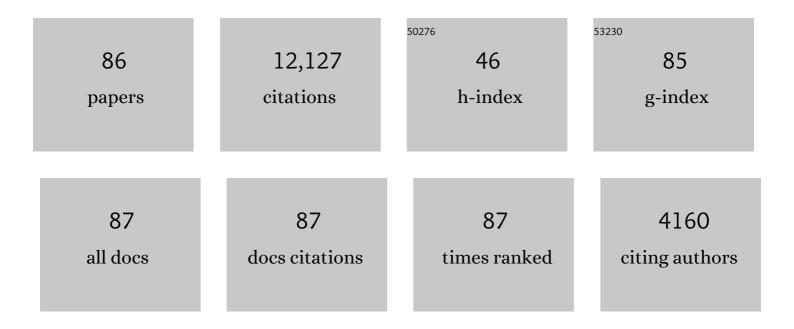
List of Publications by Year in descending order

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HENDY LR DICK

#	Article	IF	CITATIONS
1	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.	3.1	1,727
2	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
3	An ultraslow-spreading class of ocean ridge. Nature, 2003, 426, 405-412.	27.8	852
4	Formation of harzburgite by pervasive melt/rock reaction in the upper mantle. Nature, 1992, 358, 635-641.	27.8	597
5	Coupled major and trace elements as indicators of the extent of melting in mid-ocean-ridge peridotites. Nature, 2001, 410, 677-681.	27.8	528
6	A long in situ section of the lower ocean crust: results of ODP Leg 176 drilling at the Southwest Indian Ridge. Earth and Planetary Science Letters, 2000, 179, 31-51.	4.4	456
7	Mineralogic variability of the uppermost mantle along mid-ocean ridges. Earth and Planetary Science Letters, 1984, 69, 88-106.	4.4	424
8	Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel ridge, Arctic Ocean. Nature, 2003, 423, 956-961.	27.8	366
9	Abyssal peridotites, very slow spreading ridges and ocean ridge magmatism. Geological Society Special Publication, 1989, 42, 71-105.	1.3	350
10	Pervasive magnesium loss by marine weathering of peridotite. Geochimica Et Cosmochimica Acta, 1995, 59, 4219-4235.	3.9	311
11	Open system melting and temporal and spatial variation of peridotite and basalt at the Atlantis II Fracture Zone. Journal of Geophysical Research, 1992, 97, 9219-9241.	3.3	297
12	Tectonics of ridge-transform intersections at the Kane fracture zone. Marine Geophysical Researches, 1983, 6, 51-98.	1.2	277
13	The fingerprint of seawater circulation in a 500-meter section of ocean crust gabbros. Geochimica Et Cosmochimica Acta, 1999, 63, 4059-4080.	3.9	255
14	A mechanism for magmatic accretion under spreading centres. Nature, 1984, 312, 146-148.	27.8	253
15	Plutonic foundation of a slowâ€spreading ridge segment: Oceanic core complex at Kane Megamullion, 23°30′N, 45°20′W. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	207
16	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. Nature, 2003, 421, 252-256.	27.8	206
17	Pervasive melt percolation reactions in ultra-depleted refractory harzburgites at the Mid-Atlantic Ridge, 15° 20′N: ODP Hole 1274A. Contributions To Mineralogy and Petrology, 2007, 153, 303-319.	3.1	201
18	Mineralogy of the mid-ocean-ridge basalt source from neodymium isotopic composition of abyssal peridotites. Nature, 2002, 418, 68-72.	27.8	186

