

Henry J B Dick

List of Publications by Year in descending order

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86
papers

12,127
citations

50170

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53109

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docs citations

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times ranked

4160
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneity in texture and crystal fabric of intensely hydrated ultramylonitic peridotites along a transform fault, Southwest Indian Ridge. <i>Tectonophysics</i> , 2022, 823, 229206.	0.9	5
2	Sulfide enrichment along igneous layer boundaries in the lower oceanic crust: IODP Hole U1473A, Atlantis Bank, Southwest Indian Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 320, 179-206.	1.6	6
3	Archean cratonic mantle recycled at a mid-ocean ridge. <i>Science Advances</i> , 2022, 8, .	4.7	30
4	Trace Element and Isotopic Evidence for Recycled Lithosphere from Basalts from 48 to 53°E, Southwest Indian Ridge. <i>Journal of Petrology</i> , 2021, 61, .	1.1	7
5	Evidence for Multi-stage Melt Transport in the Lower Ocean Crust: the Atlantis Bank Gabbroic Massif (IODP Hole U1473A, SW Indian Ridge). <i>Journal of Petrology</i> , 2021, 61, .	1.1	19
6	Competing effects of spreading rate, crystal fractionation and source variability on Fe isotope systematics in mid-ocean ridge lavas. <i>Scientific Reports</i> , 2021, 11, 4123.	1.6	11
7	Tectonic Controls on Block Rotation and Sheeted Sill Emplacement in the Xigaze Ophiolite (Tibet): The Construction Mode of Slow-Spreading and Ultraslow-Spreading Oceanic Crusts. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009297.	1.0	15
8	MORB Melt Transport through Atlantis Bank Oceanic Batholith (SW Indian Ridge). <i>Journal of Petrology</i> , 2021, 62, .	1.1	18
9	High-Temperature Strain Localization and the Nucleation of Oceanic Core Complexes (16.5°N), Tj ETQq1 1 0.784314 rgBT ₀ /Overlo	1.4	14
10	The Xigaze ophiolite: fossil ultraslow-spreading ocean lithosphere in the Tibetan Plateau. <i>Journal of the Geological Society</i> , 2021, 178, .	0.9	15
11	Plate-driven micro-hotspots and the evolution of the Dragon Flag melting anomaly, Southwest Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2020, 531, 116002.	1.8	23
12	An Early Cretaceous subduction-modified mantle underneath the ultraslow spreading Gakkel Ridge, Arctic Ocean. <i>Science Advances</i> , 2020, 6, .	4.7	27
13	Recycled arc mantle recovered from the Mid-Atlantic Ridge. <i>Nature Communications</i> , 2020, 11, 3887.	5.8	34
14	Enormous Lithium Isotopic Variations of Abyssal Peridotites Reveal Fast Cooling and Melt/Fluid-Rock Interactions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020393.	1.4	3
15	Silica-Rich Vein Formation in an Evolving Stress Field, Atlantis Bank Oceanic Core Complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008795.	1.0	4
16	Recycling and metabolic flexibility dictate life in the lower oceanic crust. <i>Nature</i> , 2020, 579, 250-255.	18.7	59
17	Dynamic Accretion Beneath a Slow-Spreading Ridge Segment: IODP Hole 1473A and the Atlantis Bank Oceanic Core Complex. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12631-12659.	1.4	53
18	Emplacement and High-Temperature Evolution of Gabbros of the 16.5°N Oceanic Core Complexes (Mid-Atlantic Ridge): Insights Into the Compositional Variability of the Lower Oceanic Crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 46-66.	1.0	19

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19	The Atlantis Bank Gabbro Massif, Southwest Indian Ridge. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	1.1	50
20	Sulfide enrichment at an oceanic crust-mantle transition zone: Kane Megamullion (23°N, MAR). <i>Geochimica Et Cosmochimica Acta</i> , 2018, 230, 155-189.	1.6	20
21	Occurrence of Felsic Rocks in Oceanic Gabbros from IODP Hole U1473A: Implications for Evolved Melt Migration in the Lower Oceanic Crust. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 583.	0.8	39
22	Magnesium isotopic composition of the oceanic mantle and oceanic Mg cycling. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 206, 151-165.	1.6	47
23	Thin crust and exposed mantle control sulfide differentiation in slow-spreading ridge magmas. <i>Geology</i> , 2017, 45, 935-938.	2.0	13
24	New insights on the origin of troctolites from the breakaway area of the Godzilla Megamullion (Parece Vela back-arc basin): The role of melt-mantle interaction on the composition of the lower crust. <i>Island Arc</i> , 2016, 25, 220-234.	0.5	22
25	Melt extraction and mantle source at a Southwest Indian Ridge Dragon Bone amagmatic segment on the Marion Rise. <i>Lithos</i> , 2016, 246-247, 48-60.	0.6	24
26	Mantle rock exposures at oceanic core complexes along mid-ocean ridges. <i>Geologos</i> , 2015, 21, 207-231.	0.2	13
27	Ocean rises are products of variable mantle composition, temperature and focused melting. <i>Nature Geoscience</i> , 2015, 8, 68-74.	5.4	28
28	Podiform chromitite formation in a low-Cr/high-Al system: An example from the Southwest Indian Ridge (SWIR). <i>Mineralogy and Petrology</i> , 2014, 108, 533-549.	0.4	16
29	Tracking flux melting and melt percolation in supra-subduction peridotites (Josephine ophiolite, USA). <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	1.2	42
30	Isotope and trace element insights into heterogeneity of subridge mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2438-2453.	1.0	49
31	Development and evolution of detachment faulting along 50 km of the Mid-Atlantic Ridge near 16.5°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4692-4711.	1.0	32
32	Mylonitic deformation at the Kane oceanic core complex: Implications for the rheological behavior of oceanic detachment faults. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3085-3108.	1.0	56
33	Melt-Rock Reaction in the Mantle: Mantle Troctolites from the Parece Vela Ancient Back-Arc Spreading Center. <i>Journal of Petrology</i> , 2013, 54, 861-885.	1.1	60
34	Nonvolcanic tectonic islands in ancient and modern oceans. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4698-4717.	1.0	28
35	Thin crust as evidence for depleted mantle supporting the Marion Rise. <i>Nature</i> , 2013, 494, 195-200.	13.7	135
36	The earliest mantle fabrics formed during subduction zone infancy. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 106-113.	1.8	13

