

# Sebastian Breitenbach

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,007  
citations

126907

33  
h-index

161849

54  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and Disintegration of Maya Political Systems in Response to Climate Change. <i>Science</i> , 2012, 338, 788-791.	12.6	421
2	Strong influence of water vapor source dynamics on stable isotopes in precipitation observed in Southern Meghalaya, NE India. <i>Earth and Planetary Science Letters</i> , 2010, 292, 212-220.	4.4	272
3	Temperature dependence of oxygen- and clumped isotope fractionation in carbonates: A study of travertines and tufas in the 6â€“95Â°C temperature range. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 172-192.	3.9	199
4	Indian monsoon variability on millennial-orbital timescales. <i>Scientific Reports</i> , 2016, 6, 24374.	3.3	194
5	Trends and oscillations in the Indian summer monsoon rainfall over the last two millennia. <i>Nature Communications</i> , 2015, 6, 6309.	12.8	177
6	Reducing Uncertainties in Carbonate Clumped Isotope Analysis Through Consistent Carbonateâ€“Based Standardization. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2895-2914.	2.5	172
7	COConstructing Proxy Records from Age models (COPRA). <i>Climate of the Past</i> , 2012, 8, 1765-1779.	3.4	171
8	Longâ€“term performance of the Kiel carbonate device with a new correction scheme for clumped isotope measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1705-1715.	1.5	166
9	Climate variations of Central Asia on orbital to millennial timescales. <i>Scientific Reports</i> , 2016, 6, 36975.	3.3	136
10	Effects of Improved <sup>17</sup> O Correction on Interlaboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineralâ€“Specific Offsets, and Temperature Dependence of Acid Digestion Fractionation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3495-3519.	2.5	134
11	Holocene moisture changes in western China, Central Asia, inferred from stalagmites. <i>Quaternary Science Reviews</i> , 2017, 158, 15-28.	3.0	124
12	Carbon and oxygen isotope analysis of small carbonate samples (20 to 100â€“Âµg) with a GasBench II preparation device. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1910-1914.	1.5	115
13	Background effects on Faraday collectors in gasâ€“source mass spectrometry and implications for clumped isotope measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 603-612.	1.5	114
14	Aerosol forcing of the position of the intertropical convergence zone since ad 1550. <i>Nature Geoscience</i> , 2015, 8, 195-200.	12.9	112
15	Speleothems Reveal 500,000-Year History of Siberian Permafrost. <i>Science</i> , 2013, 340, 183-186.	12.6	103
16	Seasonality of westerly moisture transport in the East Asian summer monsoon and its implications for interpreting precipitation <sup>18</sup> O. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5850-5862.	3.3	95
17	Closing in on the marine <sup>238</sup> U/ <sup>235</sup> U budget. <i>Chemical Geology</i> , 2016, 420, 11-22.	3.3	92
18	Late Holocene Asian summer monsoon dynamics from small but complex networks of paleoclimate data. <i>Climate Dynamics</i> , 2013, 41, 3-19.	3.8	76

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19	See "saw relationship of the Holocene East Asian" Australian summer monsoon. <i>Nature Communications</i> , 2016, 7, 12929.	12.8	76
20	Precipitation evolution of Central Asia during the last 5000 years. <i>Holocene</i> , 2017, 27, 142-154.	1.7	75
21	Rainfall variations in central Indo-Pacific over the past 2,700 y. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17201-17206.	7.1	73
22	Cave ventilation and rainfall signals in dripwater in a monsoonal setting " a monitoring study from NE India. <i>Chemical Geology</i> , 2015, 402, 111-124.	3.3	72
23	Persistent northward North Atlantic tropical cyclone track migration over the past five centuries. <i>Scientific Reports</i> , 2016, 6, 37522.	3.3	53
24	SISALv2: a comprehensive speleothem isotope database with multiple age"depth models. <i>Earth System Science Data</i> , 2020, 12, 2579-2606.	9.9	53
25	Abrupt transitions in time series with uncertainties. <i>Nature Communications</i> , 2018, 9, 48.	12.8	52
26	Tropical rainfall over the last two millennia: evidence for a low-latitude hydrologic seesaw. <i>Scientific Reports</i> , 2017, 7, 45809.	3.3	48
27	Northeast Indian stalagmite records Pacific decadal climate change: Implications for moisture transport and drought in India. <i>Geophysical Research Letters</i> , 2015, 42, 4124-4132.	4.0	47
28	Palaeoclimate evidence of vulnerable permafrost during times of low sea ice. <i>Nature</i> , 2020, 577, 221-225.	27.8	45
29	Intertropical convergence zone variability in the Neotropics during the Common Era. <i>Science Advances</i> , 2020, 6, eaax3644.	10.3	45
30	Coupled Mg/Ca and clumped isotope analyses of foraminifera provide consistent water temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 283-296.	3.9	40
31	Lag and mixing during sediment transfer across the Tian Shan piedmont caused by climate-driven aggradation"incision cycles. <i>Basin Research</i> , 2018, 30, 613-635.	2.7	39
32	The Indian Summer Monsoon from a Speleothem $\delta^{18}\text{O}$ Perspective" A Review. <i>Quaternary</i> , 2018, 1, 29.	2.0	39
33	Exploring the impact of diagenesis on (isotope) geochemical and microstructural alteration features in biogenic aragonite. <i>Sedimentology</i> , 2017, 64, 1354-1380.	3.1	38
34	Climatic and in-cave influences on $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ in a stalagmite from northeastern India through the last deglaciation. <i>Quaternary Research</i> , 2017, 88, 458-471.	1.7	32
35	Intra- and inter-annual uranium concentration variability in a Belizean stalagmite controlled by prior aragonite precipitation: A new tool for reconstructing hydro-climate using aragonitic speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 332-346.	3.9	31
36	Recurrence plot analysis of irregularly sampled data. <i>Physical Review E</i> , 2018, 98, .	2.1	29