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19	Focused melt flow and localized deformation in the upper mantle: Juxtaposition of replacive dunite and ductile shear zones in the Josephine peridotite, SW Oregon. Journal of Geophysical Research, 1995, 100, 423-438.	3.3	185
20	Melt–rock reaction in the lower oceanic crust and its implications for the genesis of mid-ocean ridge basalt. Earth and Planetary Science Letters, 2008, 271, 311-325.	4.4	160
21	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). Geochimica Et Cosmochimica Acta, 2001, 65, 3267-3287.	3.9	159
22	Evidence from gravity anomalies for interactions of the Marion and Bouvet hotspots with the Southwest Indian Ridge: effects of transform offsets. Earth and Planetary Science Letters, 2001, 187, 283-300.	4.4	135
23	Thin crust as evidence for depleted mantle supporting the Marion Rise. Nature, 2013, 494, 195-200.	27.8	135
24	Mantle Melting, Melt Transport, and Delivery Beneath a Slow-Spreading Ridge: The Paleo-MAR from 23Â15'N to 23Â45'N. Journal of Petrology, 2010, 51, 425-467.	2.8	133
25	Formation of the lower ocean crust and the crystallization of gabbroic cumulates at a very slowly spreading ridge. Journal of Volcanology and Geothermal Research, 2001, 110, 191-233.	2.1	131
26	Petrology and Geochemistry of MORB from 25ÂE to 46ÂE along the Southwest Indian Ridge: Evidence for Contrasting Styles of Mantle Enrichment. Journal of Petrology, 1989, 30, 947-986.	2.8	117
27	MORB generation beneath the ultraslow spreading Southwest Indian Ridge (9–25°E): Major element chemistry and the importance of process versus source. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	113
28	An assessment of upper mantle heterogeneity based on abyssal peridotite isotopic compositions. Journal of Geophysical Research, 2009, 114, .	3.3	113
29	Discovery of ancient and active hydrothermal systems along the ultra-slow spreading Southwest Indian Ridge 10°-16°E. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-14.	2.5	110
30	Nd and Sr isotope evidence linking mid-ocean-ridge basalts and abyssal peridotites. Nature, 1994, 371, 57-60.	27.8	109
31	Cumulate gabbros from the Southwest Indian Ridge, 54ïį½S-7ïį½ 16? E: implications for magmatic processes at a slow spreading ridge. Contributions To Mineralogy and Petrology, 1989, 103, 44-63.	3.1	106
32	Compositional Layering in Alpine Peridotites: Evidence for Pressure Solution Creep in the Mantle. Journal of Geology, 1979, 87, 403-416.	1.4	93
33	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	93
34	Abyssal peridotite osmium isotopic compositions from cr-spinel. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-24.	2.5	92
35	Dating the Growth of Oceanic Crust at a Slow-Spreading Ridge. Science, 2005, 310, 654-657.	12.6	90
36	A Model for the Development of Thin Overthrust Sheets of Crystalline Rock. Geology, 1974, 2, 35.	4.4	78

