

Gabriel J Bowen

List of Publications by Citations

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

133
papers

7,994
citations

41
h-index

88
g-index

164
ext. papers

9,093
ext. citations

6.3
avg, IF

6.42
L-index

#	Paper	IF	Citations
133	Interpolating the isotopic composition of modern meteoric precipitation. <i>Water Resources Research</i> , 2003 , 39,	5.4	813
132	Global application of stable hydrogen and oxygen isotopes to wildlife forensics. <i>Oecologia</i> , 2005 , 143, 337-48	2.9	710
131	Spatial distribution of $\delta^{18}\text{O}$ in meteoric precipitation. <i>Geology</i> , 2002 , 30, 315	5	611
130	Molecular Paleohydrology: Interpreting the Hydrogen-Isotopic Composition of Lipid Biomarkers from Photosynthesizing Organisms. <i>Annual Review of Earth and Planetary Sciences</i> , 2012 , 40, 221-249	15.3	598
129	Stable isotopes as one of nature's ecological recorders. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 408-14	10.9	342
128	Isoscapes: Spatial Pattern in Isotopic Biogeochemistry. <i>Annual Review of Earth and Planetary Sciences</i> , 2010 , 38, 161-187	15.3	324
127	Hydrogen and oxygen isotope ratios in human hair are related to geography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2788-93	11.5	275
126	Spatial distribution and seasonal variation in $^{18}\text{O}/^{16}\text{O}$ of modern precipitation and river water across the conterminous USA. <i>Hydrological Processes</i> , 2005 , 19, 4121-4146	3.3	236
125	A humid climate state during the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2004 , 432, 495-9	50.4	225
124	Stable isotope ratios of tap water in the contiguous United States. <i>Water Resources Research</i> , 2007 , 43,	5.4	172
123	Using stable hydrogen and oxygen isotope measurements of feathers to infer geographical origins of migrating European birds. <i>Oecologia</i> , 2004 , 141, 477-88	2.9	163
122	Mapping $^{87}\text{Sr}/^{86}\text{Sr}$ variations in bedrock and water for large scale provenance studies. <i>Chemical Geology</i> , 2012 , 304-305, 39-52	4.2	154
121	Two massive, rapid releases of carbon during the onset of the Palaeocene/Eocene thermal maximum. <i>Nature Geoscience</i> , 2015 , 8, 44-47	18.3	139
120	Spatial analysis of the intra-annual variation of precipitation isotope ratios and its climatological corollaries. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		131
119	Treatment methods for the determination of $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of hair keratin by continuous-flow isotope-ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2371-8	2.2	129
118	Dietary and physiological controls on the hydrogen and oxygen isotope ratios of hair from mid-20th century indigenous populations. <i>American Journal of Physical Anthropology</i> , 2009 , 139, 494-504	2.5	109
117	Stable hydrogen and oxygen isotope ratios of bottled waters of the world. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 3442-50	2.2	87

116	Rapid carbon sequestration at the termination of the PalaeoceneEocene Thermal Maximum. <i>Nature Geoscience</i> , 2010 , 3, 866-869	18.3	83
115	Isotopes in the Water Cycle: Regional- to Global-Scale Patterns and Applications. <i>Annual Review of Earth and Planetary Sciences</i> , 2019 , 47, 453-479	15.3	82
114	Migratory Connectivity of a Widely Distributed Songbird, the American Redstart (<i>Setophaga ruticilla</i>). <i>Ornithological Monographs</i> , 2006 , 14-28		81
113	Stable isotope analysis of precipitation samples obtained via crowdsourcing reveals the spatiotemporal evolution of Superstorm Sandy. <i>PLoS ONE</i> , 2014 , 9, e91117	3.7	80
112	Stable isotope analysis of modern human hair collected from Asia (China, India, Mongolia, and Pakistan). <i>American Journal of Physical Anthropology</i> , 2010 , 141, 440-51	2.5	77
111	Eocene hyperthermal event offers insight into greenhouse warming. <i>Eos</i> , 2006 , 87, 165	1.5	74
110	Terrestrial carbon isotope excursions and biotic change during Palaeogene hyperthermals. <i>Nature Geoscience</i> , 2012 , 5, 326-329	18.3	68
109	Expanding the Isotopic Toolbox: Applications of Hydrogen and Oxygen Stable Isotope Ratios to Food Web Studies. <i>Frontiers in Ecology and Evolution</i> , 2016 , 4,	3.7	66
108	Atmospheric circulation is reflected in precipitation isotope gradients over the conterminous United States. <i>Journal of Geophysical Research</i> , 2010 , 115,		63
107	Mapping multiple source effects on the strontium isotopic signatures of ecosystems from the circum-Caribbean region. <i>Ecosphere</i> , 2012 , 3, art118	3.1	61
106	ENSO variability reflected in precipitation oxygen isotopes across the Asian Summer Monsoon region. <i>Earth and Planetary Science Letters</i> , 2017 , 475, 25-33	5.3	58
105	Temporal variation of oxygen isotope ratios ($\delta^{18}O$) in drinking water: implications for specifying location of origin with human scalp hair. <i>Forensic Science International</i> , 2011 , 208, 156-66	2.6	57
104	Geographic assignment with stable isotopes in IsoMAP. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 201-207		56
103	Completing the data life cycle: using information management in macrosystems ecology research. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 24-30	5.5	54
102	A geostatistical framework for predicting variations in strontium concentrations and isotope ratios in Alaskan rivers. <i>Chemical Geology</i> , 2014 , 389, 1-15	4.2	53
101	Inferring the source of evaporated waters using stable H and O isotopes. <i>Oecologia</i> , 2018 , 187, 1025-1039	3.9	51
100	Determining origin in a migratory marine vertebrate: a novel method to integrate stable isotopes and satellite tracking 2015 , 25, 320-35		49
99	Water balance model for mean annual hydrogen and oxygen isotope distributions in surface waters of the contiguous United States. <i>Journal of Geophysical Research</i> , 2011 , 116,		48

