

David W Graham

List of Publications by Year in descending order

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74
papers

6,148
citations

87888

38
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69250

77
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82
all docs

82
docs citations

82
times ranked

3792
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead and Helium Isotope Evidence from Oceanic Basalts for a Common Deep Source of Mantle Plumes. <i>Science</i> , 1996, 272, 991-995.	12.6	426
2	Erosion of lithospheric mantle beneath the East African Rift system: geochemical evidence from the Kivu volcanic province. <i>Lithos</i> , 1999, 48, 237-262.	1.4	385
3	Seismic and geochemical evidence for large-scale mantle upwelling beneath the eastern Atlantic and western and central Europe. <i>Nature</i> , 1995, 374, 34-39.	27.8	368
4	Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel ridge, Arctic Ocean. <i>Nature</i> , 2003, 423, 956-961.	27.8	366
5	Carbon and oxygen isotopic disequilibria of recent deep-sea benthic foraminifera. <i>Marine Micropaleontology</i> , 1981, 6, 483-497.	1.2	266
6	Vesicle-Specific Noble Gas Analyses of "Popping Rock": Implications for Primordial Noble Gases in Earth. <i>Science</i> , 1997, 276, 568-571.	12.6	235
7	Mid-ocean ridge popping rocks: implications for degassing at ridge crests. <i>Earth and Planetary Science Letters</i> , 1990, 97, 268-289.	4.4	223
8	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. <i>Nature</i> , 2003, 421, 252-256.	27.8	206
9	Geochemistry of Cenozoic basalts and mantle xenoliths in Northeast China. <i>Lithos</i> , 2007, 96, 108-126.	1.4	205
10	Metal diagenesis in oxic marine sediments. <i>Earth and Planetary Science Letters</i> , 1982, 61, 211-219.	4.4	201
11	Large volume recycling of oceanic lithosphere over short time scales: geochemical constraints from the Caribbean Large Igneous Province. <i>Earth and Planetary Science Letters</i> , 2000, 174, 247-263.	4.4	140
12	Strontium-calcium ratios in Cenozoic planktonic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 1281-1292.	3.9	137
13	Helium isotope geochemistry of some volcanic rocks from Saint Helena. <i>Earth and Planetary Science Letters</i> , 1992, 110, 121-131.	4.4	136
14	He, Pb, Sr and Nd isotope constraints on magma genesis and mantle heterogeneity beneath young Pacific seamounts. <i>Contributions To Mineralogy and Petrology</i> , 1988, 99, 446-463.	3.1	134
15	Extreme temporal homogeneity of helium isotopes at Piton de la Fournaise, Réunion Island. <i>Nature</i> , 1990, 347, 545-548.	27.8	131
16	Correlated geophysical, geochemical, and volcanological manifestations of plume-ridge interaction along the Galápagos Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-14.	2.5	119
17	Helium isotope composition of the early Iceland mantle plume inferred from the Tertiary picrites of West Greenland. <i>Earth and Planetary Science Letters</i> , 1998, 160, 241-255.	4.4	112
18	The spectra of isotopic heterogeneities along the mid-Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 2005, 238, 96-109.	4.4	112

