

Victor J Polyak

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

5,808
citations

94433

37
h-index

76900

74
g-index

111
all docs

111
docs citations

111
times ranked

6567
citing authors

#	ARTICLE	IF	CITATIONS
1	Timing of sulfuric acid speleogenesis (SAS) as an indicator of canyon incision rates of the Shoshone and Bighorn rivers, Wyoming, USA. <i>Geomorphology</i> , 2022, 410, 108281.	2.6	1
2	Climatic backdrop for Pueblo cultural development in the southwestern United States. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
3	Combined use of conventional and clumped carbonate stable isotopes to identify hydrothermal isotopic alteration in cave walls. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
4	Exceptionally stable preindustrial sea level inferred from the western Mediterranean Sea. <i>Science Advances</i> , 2022, 8, .	10.3	5
5	Twentieth-century Azores High expansion unprecedented in the past 1,200 years. <i>Nature Geoscience</i> , 2022, 15, 548-553.	12.9	24
6	Sea-level stands from the Western Mediterranean over the past 6.5 million years. <i>Scientific Reports</i> , 2021, 11, 261.	3.3	9
7	Last interglacial sea-level history from speleothems: a global standardized database. <i>Earth System Science Data</i> , 2021, 13, 2077-2094.	9.9	10
8	Reply to Comment on "Uranium series dating of Great Artesian Basin travertine deposits: Implications for palaeohydrogeology and palaeoclimate" by Uysal et al. (2019).. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 537, 109421.	2.3	0
9	Great Basin Paleoclimate and Aridity Linked to Arctic Warming and Tropical Pacific Sea Surface Temperatures. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003785.	2.9	20
10	Hydroclimate variability from western Iberia (Portugal) during the Holocene: Insights from a composite stalagmite isotope record. <i>Holocene</i> , 2020, 30, 966-981.	1.7	18
11	Unique achondrite Northwest Africa 11042: Exploring the melting and breakup of the L chondrite parent body. <i>Meteoritics and Planetary Science</i> , 2020, 55, 622-648.	1.6	22
12	Chronology of young basalt flows from lava tube gypsum U-series ages. <i>Quaternary Geochronology</i> , 2020, 59, 101083.	1.4	3
13	A karst hydrology model for the geomorphic evolution of Grand Canyon, Arizona, USA. <i>Earth-Science Reviews</i> , 2020, 208, 103279.	9.1	6
14	Intertropical convergence zone variability in the Neotropics during the Common Era. <i>Science Advances</i> , 2020, 6, eaax3644.	10.3	45
15	Reply to the comment by Kuzmin on Asmerom et al. (2018). <i>Earth and Planetary Science Letters</i> , 2019, 527, 115795.	4.4	0
16	Constraints on global mean sea level during Pliocene warmth. <i>Nature</i> , 2019, 574, 233-236.	27.8	78
17	Paleoclimate records from speleothems. , 2019, , 784-793.		3
18	Sulfuric acid speleogenesis in the Majella Massif (Abruzzo, Central Apennines, Italy). <i>Geomorphology</i> , 2019, 333, 167-179.	2.6	14

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19	Complexity of Saharan paleoclimate reconstruction and implications for modern human migration. <i>Earth and Planetary Science Letters</i> , 2019, 508, 74-84.	4.4	31
20	Uâ€Pb Dating of Cave Spar: A New Shallow Crust Landscape Evolution Tool. <i>Tectonics</i> , 2018, 37, 208-223.	2.8	8
21	Speleothem evidence for the greening of the Sahara and its implications for the early human dispersal out of sub-Saharan Africa. <i>Quaternary Science Reviews</i> , 2018, 188, 67-76.	3.0	34
22	Uranium series dating of Great Artesian Basin travertine deposits: Implications for palaeohydrogeology and palaeoclimate. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 490, 163-177.	2.3	23
23	Carving Grand Canyonâ€™s inner gorge: A test of steady incision versus rapid knickzone migration. , 2018, 14, 2140-2156.		1
24	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
25	Climate history of the southwestern United States based on Estancia Basin hydrologic variability from 69 to 10 ka. <i>Quaternary Science Reviews</i> , 2018, 200, 237-252.	3.0	12
26	A highly resolved record of relative sea level in the western Mediterranean Sea during the last interglacial period. <i>Nature Geoscience</i> , 2018, 11, 860-864.	12.9	56
27	Abrupt global-ocean anoxia during the Late Ordovicianâ€early Silurian detected using uranium isotopes of marine carbonates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5896-5901.	7.1	118
28	Hominin expansion into Central Asia during the last interglacial. <i>Earth and Planetary Science Letters</i> , 2018, 494, 148-152.	4.4	7
29	Climate variability in the western Mediterranean between 121 and 67â€ka derived from a Mallorcan speleothem record. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 506, 128-138.	2.3	16
30	CHANGES IN HYDROCLIMATE IN IBERIA IN THE LAST 1200 YEARS: INSIGHTS FROM SPELEOTHEM RECORDS FROM WESTERN PORTUGAL. , 2018, , .		1
31	Drip water measurements from Carlsbad Cavern: implications towards paleoclimate records yielded from evaporative-zone stalagmites. <i>International Journal of Speleology</i> , 2018, 47, 201-212.	1.0	1
32	Spar caves as fossil hydrothermal systems: Timing and origin of ore deposits in the Delaware Basin and Guadalupe Mountains, New Mexico and Texas, USA. <i>International Journal of Speleology</i> , 2018, 47, 263-270.	1.0	3
33	The West Water Formation (Hualapai Plateau, Arizona, USA) as a calcrete-paleosol sequence, and its implications for the Paleogene-Neogene evolution of the southwestern Colorado Plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 479, 146-163.	2.3	4
34	A speleothem-based mid-Holocene precipitation reconstruction for West-Central Florida. <i>Holocene</i> , 2017, 27, 987-996.	1.7	7
35	Late Pleistocene and mid-Holocene climate change derived from a Florida speleothem. <i>Quaternary International</i> , 2017, 449, 75-82.	1.5	8
36	Holocene warming in western continental Eurasia driven by glacial retreat and greenhouse forcing. <i>Nature Geoscience</i> , 2017, 10, 430-435.	12.9	90