98	Isotopes as tracers of the Hawaiian coffee-producing regions. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10239-46	5-7	45
97	Footprint of recycled water subsidies downwind of Lake Michigan. <i>Ecosphere</i> , 2012 , 3, art53	3-1	45
96	Incorporating water isoscapes in hydrological and water resource investigations. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015 , 2, 107-119	5-7	42
95	Mechanisms of PETM global change constrained by a new record from central Utah. <i>Geology</i> , 2008 , 36, 379	5	42
94	Spatio-temporal heterogeneity in soil water stable isotopic composition and its ecohydrologic implications in semiarid ecosystems. <i>Hydrological Processes</i> , 2019 , 33, 1724-1738	3-3	41
93	Tap water isotope ratios reflect urban water system structure and dynamics across a semiarid metropolitan area. <i>Water Resources Research</i> , 2016 , 52, 5891-5910	5-4	41
92	Statistical and Geostatistical Mapping of Precipitation Water Isotope Ratios 2010 , 139-160		41
91	Advances in global bioavailable strontium isoscapes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020 , 555, 109849	2-9	40
90	A Global Perspective on Local Meteoric Water Lines: Meta-analytic Insight Into Fundamental Controls and Practical Constraints. <i>Water Resources Research</i> , 2019 , 55, 6896-6910	5-4	39
89	D/H isotope ratios in the global hydrologic cycle. <i>Geophysical Research Letters</i> , 2015 , 42, 5042-5050	4-9	39
88	A Framework for the Incorporation of Isotopes and Isoscapes in Geospatial Forensic Investigations 2010 , 357-387		39
87	Forensic Stable Isotope Biogeochemistry. <i>Annual Review of Earth and Planetary Sciences</i> , 2016 , 44, 175-206	5-3	39
86	Opinion: Why we need a centralized repository for isotopic data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2997-3001	11-5	37
85	Hydrogen and oxygen in brine shrimp chitin reflect environmental water and dietary isotopic composition. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 1812-1822	5-5	37
84	Spatial-seasonal patterns reveal large-scale atmospheric controls on Asian Monsoon precipitation water isotope ratios. <i>Earth and Planetary Science Letters</i> , 2018 , 503, 158-169	5-3	36
83	Strontium isotope variation and carbonate versus silicate weathering in rivers from across Alaska: Implications for provenance studies. <i>Chemical Geology</i> , 2014 , 389, 167-181	4-2	35
82	Up in smoke: A role for organic carbon feedbacks in Paleogene hyperthermals. <i>Global and Planetary Change</i> , 2013 , 109, 18-29	4-2	35
81	Patterns of local and nonlocal water resource use across the western U.S. determined via stable isotope intercomparisons. <i>Water Resources Research</i> , 2014 , 50, 8034-8049	5-4	35

