

Mark E Conrad

List of Publications by Year in descending order

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102
papers

6,075
citations

71102

41
h-index

74163

75
g-index

104
all docs

104
docs citations

104
times ranked

6652
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep-Sea Oil Plume Enriches Indigenous Oil-Degrading Bacteria. <i>Science</i> , 2010, 330, 204-208.	12.6	1,109
2	Succession of Hydrocarbon-Degrading Bacteria in the Aftermath of the <i>Deepwater Horizon</i> Oil Spill in the Gulf of Mexico. <i>Environmental Science & Technology</i> , 2013, 47, 10860-10867.	10.0	344
3	Deep-sea bacteria enriched by oil and dispersant from the Deepwater Horizon spill. <i>Environmental Microbiology</i> , 2012, 14, 2405-2416.	3.8	275
4	Subsurface flow paths in a steep, unchanneled catchment. <i>Water Resources Research</i> , 1997, 33, 2637-2653.	4.2	233
5	Variable carbon isotope fractionation expressed by aerobic CH ₄ -oxidizing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1739-1752.	3.9	175
6	Identification and characterization of high methane-emitting abandoned oil and gas wells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13636-13641.	7.1	143
7	Stable Carbon Isotope Fractionation during Enhanced In Situ Bioremediation of Trichloroethene. <i>Environmental Science & Technology</i> , 2002, 36, 2262-2268.	10.0	129
8	Oxygen effects on methane production and oxidation in humid tropical forest soils. <i>Global Change Biology</i> , 2005, 11, 1283-1297.	9.5	122
9	Distribution of hydrocarbons released during the 2010 MC252 oil spill in deep offshore waters. <i>Environmental Pollution</i> , 2013, 173, 224-230.	7.5	113
10	Experimental determination of the sources of otolith carbon and associated isotopic fractionation. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 79-89.	1.4	112
11	Incomplete Wood–Ljungdahl pathway facilitates one-carbon metabolism in organohalide-respiring <i>Dehalococcoides mccartyi</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6419-6424.	7.1	104
12	Inhibition of microbial sulfate reduction in a flow-through column system by (per)chlorate treatment. <i>Frontiers in Microbiology</i> , 2014, 5, 315.	3.5	103
13	Modern water/rock reactions in Oman hyperalkaline peridotite aquifers and implications for microbial habitability. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 179, 217-241.	3.9	102
14	Water Table Dynamics and Biogeochemical Cycling in a Shallow, Variably-Saturated Floodplain. <i>Environmental Science & Technology</i> , 2017, 51, 3307-3317.	10.0	100
15	Stable isotope and salinity systematics in estuarine waters and carbonates: San Francisco Bay. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 455-467.	3.9	88
16	Carbon-Isotope, Diatom, and Pollen Evidence for Late Holocene Salinity Change in a Brackish Marsh in the San Francisco Estuary. <i>Quaternary Research</i> , 2001, 55, 66-76.	1.7	88
17	In Situ Long-Term Reductive Bioimmobilization of Cr(VI) in Groundwater Using Hydrogen Release Compound. <i>Environmental Science & Technology</i> , 2008, 42, 8478-8485.	10.0	86
18	Approaches to modeling coupled thermal, hydrological, and chemical processes in the drift scale heater test at Yucca Mountain. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 2005, 42, 698-719.	5.8	82