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19	Between a Hotspot and a Cold Spot: Isotopic Variation in the Southeast Indian Ridge Asthenosphere, 86degreesE-118degreesE. <i>Journal of Petrology</i> , 2002, 43, 1155-1176.	2.8	110
20	Mantle Plume Helium in Submarine Basalts from the Galapagos Platform. <i>Science</i> , 1993, 262, 2023-2026.	12.6	108
21	Helium isotope geochemistry of mid-ocean ridge basalts from the South Atlantic. <i>Earth and Planetary Science Letters</i> , 1992, 110, 133-147.	4.4	101
22	Origin of a "Southern Hemisphere" geochemical signature in the Arctic upper mantle. <i>Nature</i> , 2008, 453, 89-93.	27.8	96
23	8. Noble Gas Isotope Geochemistry of Mid-Ocean Ridge and Ocean Island Basalts: Characterization of Mantle Source Reservoirs. , 2002, , 247-318.		92
24	Upper Mantle Pollution during Afar Plume-Continental Rift Interaction. <i>Journal of Petrology</i> , 2012, 53, 365-389.	2.8	88
25	Carbonate chemistry in marine pore waters: MANOP sites C and S. <i>Earth and Planetary Science Letters</i> , 1982, 61, 220-232.	4.4	85
26	186Os and 187Os enrichments and high-3He/4He sources in the Earth's mantle: Evidence from Icelandic picrites. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4570-4591.	3.9	80
27	The behavior and concentration of CO2 in the suboceanic mantle: Inferences from undegassed ocean ridge and ocean island basalts. <i>Lithos</i> , 2015, 236-237, 338-351.	1.4	73
28	Resolving lithospheric and sub-lithospheric contributions to helium isotope variations in basalts from the southwestern US. <i>Earth and Planetary Science Letters</i> , 1996, 144, 213-222.	4.4	71
29	Erosion of lithospheric mantle beneath the East African Rift system: geochemical evidence from the Kivu volcanic province. <i>Developments in Geotectonics</i> , 1999, 24, 237-262.	0.3	70
30	Hotspot-ridge interaction along the Southeast Indian Ridge near Amsterdam and St. Paul islands: helium isotope evidence. <i>Earth and Planetary Science Letters</i> , 1999, 167, 297-310.	4.4	69
31	Petrology and geochronology of basalt breccia from the 1996 earthquake swarm of Loihi seamount, Hawaii: magmatic history of its 1996 eruption. <i>Bulletin of Volcanology</i> , 1998, 59, 577-592.	3.0	68
32	Helium isotope disequilibrium and geochronology of glassy submarine basalts. <i>Nature</i> , 1987, 326, 384-386.	27.8	62
33	Mantle source provinces beneath the Northwestern USA delimited by helium isotopes in young basalts. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 128-140.	2.1	58
34	Cryptic striations in the upper mantle revealed by hafnium isotopes in southeast Indian ridge basalts. <i>Nature</i> , 2006, 440, 199-202.	27.8	57
35	Primitive off-rift basalts from Iceland and Jan Mayen: Os-isotopic evidence for a mantle source containing enriched subcontinental lithosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3423-3449.	3.9	52
36	Mechanisms of magmatic gas loss along the Southeast Indian Ridge and the Amsterdam "St. Paul Plateau. <i>Earth and Planetary Science Letters</i> , 2002, 203, 131-148.	4.4	43

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37	Upper-mantle dynamics revealed by helium isotope variations along the southeast Indian ridge. <i>Nature</i> , 2001, 409, 701-703.	27.8	42
38	Correlated He and Sr isotope ratios in South Atlantic near-ridge seamounts and implications for mantle dynamics. <i>Earth and Planetary Science Letters</i> , 1996, 144, 491-503.	4.4	39
39	Helium isotopic textures in Earth's upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2048-2074.	2.5	39
40	Helium isotopes in some historical lavas from Mount Vesuvius. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 58, 359-366.	2.1	38
41	Fractionation of noble gases (He, Ar) during MORB mantle melting: a case study on the Southeast Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2004, 227, 457-472.	4.4	38
42	Anomalous seafloor spreading of the Southeast Indian Ridge near the Amsterdam-St. Paul Plateau. <i>Journal of Geophysical Research</i> , 2000, 105, 8243-8262.	3.3	37
43	Age constraints on crustal recycling to the mantle beneath the southern Chile Ridge: He-Pb-Sr-Nd isotope systematics. <i>Journal of Geophysical Research</i> , 1999, 104, 5097-5114.	3.3	32
44	Boomerang Seamount: the active expression of the Amsterdam-St. Paul hotspot, Southeast Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2000, 183, 245-259.	4.4	32
45	Influence of the Amsterdam/St. Paul hot spot along the Southeast Indian Ridge between 77° and 88°E: Correlations of Sr, Nd, Pb, and He isotopic variations with ridge segmentation. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	31
46	Helium isotope variations in Juan De Fuca Ridge basalts. <i>Geophysical Research Letters</i> , 1993, 20, 1851-1854.	4.0	30
47	Asthenosphere-lithosphere interactions in Western Saudi Arabia: Inferences from ³ He/ ⁴ He in xenoliths and lava flows from Harrat Hutaymah. <i>Lithos</i> , 2016, 248-251, 339-352.	1.4	29
48	Reply to comment by T.M. Gerlach on "Mid-ocean ridge popping rocks: implications for degassing at ridge crests". <i>Earth and Planetary Science Letters</i> , 1991, 105, 568-573.	4.4	27
49	Distinguishing Plume and Metasomatized Lithospheric Mantle Contributions to Post-Flood Basalt Volcanism on the Southeastern Ethiopian Plateau. <i>Journal of Petrology</i> , 2019, 60, 1063-1094.	2.8	27
50	Mantle melting and magma supply to the Southeast Indian Ridge: The roles of lithology and melting conditions from U-series disequilibria. <i>Earth and Planetary Science Letters</i> , 2009, 278, 55-66.	4.4	26
51	Lithospheric mantle evolution in the Afro-Arabian domain: Insights from Bir Ali mantle xenoliths (Yemen). <i>Tectonophysics</i> , 2015, 650, 3-17.	2.2	25
52	On late miocene abyssal hydrography. <i>Marine Micropaleontology</i> , 1981, 6, 451-464.	1.2	23
53	Diagenesis and convection reflected in pore water chemistry on the western flank of the East Pacific Rise, 20 degrees south. <i>Earth and Planetary Science Letters</i> , 1985, 76, 71-83.	4.4	23
54	Pb and Hf isotope variations along the Southeast Indian Ridge and the dynamic distribution of MORB source domains in the upper mantle. <i>Earth and Planetary Science Letters</i> , 2013, 375, 196-208.	4.4	23