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37	Tropical rainfall over the last two millennia: evidence for a low-latitude hydrologic seesaw. <i>Scientific Reports</i> , 2017, 7, 45809.	3.3	48
38	Global-ocean redox variation during the middle-late Permian through Early Triassic based on uranium isotope and Th/U trends of marine carbonates. <i>Geology</i> , 2017, 45, 163-166.	4.4	110
39	Decoupling of monsoon activity across the northern and southern Indo-Pacific during the Late Glacial. <i>Quaternary Science Reviews</i> , 2017, 176, 101-105.	3.0	22
40	Arctic cryosphere and Milankovitch forcing of Great Basin paleoclimate. <i>Scientific Reports</i> , 2017, 7, 12955.	3.3	18
41	Hypogene Speleogenesis in the Guadalupe Mountains, New Mexico and Texas, USA. <i>Cave and Karst Systems of the World</i> , 2017, , 511-530.	0.1	7
42	A Conceptual Model for Hypogene Speleogenesis in Grand Canyon, Arizona. <i>Cave and Karst Systems of the World</i> , 2017, , 555-564.	0.1	0
43	Hypogene Speleogenesis in the Southern Ozark Uplands, Mid-Continental United States. <i>Cave and Karst Systems of the World</i> , 2017, , 663-676.	0.1	2
44	Extrapolar climate reversal during the last deglaciation. <i>Scientific Reports</i> , 2017, 7, 7157.	3.3	9
45	Two millennia of Mesoamerican monsoon variability driven by Pacific and Atlantic synergistic forcing. <i>Quaternary Science Reviews</i> , 2017, 155, 100-113.	3.0	39
46	Rapid speleothem $\delta^{13}C$ change in southwestern North America coincident with Greenland stadial 20 and the Toba (Indonesia) supereruption. <i>Geology</i> , 2017, 45, 843-846.	4.4	9
47	7. Depth and timing of calcite spar and $\delta^{13}C$ cave genesis: Implications for landscape evolution studies. <i>Special Paper of the Geological Society of America</i> , 2016, , 103-111.	0.5	6
48	Hydrological and climatological controls on radiocarbon concentrations in a tropical stalagmite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 233-252.	3.9	28
49	Constraints on a Late Cretaceous uplift, denudation, and incision of the Grand Canyon region, southwestern Colorado Plateau, USA, from $U-Pb$ dating of lacustrine limestone. <i>Tectonics</i> , 2016, 35, 896-906.	2.8	73
50	A mid-Holocene paleoprecipitation record from Belize. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 463, 103-111.	2.3	13
51	Persistent northward North Atlantic tropical cyclone track migration over the past five centuries. <i>Scientific Reports</i> , 2016, 6, 37522.	3.3	53
52	Expansion and Contraction of the Indo-Pacific Tropical Rain Belt over the Last Three Millennia. <i>Scientific Reports</i> , 2016, 6, 34485.	3.3	60
53	$U-Pb$ dating of speleogenetic dolomite: A new sulfuric acid speleogenesis chronometer. <i>International Journal of Speleology</i> , 2016, 45, 103-109.	1.0	11
54	CHARACTERIZATION OF LAYER-BOUNDING SURFACES IN A GREAT BASIN STALAGMITE UTILIZING BOTH PETROGRAPHIC AND HIGH-RESOLUTION STABLE ISOTOPE ANALYSES. , 2016, , .		0

