrogeological characterization of the south oyster bacterial transport site using geophysical data. <i>Water Resources Research</i> , <b>2001</b> , 37, 2431-2456	5.4	142
146	Uranium redox transition pathways in acetate-amended sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4506-4511	11.5	138
145	Metabolic interdependencies between phylogenetically novel fermenters and respiratory organisms in an unconfined aquifer. <i>ISME Journal</i> , <b>2014</b> , 8, 1452-63	11.9	131
144	Thermodynamically controlled preservation of organic carbon in floodplains. <i>Nature Geoscience</i> , <b>2017</b> , 10, 415-419	18.3	129
143	Imaging hydrated microbial extracellular polymers: comparative analysis by electron microscopy. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 1254-62	4.8	127
142	Proteogenomic monitoring of <i>Geobacter</i> physiology during stimulated uranium bioremediation. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 6591-9	4.8	116
141	Critical biogeochemical functions in the subsurface are associated with bacteria from new phyla and little studied lineages. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 159-73	5.2	111
140	Geophysical imaging of stimulated microbial biomineralization. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 7592-600	10.3	108

139	Geophysical monitoring of coupled microbial and geochemical processes during stimulated subsurface bioremediation. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6717-23	10.3	107
138	Persistence of uranium groundwater plumes: contrasting mechanisms at two DOE sites in the groundwater-river interaction zone. <i>Journal of Contaminant Hydrology</i> , <b>2013</b> , 147, 45-72	3.9	102
137	Bioremediation of uranium-contaminated groundwater: a systems approach to subsurface biogeochemistry. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 489-97	11.4	100
136	Geochemical, mineralogical and microbiological characteristics of sediment from a naturally reduced zone in a uranium-contaminated aquifer. <i>Applied Geochemistry</i> , <b>2012</b> , 27, 1499-1511	3.5	99
135	Accurate, multi-kb reads resolve complex populations and detect rare microorganisms. <i>Genome Research</i> , <b>2015</b> , 25, 534-43	9.7	96
134	Mineral transformation and biomass accumulation associated with uranium bioremediation at Rifle, Colorado. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 5429-35	10.3	89
133	Variably saturated flow and multicomponent biogeochemical reactive transport modeling of a uranium bioremediation field experiment. <i>Journal of Contaminant Hydrology</i> , <b>2011</b> , 126, 271-90	3.9	82
132	Uranium <sup>238</sup> U/ <sup>235</sup> U isotope ratios as indicators of reduction: results from an in situ biostimulation experiment at Rifle, Colorado, U.S.A. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 5927-33	10.3	81
131	Electrode-based approach for monitoring in situ microbial activity during subsurface bioremediation. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 47-54	10.3	80
130	Biostimulation induces syntrophic interactions that impact C, S and N cycling in a sediment microbial community. <i>ISME Journal</i> , <b>2013</b> , 7, 800-16	11.9	78
129	In situ long-term reductive bioimmobilization of Cr(VI) in groundwater using hydrogen release compound. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8478-85	10.3	78
128	Low-frequency electrical response to microbial induced sulfide precipitation. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110, n/a-n/a		75
127	Influence of heterogeneous ammonium availability on bacterial community structure and the expression of nitrogen fixation and ammonium transporter genes during in situ bioremediation of uranium-contaminated groundwater. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4386-92	10.3	73
126	Methods for characterizing the fate and effects of nano zerovalent iron during groundwater remediation. <i>Journal of Contaminant Hydrology</i> , <b>2015</b> , 181, 17-35	3.9	71
125	Metatranscriptomic evidence of pervasive and diverse chemolithoautotrophy relevant to C, S, N and Fe cycling in a shallow alluvial aquifer. <i>ISME Journal</i> , <b>2016</b> , 10, 2106-17	11.9	71
124	Using complex resistivity imaging to infer biogeochemical processes associated with bioremediation of an uranium-contaminated aquifer. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		67
123	RubisCO of a nucleoside pathway known from Archaea is found in diverse uncultivated phyla in bacteria. <i>ISME Journal</i> , <b>2016</b> , 10, 2702-2714	11.9	65
