Barry B Hanan

List of Publications by Citations

58 papers	3,238 citations	32 h-index	56 g-index
61 ext. papers	3,523 ext. citations	7.2 avg, IF	4.82 L-index

#	Paper	IF	Citations
58	Fore-arc basalts and subduction initiation in the Izu-Bonin-Mariana system. *Geochemistry, Geophysics, Geosystems*, **2010**, 11, n/a-n/a	3.6	467
57	Nd-Sr-Pb isotopic variations along the Gulf of Aden: Evidence for Afar Mantle Plume-Continental Lithosphere Interaction. *Journal of Geophysical Research*, **1992**, 97, 10927		198
56	Pb isotope evidence in the South Atlantic for migrating ridge-hotspot interactions. *Nature*, **1986**, 322, 137-144	50.4	150
55	Contrasting origins of the upper mantle revealed by hafnium and lead isotopes from the Southeast Indian Ridge. *Nature*, **2004**, 432, 91-4	50.4	142
54	Easter microplate evolution: Pb isotope evidence. *Journal of Geophysical Research*, **1989**, 94, 7432		115
53	SrNdPb geochemical morphology between 10° and 17°N on the Mid-Atlantic Ridge: A new MORB isotope signature. *Earth and Planetary Science Letters*, **1991**, 106, 29-43	5.3	109
52	Helium isotope composition of the early Iceland mantle plume inferred from the Tertiary picrites of West Greenland. *Earth and Planetary Science Letters*, **1998**, 160, 241-255	5.3	102
51	Multi-Stage Origin of the Coast Range Ophiolite, California: Implications for the Life Cycle of Supra-Subduction Zone Ophiolites. *International Geology Review*, **2004**, 46, 289-315	2.3	93
50	The dynamic evolution of the Iceland mantle plume: the lead isotope perspective. *Earth and Planetary Science Letters*, **1997**, 151, 43-60	5.3	87
49	Tertiary Mafic Lavas of Turkana, Kenya: Constraints on East African Plume Structure and the Occurrence of High-volcanism in Africa. *Journal of Petrology*, **2006**, 47, 1221-1244	3.9	85
48	Depleted Iceland mantle plume geochemical signature: Artifact of multicomponent mixing?. *Geochemistry, Geophysics, Geosystems*, **2000**, 1, n/a-n/a	3.6	75
47	Upper Mantle Pollution during Afar Plume-Continental Rift Interaction. *Journal of Petrology*, **2012**, 53, 365-389	3.9	74
46	A plume-triggered delamination origin for the Columbia River Basalt Group **2008**, 4, 480		74
45	Major and trace element and Sr-Nd isotope signatures of lavas from the Central Lau Basin: Implications for the nature and influence of subduction components in the back-arc mantle. *Journal of Volcanology and Geothermal Research*, **2008**, 178, 657-670	2.8	73
44	Petrogenesis of Volcanic Rocks from Saipan and Rota, Mariana Islands, and Implications for the Evolution of Nascent Island Arcs. *Journal of Petrology*, **2008**, 49, 441-464	3.9	72
43	The role of continental lithosphere metasomes in the production of HIMU-like magmatism on the northeast African and Arabian plates. *Geology*, **2014**, 42, 419-422	5	70
42	Radioisotopic and biostratigraphic age relations in the Coast Range Ophiolite, northern California: Implications for the tectonic evolution of the Western Cordillera. *Bulletin of the Geological Society of America*, **2005**, 117, 633	3.9	70

41	Chaotic topography, mantle flow and mantle migration in the Australian-Antarctic discordance. *Nature*, **1998**, 394, 637-644	50.4	65
40	Layered mafic sill complex beneath the eastern Snake River Plain: Evidence from cyclic geochemical variations in basalt. *Geology*, **2006**, 34, 365	5	64
39	Heads and tails: 30 million years of the Afar plume. *Geological Society Special Publication*, **2006**, 259, 95-119	1.7	60
38	Yellowstone plume-continental lithosphere interaction beneath the Snake River Plain. *Geology*, **2008**, 36, 51	5	59
37	Investigating solid mantle upwelling beneath mid-ocean ridges using U-series disequilibria. II. A local study at 33°S Mid-Atlantic Ridge. *Earth and Planetary Science Letters*, **1998**, 157, 167-181	5.3	54
36	Hafnium isotopic variations in volcanic rocks from the Caribbean Large Igneous Province and Galapagos hot spot tracks. *Geochemistry, Geophysics, Geosystems*, **2003**, 4,	3.6	49
35	Melting the lithosphere: Metasomes as a source for mantle-derived magmas. *Earth and Planetary Science Letters*, **2017**, 461, 105-118	5.3	46
34	Lithospheric topography, tilted plumes, and the track of the Snake River-Yellowstone hot spot. *Tectonics*, **2008**, 27, n/a-n/a	4.3	46
33	One hundred million years of mantle geochemical history suggest the retiring of mantle plumes is premature. *Earth and Planetary Science Letters*, **2008**, 275, 285-295	5.3	45
32	Unusual δ56 Fe values in Samoan rejuvenated lavas generated in the mantle. *Earth and Planetary Science Letters*, **2016**, 450, 221-232	5.3	45
31	Morphological and geochemical variations along the eastern Galapagos Spreading Center. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	44
30	Geochemical evidence for the Trindade hotspot trace: Columbia seamount ankaramite. *Lithos*, **2000**, 51, 293-304	2.9	41
29	The Stonyford Volcanic Complex: a Forearc Seamount in the Northern California Coast Ranges. *Journal of Petrology*, **2005**, 46, 2091-2128	3.9	40
28	Geochemical portray of the Pacific Ridge: New isotopic data and statistical techniques. *Earth and Planetary Science Letters*, **2011**, 302, 154-162	5.3	36
27	Major and trace element and Sr-Nd isotope signatures of the northern Lau Basin lavas: Implications for the composition and dynamics of the back-arc basin mantle. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		33
26	An overview of the volatile systematics of the Lau Basin – Resolving the effects of source variation, magmatic degassing and crustal contamination. *Geochimica Et Cosmochimica Acta*, **2012**, 85, 88-113	5.5	32
25	Geochemistry of post-collisional mafic lavas from the North Anatolian Fault zone, Northwestern Turkey. *Lithos*, **2008**, 101, 416-434	2.9	32
24	Helium isotopic textures in Earth's upper mantle. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 2048-2074	3.7	31

