

Katharine Huntington

List of Publications by Year in descending order

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54
papers

2,971
citations

159585

30
h-index

168389

53
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56
all docs

56
docs citations

56
times ranked

2236
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods and limitations of $\delta^{17}\text{O}$ clumped CO_2 isotope ($\delta^{17}\text{O}$) analysis by gas-source isotope ratio mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1318-1329.	1.6	371
2	Toward a universal carbonate clumped isotope calibration: Diverse synthesis and preparatory methods suggest a single temperature relationship. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 104-131.	3.9	141
3	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
4	Use of Clumped-Isotope Thermometry To Constrain the Crystallization Temperature of Diagenetic Calcite. <i>Journal of Sedimentary Research</i> , 2011, 81, 656-669.	1.6	126
5	Choice of ^{17}O correction affects clumped isotope ($\delta^{17}\text{O}$) values of CO_2 measured with mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2607-2616.	1.5	126
6	Influence of climate change and uplift on Colorado Plateau paleotemperatures from carbonate clumped isotope thermometry. <i>Tectonics</i> , 2010, 29, .	2.8	116
7	A Unified Clumped Isotope Thermometer Calibration ($0.5 \pm 1,100^\circ\text{C}$) Using Carbonate-Based Standardization. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092069.	4.0	116
8	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
9	Climate change and Late Pliocene acceleration of erosion in the Himalaya. <i>Earth and Planetary Science Letters</i> , 2006, 252, 107-118.	4.4	107
10	Hot or not? Impact of seasonally variable soil carbonate formation on paleotemperature and O-isotope records from clumped isotope thermometry. <i>Earth and Planetary Science Letters</i> , 2013, 361, 208-218.	4.4	101
11	Spatial controls on erosion in the Three Rivers Region, southeastern Tibet and southwestern China. <i>Earth and Planetary Science Letters</i> , 2011, 303, 71-83.	4.4	95
12	Carbonate clumped isotope thermometry in continental tectonics. <i>Tectonophysics</i> , 2015, 647-648, 1-20.	2.2	94
13	Plio-Quaternary exhumation history of the central Nepalese Himalaya: 2. Thermokinematic and thermochronometer age prediction model. <i>Tectonics</i> , 2007, 26, n/a-n/a.	2.8	93
14	Antecedence of the Yarlung-Siang-Brahmaputra River, eastern Himalaya. <i>Earth and Planetary Science Letters</i> , 2014, 397, 145-158.	4.4	87
15	Erosion of the Tsangpo Gorge by megafloods, Eastern Himalaya. <i>Geology</i> , 2013, 41, 1003-1006.	4.4	85
16	High late Miocene-Pliocene elevation of the Zhada Basin, southwestern Tibetan Plateau, from carbonate clumped isotope thermometry. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 181-199.	3.3	70
17	Rapid exhumation of the eastern Himalayan syntaxis since the late Miocene. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1403-1422.	3.3	61
18	A proxy for all seasons? A synthesis of clumped isotope data from Holocene soil carbonates. <i>Quaternary Science Reviews</i> , 2020, 234, 106259.	3.0	59

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19	Monsoon control of effective discharge, Yunnan and Tibet. <i>Geology</i> , 2010, 38, 975-978.	4.4	58
20	The Geomorphic Impact of Outburst Floods: Integrating Observations and Numerical Simulations of the 2000 Yigong Flood, Eastern Himalaya. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1056-1079.	2.8	58
21	Syn depositional Deformation Features In High-Relief Carbonate Platforms: Long-Lived Conduits for Diagenetic Fluids. <i>Journal of Sedimentary Research</i> , 2013, 83, 12-36.	1.6	53
22	Variations in soil carbonate formation and seasonal bias over >4 km of relief in the western Andes (30°S) revealed by clumped isotope thermometry. <i>Earth and Planetary Science Letters</i> , 2016, 441, 188-199.	4.4	50
23	Topography, exhumation pathway, age uncertainties, and the interpretation of thermochronometer data. <i>Tectonics</i> , 2007, 26, .	2.8	44
24	Rapid long-term erosion in the rain shadow of the Shillong Plateau, Eastern Himalaya. <i>Tectonophysics</i> , 2013, 582, 76-83.	2.2	43
25	Uplift of the Central Andes of NW Argentina associated with upper crustal shortening, revealed by multiproxy isotopic analyses. <i>Tectonics</i> , 2014, 33, 1039-1054.	2.8	43
26	Tracing paleofluid sources using clumped isotope thermometry of diagenetic cements along the Moab Fault, Utah. <i>Numerische Mathematik</i> , 2013, 313, 490-515.	1.4	42
27	A symmetrical CO ₂ peak and asymmetrical climate change during the middle Miocene. <i>Earth and Planetary Science Letters</i> , 2018, 499, 134-144.	4.4	41
28	Influence of vegetation type and site-to-site variability on soil carbonate clumped isotope records, Andean piedmont of Central Argentina (32°-34°S). <i>Earth and Planetary Science Letters</i> , 2016, 440, 1-11.	4.4	39
29	Sandy signs of a tsunami's onshore depth and speed. <i>Eos</i> , 2007, 88, 577-578.	0.1	37
30	Revisiting the equable climate problem during the Late Cretaceous greenhouse using paleosol carbonate clumped isotope temperatures from the Campanian of the Western Interior Basin, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 516, 244-267.	2.3	34
31	A comparative study of detrital mineral and bedrock age-elevation methods for estimating erosion rates. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	31
32	Travertine deposits constraining transfer zone neotectonics in geothermal areas: An example from the inner Northern Apennines (Bagno Vignoni-Val d'Orcia area, Italy). <i>Geothermics</i> , 2020, 85, 101763.	3.4	31
33	Temperature and composition of carbonate cements record early structural control on cementation in a nascent deformation band fault zone: Moab Fault, Utah, USA. <i>Tectonophysics</i> , 2016, 690, 240-252.	2.2	26
34	Stable C, O and clumped isotope systematics and ¹⁴ C geochronology of carbonates from the Quaternary Chewaucan closed-basin lake system, Great Basin, USA: Implications for paleoenvironmental reconstructions using carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 274-302.	3.9	25
35	Temperature seasonality in the North American continental interior during the Early Eocene Climatic Optimum. <i>Climate of the Past</i> , 2018, 14, 1391-1404.	3.4	25
36	Provenance and erosional impact of Quaternary megafloods through the Yarlung-Tsangpo Gorge from zircon U-Pb geochronology of flood deposits, eastern Himalaya. <i>Earth and Planetary Science Letters</i> , 2020, 535, 116113.	4.4	24