122	Aquifer environment selects for microbial species cohorts in sediment and groundwater. <i>ISME Journal</i> , <b>2015</b> , 9, 1846-56	11.9	63

121	Snowmelt controls on concentration-discharge relationships and the balance of oxidative and acid-base weathering fluxes in an alpine catchment, East River, Colorado. <i>Water Resources Research</i> , <b>2017</b> , 53, 2507-2523	5.4	62
120	Water Table Dynamics and Biogeochemical Cycling in a Shallow, Variably-Saturated Floodplain. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 3307-3317	10.3	62
119	Characterization and transcription of arsenic respiration and resistance genes during in situ uranium bioremediation. <i>ISME Journal</i> , <b>2013</b> , 7, 370-83	11.9	62
118	Physico-Chemical Heterogeneity of Organic-Rich Sediments in the Rifle Aquifer, CO: Impact on Uranium Biogeochemistry. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 46-53	10.3	61
117	Distinct Source Water Chemistry Shapes Contrasting Concentration-Discharge Patterns. <i>Water Resources Research</i> , <b>2019</b> , 55, 4233-4251	5.4	58
116	Vanadate and acetate biostimulation of contaminated sediments decreases diversity, selects for specific taxa, and decreases aqueous V <sup>5+</sup> concentration. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 6500-9	10.3	58
115	Influence of hydrological, biogeochemical and temperature transients on subsurface carbon fluxes in a flood plain environment. <i>Biogeochemistry</i> , <b>2016</b> , 127, 367-396	3.8	57
114	Timing the onset of sulfate reduction over multiple subsurface acetate amendments by measurement and modeling of sulfur isotope fractionation. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 8895-902	10.3	57
113	Unusual respiratory capacity and nitrogen metabolism in a Paracubacterium (OD1) of the Candidate Phyla Radiation. <i>Scientific Reports</i> , <b>2017</b> , 7, 40101	4.9	56
112	Iron-reducing bacteria accumulate ferric oxyhydroxide nanoparticle aggregates that may support planktonic growth. <i>ISME Journal</i> , <b>2013</b> , 7, 338-50	11.9	56
111	The complete genome sequence for putative H <sub>2</sub> and S-oxidizer Candidatus Sulfuricurvum sp., assembled de novo from an aquifer-derived metagenome. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 3443-62	5.2	51
110	Calcium isotope fractionation in groundwater: Molecular scale processes influencing field scale behavior. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 119, 93-116	5.5	50
109	Analysis of biostimulated microbial communities from two field experiments reveals temporal and spatial differences in proteome profiles. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 8897-903	10.3	49
108	Thioarsenic species associated with increased arsenic release during biostimulated subsurface sulfate reduction. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13367-75	10.3	47
107	Molecular analysis of phosphate limitation in Geobacteraceae during the bioremediation of a uranium-contaminated aquifer. <i>ISME Journal</i> , <b>2010</b> , 4, 253-66	11.9	46
106	Field evidence of selenium bioreduction in a uranium-contaminated aquifer. <i>Environmental Microbiology Reports</i> , <b>2013</b> , 5, 444-52	3.7	45
105	Bicarbonate impact on U(VI) bioreduction in a shallow alluvial aquifer. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 150, 106-124	5.5	44
104	Geophysical monitoring and reactive transport modeling of ureolytically-driven calcium carbonate precipitation. <i>Geochemical Transactions</i> , <b>2011</b> , 12, 7	3	43

103	Speciation and reactivity of uranium products formed during in situ bioremediation in a shallow alluvial aquifer. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12842-50	10.3	42
102	High-density PhyloChip profiling of stimulated aquifer microbial communities reveals a complex response to acetate amendment. <i>FEMS Microbiology Ecology</i> , <b>2012</b> , 81, 188-204	4.3	42
101	Geochemical Exports to River From the Intrameander Hyporheic Zone Under Transient Hydrologic Conditions: East River Mountainous Watershed, Colorado. <i>Water Resources Research</i> , <b>2018</b> , 54, 8456-8477	5.4	41
100	Rate-limited U(VI) desorption during a small-scale tracer test in a heterogeneous uranium-contaminated aquifer. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	40
99	No measurable changes in (238)U/(235)U due to desorption-adsorption of U(VI) from groundwater at the Rifle, Colorado, integrated field research challenge site. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2535-41	10.3	40