23	Geochemical stages at Jasper Seamount and the origin of intraplate volcanoes. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	27
22	OsHf isotopic insight into mantle plume dynamics beneath the East African Rift System. *Chemical Geology*, **2012**, 320-321, 66-79	4.2	26
21	Hafnium isotopic variations in East Atlantic intraplate volcanism. *Contributions To Mineralogy and Petrology*, **2011**, 162, 21-36	3.5	24
20	Jurassic volcanic glass from the Stonyford volcanic complex, Franciscan assemblage, northern California Coast Ranges. *Geology*, **1989**, 17, 510	5	24
19	Seamounts in the Subduction Factory. *Oceanography*, **2010**, 23, 176-181	2.3	23
18	Pb and Hf isotope variations along the Southeast Indian Ridge and the dynamic distribution of MORB source domains in the upper mantle. *Earth and Planetary Science Letters*, **2013**, 375, 196-208	5.3	22
17	The origin of the asymmetry in the Iceland hotspot along the Mid-Atlantic Ridge from continental breakup to present-day. *Earth and Planetary Science Letters*, **2014**, 392, 143-153	5.3	21
16	Sr-Nd-Hf isotopes along the Pacific Antarctic Ridge from 41 to 53°S. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	21
15	Yellowstone hotspot□ontinental lithosphere interaction. *Earth and Planetary Science Letters*, **2014**, 389, 119-131	5.3	19
14	Distinguishing Plume and Metasomatized Lithospheric Mantle Contributions to Post-Flood Basalt Volcanism on the Southeastern Ethiopian Plateau. *Journal of Petrology*, **2019**, 60, 1063-1094	3.9	18
13	Source components and magmatic processes in the genesis of Miocene to Quaternary lavas in western Turkey: constraints from HSE distribution and Hf□PbD□s isotopes. *Contributions To Mineralogy and Petrology*, **2015**, 170, 1	3.5	18
12	The Steens Basalt: Earliest lavas of the Columbia River Basalt Group **2013**,		17
11	Isotopic geochemistry of Hualalai shield-stage tholeiitic basalts from submarine North Kona region, Hawaii. *Journal of Volcanology and Geothermal Research*, **2009**, 185, 223-230	2.8	15
10	Geochemical diversity in submarine HIMU basalts from Austral Islands, French Polynesia. *Contributions To Mineralogy and Petrology*, **2013**, 166, 1285-1304	3.5	14
9	Geochemistry of 24 Ma basalts from NE Egypt: source components and fractionation history. *Geological Society Special Publication*, **2011**, 357, 265-283	1.7	14
8	Sulfide mantle source heterogeneity recorded in basaltic lavas from the Azores. *Geochimica Et Cosmochimica Acta*, **2020**, 268, 422-445	5.5	11
7	Basaltic volcanism of the central and western Snake River Plain: A guide to field relations between Twin Falls and Mountain Home, Idaho **2005**, 27-52		10
6	Primordial helium isotope signature from Plio-Quaternary alkaline basalts in Yemen. *Island Arc*, **2001**, 10, 145-157	2	9

List of Publications

5	Contrasted hydrothermal activity along the South-East Indian Ridge (130°E–140°E): From crustal to ultramafic circulation. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 2446-2458	3.6	7
4	Helium Isotope Variations and Mantle Plume-Spreading Ridge Interactions Along the Galapagos Spreading Center. *Geophysical Monograph Series*, **2014**, 393-414	1.1	5
3	Titanite Mineralization of Microbial Bioalteration Textures in Jurassic Volcanic Glass, Coast Range Ophiolite, California. *Frontiers in Earth Science*, **2019**, 7,	3.5	5
2	Igneous and metamorphic U-Pb zircon ages from the Baltimore mafic complex, Maryland Piedmont **1997**,		3
1	Post-delamination magmatism in south-central Anatolia. *Lithos*, **2021**, 398-399, 106299	2.9	3