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19	Influence of hydrological, biogeochemical and temperature transients on subsurface carbon fluxes in a flood plain environment. <i>Biogeochemistry</i> , 2016, 127, 367-396.	3.5	76
20	A 2000 yr record of Sacramento-San Joaquin river inflow to San Francisco Bay estuary, California. <i>Geology</i> , 1996, 24, 331.	4.4	75
21	Combined ^{14}C and ^{13}C Monitoring of in Situ Biodegradation of Petroleum Hydrocarbons. <i>Environmental Science & Technology</i> , 1997, 31, 1463-1469.	10.0	73
22	A large column analog experiment of stable isotope variations during reactive transport: I. A comprehensive model of sulfur cycling and ^{34}S fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 124, 366-393.	3.9	71
23	Control of sulfidogenesis through bio-oxidation of H_2S coupled to (per)chlorate reduction. <i>Environmental Microbiology Reports</i> , 2014, 6, 558-564.	2.4	69
24	Gut anatomical properties and microbial functional assembly promote lignocellulose deconstruction and colony subsistence of a wood-feeding beetle. <i>Nature Microbiology</i> , 2019, 4, 864-875.	13.3	68
25	Timing the Onset of Sulfate Reduction over Multiple Subsurface Acetate Amendments by Measurement and Modeling of Sulfur Isotope Fractionation. <i>Environmental Science & Technology</i> , 2012, 46, 8895-8902.	10.0	66
26	Mechanism of H_2S Oxidation by the Dissimilatory Perchlorate-Reducing Microorganism <i>Azospira suillum</i> PS. <i>MBio</i> , 2017, 8, .	4.1	66
27	Stable Carbon Isotope Fractionation during Aerobic Biodegradation of Chlorinated Ethenes. <i>Environmental Science & Technology</i> , 2004, 38, 3126-3130.	10.0	65
28	Stable Carbon Isotope Fractionation of Chloroethenes by Dehalorespiring Isolates. <i>Environmental Science & Technology</i> , 2007, 41, 4277-4285.	10.0	61
29	Reoxidation of Chromium(III) Products Formed under Different Biogeochemical Regimes. <i>Environmental Science & Technology</i> , 2017, 51, 4918-4927.	10.0	60
30	Streamflow generation from snowmelt in semi-arid, seasonally snow-covered, forested catchments, Valles Caldera, New Mexico. <i>Water Resources Research</i> , 2008, 44, .	4.2	56
31	Field Evidence for Co-Metabolism of Trichloroethene Stimulated by Addition of Electron Donor to Groundwater. <i>Environmental Science & Technology</i> , 2010, 44, 4697-4704.	10.0	55
32	Oxygen Isotope Zoning in Garnet. <i>Science</i> , 1991, 254, 403-406.	12.6	54
33	Stable isotope record of late Holocene salinity and river discharge in San Francisco Bay, California. <i>Earth and Planetary Science Letters</i> , 1996, 141, 237-247.	4.4	52
34	Microbial community response to addition of polylactate compounds to stimulate hexavalent chromium reduction in groundwater. <i>Chemosphere</i> , 2011, 85, 660-665.	8.2	50
35	Oxygen-isotope zoning in garnet: A record of volatile transport. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2613-2629.	3.9	47
36	Identifying the Sources of Subsurface Contamination at the Hanford Site in Washington using High-Precision Uranium Isotopic Measurements. <i>Environmental Science & Technology</i> , 2004, 38, 3330-3337.	10.0	46