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37	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.	3.1	71
38	Pyroxenites from the Southwest Indian Ridge, 9-16ÂE: Cumulates from Incremental Melt Fractions Produced at the Top of a Cold Melting Regime. Journal of Petrology, 2007, 48, 647-660.	2.8	68
39	Mechanism for generating the anomalous uplift of oceanic core complexes: Atlantis Bank, southwest Indian Ridge. Geology, 2003, 31, 1105.	4.4	61
40	Melt-Rock Reaction in the Mantle: Mantle Troctolites from the Parece Vela Ancient Back-Arc Spreading Center. Journal of Petrology, 2013, 54, 861-885.	2.8	60
41	Recycling and metabolic flexibility dictate life in the lower oceanic crust. Nature, 2020, 579, 250-255.	27.8	59
42	Mylonitic deformation at the Kane oceanic core complex: Implications for the rheological behavior of oceanic detachment faults. Geochemistry, Geophysics, Geosystems, 2013, 14, 3085-3108.	2.5	56
43	Dynamic Accretion Beneath a Slowâ€5preading Ridge Segment: IODP Hole 1473A and the Atlantis Bank Oceanic Core Complex. Journal of Geophysical Research: Solid Earth, 2019, 124, 12631-12659.	3.4	53
44	The Atlantis Bank Gabbro Massif, Southwest Indian Ridge. Progress in Earth and Planetary Science, 2019, 6, .	3.0	50
45	lsotope and trace element insights into heterogeneity of subridge mantle. Geochemistry, Geophysics, Geosystems, 2014, 15, 2438-2453.	2.5	49
46	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. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	47
47	Magnesium isotopic composition of the oceanic mantle and oceanic Mg cycling. Geochimica Et Cosmochimica Acta, 2017, 206, 151-165.	3.9	47
48	Paired melt lenses at the East Pacific Rise and the pattern of melt flow through the gabbroic layer at a fast-spreading ridge. Lithos, 2009, 112, 73-86.	1.4	46
49	Evolution of the Southwest Indian Ridge from 55°45′E to 62°E: Changes in plate-boundary geometry since 26 Ma. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	44
50	Tracking flux melting and melt percolation in supra-subduction peridotites (Josephine ophiolite, USA). Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	42
51	Petrology of local concentration of chromian spinel in dunite from the slow-spreading Southwest Indian Ridge. European Journal of Mineralogy, 2007, 19, 871-882.	1.3	39
52	Occurrence of Felsic Rocks in Oceanic Gabbros from IODP Hole U1473A: Implications for Evolved Melt Migration in the Lower Oceanic Crust. Minerals (Basel, Switzerland), 2018, 8, 583.	2.0	39
53	Recycled arc mantle recovered from the Mid-Atlantic Ridge. Nature Communications, 2020, 11, 3887.	12.8	34
54	The oxidation state of the Earth's sub-oceanic mantle from oxygen thermobarometry of abyssal spinel peridotites. Nature, 1989, 341, 526-527.	27.8	32

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55	Development and evolution of detachment faulting along 50 km of the Midâ€Atlantic Ridge near 16.5°N. Geochemistry, Geophysics, Geosystems, 2014, 15, 4692-4711.	2.5	32
56	Archean cratonic mantle recycled at a mid-ocean ridge. Science Advances, 2022, 8, .	10.3	30
57	Nonvolcanic tectonic islands in ancient and modern oceans. Geochemistry, Geophysics, Geosystems, 2013, 14, 4698-4717.	2.5	28
58	Ocean rises are products of variable mantle composition, temperature and focused melting. Nature Geoscience, 2015, 8, 68-74.	12.9	28
59	An Early Cretaceous subduction-modified mantle underneath the ultraslow spreading Gakkel Ridge, Arctic Ocean. Science Advances, 2020, 6, .	10.3	27
60	Melt extraction and mantle source at a Southwest Indian Ridge Dragon Bone amagmatic segment on the Marion Rise. Lithos, 2016, 246-247, 48-60.	1.4	24
61	Plate-driven micro-hotspots and the evolution of the Dragon Flag melting anomaly, Southwest Indian Ridge. Earth and Planetary Science Letters, 2020, 531, 116002.	4.4	23
62	New insights on the origin of troctolites from the breakaway area of the Godzilla Megamullion (Parece Vela backâ€arc basin): The role of meltâ€mantle interaction on the composition of the lower crust. Island Arc, 2016, 25, 220-234.	1.1	22
63	Sulfide enrichment at an oceanic crust-mantle transition zone: Kane Megamullion (23°N, MAR). Geochimica Et Cosmochimica Acta, 2018, 230, 155-189.	3.9	20
64	Noble gas signatures of abyssal gabbros and peridotites at an Indian Ocean core complex. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	19
65	Magmatic srilankite (Ti2ZrO6) in gabbroic vein cutting oceanic peridotites: An unusual product of peridotite-melt interactions beneath slow-spreading ridges. American Mineralogist, 2004, 89, 759-766.	1.9	19
66	Emplacement and Highâ€Temperature Evolution of Gabbros of the 16.5°N Oceanic Core Complexes (Midâ€Atlantic Ridge): Insights Into the Compositional Variability of the Lower Oceanic Crust. Geochemistry, Geophysics, Geosystems, 2019, 20, 46-66.	2.5	19
67	Evidence for Multi-stage Melt Transport in the Lower Ocean Crust: the Atlantis Bank Gabbroic Massif (IODP Hole U1473A, SW Indian Ridge). Journal of Petrology, 2021, 61, .	2.8	19
68	MORB Melt Transport through Atlantis Bank Oceanic Batholith (SW Indian Ridge). Journal of Petrology, 2021, 62, .	2.8	18
69	The Plutonic Foundation of a Slow-Spreading Ridge. Geophysical Monograph Series, 0, , 1-39.	0.1	16
70	Podiform chromitite formation in a low-Cr/high-Al system: An example from the Southwest Indian Ridge (SWIR). Mineralogy and Petrology, 2014, 108, 533-549.	1.1	16
71	Tectonic Controls on Block Rotation and Sheeted Sill Emplacement in the Xigaze Ophiolite (Tibet): The Construction Mode of Slow‧preading and Ultraslow‧preading Oceanic Crusts. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009297.	2.5	15
72	The Xigaze ophiolite: fossil ultraslow-spreading ocean lithosphere in the Tibetan Plateau. Journal of the Geological Society, 2021, 178, .	2.1	15

