Victor J Polyak

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improvements in 230Th dating, 230Th and 234U 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
2	Development and Disintegration of Maya Political Systems in Response to Climate Change. Science, 2012, 338, 788-791.	12.6	421
3	Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034. Science, 2013, 339, 780-785.	12.6	340
4	Variable winter moisture in the southwestern United States linked to rapid glacial climate shifts. Nature Geoscience, 2010, 3, 114-117.	12.9	273
5	High resolution stalagmite climate record from the Yucatán Peninsula spanning the Maya terminal classic period. Earth and Planetary Science Letters, 2010, 298, 255-262.	4.4	202
6	Solar forcing of Holocene climate: New insights from a speleothem record, southwestern United States. Geology, 2007, 35, 1.	4.4	156
7	Late Pleistocene Human Skeleton and mtDNA Link Paleoamericans and Modern Native Americans. Science, 2014, 344, 750-754.	12.6	147
8	A Stalagmite record of Holocene Indonesian–Australian summer monsoon variability from the Australian tropics. Quaternary Science Reviews, 2013, 78, 155-168.	3.0	120
9	Abrupt global-ocean anoxia during the Late Ordovician–early Silurian detected using uranium isotopes of marine carbonates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5896-5901.	7.1	118
10	Aerosol forcing of the position of the intertropical convergence zone since ad 1550. Nature Geoscience, 2015, 8, 195-200.	12.9	112
11	North Atlantic forcing of millennial-scale Indo-Australian monsoon dynamics during the Last Glacial period. Quaternary Science Reviews, 2013, 72, 159-168.	3.0	111
12	Global-ocean redox variation during the middle-late Permian through Early Triassic based on uranium isotope and Th/U trends of marine carbonates. Geology, 2017, 45, 163-166.	4.4	110
13	Age and Evolution of the Grand Canyon Revealed by U-Pb Dating of Water Table-Type Speleothems. Science, 2008, 319, 1377-1380.	12.6	107
14	Prolonged wet period in the southwestern United States through the Younger Dryas. Geology, 2004, 32, 5.	4.4	105
15	A 2400 yr Mesoamerican rainfall reconstruction links climate and cultural change. Geology, 2012, 40, 259-262.	4.4	103
16	A 1500-year El Niño/Southern Oscillation and rainfall history for the Isthmus of Panama from speleothem calcite. Journal of Geophysical Research, 2004, 109, .	3.3	101
17	New age constraints on the Middle Stone Age occupations of Kharga Oasis, Western Desert, Egypt. Journal of Human Evolution, 2007, 52, 690-701.	2.6	90
18	Holocene warming in western continental Eurasia driven by glacial retreat and greenhouse forcing. Nature Geoscience, 2017, 10, 430-435.	12.9	90

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19	Tropical response to the 8200 yr B.P. cold event? Speleothem isotopes indicate a weakened early Holocene monsoon in Costa Rica. Geology, 2004, 32, 957.	4.4	87
20	Orbital control of western North America atmospheric circulation and climate over two glacial cycles. Nature Communications, 2014, 5, 3805.	12.8	86
21	Constraints on global mean sea level during Pliocene warmth. Nature, 2019, 574, 233-236.	27.8	78
22	Constraints on a Late Cretaceous uplift, denudation, and incision of the Grand Canyon region, southwestern Colorado Plateau, USA, from Uâ€₽b dating of lacustrine limestone. Tectonics, 2016, 35, 896-906.	2.8	73
23	Shrinking of the Colorado Plateau via lithospheric mantle erosion: Evidence from Nd and Sr isotopes and geochronology of Neogene basalts. Geology, 2011, 39, 27-30.	4.4	71
24	Identification of parasitic losses in Yb:YLF and prospects for optical refrigeration down to 80K. Optics Express, 2014, 22, 7756.	3.4	68
25	Orbital pacing and ocean circulation-induced collapses of the Mesoamerican monsoon over the past 22,000 y. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9255-9260.	7.1	67
26	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
