

Joel D Blum

List of Publications by Year in descending order

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320
papers

17,873
citations

8181

76
h-index

15266

126
g-index

326
all docs

326
docs citations

326
times ranked

11358
citing authors

#	ARTICLE	IF	CITATIONS
1	The middle Pleistocene transition: characteristics, mechanisms, and implications for long-term changes in atmospheric pCO ₂ . <i>Quaternary Science Reviews</i> , 2006, 25, 3150-3184.	3.0	827
2	Mass-Dependent and -Independent Fractionation of Hg Isotopes by Photoreduction in Aquatic Systems. <i>Science</i> , 2007, 318, 417-420.	12.6	725
3	Reporting of variations in the natural isotopic composition of mercury. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 353-359.	3.7	536
4	Mercury Isotopes in Earth and Environmental Sciences. <i>Annual Review of Earth and Planetary Sciences</i> , 2014, 42, 249-269.	11.0	501
5	Mercury isotopes in a forested ecosystem: Implications for air-surface exchange dynamics and the global mercury cycle. <i>Global Biogeochemical Cycles</i> , 2013, 27, 222-238.	4.9	364
6	Algal blooms reduce the uptake of toxic methylmercury in freshwater food webs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4419-4423.	7.1	352
7	Mycorrhizal weathering of apatite as an important calcium source in base-poor forest ecosystems. <i>Nature</i> , 2002, 417, 729-731.	27.8	349
8	Carbonate versus silicate weathering in the Raikhot watershed within the High Himalayan Crystalline Series. <i>Geology</i> , 1998, 26, 411.	4.4	317
9	Methylmercury production below the mixed layer in the North Pacific Ocean. <i>Nature Geoscience</i> , 2013, 6, 879-884.	12.9	298
10	Determination of soil exchangeable-cation loss and weathering rates using Sr isotopes. <i>Nature</i> , 1993, 362, 438-441.	27.8	295
11	Isotopic Composition and Fractionation of Mercury in Great Lakes Precipitation and Ambient Air. <i>Environmental Science & Technology</i> , 2010, 44, 7764-7770.	10.0	285
12	Accumulation of heavy metals in food web components across a gradient of lakes. <i>Limnology and Oceanography</i> , 2000, 45, 1525-1536.	3.1	261
13	Using natural strontium isotopic signatures as fish markers: methodology and application. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 2280-2292.	1.4	233
14	Mass-independent fractionation of mercury isotopes in Arctic snow driven by sunlight. <i>Nature Geoscience</i> , 2010, 3, 173-177.	12.9	233
15	Climatic and tectonic controls on chemical weathering in the New Zealand Southern Alps. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 29-46.	3.9	231
16	Title is missing!. <i>Biogeochemistry</i> , 2000, 49, 87-101.	3.5	229
17	Natural Mercury Isotope Variation in Coal Deposits and Organic Soils. <i>Environmental Science & Technology</i> , 2008, 42, 8303-8309.	10.0	219
18	Mercury Stable Isotope Fractionation during Reduction of Hg(II) to Hg(0) by Mercury Resistant Microorganisms. <i>Environmental Science & Technology</i> , 2007, 41, 1889-1895.	10.0	213