98	Time-lapse spectral induced polarization imaging of stimulated uranium bioremediation. <i>Near Surface Geophysics</i> , <b>2013</b> , 11, 531-544	1.6	40
97	Geophysical monitoring of hydrological and biogeochemical transformations associated with Cr(VI) bioremediation. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 3757-65	10.3	40
96	The Importance of Interflow to Groundwater Recharge in a Snowmelt-Dominated Headwater Basin. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5899-5908	4.9	39
95	Uranium bioreduction rates across scales: biogeochemical hot moments and hot spots during a biostimulation experiment at Rifle, Colorado. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 10116-10127	10.3	39
94	Production of Hydrogen Peroxide in Groundwater at Rifle, Colorado. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7881-7891	10.3	36
93	Development of a biomarker for Geobacter activity and strain composition; proteogenomic analysis of the citrate synthase protein during bioremediation of U(VI). <i>Microbial Biotechnology</i> , <b>2011</b> , 4, 55-63	6.3	36
92	Geochemical and mineralogical investigation of uranium in multi-element contaminated, organic-rich subsurface sediment. <i>Applied Geochemistry</i> , <b>2014</b> , 42, 77-85	3.5	35
91	Abiotic U(VI) reduction by sorbed Fe(II) on natural sediments. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 117, 266-282	5.5	34
90	3D induced-polarization data inversion for complex resistivity. <i>Geophysics</i> , <b>2011</b> , 76, F157-F171	3.1	34
89	Molecular analysis of the metabolic rates of discrete subsurface populations of sulfate reducers. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 6502-9	4.8	33
88	Seasonal hyporheic dynamics control coupled microbiology and geochemistry in Colorado River sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 2976-2987	3.7	32
87	Molecular analysis of the in situ growth rates of subsurface Geobacter species. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 1646-53	4.8	32
86	Feedbacks between hydrological heterogeneity and bioremediation induced biogeochemical transformations. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 5197-204	10.3	31

85	Analysis of five complete genome sequences for members of the class Peribacteria in the recently recognized Peregrinibacteria bacterial phylum. <i>PeerJ</i> , <b>2016</b> , 4, e1607	3.1	31
84	Enrichment of specific protozoan populations during in situ bioremediation of uranium-contaminated groundwater. <i>ISME Journal</i> , <b>2013</b> , 7, 1286-98	11.9	29
83	Disturbed subsurface microbial communities follow equivalent trajectories despite different structural starting points. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 622-36	5.2	28
82	Phase preference by active, acetate-utilizing bacteria at the rifle, CO integrated field research challenge site. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1250-6	10.3	28
81	Hierarchical Bayesian method for mapping biogeochemical hot spots using induced polarization imaging. <i>Water Resources Research</i> , <b>2016</b> , 52, 533-551	5.4	28
80	On the complex conductivity signatures of calcite precipitation. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		26
79	Field-based detection and monitoring of uranium in contaminated groundwater using two immunosensors. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6703-9	10.3	26
78	Arsenic geochemistry in a biostimulated aquifer: an aqueous speciation study. <i>Environmental Toxicology and Chemistry</i> , <b>2013</b> , 32, 1216-23	3.8	23
77	Evidence of Geobacter-associated phage in a uranium-contaminated aquifer. <i>ISME Journal</i> , <b>2015</b> , 9, 333-46.9	4.9	22
76	Uranium reduction and microbial community development in response to stimulation with different electron donors. <i>Biodegradation</i> , <b>2012</b> , 23, 535-46	4.1	22
75	Microbial Metagenomics Reveals Climate-Relevant Subsurface Biogeochemical Processes. <i>Trends in Microbiology</i> , <b>2016</b> , 24, 600-610	12.4	22
74	Long-term in situ oxidation of biogenic uraninite in an alluvial aquifer: impact of dissolved oxygen and calcium. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 7340-7	10.3	21
73	Contrasting the hydrologic response due to land cover and climate change in a mountain headwaters system. <i>Ecohydrology</i> , <b>2016</b> , 9, 1431-1438	2.5	21
72	Iron and Carbon Dynamics during Aging and Reductive Transformation of Biogenic Ferrihydrite. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 25-35	10.3	21
71	Redox Controls over the Stability of U(IV) in Floodplains of the Upper Colorado River Basin. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 10954-10964	10.3	21