80	Contrasting assignment of migratory organisms to geographic origins using long-term versus year-specific precipitation isotope maps. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 891-900	7.7	34
79	Paired oxygen isotope records reveal modern North American atmospheric dynamics during the Holocene. <i>Nature Communications</i> , 2014 , 5, 3701	17.4	34
78	Isoscapes to Address Large-Scale Earth Science Challenges. <i>Eos</i> , 2009 , 90, 109-110	1.5	34
77	Dietary controls on extinction versus survival among avian megafauna in the late Pleistocene. <i>Geology</i> , 2006 , 34, 685	5	34
76	Pacific/North American Teleconnection Controls on Precipitation Isotopes ($\delta^{18}O$) across the Contiguous United States and Adjacent Regions: A GCM-Based Analysis. <i>Journal of Climate</i> , 2014 , 27, 1046-1061	4.4	32
75	Urban water - a new frontier in isotope hydrology. <i>Isotopes in Environmental and Health Studies</i> , 2016 , 52, 477-86	1.5	32
74	δ^2H and $\delta^{18}O$ of human body water: a GIS model to distinguish residents from non-residents in the contiguous USA. <i>Isotopes in Environmental and Health Studies</i> , 2012 , 48, 259-79	1.5	29
73	Stream Nitrogen Inputs Reflect Groundwater Across a Snowmelt-Dominated Montane to Urban Watershed. <i>Environmental Science & Technology</i> , 2016 , 50, 1137-46	10.3	27
72	Stable hydrogen and oxygen isotopes of tap water reveal structure of the San Francisco Bay Area water system and adjustments during a major drought. <i>Water Research</i> , 2017 , 119, 212-224	12.5	25
71	Persistent Urban Influence on Surface Water Quality via Impacted Groundwater. <i>Environmental Science & Technology</i> , 2017 , 51, 9477-9487	10.3	25
70	Environmental impact and magnitude of paleosol carbonate carbon isotope excursions marking five early Eocene hyperthermals in the Bighorn Basin, Wyoming. <i>Climate of the Past</i> , 2016 , 12, 1151-1163	3.9	25
69	Pacific/North American teleconnection controls on precipitation isotope ratios across the contiguous United States. <i>Earth and Planetary Science Letters</i> , 2011 , 310, 319-326	5.3	24
68	Isotope Landscapes for Terrestrial Migration Research. <i>Journal of Nano Education (Print)</i> , 2008 , 2, 79-105		24
67	Vapor hydrogen and oxygen isotopes reflect water of combustion in the urban atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3247-52	11.5	23
66	Synchronizing early Eocene deep-sea and continental records to cyclostratigraphic age models for the Bighorn Basin Coring Project drill cores. <i>Climate of the Past</i> , 2018 , 14, 303-319	3.9	23
65	Pacific North American circulation pattern links external forcing and North American hydroclimatic change over the past millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3340-3345	11.5	19
64	Analysis of the hydrogen and oxygen stable isotope ratios of beverage waters without prior water extraction using isotope ratio infrared spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 3205-13	2.2	18
63	Mean annual temperatures of mid-latitude regions derived from $\delta^{13}C$ values of wood lignin methoxyl groups and its implications for paleoclimate studies. <i>Science of the Total Environment</i> , 2017 , 574, 1276-1282	10.2	16