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37	Influence of igneous processes and serpentinization on geochemistry of the Logatchev Massif harzburgites (14°45'N, Mid-Atlantic Ridge), and comparison with global abyssal peridotites. <i>International Geology Review</i> , 2013, 55, 115-130.	1.1	7
38	Cemented mounds and hydrothermal sediments on the detachment surface at Kane Megamullion: A new manifestation of hydrothermal venting. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3352-3378.	1.0	11
39	Dick receives 2011 Harry H. Hess Medal: Response. <i>Eos</i> , 2012, 93, 23-23.	0.1	0
40	Mantle Melting, Melt Transport, and Delivery Beneath a Slow-Spreading Ridge: The Paleo-MAR from 23°15'N to 23°45'N. <i>Journal of Petrology</i> , 2010, 51, 425-467.	1.1	133
41	Paired melt lenses at the East Pacific Rise and the pattern of melt flow through the gabbroic layer at a fast-spreading ridge. <i>Lithos</i> , 2009, 112, 73-86.	0.6	46
42	An assessment of upper mantle heterogeneity based on abyssal peridotite isotopic compositions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	113
43	Plutonic foundation of a slow-spreading ridge segment: Oceanic core complex at Kane Megamullion, 23°30'N, 45°20'W. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	207
44	MORB generation beneath the ultraslow spreading Southwest Indian Ridge (9°25'E): Major element chemistry and the importance of process versus source. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	113
45	Melt-rock reaction in the lower oceanic crust and its implications for the genesis of mid-ocean ridge basalt. <i>Earth and Planetary Science Letters</i> , 2008, 271, 311-325.	1.8	160
46	Petrology of local concentration of chromian spinel in dunite from the slow-spreading Southwest Indian Ridge. <i>European Journal of Mineralogy</i> , 2007, 19, 871-882.	0.4	39
47	Pyroxenites from the Southwest Indian Ridge, 9-16°E: Cumulates from Incremental Melt Fractions Produced at the Top of a Cold Melting Regime. <i>Journal of Petrology</i> , 2007, 48, 647-660.	1.1	68
48	Evolution of the Southwest Indian Ridge from 55°45'E to 62°E: Changes in plate-boundary geometry since 26 Ma. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	44
49	Nonvolcanic seafloor spreading and corner-flow rotation accommodated by extensional faulting at 15°N on the Mid-Atlantic Ridge: A structural synthesis of ODP Leg 209. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	47
50	Pervasive melt percolation reactions in ultra-depleted refractory harzburgites at the Mid-Atlantic Ridge, 15° 20'N: ODP Hole 1274A. <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 303-319.	1.2	201
51	Dating the Growth of Oceanic Crust at a Slow-Spreading Ridge. <i>Science</i> , 2005, 310, 654-657.	6.0	90
52	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	1.0	93
53	Magmatic srilankite (Ti ₂ ZrO ₆) in gabbroic vein cutting oceanic peridotites: An unusual product of peridotite-melt interactions beneath slow-spreading ridges. <i>American Mineralogist</i> , 2004, 89, 759-766.	0.9	19
54	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. <i>Nature</i> , 2003, 421, 252-256.	13.7	206