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19	Rb—Sr isotope systematics of a granitic soil chronosequence: The importance of biotite weathering. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3193-3204.	3.9	205
20	Reconstructing the lives of fish using Sr isotopes in otoliths. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2002, 59, 925-929.	1.4	198
21	Stable Isotope (N, C, Hg) Study of Methylmercury Sources and Trophic Transfer in the Northern Gulf of Mexico. <i>Environmental Science & Technology</i> , 2010, 44, 1630-1637.	10.0	194
22	Mass dependent stable isotope fractionation of mercury during mer mediated microbial degradation of monomethylmercury. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1285-1296.	3.9	188
23	Isotopic signatures of mercury contamination in latest Permian oceans. <i>Geology</i> , 2017, 45, 55-58.	4.4	186
24	Relation between soil age and silicate weathering rates determined from the chemical evolution of a glacial chronosequence. <i>Geology</i> , 1995, 23, 979.	4.4	177
25	Investigation of Local Mercury Deposition from a Coal-Fired Power Plant Using Mercury Isotopes. <i>Environmental Science & Technology</i> , 2012, 46, 382-390.	10.0	176
26	A silicate weathering mechanism linking increases in marine $^{87}\text{Sr}/^{86}\text{Sr}$ with global glaciation. <i>Nature</i> , 1995, 373, 415-418.	27.8	175
27	Natural isotope markers in salmon. <i>Nature</i> , 1997, 387, 766-767.	27.8	167
28	Reconciling the elemental and Sr isotope composition of Himalayan weathering fluxes: insights from the carbonate geochemistry of stream waters. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3417-3429.	3.9	164
29	Isotope geochemistry of mercury in source rocks, mineral deposits and spring deposits of the California Coast Ranges, USA. <i>Earth and Planetary Science Letters</i> , 2008, 269, 399-407.	4.4	162
30	Measurement of Low Levels of Arsenic Exposure: A Comparison of Water and Toenail Concentrations. <i>American Journal of Epidemiology</i> , 2000, 152, 84-90.	3.4	158
31	Trace Analyses of Arsenic in Drinking Water by Inductively Coupled Plasma Mass Spectrometry: A High Resolution versus Hydride Generation. <i>Analytical Chemistry</i> , 1999, 71, 1408-1414.	6.5	154
32	The geochemical behavior and isotopic composition of Hg in a mid-Pleistocene western Mediterranean sapropel. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1651-1665.	3.9	151
33	Sorption of Mercuric Ion by Synthetic Nanocrystalline Mackinawite (FeS). <i>Environmental Science & Technology</i> , 2007, 41, 7699-7705.	10.0	150
34	Mercury abundances and isotopic compositions in the Murchison (CM) and Allende (CV) carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2807-2818.	3.9	143
35	^{15}N enrichment in agricultural catchments: field patterns and applications to tracking Atlantic salmon (<i>Salmo salar</i>). <i>Chemical Geology</i> , 1998, 147, 281-294.	3.3	141
36	Mercury isotope fractionation in fossil hydrothermal systems. <i>Geology</i> , 2005, 33, 825.	4.4	140

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37	Arsenic Occurrence in New Hampshire Drinking Water. <i>Environmental Science & Technology</i> , 1999, 33, 1328-1333.	10.0	138
38	Mercury Stable Isotope Fractionation during Reduction of Hg(II) by Different Microbial Pathways. <i>Environmental Science & Technology</i> , 2008, 42, 9171-9177.	10.0	138
39	Estimation of nuclear volume dependent fractionation of mercury isotopes in equilibrium liquid-vapor evaporation experiments. <i>Chemical Geology</i> , 2013, 336, 5-12.	3.3	138
40	Mercury Isotopes Link Mercury in San Francisco Bay Forage Fish to Surface Sediments. <i>Environmental Science & Technology</i> , 2011, 45, 1264-1270.	10.0	136
41	Sources of mercury to San Francisco Bay surface sediment as revealed by mercury stable isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 691-705.	3.9	127
42	Recent Developments in Mercury Stable Isotope Analysis. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 82, 733-757.	4.8	127
43	Initial stages of weathering and soil formation in the Morteratsch proglacial area (Upper Engadine, Tj ETQq1 1 0.784314 rgBT /Overlock	5.1	124
44	Absence of Fractionation of Mercury Isotopes during Trophic Transfer of Methylmercury to Freshwater Fish in Captivity. <i>Environmental Science & Technology</i> , 2012, 46, 7527-7534.	10.0	121
45	Stream geochemistry as an indicator of increasing permafrost thaw depth in an arctic watershed. <i>Chemical Geology</i> , 2010, 273, 76-81.	3.3	120
46	New Insight into Biomarkers of Human Mercury Exposure Using Naturally Occurring Mercury Stable Isotopes. <i>Environmental Science & Technology</i> , 2013, 47, 3403-3409.	10.0	118
47	The use of Pb, Sr, and Hg isotopes in Great Lakes precipitation as a tool for pollution source attribution. <i>Science of the Total Environment</i> , 2015, 502, 362-374.	8.0	118
48	$^{87}\text{Sr}/^{86}\text{Sr}$ ratios of sierra nevada stream waters: Implications for relative mineral weathering rates. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 5019-5025.	3.9	117
49	Ca/Sr and $^{87}\text{Sr}/^{86}\text{Sr}$ geochemistry of disseminated calcite in Himalayan silicate rocks from Nanga Parbat: Influence on river-water chemistry. <i>Geology</i> , 2000, 28, 463.	4.4	112
50	'Domestic' origin of opaque assemblages in refractory inclusions in meteorites. <i>Nature</i> , 1988, 331, 405-409.	27.8	111
51	Mercury stable isotopes for monitoring the effectiveness of the Minamata Convention on Mercury. <i>Earth-Science Reviews</i> , 2020, 203, 103111.	9.1	110
52	Kinetics of dissolution and Sr release during biotite and phlogopite weathering. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1191-1208.	3.9	107
53	Nd and Pb isotope variability in the Indus River System: implications for sediment provenance and crustal heterogeneity in the Western Himalaya. <i>Earth and Planetary Science Letters</i> , 2002, 200, 91-106.	4.4	107
54	Sources and Transfers of Methylmercury in Adjacent River and Forest Food Webs. <i>Environmental Science & Technology</i> , 2012, 46, 10957-10964.	10.0	107

