

Tobias Kluge

List of Publications by Year in descending order

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39
papers

1,596
citations

394421

19
h-index

330143

37
g-index

45
all docs

45
docs citations

45
times ranked

1558
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature dependence of oxygen- and clumped isotope fractionation in carbonates: A study of travertines and tufas in the 6–95°C temperature range. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 172-192.	3.9	199
2	Effects of Improved ¹⁷ 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
3	Laboratory calibration of the calcium carbonate clumped isotope thermometer in the 25–250 °C temperature range. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 157, 213-227.	3.9	133
4	The magnesium isotope (²⁶ Mg) signature of dolomites. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 131-151.	3.9	125
5	A Unified Clumped Isotope Thermometer Calibration (0.5–1,100°C) Using Carbonate-Based Standardization. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092069.	4.0	116
6	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
7	Quantifying kinetic fractionation in Bunker Cave speleothems using ¹⁷ O. <i>Quaternary Science Reviews</i> , 2012, 49, 82-94.	3.0	75
8	Dating cave drip water by tritium. <i>Journal of Hydrology</i> , 2010, 394, 396-406.	5.4	67
9	A new tool for palaeoclimate reconstruction: Noble gas temperatures from fluid inclusions in speleothems. <i>Earth and Planetary Science Letters</i> , 2008, 269, 408-415.	4.4	57
10	Deccan volcanism caused coupled pCO ₂ and terrestrial temperature rises, and pre-impact extinctions in northern China. <i>Geology</i> , 2018, 46, 271-274.	4.4	50
11	Tracing and quantifying groundwater inflow into lakes using a simple method for radon-222 analysis. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 1621-1631.	4.9	49
12	Reconstruction of drip-water ¹⁸ O based on calcite oxygen and clumped isotopes of speleothems from Bunker Cave (Germany). <i>Climate of the Past</i> , 2013, 9, 377-391.	3.4	47
13	Devils Hole paleotemperatures and implications for oxygen isotope equilibrium fractionation. <i>Earth and Planetary Science Letters</i> , 2014, 400, 251-260.	4.4	45
14	Hydrogeochemistry and fractionation pathways of Mg isotopes in a continental weathering system: Lessons from field experiments. <i>Chemical Geology</i> , 2012, 300-301, 109-122.	3.3	42
15	Localising and quantifying groundwater inflow into lakes using high-precision ²²² Rn profiles. <i>Journal of Hydrology</i> , 2012, 450-451, 70-81.	5.4	39
16	Clumped-isotope thermometry of magnesium carbonates in ultramafic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 222-250.	3.9	38
17	Clumped isotope thermometry of cryogenic cave carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 541-554.	3.9	31
18	Application of redox sensitive proxies and carbonate clumped isotopes to Mesozoic and Palaeozoic radial fibrous calcite cements. <i>Chemical Geology</i> , 2015, 417, 306-321.	3.3	28

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19	A comparison of isotope ratio mass spectrometry and cavity ring-down spectroscopy techniques for isotope analysis of fluid inclusion water. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8837.	1.5	22
20	Effects of brine chemistry and polymorphism on clumped isotopes revealed by laboratory precipitation of mono- and multiphase calcium carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 160, 155-168.	3.9	21
21	Fracture dolomite as an archive of continental palaeo-environmental conditions. <i>Communications Earth & Environment</i> , 2020, 1, .	6.8	18
22	Oxygen and clumped isotope fractionation during the formation of Mg calcite via an amorphous precursor. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 276, 258-273.	3.9	18
23	Optical clumped isotope thermometry of carbon dioxide. <i>Scientific Reports</i> , 2019, 9, 4765.	3.3	17
24	Laser Absorption Spectroscopy of Rare and Doubly Substituted Carbon Dioxide Isotopologues. <i>Analytical Chemistry</i> , 2019, 91, 15491-15499.	6.5	16
25	Assessment of Factors Controlling Clumped Isotopes and $\delta^{18}\text{O}$ Values of Hydrothermal Vent Calcites. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1844-1858.	2.5	12
26	Isotope exchange rates in dissolved inorganic carbon between 40°C and 90°C. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 56-72.	3.9	12
27	Aragonite-calcite veins of the Erzberg iron ore deposit (Austria): Environmental implications from young fractures. <i>Sedimentology</i> , 2019, 66, 604-635.	3.1	11
28	Speleothem record from Pentadactylos cave (Cyprus): new insights into climatic variations during MIS 6 and MIS 5 in the Eastern Mediterranean. <i>Quaternary Science Reviews</i> , 2020, 250, 106663.	3.0	11
29	Noble gas concentrations in fluid inclusions as tracer for the origin of coarse-crystalline cryogenic cave carbonates. <i>Chemical Geology</i> , 2014, 368, 54-62.	3.3	9
30	Assessing the use of ^3H - ^3He dating to determine the subsurface transit time of cave drip waters. <i>Isotopes in Environmental and Health Studies</i> , 2010, 46, 299-311.	1.0	7
31	Technical Note: A simple method for vaterite precipitation for isotopic studies: implications for bulk and clumped isotope analysis. <i>Biogeosciences</i> , 2015, 12, 3289-3299.	3.3	7
32	Evaluating the potential of tree-ring methodology for cross-dating of three annually laminated stalagmites from Zoolithencave (SE Germany). <i>Quaternary Geochronology</i> , 2019, 52, 37-50.	1.4	7
33	Geochemistry of Vein Calcites Hosted in the Troodos Pillow Lavas and Their Implications for the Timing and Physicochemical Environment of Fracturing, Fluid Circulation, and Vein Mineral Growth. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5913-5938.	2.5	6
34	Paleotemperature reconstruction using noble gas concentrations in speleothem fluid inclusions. <i>PAGES News</i> , 2008, 13, 10-12.	0.3	6
35	Last glacial millennial-scale hydro-climate and temperature changes in Puerto Rico constrained by speleothem fluid inclusion $\delta^{18}\text{O}$ and $\delta^2\text{H}$ values. <i>Climate of the Past</i> , 2022, 18, 167-181.	3.4	5
36	CO_2 , gas-H ₂ O liquid isotope exchange rates up to 150°C – Experimental study and application to hydrothermal CO_2 . <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 167-183.	3.9	2

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37	Investigation of disequilibrium clumped isotope fractionation in (speleothem) CaCO ₃ with cave analogous laboratory experiments using thin films of flowing solution. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 321, 244-264.	3.9	2
38	Direct simultaneous spectroscopic measurements of rare and doubly-substituted CO ₂ isotopologues using interband cascade lasers. , 2018, , .		0
39	Die Travertine von Böttlingen und Laichingen (Miozän, mittlere Schwäbische Alb) – Archive für ein Paläo-Thermalwassersystem. <i>Zeitschrift Der Deutschen Gesellschaft Für Geowissenschaften</i> , 2020, 171, 365-389.	0.4	0