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37	Tracking Sources of Unsaturated Zone and Groundwater Nitrate Contamination Using Nitrogen and Oxygen Stable Isotopes at the Hanford Site, Washington. <i>Environmental Science & Technology</i> , 2005, 39, 3563-3570.	10.0	45
38	Isotopic insights into methane production, oxidation, and emissions in Arctic polygon tundra. <i>Global Change Biology</i> , 2016, 22, 3487-3502.	9.5	45
39	Reactive Transport Model of Sulfur Cycling as Impacted by Perchlorate and Nitrate Treatments. <i>Environmental Science & Technology</i> , 2016, 50, 7010-7018.	10.0	45
40	Evaporation Effects on Oxygen and Hydrogen Isotopes in Deep Vadose Zone Pore Fluids at Hanford, Washington. <i>Vadose Zone Journal</i> , 2004, 3, 220-232.	2.2	44
41	Geophysical Monitoring of Hydrological and Biogeochemical Transformations Associated with Cr(VI) Bioremediation. <i>Environmental Science & Technology</i> , 2008, 42, 3757-3765.	10.0	44
42	Hydrogeology of the Hawaii Scientific Drilling Project borehole KP-1: 2. Groundwater geochemistry and regional flow patterns. <i>Journal of Geophysical Research</i> , 1996, 101, 11683-11694.	3.3	42
43	Rate-limited U(VI) desorption during a small-scale tracer test in a heterogeneous uranium-contaminated aquifer. <i>Water Resources Research</i> , 2012, 48, .	4.2	42
44	Multiphase Reactive Transport Modeling of Seasonal Infiltration Events and Stable Isotope Fractionation in Unsaturated Zone Pore Water and Vapor at the Hanford Site. <i>Vadose Zone Journal</i> , 2004, 3, 775-785.	2.2	41
45	Large carbon isotope variability during methanogenesis under alkaline conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 237, 18-31.	3.9	39
46	Temperature and injection water source influence microbial community structure in four Alaskan North Slope hydrocarbon reservoirs. <i>Frontiers in Microbiology</i> , 2014, 5, 409.	3.5	37
47	Vadose zone infiltration rate at Hanford, Washington, inferred from Sr isotope measurements. <i>Water Resources Research</i> , 2003, 39, .	4.2	36
48	Phylogenetic Microarray Analysis of a Microbial Community Performing Reductive Dechlorination at a TCE-Contaminated Site. <i>Environmental Science & Technology</i> , 2012, 46, 1044-1054.	10.0	36
49	Stable isotopes, Sr/Ca, and Mg/Ca in biogenic carbonates from Petaluma Marsh, northern California, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3229-3237.	3.9	34
50	Modally-Graded Rhythmic Layering in the Skaergaard Intrusion. <i>Journal of Petrology</i> , 1989, 30, 251-269.	2.8	33
51	Dissolution rates and vadose zone drainage from strontium isotope measurements of groundwater in the Pasco Basin, WA unconfined aquifer. <i>Journal of Hydrology</i> , 2006, 321, 39-58.	5.4	33
52	Attenuating Sulfidogenesis in a Soured Continuous Flow Column System With Perchlorate Treatment. <i>Frontiers in Microbiology</i> , 2018, 9, 1575.	3.5	32
53	Flow dynamics and potential for biodegradation of organic contaminants in fractured rock vadose zones. <i>Journal of Contaminant Hydrology</i> , 2000, 43, 63-90.	3.3	30
54	Proteomic and targeted qPCR analyses of subsurface microbial communities for presence of methane monoxygenase. <i>Biodegradation</i> , 2011, 22, 1045-1059.	3.0	30