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55	The dependence of labradorite dissolution and Sr isotope release rates on solution saturation state. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2389-2400.	3.9	105
56	Origin of opaque assemblages in C3V meteorites: Implications for nebular and planetary processes. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 543-556.	3.9	104
57	Restoring Soil Calcium Reverses Forest Decline. <i>Environmental Science and Technology Letters</i> , 2014, 1, 15-19.	8.7	103
58	Influence of Snow and Ice Crystal Formation and Accumulation on Mercury Deposition to the Arctic. <i>Environmental Science & Technology</i> , 2008, 42, 1542-1551.	10.0	101
59	Relationship between mechanical erosion and atmospheric CO2 consumption in the New Zealand Southern Alps. <i>Geology</i> , 2003, 31, 865.	4.4	99
60	An isotopic record of mercury in San Francisco Bay sediment. <i>Chemical Geology</i> , 2013, 349-350, 87-98.	3.3	98
61	Mercury Isotope Study of Sources and Exposure Pathways of Methylmercury in Estuarine Food Webs in the Northeastern U.S.. <i>Environmental Science & Technology</i> , 2014, 48, 10089-10097.	10.0	97
62	Ca/Sr and Sr isotope systematics of a Himalayan glacial chronosequence: carbonate versus silicate weathering rates as a function of landscape surface age. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 13-27.	3.9	95
63	Mercury stable isotopes in sediments and largemouth bass from Florida lakes, USA. <i>Science of the Total Environment</i> , 2013, 448, 163-175.	8.0	94
64	Lead isotope systematics of granitoid weathering. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5299-5306.	3.9	92
65	Isotopic comparison of K/T boundary impact glass with melt rock from the Chicxulub and Manson impact structures. <i>Nature</i> , 1993, 364, 325-327.	27.8	91
66	Boron and lithium isotopes as groundwater tracers: a study at the Fresh Kills Landfill, Staten Island, New York, USA. <i>Applied Geochemistry</i> , 2003, 18, 615-627.	3.0	91
67	Coupling atmospheric mercury isotope ratios and meteorology to identify sources of mercury impacting a coastal urban&industrial region near Pensacola, Florida, USA. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1689-1705.	4.9	87
68	Neodymium and strontium isotopic study of Australasian tektites: New constraints on the provenance and age of target materials. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 483-492.	3.9	85
69	Impacts of zooplankton composition and algal enrichment on the accumulation of mercury in an experimental freshwater food web. <i>Science of the Total Environment</i> , 2005, 339, 89-101.	8.0	85
70	Influence of landscape position and vegetation on long-term weathering rates at the Hubbard Brook Experimental Forest, New Hampshire, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3065-3078.	3.9	84
71	Assessing Sources of Human Methylmercury Exposure Using Stable Mercury Isotopes. <i>Environmental Science & Technology</i> , 2014, 48, 8800-8806.	10.0	84
72	Application of mercury isotopes for tracing trophic transfer and internal distribution of mercury in marine fish feeding experiments. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 2322-2330.	4.3	83

