

William M White

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1928332/publications.pdf>

Version: 2024-02-01

82
papers

14,772
citations

44069

48
h-index

76900

74
g-index

84
all docs

84
docs citations

84
times ranked

5476
citing authors

#	ARTICLE	IF	CITATIONS
1	Nb and Pb in oceanic basalts: new constraints on mantle evolution. <i>Earth and Planetary Science Letters</i> , 1986, 79, 33-45.	4.4	1,459
2	Mantle plumes from ancient oceanic crust. <i>Earth and Planetary Science Letters</i> , 1982, 57, 421-436.	4.4	1,367
3	Element transport from slab to volcanic front at the Mariana arc. <i>Journal of Geophysical Research</i> , 1997, 102, 14991-15019.	3.3	1,204
4	The geochemistry of marine sediments, island arc magma genesis, and crust-mantle recycling. <i>Earth and Planetary Science Letters</i> , 1989, 94, 1-21.	4.4	697
5	Sr and Nd isotope geochemistry of oceanic basalts and mantle evolution. <i>Nature</i> , 1982, 296, 821-825.	27.8	663
6	HfNdSr isotopes and incompatible element abundances in island arcs: implications for magma origins and crust-mantle evolution. <i>Earth and Planetary Science Letters</i> , 1984, 67, 167-185.	4.4	662
7	The O, Sr, Nd and Pb isotope geochemistry of MORB. <i>Chemical Geology</i> , 1987, 62, 157-176.	3.3	594
8	Petrologic and geochemical variations along the Mid-Atlantic Ridge from 29 degrees N to 73 degrees N. <i>Numerische Mathematik</i> , 1983, 283, 510-586.	1.4	547
9	High-precision analysis of Pb isotope ratios by multi-collector ICP-MS. <i>Chemical Geology</i> , 2000, 167, 257-270.	3.3	491
10	Sources of oceanic basalts: Radiogenic isotopic evidence. <i>Geology</i> , 1985, 13, 115.	4.4	418
11	K, U and Th in mid-ocean ridge basalt glasses and heat production, K/U and K/Rb in the mantle. <i>Nature</i> , 1983, 306, 431-436.	27.8	390
12	Isotope geochemistry of Pacific Mid-Ocean Ridge Basalt. <i>Journal of Geophysical Research</i> , 1987, 92, 4881-4893.	3.3	355
13	Sediment subduction and magma genesis in the Lesser Antilles: Isotopic and trace element constraints. <i>Journal of Geophysical Research</i> , 1986, 91, 5927-5941.	3.3	346
14	Petrology and geochemistry of the Galápagos Islands: Portrait of a pathological mantle plume. <i>Journal of Geophysical Research</i> , 1993, 98, 19533-19563.	3.3	346
15	Hafnium/rare earth element fractionation in the sedimentary system and crustal recycling into the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 1984, 69, 365-378.	4.4	336
16	Siderophile and chalcophile element abundances in oceanic basalts, Pb isotope evolution and growth of the Earth's core. <i>Earth and Planetary Science Letters</i> , 1986, 80, 299-313.	4.4	302
17	Hf isotope constraints on mantle evolution. <i>Chemical Geology</i> , 1998, 145, 447-460.	3.3	291
18	A possible new Sr-Nd-Pb mantle array and consequences for mantle mixing. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1551-1557.	3.9	240