27	Expansion and Contraction of the Indo-Pacific Tropical Rain Belt over the Last Three Millennia. Scientific Reports, 2016, 6, 34485.	3.3	60
28	Younger Dryas to mid-Holocene environmental history of the lowlands of NW Transylvania, Romania. Quaternary Research, 2007, 68, 364-378.	1.7	56
29	A highly resolved record of relative sea level in the western Mediterranean Sea during the last interglacial period. Nature Geoscience, 2018, 11, 860-864.	12.9	56
30	Persistent northward North Atlantic tropical cyclone track migration over the past five centuries. Scientific Reports, 2016, 6, 37522.	3.3	53
31	Uranium loss and aragonite–calcite age discordance in a calcitized aragonite stalagmite. Quaternary Geochronology, 2012, 14, 26-37.	1.4	51
32	Tropical rainfall over the last two millennia: evidence for a low-latitude hydrologic seesaw. Scientific Reports, 2017, 7, 45809.	3.3	48
33	A Last Glacial Maximum through middle Holocene stalagmite record of coastal Western Australia climate. Quaternary Science Reviews, 2013, 77, 101-112.	3.0	45
34	Intertropical convergence zone variability in the Neotropics during the Common Era. Science Advances, 2020, 6, eaax3644.	10.3	45
35	Caribbean and Pacific moisture sources on the Isthmus of Panama revealed from stalagmite and surface waterl ´180 gradients. Geophysical Research Letters, 2007, 34, .	4.0	41
36	Episodes of late Holocene aridity recorded by stalagmites from Devil's icebox Cave, Central Missouri, USA. Quaternary Research, 2007, 68, 45-52.	1.7	40

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37	Multidecadal to multicentury scale collapses of Northern Hemisphere monsoons over the past millennium. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9651-9656.	7.1	39
38	Two millennia of Mesoamerican monsoon variability driven by Pacific and Atlantic synergistic forcing. Quaternary Science Reviews, 2017, 155, 100-113.	3.0	39
39	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
40	Alunite, Natroalunite and Hydrated Halloysite in Carlsbad Cavern and Lechuguilla Cave, New Mexico. Clays and Clay Minerals, 1996, 44, 843-850.	1.3	36
41	A speleothem record of Holocene paleoclimate from the northern Wasatch Mountains, southeast Idaho, USA. Quaternary International, 2013, 310, 83-95.	1.5	35
42	Speleothem evidence for the greening of the Sahara and its implications for the early human dispersal out of sub-Saharan Africa. Quaternary Science Reviews, 2018, 188, 67-76.	3.0	34
43	Wetter and cooler late Holocene climate in the southwestern United States from mites preserved in stalagmites. Geology, 2001, 29, 643.	4.4	32
44	Synchronous millennial-scale climatic changes in the Great Basin and the North Atlantic during the last interglacial. Geology, 2007, 35, 619.	4.4	32
45	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
46	Complexity of Saharan paleoclimate reconstruction and implications for modern human migration. Earth and Planetary Science Letters, 2019, 508, 74-84.	4.4	31
47	Caribbean chronostratigraphy refined with U-Pb dating of a Miocene coral. Geology, 2008, 36, 151.	4.4	28
48	Late Quaternary moisture export across Central America and to Greenland: evidence for tropical rainfall variability from Costa Rican stalagmites. Quaternary Science Reviews, 2009, 28, 3348-3360.	3.0	28
49	Sulphuric acid speleogenesis and landscape evolution: Montecchio cave, Albegna river valley (Southern Tuscany, Italy). Geomorphology, 2015, 229, 134-143.	2.6	28
50	Hydrological and climatological controls on radiocarbon concentrations in a tropical stalagmite. Geochimica Et Cosmochimica Acta, 2016, 194, 233-252.	3.9	28
51	Authigenesis of Trioctahedral Smectite in Magnesium-Rich Carbonate Speleothems in Carlsbad Cavern and Other Caves of the Guadalupe Mountains, New Mexico. Clays and Clay Minerals, 2000, 48, 317-321.	1.3	27
52	Evidence for Pacific-modulated precipitation variability during the late Holocene from the southwestern USA. Geophysical Research Letters, 2006, 33, .	4.0	25