70	Estimating the spatiotemporal distribution of geochemical parameters associated with biostimulation using spectral induced polarization data and hierarchical Bayesian models. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	21
69	Composition, stability, and measurement of reduced uranium phases for groundwater bioremediation at Old Rifle, CO. <i>Applied Geochemistry</i> , <b>2011</b> , 26, S167-S169	3.5	21
68	Identifying geochemical hot moments and their controls on a contaminated river floodplain system using wavelet and entropy approaches. <i>Environmental Modelling and Software</i> , <b>2016</b> , 85, 27-41	5.2	21

67	Methane production from protozoan endosymbionts following stimulation of microbial metabolism within subsurface sediments. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 366	5.7	20
66	Sulfur isotopes as indicators of amended bacterial sulfate reduction processes influencing field scale uranium bioremediation. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7842-9	10.3	20
65	Abundance and Distribution of Microbial Cells and Viruses in an Alluvial Aquifer. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1199	5.7	19
64	Spectral induced polarization signatures of abiotic FeS precipitation. <i>Geophysics</i> , <b>2010</b> , 75, F127-F133	3.1	19
63	Potential for Methanosarcina to Contribute to Uranium Reduction during Acetate-Promoted Groundwater Bioremediation. <i>Microbial Ecology</i> , <b>2018</b> , 76, 660-667	4.4	18
62	Deep Vadose Zone Respiration Contributions to Carbon Dioxide Fluxes from a Semiarid Floodplain. <i>Vadose Zone Journal</i> , <b>2016</b> , 15, 1-14	2.7	18
61	Correlative Cryogenic Spectromicroscopy to Investigate Selenium Bioreduction Products. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 503-512	10.3	17
60	Reactive transport of uranium in a groundwater bioreduction study: Insights from high-temporal resolution 238U/235U data. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 187, 218-236	5.5	17
59	Oxidative Uranium Release from Anoxic Sediments under Diffusion-Limited Conditions. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11039-11047	10.3	17
58	On parameterization of the inverse problem for estimating aquifer properties using tracer data. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	17
57	A state-space Bayesian framework for estimating biogeochemical transformations using time-lapse geophysical data. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	17
56	Transport and humification of dissolved organic matter within a semi-arid floodplain. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 57, 24-32	6.4	16
55	Spatial distribution of an uranium-respiring betaproteobacterium at the Rifle, CO field research site. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123378	3.7	16
54	Reactivity of Uranium and Ferrous Iron with Natural Iron Oxyhydroxides. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10357-65	10.3	15
53	Expression of acetate permease-like (apl ) genes in subsurface communities of Geobacter species under fluctuating acetate concentrations. <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 73, 441-9	4.3	15
52	Fluctuations in species-level protein expression occur during element and nutrient cycling in the subsurface. <i>PLoS ONE</i> , <b>2013</b> , 8, e57819	3.7	15
51	Investigating Microtopographic and Soil Controls on a Mountainous Meadow Plant Community Using High-Resolution Remote Sensing and Surface Geophysical Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 1618-1636	3.7	14
50	A large column analog experiment of stable isotope variations during reactive transport: II. Carbon mass balance, microbial community structure and predation. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 124, 394-409	5.5	14

49	Galvanic interpretation of self-potential signals associated with microbial sulfate-reduction. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		14
48	Integrating airborne remote sensing and field campaigns for ecology and Earth system science. <i>Methods in Ecology and Evolution</i> , <b>2020</b> , 11, 1492-1508	7.7	14
47	Quantifying shallow subsurface water and heat dynamics using coupled hydrological-thermal-geophysical inversion. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 3477-3491	5.5	14
46	Decay curve analysis for data error quantification in time-domain induced polarization imaging. <i>Geophysics</i> , <b>2018</b> , 83, E75-E86	3.1	14