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#	Article	IF	CITATIONS
73	The earliest mantle fabrics formed during subduction zone infancy. Earth and Planetary Science Letters, 2013, 377-378, 106-113.	4.4	13
74	Mantle rock exposures at oceanic core complexes along mid-ocean ridges. Geologos, 2015, 21, 207-231.	0.6	13
75	Thin crust and exposed mantle control sulfide differentiation in slow-spreading ridge magmas. Geology, 2017, 45, 935-938.	4.4	13
76	Cemented mounds and hydrothermal sediments on the detachment surface at Kane Megamullion: A new manifestation of hydrothermal venting. Geochemistry, Geophysics, Geosystems, 2013, 14, 3352-3378.	2.5	11
77	Competing effects of spreading rate, crystal fractionation and source variability on Fe isotope systematics in mid-ocean ridge lavas. Scientific Reports, 2021, 11, 4123.	3.3	11
78	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. International Geology Review, 2013, 55, 115-130.	2.1	7
79	Trace Element and Isotopic Evidence for Recycled Lithosphere from Basalts from 48 to 53°E, Southwest Indian Ridge. Journal of Petrology, 2021, 61, .	2.8	7
80	Highâ€Temperature Strain Localization and the Nucleation of Oceanic Core Complexes (16.5°N,) Tj ETQq0 0 0	rgBT_/Ovei 3.4	logk 10 Tf 50
81	Sulfide enrichment along igneous layer boundaries in the lower oceanic crust: IODP Hole U1473A, Atlantis Bank, Southwest Indian Ridge. Geochimica Et Cosmochimica Acta, 2022, 320, 179-206.	3.9	6

82	Heterogeneity in texture and crystal fabric of intensely hydrated ultramylonitic peridotites along a transform fault, Southwest Indian Ridge. Tectonophysics, 2022, 823, 229206.	2.2	5
83	Magmatism and "Crust-mantle Boundary―on the Ultra-slow Spreading Ridge as Observed in Atlantis Bank, Southwest Indian Ridge. Journal of Geography (Chigaku Zasshi), 2003, 112, 705-719.	0.3	4
84	Silicaâ€Rich Vein Formation in an Evolving Stress Field, Atlantis Bank Oceanic Core Complex. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008795.	2.5	4
85	Enormous Lithium Isotopic Variations of Abyssal Peridotites Reveal Fast Cooling and Melt/Fluidâ€Rock Interactions. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020393.	3.4	3
86	Dick receives 2011 Harry H. Hess Medal: Response. Eos, 2012, 93, 23-23.	0.1	0