

# Jens Fiebig

## List of Publications by Year in descending order

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93  
papers

4,783  
citations

71102

41  
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98798

67  
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95  
docs citations

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times ranked

4416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate records from a bivalved <i>Methuselah</i> ( <i>Arctica islandica</i> , Mollusca; Iceland). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 228, 130-148.	2.3	283
2	Floral changes across the Triassic/Jurassic boundary linked to flood basalt volcanism. <i>Nature Geoscience</i> , 2009, 2, 589-594.	12.9	227
3	Mutvei's solution: An ideal agent for resolving microgrowth structures of biogenic carbonates. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 228, 149-166.	2.3	204
4	Serpentinite Subduction: Implications for Fluid Processes and Trace-Element Recycling. <i>International Geology Review</i> , 2004, 46, 595-613.	2.1	175
5	Daily Growth Rates in Shells of <i>Arctica islandica</i> : Assessing Sub-seasonal Environmental Controls on a Long-lived Bivalve Mollusk. <i>Palaios</i> , 2005, 20, 78-92.	1.3	166
6	The origin of the fumaroles of La Solfatara (Campi Flegrei, South Italy). <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3040-3055.	3.9	161
7	Effects of Improved $\delta^{17}\text{O}$ Correction on Interlaboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineral-Specific Offsets, and Temperature Dependence of Acid Digestion Fractionation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3495-3519.	2.5	134
8	Fluid history of UHP metamorphism in Dabie Shan, China: a fluid inclusion and oxygen isotope study on the coesite-bearing eclogite from Bixiling. <i>Contributions To Mineralogy and Petrology</i> , 2000, 139, 1-16.	3.1	133
9	Background effects on Faraday collectors in gas-source mass spectrometry and implications for clumped isotope measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 603-612.	1.5	114
10	InterCarb: A Community Effort to Improve Interlaboratory Standardization of the Carbonate Clumped Isotope Thermometer Using Carbonate Standards. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009588.	2.5	110
11	Methane clumped isotopes: Progress and potential for a new isotopic tracer. <i>Organic Geochemistry</i> , 2017, 113, 262-282.	1.8	100
12	Sea surface water temperatures over the period 1884–1983 reconstructed from oxygen isotope ratios of a bivalve mollusk shell ( <i>Arctica islandica</i> , southern North Sea). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 212, 215-232.	2.3	98
13	Hydrogen sulphide poisoning of shallow seas following the end-Triassic extinction. <i>Nature Geoscience</i> , 2012, 5, 662-667.	12.9	97
14	Calibrating the magnitude of the Toarcian carbon cycle perturbation. <i>Paleoceanography</i> , 2015, 30, 495-509.	3.0	97
15	Carbon cycle perturbation and stabilization in the wake of the Triassic–Jurassic boundary mass-extinction event. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	96
16	Natural evidence for rapid abiogenic hydrothermal generation of CH <sub>4</sub> . <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3028-3039.	3.9	93
17	Chemical and isotopic equilibrium between CO <sub>2</sub> and CH <sub>4</sub> in fumarolic gas discharges: Generation of CH <sub>4</sub> in arc magmatic-hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2321-2334.	3.9	91
18	Empirical calibration of the clumped isotope paleothermometer using calcites of various origins. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 127-144.	3.9	87