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73	Mycorrhizas in changing ecosystems. Botany, 2014, 92, 149-160.	1.0	82
74	Release of mercury from Rocky Mountain forest fires. Global Biogeochemical Cycles, 2007, 21, .	4.9	80
75	Geochemistry of Soils and Streams on Surfaces of Varying Ages in Arctic Alaska. Arctic, Antarctic, and Alpine Research, 2007, 39, 84-98.	1.1	79
76	Ecological significance of mineral weathering in ectomycorrhizal and arbuscular mycorrhizal ecosystems from a field-based comparison. Soil Biology and Biochemistry, 2014, 69, 63-70.	8.8	79
77	Systematic Changes in Lead Isotopic Composition with Soil Age in Glacial Granitic Terrains. Geochimica Et Cosmochimica Acta, 1998, 62, 33-46.	3.9	78
78	Tracing anthropogenic Hg and Pb input using stable Hg and Pb isotope ratios in sediments of the central Portuguese Margin. Chemical Geology, 2013, 336, 62-71.	3.3	77
79	Mercury Stable Isotope Fractionation during Abiotic Dark Oxidation in the Presence of Thiols and Natural Organic Matter. Environmental Science & Technology, 2019, 53, 1853-1862.	10.0	77
80	Re-Os isotope systematics and weathering of Precambrian crustal rocks: implications for the marine osmium isotope record. Geochimica Et Cosmochimica Acta, 1998, 62, 3193-3203.	3.9	76
81	Effects of ultraviolet radiation on mercury isotope fractionation during photo-reduction for inorganic and organic mercury species. Chemical Geology, 2015, 405, 102-111.	3.3	76
82	Dissolution of wollastonite during the experimental manipulation of Hubbard Brook Watershed 1. Biogeochemistry, 2004, 67, 309-329.	3.5	75
83	Review of stable mercury isotopes in ecology and biogeochemistry. Science of the Total Environment, 2020, 716, 135386.	8.0	73
84	The source and transport of arsenic in a bedrock aquifer, New Hampshire, USA. Applied Geochemistry, 2003, 18, 1773-1787.	3.0	69
85	Importance of Integration and Implementation of Emerging and Future Mercury Research into the Minamata Convention. Environmental Science & Technology, 2016, 50, 2767-2770.	10.0	68
86	Mercury Isotopic Evidence for Multiple Mercury Sources in Coal from the Illinois Basin. Environmental Science & Technology, 2011, 45, 1724-1729.	10.0	66
87	Tracking the Fate of Mercury in the Fish and Bottom Sediments of Minamata Bay, Japan, Using Stable Mercury Isotopes. Environmental Science & Technology, 2015, 49, 5399-5406.	10.0	65
88	Chemical weathering and lithologic controls of water chemistry in a high-elevation river system: Clark's Fork of the Yellowstone River, Wyoming and Montana. Water Resources Research, 1999, 35, 1643-1655.	4.2	64
89	Isotopic study of mercury sources and transfer between a freshwater lake and adjacent forest food web. Science of the Total Environment, 2015, 532, 220-229.	8.0	64
90	Microbial stable isotope fractionation of mercury: A synthesis of present understanding and future directions. Chemical Geology, 2013, 336, 13-25.	3.3	63

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91	Rates of sustainable forest harvest depend on rotation length and weathering of soil minerals. <i>Forest Ecology and Management</i> , 2014, 318, 194-205.	3.2	63
92	Variation in Terrestrial and Aquatic Sources of Methylmercury in Stream Predators as Revealed by Stable Mercury Isotopes. <i>Environmental Science & Technology</i> , 2014, 48, 10128-10135.	10.0	63
93	A sequential extraction to determine the distribution of apatite in granitoid soil mineral pools with application to weathering at the Hubbard Brook Experimental Forest, NH, USA. <i>Applied Geochemistry</i> , 2007, 22, 2406-2421.	3.0	60
94	Chronic mercury exposure in Late Neolithic/Chalcolithic populations in Portugal from the cultural use of cinnabar. <i>Scientific Reports</i> , 2015, 5, 14679.	3.3	60
95	New Insights on Ecosystem Mercury Cycling Revealed by Stable Isotopes of Mercury in Water Flowing from a Headwater Peatland Catchment. <i>Environmental Science & Technology</i> , 2018, 52, 1854-1861.	10.0	60
96	Evidence for a meteoritic component in impact melt rock from the chicxulub structure. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1679-1684.	3.9	59
97	Investigation of the deposition and emission of mercury in arctic snow during an atmospheric mercury depletion event. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
98	Photomicrobial Visible Light-Induced Magnetic Mass Independent Fractionation of Mercury in a Marine Microalga. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 432-440.	2.7	58
99	Biotic Control of Calcium Cycling in Northern Hardwood Forests: Acid Rain and Aging Forests. <i>Ecosystems</i> , 2003, 6, 399-406.	3.4	56
100	Lead and strontium isotopes as monitors of experimental granitoid mineral dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4649-4663.	3.9	56
101	Ostrich eggshell bead strontium isotopes reveal persistent macroscale social networking across late Quaternary southern Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6453-6462.	7.1	56
102	Comparing naturally occurring stable isotopes of nitrogen, carbon, and strontium as markers for the rearing locations of Atlantic salmon (<i>Salmo salar</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 48-57.	1.4	54
103	Mercury Cycling in the North Pacific Subtropical Gyre as Revealed by Mercury Stable Isotope Ratios. <i>Global Biogeochemical Cycles</i> , 2019, 33, 777-794.	4.9	54
104	Hydrogeochemistry of seasonal flow regimes in the Chena River, a subarctic watershed draining discontinuous permafrost in interior Alaska (USA). <i>Chemical Geology</i> , 2013, 335, 48-62.	3.3	53
105	The relative uptake of Ca and Sr into tree foliage using a whole-watershed calcium addition. <i>Biogeochemistry</i> , 2006, 80, 21-41.	3.5	52
106	Mercury storage in surface soils in a central Washington forest and estimated release during the 2001 Rex Creek Fire. <i>Science of the Total Environment</i> , 2008, 404, 129-138.	8.0	52
107	Mercury Isotope Fractionation during the Photochemical Reduction of Hg(II) Coordinated with Organic Ligands. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2842-2853.	2.5	51
108	The dissolution kinetics of a granite and its minerals—Implications for comparison between laboratory and field dissolution rates. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 607-621.	3.9	50