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37	Clumped isotope constraints on equilibrium carbonate formation and kinetic isotope effects in freezing soils. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 402-430.	3.9	22
38	Impact of the North American monsoon on isotope paleoaltimeters: Implications for the paleoaltimetry of the American southwest. <i>Numerische Mathematik</i> , 2017, 317, 1-33.	1.4	16
39	Rapid and Precise Analysis of Carbon Dioxide Clumped Isotopic Composition by Tunable Infrared Laser Differential Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 2034-2042.	6.5	16
40	The Question of Communist Land Degradation: New Evidence from Local Erosion and Basin-Wide Sediment Yield in Southwest China and Southeast Tibet. <i>Annals of the American Association of Geographers</i> , 2011, 101, 477-496.	3.0	15
41	Constraints on paleofluid sources using the clumped-isotope thermometry of carbonate veins from the SAFOD (San Andreas Fault Observatory at Depth) borehole. <i>Tectonophysics</i> , 2016, 690, 174-189.	2.2	14
42	Geothermal Fluid Variation Recorded by Banded Ca-Carbonate Veins in a Fault-Related, Fissure Ridge-Type Travertine Depositional System (Iano, southern Tuscany, Italy). <i>Geofluids</i> , 2021, 2021, 1-28.	0.7	14
43	Loess "paleosol carbonate clumped isotope record of late Pleistocene-Holocene climate change in the Palouse region, Washington State, USA. <i>Quaternary Research</i> , 2018, 90, 331-347.	1.7	12
44	Taking the Temperature of Hydrothermal Ore Deposits Using Clumped Isotope Thermometry. <i>Economic Geology</i> , 2018, 113, 1671-1678.	3.8	10
45	Warm Terrestrial Subtropics During the Paleocene and Eocene: Carbonate Clumped Isotope (δ^{47}) Evidence From the Tornillo Basin, Texas (USA). <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 1230-1249.	2.9	9
46	How ^{17}O excess in clumped isotope reference-frame materials and ETH standards affects reconstructed temperature. <i>Chemical Geology</i> , 2021, 563, 120059.	3.3	9
47	Were springline carbonates in the Kurkur "Dungul area (southern Egypt) deposited during glacial periods?. <i>Journal of the Geological Society</i> , 2021, 178, .	2.1	8
48	The burial and exhumation history of the Liuqu Conglomerate in the Yarlung Zangbo suture zone, southern Tibet: Insights from clumped isotope thermometry. <i>Journal of Asian Earth Sciences</i> , 2019, 174, 205-217.	2.3	7
49	The Erosional and Depositional Potential of Holocene Tibetan Megafloods Through the Yarlung Tsangpo Gorge, Eastern Himalaya: Insights From 2D Hydraulic Simulations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	6
50	The $\delta^{13}\text{C}$, $\delta^{18}\text{O}$ and δ^{47} records in biogenic, pedogenic and geogenic carbonate types from paleosol-loess sequence and their paleoenvironmental meaning. <i>Quaternary Research</i> , 2021, 101, 256-272.	1.7	5
51	Rise of the Colorado Plateau: A Synthesis of Paleoelevation Constraints From the Region and a Path Forward Using Temperature-Based Elevation Proxies. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	5
52	Dynamics of Pedogenic Carbonate Growth in the Tropical Domain of Myanmar. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	3
53	"Roll-Front" Mass Transfer of Carbonate Cations in Carlin-Type Gold Deposits: Insights from UV-Fluorescent Calcite Veins. <i>Economic Geology</i> , 0, , .	3.8	2
54	Comparing isotopic estimates of paleoelevation from carbonates and volcanic glass from the Miocene-age Chucal Formation in northern Chile. <i>Chemical Geology</i> , 2022, 596, 120798.	3.3	1