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55	Pathways and transformations of dissolved methane and dissolved inorganic carbon in Arctic tundra watersheds: Evidence from analysis of stable isotopes. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1893-1910.	4.9	30
56	Isotopic evidence for biological controls on migration of petroleum hydrocarbons. <i>Organic Geochemistry</i> , 1999, 30, 843-859.	1.8	29
57	Assessment of in-situ bioremediation at a refinery waste-contaminated site and an aviation gasoline contaminated site. <i>Biodegradation</i> , 2002, 13, 79-90.	3.0	29
58	Isotopic insights into microbial sulfur cycling in oil reservoirs. <i>Frontiers in Microbiology</i> , 2014, 5, 480.	3.5	29
59	Isotopic evidence for the infiltration of mantle and metamorphic CO ₂ -H ₂ O fluids from below in faulted rocks from the San Andreas Fault system. <i>Chemical Geology</i> , 2011, 281, 242-252.	3.3	28
60	Microbial Community Responses to Organophosphate Substrate Additions in Contaminated Subsurface Sediments. <i>PLoS ONE</i> , 2014, 9, e100383.	2.5	28
61	Automated analysis of ¹³ C/ ¹² C ratios in CO ₂ and dissolved inorganic carbon for ecological and environmental applications. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2675-2682.	1.5	26
62	Cluster analysis as a tool for evaluating the exploration potential of Known Geothermal Resource Areas. <i>Geothermics</i> , 2018, 72, 358-370.	3.4	26
63	Seasonally-Induced Fluctuations in Microbial Production and Consumption of Methane during Bioremediation of Aged Subsurface Refinery Contamination. <i>Environmental Science & Technology</i> , 1999, 33, 4061-4068.	10.0	25
64	Depth- and Time-Resolved Distributions of Snowmelt-Driven Hillslope Subsurface Flow and Transport and Their Contributions to Surface Waters. <i>Water Resources Research</i> , 2019, 55, 9474-9499.	4.2	25
65	Deep Vadose Zone Respiration Contributions to Carbon Dioxide Fluxes from a Semiarid Floodplain. <i>Vadose Zone Journal</i> , 2016, 15, 1-14.	2.2	24
66	Experimental and theoretical determinations of hydrogen isotopic equilibrium in the system CH ₄ -H ₂ O from 3 to 200 °C. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 314, 223-269.	3.9	23
67	Laser-based, in situ measurements of fine-scale variations in the δ ¹⁸ O values of hydrothermal quartz. <i>Geology</i> , 1992, 20, 812.	4.4	22
68	Stable carbon isotope composition of atmospheric methyl bromide. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	22
69	Sulfur Isotopes as Indicators of Amended Bacterial Sulfate Reduction Processes Influencing Field Scale Uranium Bioremediation. <i>Environmental Science & Technology</i> , 2008, 42, 7842-7849.	10.0	21
70	Precipitation induced stream flow: An event based chemical and isotopic study of a small stream in the Great Plains region of the USA. <i>Journal of Hydrology</i> , 2006, 330, 470-480.	5.4	20
71	Carbon isotope fractionation by methane-oxidizing bacteria in tropical rain forest soils. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	19
72	Geochemical, Biological, and Clumped Isotopologue Evidence for Substantial Microbial Methane Production Under Carbon Limitation in Serpentinites of the Samail Ophiolite, Oman. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006025.	3.0	19

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73	Stable Isotope Evolution of Volcanic Ash Layers during Diagenesis of the Miocene Monterey Formation, California. <i>Clays and Clay Minerals</i> , 1999, 47, 84-95.	1.3	18
74	Effects of Varying Growth Conditions on Stable Carbon Isotope Fractionation of Trichloroethene (TCE) by <i>A</i> -containing <i>Dehalococcoides mccartyi</i> strains. <i>Environmental Science & Technology</i> , 2013, 47, 12342-12350.	10.0	18
75	Bedrock weathering contributes to subsurface reactive nitrogen and nitrous oxide emissions. <i>Nature Geoscience</i> , 2021, 14, 217-224.	12.9	18
76	Evaporation Effects on Oxygen and Hydrogen Isotopes in Deep Vadose Zone Pore Fluids at Hanford, Washington. <i>Vadose Zone Journal</i> , 2004, 3, 220-232.	2.2	17
77	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> , 2014, 124, 394-409.	3.9	17
78	Evolution of an Au-Ag-producing hydrothermal system; the Tayoltita Mine, Durango, Mexico. <i>Economic Geology</i> , 1992, 87, 1451-1474.	3.8	15
79	Kinetics of D/H isotope fractionation between molecular hydrogen and water. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 242, 191-212.	3.9	15
80	Deep Unsaturated Zone Contributions to Carbon Cycling in Semiarid Environments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3045-3054.	3.0	15
81	Modeling the Impact of Riparian Hollows on River Corridor Nitrogen Exports. <i>Frontiers in Water</i> , 2021, 3, .	2.3	15
82	Shale as a Source of Organic Carbon in Floodplain Sediments of a Mountainous Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005419.	3.0	14
83	Multiphase Reactive Transport Modeling of Seasonal Infiltration Events and Stable Isotope Fractionation in Unsaturated Zone Pore Water and Vapor at the Hanford Site. <i>Vadose Zone Journal</i> , 2004, 3, 775-785.	2.2	12
84	Experimental determination of hydrogen isotope exchange rates between methane and water under hydrothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 329, 231-255.	3.9	10
85	The relative permeabilities of quartzites and schists during active metamorphism at mid-crustal levels. <i>Geophysical Research Letters</i> , 1991, 18, 959-962.	4.0	9
86	The Doe Water Cycle Pilot Study. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 359-374.	3.3	9
87	Reply to "Methane origin in the Samail ophiolite: Comment on "Modern water/rock reactions in Oman hyperalkaline peridotite aquifers and implications for microbial habitability" [Geochim. Cosmochim. Acta 179 (2016) 217-241]. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 471-473.	3.9	9
88	Fluid flow and water-rock interaction in the East Rift Zone of Kilauea Volcano, Hawaii. <i>Journal of Geophysical Research</i> , 1997, 102, 15021-15037.	3.3	8
89	Isotopic Studies of Contaminant Transport at the Hanford Site, Washington. <i>Vadose Zone Journal</i> , 2007, 6, 1018-1030.	2.2	8
90	Use of carbon stable isotopes to monitor biostimulation and electron donor fate in chromium-contaminated groundwater. <i>Chemosphere</i> , 2019, 235, 440-446.	8.2	7