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19	Clumped isotope analysis of carbonates: comparison of two different acid digestion techniques. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1631-1642.	1.5	83
20	Origins of methane discharging from volcanic-hydrothermal, geothermal and cold emissions in Italy. <i>Chemical Geology</i> , 2012, 310-311, 36-48.	3.3	76
21	Time scales of deformation and exhumation in extensional detachment systems determined by high-spatial resolution in situ UV-laser $^{40}\text{Ar}/^{39}\text{Ar}$ dating. <i>Earth and Planetary Science Letters</i> , 2005, 233, 375-390.	4.4	75
22	Geochemical evidence for mixing of magmatic fluids with seawater, Nisyros hydrothermal system, Greece. <i>Bulletin of Volcanology</i> , 2003, 65, 505-516.	3.0	72
23	Excess methane in continental hydrothermal emissions is abiogenic. <i>Geology</i> , 2009, 37, 495-498.	4.4	71
24	No causal link between terrestrial ecosystem change and methane release during the end-Triassic mass extinction. <i>Geology</i> , 2012, 40, 531-534.	4.4	70
25	Dual clumped isotope thermometry resolves kinetic biases in carbonate formation temperatures. <i>Nature Communications</i> , 2020, 11, 4005.	12.8	70
26	In situ sulfur isotope analysis by laser ablation MC-ICPMS. <i>Applied Geochemistry</i> , 2006, 21, 782-787.	3.0	67
27	Annually resolved $\delta^{13}\text{C}$ shell chronologies of long-lived bivalve mollusks ( <i>Arctica islandica</i> ) reveal oceanic carbon dynamics in the temperate North Atlantic during recent centuries. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 302, 31-42.	2.3	67
28	Middle Miocene long-term continental temperature change in and out of pace with marine climate records. <i>Scientific Reports</i> , 2020, 10, 7989.	3.3	64
29	Spatial variability of watermass conditions within the European Epicontinental Seaway during the Early Jurassic (Pliensbachian–Toarcian). <i>Sedimentology</i> , 2013, 60, 359-390.	3.1	60
30	Seasonality in the North Sea during the Allerød and Late Medieval Climate Optimum using bivalve sclerochronology. <i>International Journal of Earth Sciences</i> , 2009, 98, 83-98.	1.8	57
31	Composition and origin of organic matter in surface sediments of Lake Sarbsko: A highly eutrophic and shallow coastal lake (northern Poland). <i>Organic Geochemistry</i> , 2011, 42, 1025-1038.	1.8	55
32	Abiotic Synthesis of Methane and Organic Compounds in Earth's Lithosphere. <i>Elements</i> , 2020, 16, 25-31.	0.5	55
33	Combined high-precision $\delta^{14}\text{C}$ and $\delta^{17}\text{O}$ analysis of carbonates. <i>Chemical Geology</i> , 2019, 522, 186-191.	3.3	54
34	The Small Spring Method (SSM) for the definition of stable isotope–elevation relationships in Northern Calabria (Southern Italy). <i>Applied Geochemistry</i> , 2015, 63, 333-346.	3.0	51
35	Rapid Middle Eocene temperature change in western North America. <i>Earth and Planetary Science Letters</i> , 2016, 450, 132-139.	4.4	50
36	Carbon cycle dynamics following the end-Triassic mass extinction: Constraints from paired $\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{13}\text{C}_{\text{org}}$ records. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	48

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37	Isotope systematics of Icelandic thermal fluids. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 337, 146-164.	2.1	47
38	Assessing kinetic fractionation in brachiopod calcite using clumped isotopes. <i>Scientific Reports</i> , 2018, 8, 533.	3.3	47
39	Excimer laser isotope-ratio-monitoring mass spectrometry for in situ oxygen isotope analysis. <i>Chemical Geology</i> , 2002, 182, 179-194.	3.3	45
40	Clumped isotope record of salinity variations in the Subboreal Province at the Middleâ€“Late Jurassic transition. <i>Global and Planetary Change</i> , 2018, 167, 172-189.	3.5	45
41	Synchronous cooling and decline in monsoonal rainfall in northeastern Tibet during the fall into the Oligocene icehouse. <i>Geology</i> , 2019, 47, 203-206.	4.4	45
42	High-precision oxygen and carbon isotope analysis of very small (10-30 Åµg) amounts of carbonates using continuous flow isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2355-2358.	1.5	41
43	Reliability of Multitaxon, Multiproxy Reconstructions of Environmental Conditions from Accretionary Biogenic Skeletons. <i>Journal of Geology</i> , 2006, 114, 267-285.	1.4	41
44	Hydrothermal alteration of biotite and plagioclase as inferred from intragranular oxygen isotope- and cation-distribution patterns. <i>European Journal of Mineralogy</i> , 2002, 14, 49-60.	1.3	38
45	An intractable climate archive â€” Sclerochronological and shell oxygen isotope analyses of the Pacific geoduck, <i>Panopea abrupta</i> (bivalve mollusk) from Protection Island (Washington State, USA). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 269, 115-126.	2.3	36
46	Hydrothermal methane fluxes from the soil at Pantelleria island (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2009, 187, 147-157.	2.1	34
47	Isotopic patterns of hydrothermal hydrocarbons emitted from Mediterranean volcanoes. <i>Chemical Geology</i> , 2015, 396, 152-163.	3.3	33
48	Calibration of the dual clumped isotope thermometer for carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 312, 235-256.	3.9	33
49	Abiogenesis not required to explain the origin of volcanic-hydrothermal hydrocarbons. <i>Geochemical Perspectives Letters</i> , 0, , 23-27.	5.0	33
50	Holocene seasonal environmental trends at Tokyo Bay, Japan, reconstructed from bivalve mollusk shellsâ€”implications for changes in the East Asian monsoon and latitudinal shifts of the Polar Front. <i>Quaternary Science Reviews</i> , 2004, 23, 1137-1150.	3.0	32
51	Biogeochemical processes involving dissolved CO <sub>2</sub> and CH <sub>4</sub> at Albano, Averno, and Monticchio meromictic volcanic lakes (Centralâ€“Southern Italy). <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	31
52	High-precision in situ oxygen isotope analysis of quartz using an ArF laser. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 687-702.	3.9	30
53	Carbon-bearing gas geothermometers for volcanic-hydrothermal systems. <i>Chemical Geology</i> , 2013, 351, 66-75.	3.3	29
54	The enigmatic ichnofossil &lt;i>Tisooa siphonalis&lt;/i> and widespread authigenic seep carbonate formation during the Late Pliensbachian in southern France. <i>Biogeosciences</i> , 2010, 7, 3123-3138.	3.3	28