62	Consistent predictable patterns in the hydrogen and oxygen stable isotope ratios of animal proteins consumed by modern humans in the USA. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3713-22	2.2	16
61	Winter precipitation isotope slopes of the contiguous USA and their relationship to the Pacific/North American (PNA) pattern. <i>Climate Dynamics</i> , 2013 , 41, 403-420	4.2	15
60	Space-time tradeoffs in the development of precipitation-based isoscape models for determining migratory origin. <i>Journal of Avian Biology</i> , 2015 , 46, 658-667	1.9	15
59	Bighorn Basin Coring Project (BBCP): a continental perspective on early Paleogene hyperthermals. <i>Scientific Drilling</i> , 2013 , 16, 21-31		15
58	Detection and variability of combustion-derived vapor in an urban basin. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8529-8547	6.8	15
57	Applying the principles of isotope analysis in plant and animal ecology to forensic science in the Americas. <i>Oecologia</i> , 2018 , 187, 1077-1094	2.9	15
56	Isotopic reconnaissance of urban water supply system dynamics. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 6109-6125	5.5	14
55	Recent contrasting winter temperature changes over North America linked to enhanced positive Pacific-North American pattern. <i>Geophysical Research Letters</i> , 2015 , 42, 7750-7757	4.9	13
54	Stream Centric Methods for Determining Groundwater Contributions in Karst Mountain Watersheds. <i>Water Resources Research</i> , 2018 , 54, 6708-6724	5.4	12
53	Mechanistic model predicts tissue-environment relationships and trophic shifts in animal hydrogen and oxygen isotope ratios. <i>Oecologia</i> , 2019 , 191, 777-789	2.9	12
52	Influence of provenance and preservation on the carbon isotope variations of dispersed organic matter in ancient floodplain sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 4874-4891	3.6	12
51	Water Source Signatures in the Spatial and Seasonal Isotope Variation of Chinese Tap Waters. <i>Water Resources Research</i> , 2018 , 54, 9131-9143	5.4	12
50	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. <i>Ecosphere</i> , 2016 , 7, e01234	3.1	11
49	Interactive Effects of Vegetation Type and Topographic Position on Nitrogen Availability and Loss in a Temperate Montane Ecosystem. <i>Ecosystems</i> , 2017 , 20, 1073-1088	3.9	10
48	Floral change during the Initial Eocene Thermal Maximum in the Powder River Basin, Wyoming 2003 ,		10
47	Chemostratigraphic age model for the Tornillo Group: A possible link between fluvial stratigraphy and climate. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 457, 277-289	2.9	10
46	Stable isotope patterns of benthic organisms from the Great Lakes region indicate variable dietary overlap of <i>Diporeia</i> spp. and dreissenid mussels. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014 , 71, 1784-1795	2.4	9
45	Coupled and decoupled responses of continental and marine organic-sedimentary systems through the Paleocene-Eocene thermal maximum, New Jersey margin, USA. <i>Paleoceanography</i> , 2013 , 28, 105-115		9

44	Technical Note: A global database of the stable isotopic ratios of meteoric and terrestrial waters. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 4389-4396	5.5	9
43	Biased estimates of the isotope ratios of steady-state evaporation from the assumption of equilibrium between vapour and precipitation. <i>Hydrological Processes</i> , 2019 , 33, 2576-2590	3.3	8
42	Spatiotemporal variability in water sources of urban soils and trees in the semiarid, irrigated Salt Lake Valley. <i>Ecohydrology</i> , 2019 , 12, e2154	2.5	8
41	Carbon isotope excursions in paleosol carbonate marking five early Eocene hyperthermals in the Bighorn Basin, Wyoming		8
40	Isoscapes for Terrestrial Migration Research 2019 , 53-84		7
39	Physicochemical characteristics of a southern Lake Michigan river plume. <i>Journal of Great Lakes Research</i> , 2018 , 44, 209-218	3	7
38	assignR: An r package for isotope-based geographic assignment. <i>Methods in Ecology and Evolution</i> , 2020 , 11, 996-1001	7.7	6
37	Influence of Recent Climate Shifts on the Relationship Between ENSO and Asian Monsoon Precipitation Oxygen Isotope Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7825-7835	4.4	6
36	Paleocene-Eocene Microvertebrates in Freshwater Limestones of the Willwood Formation, Clarks Fork Basin, Wyoming. <i>Topics in Geobiology</i> , 2001 , 95-129	0.2	6
35	Stable Isotopes in Large Scale Hydrological Applications 2010 , 389-405		6
34	Acceleration of western Arctic sea ice loss linked to the Pacific North American pattern. <i>Nature Communications</i> , 2021 , 12, 1519	17.4	6
33	Every apple has a voice: using stable isotopes to teach about food sourcing and the water cycle. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3799-3810	5.5	5
32	Cyberinfrastructure for isotope analysis and modeling. <i>Eos</i> , 2012 , 93, 185-187	1.5	5
31	The isotopic geochemistry of CaCO ₃ encrustations in Taylor Valley, Antarctica: Implications for their origin. <i>Acta Geographica Slovenica</i> , 2020 , 60, 125-139	1.1	5
30	Stable Isotopes and Human Water Resources 2007 , 285-V		5
29	Local and Regional Modes of Hydroclimatic Change Expressed in Modern Multidecadal Precipitation Oxygen Isotope Trends. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092006	4.9	5
28	Navajo Nation, USA, Precipitation Variability from 2002 to 2015. <i>Journal of Contemporary Water Research and Education</i> , 2018 , 163, 109-123	1.2	5
27	Wintertime decoupling of urban valley and rural ridge hydrological processes revealed through stable water isotopes. <i>Atmospheric Environment</i> , 2019 , 213, 337-348	5.3	4