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55	Rates of river incision and scarp retreat in eastern and central Grand Canyon over the past half million years: Evidence for passage of a transient knickzone: COMMENT. , 2015, 11, 2130-2131.		3
56	Aerosol forcing of the position of the intertropical convergence zone since ad 1550. Nature Geoscience, 2015, 8, 195-200.	12.9	112
57	Extreme rainfall activity in the Australian tropics reflects changes in the El Niño/Southern Oscillation over the last two millennia. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4576-4581.	7.1	64
58	Reply to Nott: Assessing biases in speleothem records of flood events. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4637-E4637.	7.1	0
59	Sulphuric acid speleogenesis and landscape evolution: Montecchio cave, Albegna river valley (Southern Tuscany, Italy). Geomorphology, 2015, 229, 134-143.	2.6	28
60	Quaternary extension in the Rio Grande rift at elevated strain rates recorded in travertine deposits, central New Mexico. Lithosphere, 2014, 6, 3-16.	1.4	31
61	Abandonment of Unaweep Canyon (1.4±0.8 Ma), western Colorado: Effects of stream capture and anomalously rapid Pleistocene river incision. , 2014, 10, 428-446.		19
62	Identification of parasitic losses in Yb:YLF and prospects for optical refrigeration down to 80K. Optics Express, 2014, 22, 7756.	3.4	68
63	Orbital control of western North America atmospheric circulation and climate over two glacial cycles. Nature Communications, 2014, 5, 3805.	12.8	86
64	Evaluating shallow flow-system response to climate change through analysis of spring deposits in southwestern Wisconsin, USA. Hydrogeology Journal, 2014, 22, 851-863.	2.1	2
65	Late Pleistocene Human Skeleton and mtDNA Link Paleoamericans and Modern Native Americans. Science, 2014, 344, 750-754.	12.6	147
66	Infrared Spectroscopic Biosignatures from Hidden Cave, New Mexico: Possible Applications for Remote Life Detection. Geomicrobiology Journal, 2014, 31, 929-941.	2.0	11
67	Steady incision of Grand Canyon at the million year timeframe: A case for mantle-driven differential uplift. Earth and Planetary Science Letters, 2014, 397, 159-173.	4.4	37
68	Reconstructing past climates using carbon isotopes from fulvic acids in cave sediments. Chemical Geology, 2013, 360-361, 1-9.	3.3	15
69	Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034. Science, 2013, 339, 780-785.	12.6	340
70	A Stalagmite record of Holocene Indonesian Australian summer monsoon variability from the Australian tropics. Quaternary Science Reviews, 2013, 78, 155-168.	3.0	120
71	Improvements in ²³⁰ Th dating, ²³⁰ Th and ²³⁴ U half-life values, and U-Th isotopic measurements by multi-collector inductively coupled plasma mass spectrometry. Earth and Planetary Science Letters, 2013, 371-372, 82-91.	4.4	1,007
72	A Last Glacial Maximum through middle Holocene stalagmite record of coastal Western Australia climate. Quaternary Science Reviews, 2013, 77, 101-112.	3.0	45