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55	Southern high-latitude warmth during the Jurassic–Cretaceous: New evidence from clumped isotope thermometry. <i>Geology</i> , 2019, 47, 724-728.	4.4	28
56	ENSO-coupled precipitation records (1959–2004) based on shells of freshwater bivalve mollusks ( <i>Margaritifera falcata</i> ) from British Columbia. <i>International Journal of Earth Sciences</i> , 2007, 96, 525-540.	1.8	27
57	Slight pressure imbalances can affect accuracy and precision of dual inlet-based clumped isotope analysis. <i>Isotopes in Environmental and Health Studies</i> , 2016, 52, 12-28.	1.0	27
58	Dietary versatility of Early Pleistocene hominins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13330-13335.	7.1	27
59	Clumped isotope thermometry of carbonate-bearing apatite: Revised sample pre-treatment, acid digestion, and temperature calibration. <i>Chemical Geology</i> , 2016, 443, 97-110.	3.3	26
60	Persistent C3 vegetation accompanied Plio-Pleistocene hominin evolution in the Malawi Rift (Chiwondo Beds, Malawi). <i>Journal of Human Evolution</i> , 2016, 90, 163-175.	2.6	24
61	Carbonate clumped isotope evidence for latitudinal seawater temperature gradients and the oxygen isotope composition of Early Cretaceous seas. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 552, 109777.	2.3	24
62	Oceanic heat pulses fueling moisture transport towards continental Europe across the mid-Pleistocene transition. <i>Quaternary Science Reviews</i> , 2018, 179, 48-58.	3.0	21
63	Penultimate deglaciation Asian monsoon response to North Atlantic circulation collapse. <i>Nature Geoscience</i> , 2021, 14, 937-941.	12.9	21
64	The hydrothermal system of the Domuyo volcanic complex (Argentina): A conceptual model based on new geochemical and isotopic evidences. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 328, 198-209.	2.1	19
65	High temperature generation and equilibration of methane in terrestrial geothermal systems: Evidence from clumped isotopologues. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 309, 209-234.	3.9	17
66	Stable isotope dietary reconstructions of herbivore enamel reveal heterogeneous savanna ecosystems in the Plio-Pleistocene Malawi Rift. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 459, 170-181.	2.3	14
67	Decline of soil respiration in northeastern Tibet through the transition into the Oligocene icehouse. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 560, 110016.	2.3	14
68	A new sea-level record for the Neogene/Quaternary boundary reveals transition to a more stable East Antarctic Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30980-30987.	7.1	14
69	Coral climate proxy data from a marginal reef area, Kuwait, northern Arabian–Persian Gulf. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 228, 86-95.	2.3	13
70	Eocene–Oligocene proto–Cascades topography revealed by clumped ( $\delta^{47}\text{Ar}$ ) and oxygen isotope ( $\delta^{18}\text{O}$ ) geochemistry (Chumstick Basin, WA, USA). <i>Tectonics</i> , 2016, 35, 546-564.	2.8	13
71	Sclerochronology – a highly versatile tool for mariculture and reconstruction of life history traits of the queen conch, <i>Strombus gigas</i> (Gastropoda). <i>Aquatic Living Resources</i> , 2009, 22, 307-318.	1.2	12
72	Geochemical constraints on volatile sources and subsurface conditions at Mount Martin, Mount Mageik, and Trident Volcanoes, Katmai Volcanic Cluster, Alaska. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 64-81.	2.1	12

