

Jan Veizer

List of Publications by Year in descending order

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91
papers

13,040
citations

29994

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51492

86
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91
all docs

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docs citations

91
times ranked

6465
citing authors

#	ARTICLE	IF	CITATIONS
1	87Sr/86Sr, $\delta^{13}C$ and $\delta^{18}O$ evolution of Phanerozoic seawater. <i>Chemical Geology</i> , 1999, 161, 59-88.	1.4	2,246
2	The nature of O18/O16 and C13/C12 secular trends in sedimentary carbonate rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1976, 40, 1387-1395.	1.6	707
3	Evidence for decoupling of atmospheric CO2 and global climate during the Phanerozoic eon. <i>Nature</i> , 2000, 408, 698-701.	13.7	410
4	Precambrian marine carbonate isotope database: Version 1.1. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1 of 12-12 of 12.	1.0	372
5	87Sr/86Sr composition of seawater during the Phanerozoic. <i>Geochimica Et Cosmochimica Acta</i> , 1974, 38, 1461-1484.	1.6	324
6	Geochemistry of brachiopods: Oxygen and carbon isotopic records of Paleozoic oceans. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1679-1696.	1.6	320
7	Correlation of and secular variations. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 579-587.	1.6	303
8	Strontium isotope evolution of Late Permian and Triassic seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 47-62.	1.6	303
9	Basement and Sedimentary Recycling and Continental Evolution. <i>Journal of Geology</i> , 1979, 87, 341-370.	0.7	294
10	Carbon fluxes, pCO2 and substrate weathering in a large northern river basin, Canada: carbon isotope perspectives. <i>Chemical Geology</i> , 1999, 159, 61-86.	1.4	272
11	Temperatures and oxygen isotopic composition of Phanerozoic oceans. <i>Earth-Science Reviews</i> , 2015, 146, 92-104.	4.0	261
12	Coupling of surface temperatures and atmospheric CO2 concentrations during the Palaeozoic era. <i>Nature</i> , 2007, 449, 198-201.	13.7	255
13	$\delta^{13}C$ and $\delta^{18}O$ values of Triassic brachiopods and carbonate rocks as proxies for coeval seawater and palaeotemperature. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 226, 287-306.	1.0	245
14	87Sr/86Sr in Precambrian carbonates as an index of crustal evolution. <i>Geochimica Et Cosmochimica Acta</i> , 1976, 40, 905-914.	1.6	242
15	Chemical dynamics of the St. Lawrence riverine system: $\delta^{2}H$, $\delta^{18}O$, $\delta^{13}C$ DIC, $\delta^{34}S$ sulfate, and dissolved 87Sr/86Sr. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 851-866.	1.6	239
16	Weathering processes in the Indus River Basin: implications from riverine carbon, sulfur, oxygen, and strontium isotopes. <i>Chemical Geology</i> , 2000, 170, 153-177.	1.4	239
17	Celestial driver of Phanerozoic climate?. <i>GSA Today</i> , 2003, 13, 4.	1.1	221
18	Isotope stratigraphy of the European Carboniferous: proxy signals for ocean chemistry, climate and tectonics. <i>Chemical Geology</i> , 1999, 161, 127-163.	1.4	214

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19	$\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ of Permian brachiopods: A record of seawater evolution and continental glaciation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 224, 333-351.	1.0	212
20	Calcium isotope record of Phanerozoic oceans: Implications for chemical evolution of seawater and its causative mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5117-5134.	1.6	211
21	U-Pb zircon dating and Sr isotope systematics of the Vindhyan Supergroup, India. <i>Geology</i> , 2002, 30, 131.	2.0	209
22	Paleoclimates, ocean depth, and the oxygen isotopic composition of seawater. <i>Earth and Planetary Science Letters</i> , 2006, 252, 82-93.	1.8	205
23	Oxygen isotope evolution of Phanerozoic seawater. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1997, 132, 159-172.	1.0	195
24	Strontium and its isotopes in Canadian rivers: Fluxes and global implications. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 1727-1736.	1.6	185
25	Geochemistry of Precambrian carbonates: II. Archean greenstone belts and Archean sea water. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 859-871.	1.6	184
26	Strontium isotope stratigraphy: potential resolution and event correlation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1997, 132, 65-77.	1.0	176
27	Oxygen and carbon isotopic composition of Ordovician brachiopods: Implications for coeval seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4429-4442.	1.6	168
28	Phanerozoic record of plate tectonic control of seawater chemistry and carbonate sedimentation. <i>Geology</i> , 2002, 30, 1123.	2.0	163
29	in Late Proterozoic carbonates: evidence for a "mantle" event at $\sim 1/4900$ Ma ago. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 295-302.	1.6	151
30	$^{87}\text{Sr}/^{86}\text{Sr}$ record of Permian seawater. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 240, 89-107.	1.0	151
31	Geochemistry of precambrian carbonates: IV. Early paleoproterozoic (2.25 ± 0.25 ga) seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 875-885.	1.6	147
32	Title is missing!. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 1499.	1.6	147
33	Applications of stable water and carbon isotopes in watershed research: Weathering, carbon cycling, and water balances. <i>Earth-Science Reviews</i> , 2011, 109, 20-31.	4.0	136
34	A Cenozoic-style scenario for the end-Ordovician glaciation. <i>Nature Communications</i> , 2014, 5, 4485.	5.8	136
35	Chapter 8. TRACE ELEMENTS and ISOTOPES in SEDIMENTARY CARBONATES. , 1983, , 265-300.		125
36	Carbon, sulfur, oxygen and strontium isotope records, organic geochemistry and biostratigraphy across the Permian/Triassic boundary in Abadeh, Iran. <i>International Journal of Earth Sciences</i> , 2004, 93, 565.	0.9	117