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91	Field Evidence for Strong Chemical Separation of Contaminants in the Hanford Vadose Zone. <i>Vadose Zone Journal</i> , 2007, 6, 1031-1041.	2.2	7
92	Geochemical Controls on Release and Speciation of Fe(II) and Mn(II) From Hyporheic Sediments of East River, Colorado. <i>Frontiers in Water</i> , 2020, 2, .	2.3	7
93	Oxygen Isotope Compositions of Mixed-Layer Serpentine-Chlorite and Illite-Smectite in the Tuscaloosa Formation (U.S. Gulf Coast): Implications for Pore Fluids and Mineralogic Reactions. <i>Clays and Clay Minerals</i> , 1998, 46, 357-368.	1.3	6
94	Evidence for Microbial Mediated NO ₃ ⁻ Cycling Within Floodplain Sediments During Groundwater Fluctuations. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	6
95	Microbial Sulfate Reduction and Perchlorate Inhibition in a Novel Mesoscale Tank Experiment. <i>Energy & Fuels</i> , 2018, 32, 12049-12065.	5.1	5
96	Carbon Isotopic Evidence for Biodegradation of Organic Contaminants in the Shallow Vadose Zone of the Radioactive Waste Management Complex. <i>Vadose Zone Journal</i> , 2004, 3, 143-153.	2.2	5
97	Sulfur Biogeochemical Cycling and Redox Dynamics in a Shale-Dominated Mountainous Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	5
98	Isotopic Tracking of Hanford 300 Area Derived Uranium in the Columbia River. <i>Environmental Science & Technology</i> , 2010, 44, 8855-8862.	10.0	4
99	Evaporation Effects on Oxygen and Hydrogen Isotopes in Deep Vadose Zone Pore Fluids at Hanford, Washington. <i>Vadose Zone Journal</i> , 2004, 3, 220.	2.2	4
100	The relation between widespread 18 O depletion patterns and precious metal mineralization in the Tayoltita Mine, Durango, Mexico. <i>Economic Geology</i> , 1995, 90, 322-342.	3.8	3
101	Method for Controlling Temperature Profiles and Water Table Depths in Laboratory Sediment Columns. <i>Vadose Zone Journal</i> , 2018, 17, 1-7.	2.2	2
102	Carbon Isotopic Evidence for Biodegradation of Organic Contaminants in the Shallow Vadose Zone of the Radioactive Waste Management Complex. <i>Vadose Zone Journal</i> , 2004, 3, 143-153.	2.2	2