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73	A speleothem record of Holocene paleoclimate from the northern Wasatch Mountains, southeast Idaho, USA. <i>Quaternary International</i> , 2013, 310, 83-95.	1.5	35
74	North Atlantic forcing of millennial-scale Indo-Australian monsoon dynamics during the Last Glacial period. <i>Quaternary Science Reviews</i> , 2013, 72, 159-168.	3.0	111
75	Orbital pacing and ocean circulation-induced collapses of the Mesoamerican monsoon over the past 22,000 y. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9255-9260.	7.1	67
76	Multidecadal to multicentury scale collapses of Northern Hemisphere monsoons over the past millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9651-9656.	7.1	39
77	Incision history of Glenwood Canyon, Colorado, USA, from the uranium-series analyses of water-table speleothems. <i>International Journal of Speleology</i> , 2013, 42, 193-202.	1.0	15
78	Hypogenic origin of Provalata Cave, Republic of Macedonia: a distinct case of successive thermal carbonic and sulfuric acid speleogenesis. <i>International Journal of Speleology</i> , 2013, 42, 235-246.	1.0	23
79	Development and Disintegration of Maya Political Systems in Response to Climate Change. <i>Science</i> , 2012, 338, 788-791.	12.6	421
80	A 2400 yr Mesoamerican rainfall reconstruction links climate and cultural change. <i>Geology</i> , 2012, 40, 259-262.	4.4	103
81	Uranium loss and aragonite ¹⁴ C calcite age discordance in a calcitized aragonite stalagmite. <i>Quaternary Geochronology</i> , 2012, 14, 26-37.	1.4	51
82	Response to the correspondence article by Dr. Winograd. <i>Quaternary Science Reviews</i> , 2012, 45, 129-133.	3.0	1
83	Paleoclimate Records from Speleothems. , 2012, , 577-585.		0
84	Deglacial paleoclimate in the southwestern United States: an abrupt 18.6 ka cold event and evidence for a North Atlantic forcing of Termination I. <i>Quaternary Science Reviews</i> , 2011, 30, 3803-3811.	3.0	18
85	Shrinking of the Colorado Plateau via lithospheric mantle erosion: Evidence from Nd and Sr isotopes and geochronology of Neogene basalts. <i>Geology</i> , 2011, 39, 27-30.	4.4	71
86	Variable winter moisture in the southwestern United States linked to rapid glacial climate shifts. <i>Nature Geoscience</i> , 2010, 3, 114-117.	12.9	273
87	High resolution stalagmite climate record from the Yucatán Peninsula spanning the Maya terminal classic period. <i>Earth and Planetary Science Letters</i> , 2010, 298, 255-262.	4.4	202
88	Late Quaternary moisture export across Central America and to Greenland: evidence for tropical rainfall variability from Costa Rican stalagmites. <i>Quaternary Science Reviews</i> , 2009, 28, 3348-3360.	3.0	28
89	Caribbean chronostratigraphy refined with U-Pb dating of a Miocene coral. <i>Geology</i> , 2008, 36, 151.	4.4	28
90	Age and Evolution of the Grand Canyon Revealed by U-Pb Dating of Water Table-Type Speleothems. <i>Science</i> , 2008, 319, 1377-1380.	12.6	107

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91	Solar forcing of Holocene climate: New insights from a speleothem record, southwestern United States. <i>Geology</i> , 2007, 35, 1.	4.4	156
92	Synchronous millennial-scale climatic changes in the Great Basin and the North Atlantic during the last interglacial. <i>Geology</i> , 2007, 35, 619.	4.4	32
93	Caribbean and Pacific moisture sources on the Isthmus of Panama revealed from stalagmite and surface water $\delta^{18}O$ gradients. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	41
94	Variable intensity of teleconnections during the late Holocene in subtropical North America from an isotopic study of speleothem from Florida. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	18
95	Episodes of late Holocene aridity recorded by stalagmites from Devil's icebox Cave, Central Missouri, USA. <i>Quaternary Research</i> , 2007, 68, 45-52.	1.7	40
96	Younger Dryas to mid-Holocene environmental history of the lowlands of NW Transylvania, Romania. <i>Quaternary Research</i> , 2007, 68, 364-378.	1.7	56
97	New age constraints on the Middle Stone Age occupations of Kharga Oasis, Western Desert, Egypt. <i>Journal of Human Evolution</i> , 2007, 52, 690-701.	2.6	90
98	Silicates In Carbonate Speleothems, Guadalupe Mountains, New Mexico, U.S.A., 2007, , 303-311.		2
99	Evidence for Pacific-modulated precipitation variability during the late Holocene from the southwestern USA. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	25
100	Orbital control of long-term moisture in the southwestern USA. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	7
101	Prolonged wet period in the southwestern United States through the Younger Dryas. <i>Geology</i> , 2004, 32, 5.	4.4	105
102	A 1500-year El Niño/Southern Oscillation and rainfall history for the Isthmus of Panama from speleothem calcite. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	101
103	Tropical response to the 8200 yr B.P. cold event? Speleothem isotopes indicate a weakened early Holocene monsoon in Costa Rica. <i>Geology</i> , 2004, 32, 957.	4.4	87
104	Wetter and cooler late Holocene climate in the southwestern United States from mites preserved in stalagmites. <i>Geology</i> , 2001, 29, 643.	4.4	32
105	Authigenesis of Trioctahedral Smectite in Magnesium-Rich Carbonate Speleothems in Carlsbad Cavern and Other Caves of the Guadalupe Mountains, New Mexico. <i>Clays and Clay Minerals</i> , 2000, 48, 317-321.	1.3	27
106	Alunite, Natroalunite and Hydrated Halloysite in Carlsbad Cavern and Lechuguilla Cave, New Mexico. <i>Clays and Clay Minerals</i> , 1996, 44, 843-850.	1.3	36
107	<i>Paleozercos cavernicolus</i> , n.gen., n.sp., fossil mite from a cave in the Southwestern U.S.A. (Acari, Gamasida: Zerconidae), with a key to Nearctic genera of Zerconidae. <i>International Journal of Acarology</i> , 1995, 21, 253-259.	0.7	14