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37	Geochemistry of Precambrian carbonates: V. Late Paleoproterozoic seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2487-2501.	1.6	109
38	Evolution of the oceanic calcium cycle during the late Mesozoic: Evidence from $\delta^{44}\text{Ca}$ of marine skeletal carbonates. <i>Earth and Planetary Science Letters</i> , 2007, 253, 96-111.	1.8	105
39	Isotopic and elemental hydrogeochemistry of a major river system: Fraser River, British Columbia, Canada. <i>Chemical Geology</i> , 1995, 122, 149-169.	1.4	104
40	and in lower Paleozoic articulate brachiopods: Implications for the isotopic composition of seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 431-443.	1.6	103
41	Dolomitization and isotope stratigraphy of the Vazante Formation, São Francisco Basin, Brazil. <i>Precambrian Research</i> , 2001, 112, 303-329.	1.2	101
42	Hydrochemistry and isotope geochemistry of the upper Danube River. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3839-3853.	1.6	101
43	Isotopic constraints on alkalinity, dissolved organic carbon, and atmospheric carbon dioxide fluxes in the Mississippi River. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	101
44	The Phanerozoic $\delta^{88}\text{Sr}/\delta^{86}\text{Sr}$ record of seawater: New constraints on past changes in oceanic carbonate fluxes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 249-265.	1.6	101
45	Carbon cycle in St. Lawrence aquatic ecosystems at Cornwall (Ontario), Canada: seasonal and spatial variations. <i>Chemical Geology</i> , 1999, 159, 107-128.	1.4	95
46	Geochemistry of Precambrian carbonates: I. Archean hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 845-857.	1.6	90
47	The strontium isotopic composition of Ordovician and Silurian brachiopods and conodonts: relationships to geological events and implications for coeval seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1721-1733.	1.6	90
48	Oxygen isotope values from high-latitudes: Clues for Permian sea-surface temperature gradients and Late Palaeozoic deglaciation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 269, 1-16.	1.0	84
49	Strontium isotope stratigraphy of the Middle Devonian: Brachiopods and conodonts. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 639-652.	1.6	83
50	Oxygen and carbon isotopic composition of Dinantian brachiopods: Paleoenvironmental implications for the Lower Carboniferous of western Europe. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1997, 132, 243-264.	1.0	80
51	Secular variations in the composition of sedimentary carbonate rocks, II. Fe, Mn, Ca, Mg, Si and minor constituents. <i>Precambrian Research</i> , 1978, 6, 381-413.	1.2	71
52	Respiration-photosynthesis balance of terrestrial aquatic ecosystems, Ottawa area, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3775-3786.	1.6	65
53	Isotopic constraints on the transpiration, evaporation, energy, and gross primary production Budgets of a large boreal watershed: Ottawa River Basin, Canada. <i>Global Biogeochemical Cycles</i> , 2000, 14, 149-165.	1.9	62
54	Sedimentation in geologic history: Recycling vs. evolution or recycling with evolution. <i>Contributions To Mineralogy and Petrology</i> , 1973, 38, 261-278.	1.2	56