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55	Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel ridge, Arctic Ocean. <i>Nature</i> , 2003, 423, 956-961.	13.7	366
56	An ultraslow-spreading class of ocean ridge. <i>Nature</i> , 2003, 426, 405-412.	13.7	852
57	Noble gas signatures of abyssal gabbros and peridotites at an Indian Ocean core complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	19
58	Mechanism for generating the anomalous uplift of oceanic core complexes: Atlantis Bank, southwest Indian Ridge. <i>Geology</i> , 2003, 31, 1105.	2.0	61
59	Magmatism and "Crust-mantle Boundary" on the Ultra-slow Spreading Ridge as Observed in Atlantis Bank, Southwest Indian Ridge. <i>Journal of Geography (Chigaku Zasshi)</i> , 2003, 112, 705-719.	0.1	4
60	Abyssal peridotite osmium isotopic compositions from cr-spinel. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-24.	1.0	92
61	Discovery of ancient and active hydrothermal systems along the ultra-slow spreading Southwest Indian Ridge 10°-16°E. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-14.	1.0	110
62	Mineralogy of the mid-ocean-ridge basalt source from neodymium isotopic composition of abyssal peridotites. <i>Nature</i> , 2002, 418, 68-72.	13.7	186
63	The geochemical consequences of late-stage low-grade alteration of lower ocean crust at the SW Indian Ridge: results from ODP Hole 735B (Leg 176). <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3267-3287.	1.6	159
64	Evidence from gravity anomalies for interactions of the Marion and Bouvet hotspots with the Southwest Indian Ridge: effects of transform offsets. <i>Earth and Planetary Science Letters</i> , 2001, 187, 283-300.	1.8	135
65	Coupled major and trace elements as indicators of the extent of melting in mid-ocean-ridge peridotites. <i>Nature</i> , 2001, 410, 677-681.	13.7	528
66	Formation of the lower ocean crust and the crystallization of gabbroic cumulates at a very slowly spreading ridge. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 110, 191-233.	0.8	131
67	A long in situ section of the lower ocean crust: results of ODP Leg 176 drilling at the Southwest Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2000, 179, 31-51.	1.8	456
68	The fingerprint of seawater circulation in a 500-meter section of ocean crust gabbros. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 4059-4080.	1.6	255
69	Focused melt flow and localized deformation in the upper mantle: Juxtaposition of replacive dunite and ductile shear zones in the Josephine peridotite, SW Oregon. <i>Journal of Geophysical Research</i> , 1995, 100, 423-438.	3.3	185
70	Pervasive magnesium loss by marine weathering of peridotite. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 4219-4235.	1.6	311
71	Nd and Sr isotope evidence linking mid-ocean-ridge basalts and abyssal peridotites. <i>Nature</i> , 1994, 371, 57-60.	13.7	109
72	Open system melting and temporal and spatial variation of peridotite and basalt at the Atlantis II Fracture Zone. <i>Journal of Geophysical Research</i> , 1992, 97, 9219-9241.	3.3	297

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73	Petrogenesis of anomalous K-enriched MORB from the Southwest Indian Ridge: 11°53'E to 14°38'E. Contributions To Mineralogy and Petrology, 1992, 110, 253-268.	1.2	71
74	Formation of harzburgite by pervasive melt/rock reaction in the upper mantle. Nature, 1992, 358, 635-641.	13.7	597
75	Melting in the oceanic upper mantle: An ion microprobe study of diopsides in abyssal peridotites. Journal of Geophysical Research, 1990, 95, 2661-2678.	3.3	1,091
76	Petrology and Geochemistry of MORB from 25°E to 46°E along the Southwest Indian Ridge: Evidence for Contrasting Styles of Mantle Enrichment. Journal of Petrology, 1989, 30, 947-986.	1.1	117
77	Cumulate gabbros from the Southwest Indian Ridge, 54°1/2S-7°1/2 E: implications for magmatic processes at a slow spreading ridge. Contributions To Mineralogy and Petrology, 1989, 103, 44-63.	1.2	106
78	The oxidation state of the Earth's sub-oceanic mantle from oxygen thermobarometry of abyssal spinel peridotites. Nature, 1989, 341, 526-527.	13.7	32
79	Abyssal peridotites, very slow spreading ridges and ocean ridge magmatism. Geological Society Special Publication, 1989, 42, 71-105.	0.8	350
80	A mechanism for magmatic accretion under spreading centres. Nature, 1984, 312, 146-148.	13.7	253
81	Chromian spinel as a petrogenetic indicator in abyssal and alpine-type peridotites and spatially associated lavas. Contributions To Mineralogy and Petrology, 1984, 86, 54-76.	1.2	1,727
82	Mineralogic variability of the uppermost mantle along mid-ocean ridges. Earth and Planetary Science Letters, 1984, 69, 88-106.	1.8	424
83	Tectonics of ridge-transform intersections at the Kane fracture zone. Marine Geophysical Researches, 1983, 6, 51-98.	0.5	277
84	Compositional Layering in Alpine Peridotites: Evidence for Pressure Solution Creep in the Mantle. Journal of Geology, 1979, 87, 403-416.	0.7	93
85	A Model for the Development of Thin Overthrust Sheets of Crystalline Rock. Geology, 1974, 2, 35.	2.0	78
86	The Plutonic Foundation of a Slow-Spreading Ridge. Geophysical Monograph Series, 0, , 1-39.	0.1	16