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55	Hydrogen isotopes in high $3\text{He}/4\text{He}$ submarine basalts: Primordial vs. recycled water and the veil of mantle enrichment. <i>Earth and Planetary Science Letters</i> , 2019, 508, 62-73.	4.4	23
56	Cretaceous-to-recent record of elevated $3\text{He}/4\text{He}$ along the Hawaiian-Emperor volcanic chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	22
57	Tracking fluvial response to climate change in the Pacific Northwest: a combined provenance approach using Ar and Nd isotopic systems on fine-grained sediments. <i>Quaternary Science Reviews</i> , 2008, 27, 497-517.	3.0	21
58	Iron enrichments in hydrothermal plumes over the East Pacific Rise. <i>Earth and Planetary Science Letters</i> , 1986, 79, 250-254.	4.4	20
59	Mantle hotspot neon in basalts from the Northwest Lau Back-arc Basin. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	19
60	Deep-mantle krypton reveals Earth's early accretion of carbonaceous matter. <i>Nature</i> , 2021, 600, 462-467.	27.8	19
61	Plume-ridge interaction along the Galapagos Spreading Center: discerning between gas loss and source effects using neon isotopic compositions and $4\text{He}/^{40}\text{Ar}$ - $^{13}\text{C}/^{12}\text{C}$ relative abundances. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1145-1160.	3.9	18
62	Comment on "A ten-year decrease in the atmospheric helium isotope ratio possibly caused by human activity", by Y. Sano et al.. <i>Geophysical Research Letters</i> , 1991, 18, 482-485.	4.0	17
63	Extreme incompatibility of helium during mantle melting: Evidence from undegassed mid-ocean ridge basalts. <i>Earth and Planetary Science Letters</i> , 2016, 454, 192-202.	4.4	15
64	An investigation of mid-ocean ridge degassing using He, CO_2 , and ^{13}C variations during the 2005-06 eruption at $9^{\circ}50'\text{N}$ on the East Pacific Rise. <i>Earth and Planetary Science Letters</i> , 2018, 504, 84-93.	4.4	11
65	Spatial and temporal variability in Marquesas Islands volcanism revealed by $3\text{He}/4\text{He}$ and the composition of olivine-hosted melt inclusions. <i>Chemical Geology</i> , 2018, 477, 161-176.	3.3	10
66	Recycled Components in Mantle Plumes Deduced From Variations in Halogens (Cl, Br, and I), Trace Elements, and $3\text{He}/4\text{He}$ Along the Hawaiian-Emperor Seamount Chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 277-294.	2.5	10
67	Predominantly recycled carbon in Earth's upper mantle revealed by He- CO_2 -Ba systematics in ultradepleted ocean ridge basalts. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116646.	4.4	8
68	Variable Crustal Production Originating From Mantle Source Heterogeneity Beneath the South East Indian Ridge and Amsterdam-St. Paul Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4635-4653.	2.5	3
69	Helium isotopes in historical lavas from Mount Vesuvius. <i>Earth and Planetary Science Letters</i> , 1999, 174, 241-244.	4.4	2
70	Coupled helium-lead isotope systematics in the Earth's mantle. <i>Chemical Geology</i> , 1988, 70, 50.	3.3	1
71	Neon illuminates the mantle. <i>Nature</i> , 2005, 433, 25-26.	27.8	1
72	Relict mantle from Earth's birth. <i>Nature</i> , 2010, 466, 822-823.	27.8	1

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73	Unusually homogeneous helium isotope composition of the Auckland Volcanic Field and its implications for the underlying mantle. <i>Chemical Geology</i> , 2020, 545, 119639.	3.3	1
74	Small-scale stirrings. <i>Nature Geoscience</i> , 2014, 7, 556-558.	12.9	0