26	Multi-Substrate Radiocarbon Data Constrain Detrital and Reservoir Effects in Holocene Sediments of the Great Salt Lake, Utah. <i>Radiocarbon</i> , 2019 , 61, 905-926	4.6	4
25	Joint inversion of proxy system models to reconstruct paleoenvironmental time series from heterogeneous data. <i>Climate of the Past</i> , 2020 , 16, 65-78	3.9	4
24	Influence of diet and ambient water on hydrogen and oxygen stable isotope ratios in fish tissue: patterns within and among tissues and relationships with growth rates. <i>Hydrobiologia</i> , 2017 , 799, 111-121	2.4	4
23	Enabling online geospatial isotopic model development and analysis 2011 ,		4
22	Coupled carbon and oxygen isotope model for pedogenic carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 294, 126-144	5.5	4
21	Calibration chain transformation improves the comparability of organic hydrogen and oxygen stable isotope data. <i>Methods in Ecology and Evolution</i> , 2021 , 12, 732-747	7.7	4
20	Warm Terrestrial Subtropics During the Paleocene and Eocene: Carbonate Clumped Isotope ($\delta^{13}C$) Evidence From the Tornillo Basin, Texas (USA). <i>Paleoceanography and Paleoclimatology</i> , 2018 , 33, 1230-1249	3.4	4
19	Plant wax integration and transport from the Mississippi River Basin to the Gulf of Mexico inferred from GIS-enabled isoscapes and mixing models. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 257, 131-149	5.5	3
18	Isoscapes in a Rapidly Changing and Increasingly Interconnected World 2010 , 425-432		3
17	Stable Isotopes and Human Water Resources: Signals of Change. <i>Journal of Nano Education (Print)</i> , 2007 , 283-300		3
16	Potential impacts to perennial springs from tar sand mining, processing, and disposal on the Tavaputs Plateau, Utah, USA. <i>Science of the Total Environment</i> , 2015 , 532, 20-30	10.2	2
15	Differential habitat use patterns of yellow perch <i>Perca flavescens</i> in eastern Lake Michigan and connected drowned river mouth lakes. <i>Journal of Great Lakes Research</i> , 2020 , 46, 1412-1422	3	2
14	Combining Models of Environment, Behavior, and Physiology to Predict Tissue Hydrogen and Oxygen Isotope Variance Among Individual Terrestrial Animals. <i>Frontiers in Ecology and Evolution</i> , 2020 , 8,	3.7	2
13	Decreased soil carbon in a warming world: Degraded pyrogenic carbon during the Paleocene-Eocene Thermal Maximum, Bighorn Basin, Wyoming. <i>Earth and Planetary Science Letters</i> , 2021 , 566, 116970	5.3	2
12	Deep lake water balance by dual water isotopes in Yungui Plateau, southwest China. <i>Journal of Hydrology</i> , 2021 , 593, 125886	6	2
11	The Soil Water Isotope Storage System (SWISS): An integrated soil water vapor sampling and multiport storage system for stable isotope geochemistry. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8783	2.2	1
10	A 3-D groundwater isoscape of the contiguous USA for forensic and water resource science.. <i>PLoS ONE</i> , 2022 , 17, e0261651	3.7	1
9	Effects of the Paleocene-Eocene Thermal Maximum on Terrestrial Plants and Carbon Storage. <i>The Paleontological Society Special Publications</i> , 2014 , 13, 131-132		1

8	Lake water based isoscape in central-south Chile reflects meteoric water. <i>Scientific Reports</i> , 2021 , 11, 8725	4.9	1
7	The Wasatch Environmental Observatory: A mountain to urban research network in the semi-arid western US. <i>Hydrological Processes</i> , 2021 , 35, e14352	3.3	1
6	Stable Isotopes in Precipitation and Meteoric Water: Sourcing and Tracing the North American Monsoon in Arizona, New Mexico, and Utah. <i>Water Resources Research</i> , 2021 , 57, e2021WR030039	5.4	0
5	Calibration Strategies for Detecting Macroscale Patterns in NEON Atmospheric Carbon Isotope Observations. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005862	3.7	0
4	Streamlining geospatial data processing for isotopic landscape modeling. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e6324	1.4	0
3	Groundwater-Mediated Memory of Past Climate Controls Water Yield in Snowmelt-Dominated Catchments. <i>Water Resources Research</i> , 2021 , 57, e2021WR030605	5.4	0
2	Climate impacts on source contributions and evaporation to flow in the Snake River Basin using surface water isoscapes (E and D). <i>Water Resources Research</i> , 2021 , 57, e2020WR029157	5.4	
1	Spatial and Temporal Variations in Plant Source Water: O and H Isotope Ratios from Precipitation to Xylem Water. <i>Tree Physiology</i> , 2022 , 501-535		