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109	Isotopic Composition of Inorganic Mercury and Methylmercury Downstream of a Historical Gold Mining Region. <i>Environmental Science & Technology</i> , 2016, 50, 1691-1702.	10.0	50
110	Mercury Isotopes Reveal Atmospheric Gaseous Mercury Deposition Directly to the Arctic Coastal Snowpack. <i>Environmental Science and Technology Letters</i> , 2019, 6, 235-242.	8.7	50
111	Hydrologic indicators of hot spots and hot moments of mercury methylation potential along river corridors. <i>Science of the Total Environment</i> , 2016, 568, 697-711.	8.0	48
112	The coupled release of REE and Pb to the soil labile pool with time by weathering of accessory phases, Wind River Mountains, WY. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 320-336.	3.9	47
113	Tracing hydrologic flow paths in a small forested watershed using variations in $^{87}\text{Sr}/^{86}\text{Sr}$, $[\text{Ca}]/[\text{Sr}]$, $[\text{Ba}]/[\text{Sr}]$ and $\delta^{18}\text{O}$. <i>Water Resources Research</i> , 2003, 39, .	4.2	46
114	Assessment of mercury exposure among small-scale gold miners using mercury stable isotopes. <i>Environmental Research</i> , 2015, 137, 226-234.	7.5	45
115	Identification of Multiple Mercury Sources to Stream Sediments near Oak Ridge, TN, USA. <i>Environmental Science & Technology</i> , 2014, 48, 3666-3674.	10.0	43
116	Use of foliar Ca/Sr discrimination and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios to determine soil Ca sources to sugar maple foliage in a northern hardwood forest. <i>Biogeochemistry</i> , 2008, 87, 287-296.	3.5	42
117	Separation of monomethylmercury from estuarine sediments for mercury isotope analysis. <i>Chemical Geology</i> , 2015, 411, 19-25.	3.3	42
118	Mercury isotopes identify near-surface marine mercury in deep-sea trench biota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29292-29298.	7.1	42
119	Determining the sources of calcium for migratory songbirds using stable strontium isotopes. <i>Oecologia</i> , 2001, 126, 569-574.	2.0	41
120	Soil Chemical Dynamics after Calcium Silicate Addition to a Northern Hardwood Forest. <i>Soil Science Society of America Journal</i> , 2014, 78, 1458-1468.	2.2	40
121	Controls of Methylmercury Bioaccumulation in Forest Floor Food Webs. <i>Environmental Science & Technology</i> , 2019, 53, 2434-2440.	10.0	39
122	Ichthyolith strontium isotope stratigraphy of a Neogene red clay sequence: calibrating eolian dust accumulation rates in the central North Pacific. <i>Earth and Planetary Science Letters</i> , 2002, 202, 625-636.	4.4	37
123	Isotopic Characterization of Mercury Downstream of Historic Industrial Contamination in the South River, Virginia. <i>Environmental Science & Technology</i> , 2017, 51, 10965-10973.	10.0	36
124	Mantle Hg isotopic heterogeneity and evidence of oceanic Hg recycling into the mantle. <i>Nature Communications</i> , 2022, 13, 948.	12.8	36
125	Photodegradation of methylmercury in stream ecosystems. <i>Limnology and Oceanography</i> , 2013, 58, 13-22.	3.1	35
126	Benefits of Regulating Hazardous Air Pollutants from Coal and Oil-Fired Utilities in the United States. <i>Environmental Science & Technology</i> , 2016, 50, 2117-2120.	10.0	35