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37	What we talk about when we talk about seasonality – A transdisciplinary review. <i>Earth-Science Reviews</i> , 2022, 225, 103843.	9.1	28
38	Sensitivity of speleothem records in the Indian Summer Monsoon region to dry season infiltration. <i>Scientific Reports</i> , 2019, 9, 5091.	3.3	26
39	Persistent drying in the tropics linked to natural forcing. <i>Nature Communications</i> , 2015, 6, 7627.	12.8	23
40	Holocene interaction of maritime and continental climate in Central Europe: New speleothem evidence from Central Germany. <i>Global and Planetary Change</i> , 2019, 176, 144-161.	3.5	23
41	Laser Ablation – Accelerator Mass Spectrometry: An Approach for Rapid Radiocarbon Analyses of Carbonate Archives at High Spatial Resolution. <i>Analytical Chemistry</i> , 2016, 88, 8570-8576.	6.5	21
42	A stalagmite test of North Atlantic SST and Iberian hydroclimate linkages over the last two glacial cycles. <i>Climate of the Past</i> , 2018, 14, 1893-1913.	3.4	21
43	Detecting and quantifying palaeoseasonality in stalagmites using geochemical and modelling approaches. <i>Quaternary Science Reviews</i> , 2021, 254, 106784.	3.0	20
44	Local and Regional Indian Summer Monsoon Precipitation Dynamics During Termination II and the Last Interglacial. <i>Geophysical Research Letters</i> , 2019, 46, 12454-12463.	4.0	15
45	Ventilation and cave air PCO <sub>2</sub> in the Bunker-Emst Cave System (NW Germany): implications for speleothem proxy data. <i>Journal of Cave and Karst Studies</i> , 2019, 81, 98-112.	0.6	13
46	Pacific climate reflected in Waipuna Cave drip water hydrochemistry. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3361-3380.	4.9	12
47	Speleological and environmental history of Lida Ajer cave, western Sumatra. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200494.	4.0	12
48	Fluvio-lacustrine sedimentation in the Agadir-Tissint Feija (Anti-Atlas, Morocco): A promising palaeoclimate archive for the last glacial cycle in northwest Africa. <i>Depositional Record</i> , 2019, 5, 362-387.	1.7	6
49	Effects of organic matter complexation on partitioning of transition metals into calcite: Cave-analogue crystal growth experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 317, 118-118.	3.9	6
50	Sampling rate-corrected analysis of irregularly sampled time series. <i>Physical Review E</i> , 2022, 105, 024206.	2.1	6
51	Archaeological and environmental cave records in the Gobi-Altai Mountains, Mongolia. <i>Quaternary International</i> , 2021, 586, 66-89.	1.5	4
52	Hunting, herding, and people in the rock art of Mongolia: New discoveries in the Gobi-Altai Mountains. <i>Archaeological Research in Asia</i> , 2021, 26, 100267.	0.7	4
53	A simplified isotope dilution approach for the U–Pb dating of speleogenic and other low- <sup>232</sup> Th carbonates by multi-collector ICP-MS. <i>Geochronology</i> , 2022, 4, 33-54.	2.5	2
54	Lignin oxidation products in soil, dripwater and speleothems from four different sites in New Zealand. <i>Biogeosciences</i> , 2021, 18, 2289-2300.	3.3	1