#	ARTICLE	IF	CITATIONS
19	The nature and origin of geochemical variation in Mid-Atlantic Ridge basalts from the Central North Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 1501-1516.	3.9	220
20	Isotope and trace element geochemistry of sediments from the Barbados Ridge-Demerara Plain region, Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 1875-1886.	3.9	218
21	Os isotope systematics in ocean island basalts. <i>Earth and Planetary Science Letters</i> , 1993, 120, 149-167.	4.4	216
22	Oceanic Island Basalts and Mantle Plumes: The Geochemical Perspective. <i>Annual Review of Earth and Planetary Sciences</i> , 2010, 38, 133-160.	11.0	206
23	Ba, Rb and Cs in the Earth's Mantle. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1983, 38, 256-266.	1.5	191
24	The origin of Samoa: new evidence from Sr, Nd, and Pb isotopes. <i>Earth and Planetary Science Letters</i> , 1987, 81, 151-162.	4.4	157
25	²³⁸ U/ ²⁰⁴ Pb in MORB and open system evolution of the depleted mantle. <i>Earth and Planetary Science Letters</i> , 1993, 115, 211-226.	4.4	157
26	Geochemical Fluxes During Seafloor Alteration of the Basaltic Upper Oceanic Crust: DSDP Sites 417 and 418. <i>Geophysical Monograph Series</i> , 0, , 19-38.	0.1	155
27	Tracing a mantle plume: Isotopic and trace element variations of Galápagos seamounts. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	143
28	Composition of the Oceanic Crust. , 2014, , 457-496.		141
29	The petrology and geochemistry of the Azores Islands. <i>Contributions To Mineralogy and Petrology</i> , 1979, 69, 201-213.	3.1	133
30	Strontium, neodymium, and lead isotopic and trace-element signatures of the East Indonesian sediments: provenance and implications for Banda arc magma genesis. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2573-2598.	3.9	118
31	Sources of error in external calibration ICP-MS analysis of geological samples and an improved non-linear drift correction procedure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1993, 48, 487-506.	2.9	107
32	Isotopes, DUPAL, LLSVPs, and Anekantavada. <i>Chemical Geology</i> , 2015, 419, 10-28.	3.3	105
33	Plume-asthenosphere mixing beneath the Galapagos archipelago. <i>Nature</i> , 1988, 333, 657-660.	27.8	102
34	Hf isotope ratios of marine sediments and Mn nodules: evidence for a mantle source of Hf in seawater. <i>Earth and Planetary Science Letters</i> , 1986, 79, 46-54.	4.4	96
35	Sr-isotope, K, Rb, Cs, Sr, Ba, and rare-earth geochemistry of basalts from the FAMOUS area. <i>Bulletin of the Geological Society of America</i> , 1977, 88, 571.	3.3	94
36	Neodymium isotopic composition of Quaternary island arc lavas from Indonesia. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 989-995.	3.9	91

#	ARTICLE	IF	CITATIONS
37	Probing the Earth's Deep Interior Through Geochemistry. <i>Geochemical Perspectives</i> , 2015, , 95-251.	4.5	85
38	Beyond EM-1: Lavas from Afanasy-Nikitin Rise and the Crozet Archipelago, Indian Ocean. <i>Geology</i> , 1996, 24, 615.	4.4	83
39	Dissolved zirconium and hafnium distributions across a shelf break in the northeastern Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3995-4006.	3.9	81
40	Geochemistry and Geochronology of the Society Islands: New Evidence for Deep Mantle Recycling. <i>Geophysical Monograph Series</i> , 0, , 183-206.	0.1	79
41	Isotopic and trace element constraints on mixing and melting models of marginal basin volcanism, Bransfield Strait, Antarctica. <i>Earth and Planetary Science Letters</i> , 1992, 111, 287-303.	4.4	76
42	Isotopic evidence for Late Cretaceous plume-ridge interaction at the Hawaiian hotspot. <i>Nature</i> , 2000, 405, 673-676.	27.8	73
43	The Hf isotopic composition of ferromanganese nodules and crusts and hydrothermal manganese deposits: Implications for seawater Hf. <i>Earth and Planetary Science Letters</i> , 1997, 151, 91-105.	4.4	71
44	Petrology and Sr, Nd, and Pb isotope geochemistry of mid-ocean ridge basalt glasses from the 11°45'N to 15°00'N segment of the East Pacific Rise. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, n/a-n/a.	2.5	68
45	Tahiti: Geochemical evolution of a French Polynesian Volcano. <i>Journal of Geophysical Research</i> , 1994, 99, 24341-24357.	3.3	67
46	Thorium-uranium systematics require layered mantle convection. <i>Journal of Geophysical Research</i> , 2001, 106, 4265-4276.	3.3	62
47	Hf isotope geochemistry of the Galapagos Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	59
48	Deep mantle subduction flux. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	57
49	Nd and Pb isotope ratios of the Abitibi greenstone belt: new evidence for very early differentiation of the Earth. <i>Earth and Planetary Science Letters</i> , 1994, 128, 215-229.	4.4	56
50	Wolf Volcano, Galapagos Archipelago: Melting and Magmatic Evolution at the Margins of a Mantle Plume. <i>Journal of Petrology</i> , 2005, 46, 2197-2224.	2.8	55
51	Rapid formation of eclogites during a nearly closed ocean: Revisiting the Pianshishan eclogite in Qiangtang, central Tibetan Plateau. <i>Chemical Geology</i> , 2018, 477, 112-122.	3.3	53
52	Evolution of shield-building and rejuvenescent volcanism of Mauritius. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 207, 47-66.	2.1	51
53	Geochemistry of Mauritius and the origin of rejuvenescent volcanism on oceanic island volcanoes. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, .	2.5	45
54	Evidence of ca 1.6-Ga detrital zircon in the Bafia Group (Cameroon): Implication for the chronostratigraphy of the Pan-African Belt north of the Congo craton. <i>Comptes Rendus - Geoscience</i> , 2007, 339, 132-142.	1.2	39