45	Return flows from beaver ponds enhance floodplain-to-river metals exchange in alluvial mountain catchments. <i>Science of the Total Environment</i> , <b>2019</b> , 685, 357-369	10.2	13
44	Microbial communities across a hillslope-riparian transect shaped by proximity to the stream, groundwater table, and weathered bedrock. <i>Ecology and Evolution</i> , <b>2019</b> , 9, 6869-6900	2.8	13
43	Field Application of U/U Measurements To Detect Reoxidation and Mobilization of U(IV). <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 3422-3430	10.3	13
42	Depth- and Time-Resolved Distributions of Snowmelt-Driven Hillslope Subsurface Flow and Transport and Their Contributions to Surface Waters. <i>Water Resources Research</i> , <b>2019</b> , 55, 9474-9499	5.4	13
41	The Snowmelt Niche Differentiates Three Microbial Life Strategies That Influence Soil Nitrogen Availability During and After Winter. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 871	5.7	12
40	Profiling in situ microbial community structure with an amplification microarray. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 799-807	4.8	12
39	Electrode voltages in the presence of dissolved sulfide: Implications for monitoring natural microbial activity. <i>Geophysics</i> , <b>2008</b> , 73, F65-F70	3.1	12
38	Heterogeneity in Hyporheic Flow, Pore Water Chemistry, and Microbial Community Composition in an Alpine Streambed. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 3465-3478	3.7	11
37	Anoxia stimulates microbially catalyzed metal release from Animas River sediments. <i>Environmental Sciences: Processes and Impacts</i> , <b>2017</b> , 19, 578-585	4.3	10
36	Streamflow partitioning and transit time distribution in snow-dominated basins as a function of climate. <i>Journal of Hydrology</i> , <b>2019</b> , 570, 726-738	6	10
35	Hyporheic Zone Microbiome Assembly Is Linked to Dynamic Water Mixing Patterns in Snowmelt-Dominated Headwater Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 3269-3280	3.7	10
34	Metatranscriptomic Analysis Reveals Unexpectedly Diverse Microbial Metabolism in a Biogeochemical Hot Spot in an Alluvial Aquifer. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 40	5.7	10
33	Data-driven approach to identify field-scale biogeochemical transitions using geochemical and geophysical data and hidden Markov models: Development and application at a uranium-contaminated aquifer. <i>Water Resources Research</i> , <b>2013</b> , 49, 6412-6424	5.4	10
32	Deep Unsaturated Zone Contributions to Carbon Cycling in Semiarid Environments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 3045-3054	3.7	10



31	Persistence and Plasticity in Conifer Water-Use Strategies. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2018JG004845	3.7	9
30	Hysteresis Patterns of Watershed Nitrogen Retention and Loss Over the Past 50 years in United States Hydrological Basins. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006777	5.9	9
29	. <i>IEEE Access</i> , <b>2019</b> , 7, 182796-182813	3.5	9
28	Using geochemical indicators to distinguish high biogeochemical activity in floodplain soils and sediments. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 386-95	10.2	8
27	From Grain to Floodplain: Evaluating heterogeneity of floodplain hydrostratigraphy using sedimentology, geophysics, and remote sensing. <i>Earth Surface Processes and Landforms</i> , <b>2019</b> , 44, 1799	3.7	6
26	Electrode voltages accompanying stimulated bioremediation of a uranium-contaminated aquifer. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		6
25	Bedrock weathering contributes to subsurface reactive nitrogen and nitrous oxide emissions. <i>Nature Geoscience</i> , <b>2021</b> , 14, 217-224	18.3	6
24	Isotopic Fingerprint of Uranium Accumulation and Redox Cycling in Floodplains of the Upper Colorado River Basin. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3399-3409	10.3	6
23	Uranium Retention in a Bioreduced Region of an Alluvial Aquifer Induced by the Influx of Dissolved Oxygen. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 8133-8145	10.3	5
22	Resolution matters when modeling climate change in headwaters of the Colorado River. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 104031	6.2	5
21	Influence of Carbon and Microbial Community Priming on the Attenuation of Uranium in a Contaminated Floodplain Aquifer. <i>Ground Water</i> , <b>2015</b> , 53, 600-13	2.4	4
20	Efficiency of the Summer Monsoon in Generating Streamflow Within a Snow-Dominated Headwater Basin of the Colorado River. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090856	4.9	4
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