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55	Paleosalinity and dolomitization of a Lower Paleozoic carbonate sequence, Somerset and Prince of Wales Islands, Arctic Canada. <i>Canadian Journal of Earth Sciences</i> , 1978, 15, 1448-1461.	0.6	56
56	Silurian strontium isotope stratigraphy. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 0475.	1.6	55
57	Geochemistry of Precambrian carbonates: VII. Belt supergroup, Montana and Idaho, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 667-677.	1.6	54
58	C-, O- and Sr-isotope stratigraphy across the Lower-Middle Cambrian transition of the Cantabrian Zone (Spain) and the Montagne Noire (France), West Gondwana. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 256, 47-70.	1.0	54
59	Isotopic composition of disseminated sulfur in Precambrian sedimentary rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 3311-3322.	1.6	50
60	Transvaal Supergroup carbonates: Implications for Paleoproterozoic $\delta^{18}O$ and $\delta^{13}C$ records. <i>Precambrian Research</i> , 2009, 175, 149-160.	1.2	50
61	Strontium isotope systematics of conodonts: Middle Devonian, Eifel Mountains, Germany. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1997, 132, 79-96.	1.0	43
62	Is the Solar System's Galactic Motion Imprinted in the Phanerozoic Climate?. <i>Scientific Reports</i> , 2014, 4, 6150.	1.6	43
63	Water and carbon cycles in the Mississippi River basin: Potential implications for the Northern Hemisphere residual terrestrial sink. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	42
64	Trends, cycles and nonstationarities in isotope signals of phanerozoic seawater. <i>Chemical Geology</i> , 1999, 161, 225-240.	1.4	40
65	Seawater strontium isotopic perturbation at the Permian-Triassic boundary, West Spitsbergen, and its implications for the interpretation of strontium isotopic data. <i>Geology</i> , 1992, 20, 779.	2.0	38
66	Reply to the Comment by L. S. Land on "Oxygen and carbon isotopic composition of Ordovician brachiopods: Implications for coeval seawater". <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2845-2846.	1.6	34
67	Possible control of post-depositional alteration in oxygen paleotemperature determinations. <i>Earth and Planetary Science Letters</i> , 1976, 33, 255-260.	1.8	32
68	On plate tectonics and ocean temperatures. <i>Geology</i> , 2019, 47, 881-885.	2.0	30
69	The early Paleozoic carbon cycle. <i>Earth and Planetary Science Letters</i> , 2001, 190, 181-196.	1.8	29
70	Carbon and oxygen dynamics in the Laurentian Great Lakes: Implications for the CO ₂ flux from terrestrial aquatic systems to the atmosphere. <i>Chemical Geology</i> , 2011, 281, 133-141.	1.4	27
71	Evaluation of the Salinic I tectonic, Cancañiri glacial and Ireviken biotic events: Biochemostratigraphy of the Lower Silurian succession in the Niagara Gorge area, Canada and U.S.A.. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 241, 192-213.	1.0	26
72	Simulation of limestone diagenesis—a model based on strontium depletion: Discussion. <i>Canadian Journal of Earth Sciences</i> , 1978, 15, 1683-1685.	0.6	24

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73	Diagenetic history of sedimentary carbonates: Constraints from combined cathodoluminescence and trace element analyses by micro-PIXE. Nuclear Instruments & Methods in Physics Research B, 1995, 104, 409-414.	0.6	24
74	Diagenetic alteration of calcitic fossil shells: Proton microprobe (PIXE) as a trace element tool. Nuclear Instruments & Methods in Physics Research B, 1995, 104, 427-431.	0.6	24
75	Paleobathymetry of a Silurian shelf based on brachiopod assemblages: an oxygen isotope test. Canadian Journal of Earth Sciences, 2006, 43, 281-293.	0.6	20
76	Secular variations in the composition of sedimentary carbonate rocks, I. Alkali metals. Precambrian Research, 1978, 6, 367-380.	1.2	19
77	Carbonates and Ancient Oceans: Isotopic and Chemical Record on Time Scales of 10 ⁷ -10 ⁹ Years. Geophysical Monograph Series, 0, , 595-601.	0.1	19
78	Depositional and diagenetic history of limestones: Stable and radiogenic isotopes. , 1992, , 13-48.		18
79	Water mixing in a St. Lawrence river embayment to outline potential sources of pollution. Applied Geochemistry, 2004, 19, 1637-1641.	1.4	16
80	The evolving earth: Water tales. Precambrian Research, 1984, 25, 5-12.	1.2	14
81	The earth and its life: Systems perspective. Origins of Life and Evolution of Biospheres, 1988, 18, 13-39.	0.8	13
82	Continental growth: Comments on "The Archean-Proterozoic transition: Evidence from Guyana and Montana" by A. K. Gibbs, C. W. Montgomery, P. A. O'Day and E. A. Erslev. Geochimica Et Cosmochimica Acta, 1988, 52, 789-792.	1.6	12
83	EVOLUTION OF ORES OF SEDIMENTARY AFFILIATION THROUGH GEOLOGIC HISTORY; RELATIONS TO THE GENERAL TENDENCIES IN EVOLUTION OF THE CRUST, HYDROSPHERE, ATMOSPHERE AND BIOSPHERE. , 1976, , 1-41.		10
84	Lead and zinc distribution in carbonate rocks. Chemical Geology, 1982, 37, 351-365.	1.4	8
85	Trace element concentrations in conodonts measured by the Bochum proton microprobe. Nuclear Instruments & Methods in Physics Research B, 1997, 130, 636-640.	0.6	7
86	CO2 as a primary driver of Phanerozoic climate: Comment. GSA Today, 2004, 14, 18.	1.1	6
87	Do Palaeogeographic Data support the Expanding Earth Hypothesis?. Nature, 1971, 229, 480-481.	13.7	4
88	Comment [on "Cosmic rays, carbon dioxide, and climate"]. Eos, 2004, 85, 510-510.	0.1	4
89	Solid Earth as a Recycling System: Temporal Dimensions of Global Tectonics. , 1988, , 357-372.		4
90	Origin and ⁸⁷ Rb- ⁸⁷ Sr age of porewaters in low permeability Ordovician sediments on the eastern flank of the Michigan Basin, Tiverton, Ontario, Canada. Canadian Journal of Earth Sciences, 2019, 56, 201-208.	0.6	3

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91	Diagenetic history of the Korallenoolith (Malm) of northwestern Germany: Implications from in-situ trace element and isotopic studies. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 518-523.	0.6	2