53	Twentieth-century Azores High expansion unprecedented in the past 1,200 years. Nature Geoscience, 2022, 15, 548-553.	12.9	24
54	Uranium series dating of Great Artesian Basin travertine deposits: Implications for palaeohydrogeology and palaeoclimate. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 490, 163-177.	2.3	23

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55	Hypogenic origin of Provalata Cave, Republic of Macedonia: a distinct case of successive thermal carbonic and sulfuric acid speleogenesis. International Journal of Speleology, 2013, 42, 235-246.	1.0	23
56	Decoupling of monsoon activity across the northern and southern Indo-Pacific during the Late Glacial. Quaternary Science Reviews, 2017, 176, 101-105.	3.0	22
57	Unique achondrite Northwest Africa 11042: Exploring the melting and breakup of the L chondrite parent body. Meteoritics and Planetary Science, 2020, 55, 622-648.	1.6	22
58	A stalagmite test of North Atlantic SST and Iberian hydroclimate linkages over the last two glacial cycles. Climate of the Past, 2018, 14, 1893-1913.	3.4	21
59	Great Basin Paleoclimate and Aridity Linked to Arctic Warming and Tropical Pacific Sea Surface Temperatures. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003785.	2.9	20
60	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
61	Variable intensity of teleconnections during the late Holocene in subtropical North America from an isotopic study of speleothem from Florida. Geophysical Research Letters, 2007, 34, .	4.0	18
62	Deglacial paleoclimate in the southwestern United States: an abrupt 18.6Âka cold event and evidence for a North Atlantic forcing of Termination I. Quaternary Science Reviews, 2011, 30, 3803-3811.	3.0	18
63	Arctic cryosphere and Milankovitch forcing of Great Basin paleoclimate. Scientific Reports, 2017, 7, 12955.	3.3	18
64	Hydroclimate variability from western Iberia (Portugal) during the Holocene: Insights from a composite stalagmite isotope record. Holocene, 2020, 30, 966-981.	1.7	18
65	Climate variability in the western Mediterranean between 121 and 67â€ka derived from a Mallorcan speleothem record. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 506, 128-138.	2.3	16
66	Reconstructing past climates using carbon isotopes from fulvic acids in cave sediments. Chemical Geology, 2013, 360-361, 1-9.	3.3	15
67	Incision history of Glenwood Canyon, Colorado, USA, from the uranium-series analyses of water-table speleothems. International Journal of Speleology, 2013, 42, 193-202.	1.0	15
68	<i>Paleozercon 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. International Journal of Acarology, 1995, 21, 253-259.	0.7	14
69	Sulfuric acid speleogenesis in the Majella Massif (Abruzzo, Central Apennines, Italy). Geomorphology, 2019, 333, 167-179.	2.6	14
70	A mid-Holocene paleoprecipitation record from Belize. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 463, 103-111.	2.3	13
71	Climate history of the southwestern United States based on Estancia Basin hydrologic variability from 69 to 10 ka. Quaternary Science Reviews, 2018, 200, 237-252.	3.0	12
72	Infrared Spectroscopic Biosignatures from Hidden Cave, New Mexico: Possible Applications for Remote Life Detection. Geomicrobiology Journal, 2014, 31, 929-941.	2.0	11

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73	U-Pb dating of speleogenetic dolomite: A new sulfuric acid speleogenesis chronometer. International Journal of Speleology, 2016, 45, 103-109.	1.0	11
74	Last interglacial sea-level history from speleothems: a global standardized database. Earth System Science Data, 2021, 13, 2077-2094.	9.9	10
75	Extrapolar climate reversal during the last deglaciation. Scientific Reports, 2017, 7, 7157.	3.3	9
76	Rapid speleothem δ13C change in southwestern North America coincident with Greenland stadial 20 and the Toba (Indonesia) supereruption. Geology, 2017, 45, 843-846.	4.4	9
77	Sea-level stands from the Western Mediterranean over the past 6.5 million years. Scientific Reports, 2021, 11, 261.	3.3	9