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73	Late Maastrichtian carbon isotope stratigraphy and cyclostratigraphy of the Newfoundland Margin (Site U1403, IODP Leg 342). <i>Newsletters on Stratigraphy</i> , 2018, 51, 245-260.	1.2	12
74	Refining the temperature dependence of the oxygen and clumped isotopic compositions of structurally bound carbonate in apatite. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 253, 19-38.	3.9	12
75	Equilibrium and kinetic controls on molecular hydrogen abundance and hydrogen isotope fractionation in hydrothermal fluids. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117338.	4.4	12
76	Comment on “Stable carbon isotopes in freshwater mussel shells: Environmental record or marker for metabolic activity?” by J. Geist et al. (2005). <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2658-2661.	3.9	11
77	Stable isotopic and elemental characteristics of pale and dark layers in a late Pliocene lignite deposit basin in Yunnan Province, southwestern China: Implications for paleoenvironmental changes. <i>International Journal of Coal Geology</i> , 2020, 226, 103498.	5.0	11
78	Plio–Pleistocene glacial–interglacial productivity changes in the eastern equatorial Pacific upwelling system. <i>Paleoceanography</i> , 2016, 31, 453-470.	3.0	10
79	Miocene high elevation in the Central Alps. <i>Solid Earth</i> , 2021, 12, 2615-2631.	2.8	10
80	EVALUATION OF OXYGEN ISOTOPE AND SR/CA RATIOS FROM A MALDIVIAN SCLERACTINIAN CORAL FOR RECONSTRUCTION OF CLIMATE VARIABILITY IN THE NORTHWESTERN INDIAN OCEAN. <i>Palaios</i> , 2013, 28, 42-55.	1.3	9
81	Freshwater pearl mussels from northern Sweden serve as long-term, high-resolution stream water isotope recorders. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 673-696.	4.9	8
82	Thermocline state change in the eastern equatorial Pacific during the late Pliocene/early Pleistocene intensification of Northern Hemisphere glaciation. <i>Climate of the Past</i> , 2018, 14, 1079-1095.	3.4	7
83	Glacial–interglacial changes in equatorial Pacific surface-water structure during the Plio–Pleistocene intensification of Northern Hemisphere Glaciation. <i>Earth and Planetary Science Letters</i> , 2017, 463, 69-80.	4.4	6
84	Central Asian modulation of Northern Hemisphere moisture transfer over the Late Cenozoic. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	6
85	Devils Hole Calcite Was Precipitated at $\pm 1^\circ\text{C}$ Stable Aquifer Temperatures During the Last Half Million Years. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093257.	4.0	6
86	Tales of mystery and imagination in stable isotope geochemistry: celebrating the 75th birthday of Jochen Hoefs. <i>Isotopes in Environmental and Health Studies</i> , 2016, 52, 1-11.	1.0	5
87	Calcium isotope fractionation upon experimental apatite formation. <i>Chemical Geology</i> , 2020, 551, 119737.	3.3	5
88	Paleohydrological changes in the Eastern Mediterranean region during the early to mid-Holocene recorded in plant wax n-alkane distributions and $\delta^{13}\text{C}_{\text{TOC}}$ – New data from Tenaghi Philippon, NE Greece. <i>Organic Geochemistry</i> , 2017, 110, 100-109.	1.8	4
89	Warm High–Elevation Mid–Latitudes During the Miocene Climatic Optimum: Paleosol Clumped Isotope Temperatures From the Northern Rocky Mountains, USA. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003991.	2.9	3
90	Host-influenced geochemical signature in the parasitic foraminifera &lt;i>Hyrrokin sarcophaga</i>. <i>Biogeosciences</i> , 2021, 18, 4733-4753.	3.3	3

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91	Clumped isotope constraints on warming and precipitation seasonality in Mongolia following Altai uplift. <i>Numerische Mathematik</i> , 2022, 322, 28-54.	1.4	3
92	Changes in tropical Atlantic surface-water environments inferred from late Albian planktic foraminiferal assemblages (ODP Site 1258, Demerara Rise). <i>Cretaceous Research</i> , 2018, 87, 74-83.	1.4	2
93	Stable Biological Production in the Eastern Equatorial Pacific Across the Pliocene–Pleistocene Transition ( $\delta^{14}C_{org} = -20 \pm 2.0 \text{‰}$ ). <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003965.	2.9	2