#	ARTICLE	IF	CITATIONS
55	Volcanic evolution in the Galápagos: The dissected shield of Volcan Ecuador. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1 of 32-32 of 32.	2.5	34
56	A preliminary assessment of the symmetry of source composition and melting dynamics across the Azores plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	29
57	Constraints on the $^{232}\text{Th}/^{238}\text{U}$ ratio ($\hat{\rho}$) of the continental crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	28
58	Geochemical Earth Reference Model (GERM): description of the initiative. <i>Chemical Geology</i> , 1998, 145, 153-159.	3.3	23
59	Modelling the isotopic evolution of the Earth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002, 360, 2433-2474.	3.4	22
60	Illegitimate magmas of the Galápagos: Insights into mantle mixing and magma transport. <i>Geology</i> , 1999, 27, 1103.	4.4	17
61	The Influence of Mantle Plumes in Generation of Indian Oceanic Crust. <i>Geophysical Monograph Series</i> , 2013, , 57-89.	0.1	17
62	Geochemistry and geochronology of Grenada and Union islands, Lesser Antilles: The case for mixing between two magma series generated from distinct sources. , 2017, 13, 1359-1391.		16
63	16 m.y. of hotspot and nonhotspot volcanism on the Patton-Murray seamount platform, Gulf of Alaska. <i>Geology</i> , 1997, 25, 511.	4.4	12
64	Geochemistry. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 561-571.	0.1	10
65	Geochemical tracers of mantle processes. <i>Reviews of Geophysics</i> , 1995, 33, 19.	23.0	8
66	Geochemical Evidence for Crust-To-Mantle Recycling in Subduction Zones. , 1989, , 43-58.		7
67	Isotopes and a smoking gun. <i>Nature</i> , 1993, 362, 791-792.	27.8	4
68	Helium not in store. <i>Nature</i> , 2005, 436, 1095-1096.	27.8	4
69	Surviving subduction. <i>Nature</i> , 1992, 358, 714-715.	27.8	3
70	Through the wringer. <i>Nature</i> , 2002, 420, 366-367.	27.8	3
71	Geochemistry of Basalt from Escanaba Trough: Evidence for Sediment Contamination. <i>Journal of Petrology</i> , 1998, 39, 841-858.	2.8	3
72	Overturning mantle models. <i>Nature</i> , 1994, 372, 43-44.	27.8	2

#	ARTICLE	IF	CITATIONS
73	Electronic data publication in geochemistry: A plea for "full disclosure". Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	2
74	Correction to "Geochemistry of back arc basin volcanism in Bransfield Strait, Antarctica: Subducted contributions and along-axis variations" by R. A. Keller et al.. Journal of Geophysical Research, 2002, 107, ECV 1-1-ECV 1-1.	3.3	2
75	Correction to "Volcanic evolution in the Galpagos: The dissected shield of Volcan Ecuador" by D. Geist, W. M. White, F. Albarede, K. Harpp, R. Reynolds, J. Blichert-Toft, and M. Kurz. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	2
76	Portrait of Earth's coming of age. Nature, 2012, 485, 452-453.	27.8	2
77	Rust marks second-hand crust. Nature, 1996, 382, 403-404.	27.8	1
78	Hot Spots and Mantle Plumes. Encyclopedia of Earth Sciences Series, 2016, , 316-327.	0.1	1
79	Hot Spots and Mantle Plumes. , 2014, , 1-20.		1
80	Geochemistry. Encyclopedia of Earth Sciences Series, 2017, , 1-10.	0.1	1
81	Unravelling the genesis of young continental-arc shoshonites in the Talamanca Cordillera, Costa Rica. Lithos, 2021, 386-387, 106017.	1.4	0
82	History of Geochemistry. Encyclopedia of Earth Sciences Series, 2017, , 1-15.	0.1	0