78	Late Pleistocene and mid-Holocene climate change derived from a Florida speleothem. Quaternary International, 2017, 449, 75-82.	1.5	8
79	U–Pb Dating of Cave Spar: A New Shallow Crust Landscape Evolution Tool. Tectonics, 2018, 37, 208-223.	2.8	8
80	Orbital control of long-term moisture in the southwestern USA. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	7
81	A speleothem-based mid-Holocene precipitation reconstruction for West-Central Florida. Holocene, 2017, 27, 987-996.	1.7	7
82	Hypogene Speleogenesis in the Guadalupe Mountains, New Mexico and Texas, USA. Cave and Karst Systems of the World, 2017, , 511-530.	0.1	7
83	Hominin expansion into Central Asia during the last interglacial. Earth and Planetary Science Letters, 2018, 494, 148-152.	4.4	7
84	7. Depth and timing of calcite spar and "spar cave―genesis: Implications for landscape evolution studies. Special Paper of the Geological Society of America, 2016, , 103-111.	0.5	6
85	A karst hydrology model for the geomorphic evolution of Grand Canyon, Arizona, USA. Earth-Science Reviews, 2020, 208, 103279.	9.1	6
86	Exceptionally stable preindustrial sea level inferred from the western Mediterranean Sea. Science Advances, 2022, 8, .	10.3	5
87	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. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 479, 146-163.	2.3	4
88	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
89	Paleoclimate records from speleothems. , 2019, , 784-793.		3
90	Chronology of young basalt flows from lava tube gypsum U-series ages. Quaternary Geochronology, 2020, 59, 101083.	1.4	3

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91	Spar caves as fossil hydrothermal systems: Timing and origin of ore deposits in the Delaware Basin and Guadalupe Mountains, New Mexico and Texas, USA. International Journal of Speleology, 2018, 47, 263-270.	1.0	3
92	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
93	Hypogene Speleogenesis in the Southern Ozark Uplands, Mid-Continental United States. Cave and Karst Systems of the World, 2017, , 663-676.	0.1	2
94	Silicates In Carbonate Speleothems, Guadalupe Mountains, New Mexico, U.S.A , 2007, , 303-311.		2
95	Response to the correspondence article by Dr. Winograd. Quaternary Science Reviews, 2012, 45, 129-133.	3.0	1
96	Carving Grand Canyon's inner gorge: A test of steady incision versus rapid knickzone migration. , 2018, 14, 2140-2156.		1
97	CHANGES IN HYDROCLIMATE IN IBERIA IN THE LAST 1200 YEARS: INSIGHTS FROM SPELEOTHEM RECORDS FROM WESTERN PORTUGAL. , 2018, , .		1
98	Drip water measurements from Carlsbad Cavern: implications towards paleoclimate records yielded from evaporative-zone stalagmites. International Journal of Speleology, 2018, 47, 201-212.	1.0	1
99	Timing of sulfuric acid speleogenesis (SAS) as an indicator of canyon incision rates of the Shoshone and Bighorn rivers, Wyoming, USA. Geomorphology, 2022, 410, 108281.	2.6	1
100	Climatic backdrop for Pueblo cultural development in the southwestern United States. Scientific Reports, 2022, 12, .	3.3	1
101	Combined use of conventional and clumped carbonate stable isotopes to identify hydrothermal isotopic alteration in cave walls. Scientific Reports, 2022, 12, .	3.3	1
102	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
103	A Conceptual Model for Hypogene Speleogenesis in Grand Canyon, Arizona. Cave and Karst Systems of the World, 2017, , 555-564.	0.1	0
104	Reply to the comment by Kuzmin on Asmerom et al. (2018). Earth and Planetary Science Letters, 2019, 527, 115795.	4.4	0
105	Reply to Comment on "Uranium series dating of Great Artesian Basin travertine deposits: Implications for palaeohydrogeology and palaeoclimate―by Uysal et al. (2019) Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 537, 109421.	2.3	0
106	Paleoclimate Records from Speleothems. , 2012, , 577-585.		0
107	CHARACTERIZATION OF LAYER-BOUNDING SURFACES IN A GREAT BASIN STALAGMITE UTILIZING BOTH PETROGRAPHIC AND HIGH-RESOLUTION STABLE ISOTOPE ANALYSES. , 2016, , .		0