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127	Increased carbon capture by a silicate-treated forested watershed affected by acid deposition. <i>Biogeosciences</i> , 2021, 18, 169-188.	3.3	35
128	Changes in the mercury isotopic composition of sediments from a remote alpine lake in Wyoming, USA. <i>Science of the Total Environment</i> , 2019, 669, 973-982.	8.0	34
129	The Quantitative Soil Pit Method for Measuring Belowground Carbon and Nitrogen Stocks. <i>Soil Science Society of America Journal</i> , 2012, 76, 2241-2255.	2.2	33
130	Land use and geologic controls on the major elemental and isotopic ($\delta^{15}\text{N}$ and $87\text{Sr}/86\text{Sr}$) geochemistry of the Connecticut River watershed, USA. <i>Chemical Geology</i> , 2002, 189, 19-34.	3.3	32
131	Stable isotope food-web analysis and mercury biomagnification in polar bears (<i>Ursus maritimus</i>). <i>Polar Research</i> , 2009, 28, 443-454.	1.6	32
132	Frost flowers growing in the Arctic oceanâ€œatmosphereâ€œsea iceâ€œsnow interface: 2. Mercury exchange between the atmosphere, snow, and frost flowers. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
133	Mercury abundance and isotopic composition indicate subaerial volcanism prior to the end-Archean $\delta^{18}\text{O}$ of oxygen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	32
134	Chemistry and mineralogy of a granitic, glacial soil chronosequence, Sierra Nevada Mountains, California. <i>Chemical Geology</i> , 1999, 162, 1-14.	3.3	31
135	Nanoscale mineralogy of arsenic in a region of New Hampshire with elevated As-concentrations in the groundwater. <i>American Mineralogist</i> , 2003, 88, 1844-1852.	1.9	31
136	Carbon, Nitrogen, and Mercury Isotope Evidence for the Biogeochemical History of Mercury in Hawaiian Marine Bottomfish. <i>Environmental Science & Technology</i> , 2017, 51, 13976-13984.	10.0	31
137	$87\text{Sr}/86\text{Sr}$ as a tracer of groundwater discharge and precipitation recharge in the Glacial Lake Agassiz Peatlands, northern Minnesota. <i>Water Resources Research</i> , 2000, 36, 3701-3710.	4.2	30
138	Terrestrial gastropod responses to an ecosystem-level calcium manipulation in a northern hardwood forest. <i>Canadian Journal of Zoology</i> , 2007, 85, 994-1007.	1.0	30
139	Hg isotopes reveal in-stream processing and legacy inputs in East Fork Poplar Creek, Oak Ridge, Tennessee, USA. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 686-707.	3.5	30
140	Resonance ionization mass spectrometry of sputtered osmium and rhenium atoms. <i>Analytical Chemistry</i> , 1990, 62, 209-214.	6.5	29
141	Understanding sources of methylmercury in songbirds with stable mercury isotopes: Challenges and future directions. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 166-174.	4.3	29
142	Sediment flux in the modern Indus River inferred from the trace element composition of detrital amphibole grains. <i>Sedimentary Geology</i> , 2003, 160, 243-257.	2.1	28
143	Mineral Sources of Calcium and Phosphorus in Soils of the Northeastern United States. <i>Soil Science Society of America Journal</i> , 2008, 72, 1786-1794.	2.2	28
144	Applications of Stable Mercury Isotopes to Biogeochemistry. <i>Advances in Isotope Geochemistry</i> , 2012, , 229-245.	1.4	28

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145	Miocene to recent eolian dust record from the Southwest Pacific Ocean at 40° S latitude. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 261, 218-233.	2.3	27
146	The specific surface area and chemical composition of diamond dust near Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27
147	Quantifying mercury isotope dynamics in captive Pacific bluefin tuna (<i>Thunnus orientalis</i>). <i>Elementa</i> , 2016, 4, .	3.2	26
148	Origin, Reactivity, and Bioavailability of Mercury in Wildfire Ash. <i>Environmental Science & Technology</i> , 2018, 52, 14149-14157.	10.0	25
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