Bramley J Murton

List of Publications by Year
in descending order

115 papers	4,766 citations	87723 38 h-index	106150 65 g-index
125 all docs	125 docs citations	125 times ranked	4190 citing authors

#	Article	IF	Citations
1	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. Marine Geology, 2014, 352, 451-468.	0.9	669
2	Life cycle of oceanic core complexes. Earth and Planetary Science Letters, 2009, 287, 333-344.	1.8	244
3	Mantle components in Iceland and adjacent ridges investigated using double-spike Pb isotope ratios. Geochimica Et Cosmochimica Acta, 2004, 68, 361-386.	1.6	178
4	Hydrothermal vent fields and chemosynthetic biota on the world's deepest seafloor spreading centre. Nature Communications, 2012, 3, 620.	5.8	162
5	Geochemistry of Lau Basin volcanic rocks: influence of ridge segmentation and arc proximity. Geological Society Special Publication, 1994, 81, 53-75.	0.8	119
6	Role of ridge jumps and ridge propagation in the tectonic evolution of the Lau back-arc basin, southwest Pacific. Geology, 1990, 18, 470.	2.0	115
7	En echelon axial volcanic ridges at the Reykjanes Ridge: a life cycle of volcanism and tectonics. Earth and Planetary Science Letters, 1993, 117, 73-87.	1.8	113
8	High production and fluxes of H2 and CH4 and evidence of abiotic hydrocarbon synthesis by serpentinization in ultramafic-hosted hydrothermal systems on the Mid-Atlantic Ridge. Geophysical Monograph Series, 2010, , 265-296.	0.1	98
9	A continuous 55-million-year record of transient mantle plume activity beneath Iceland. Nature Geoscience, 2014, 7, 914-919.	5.4	90
10	Geodiversity of hydrothermal processes along the Mid-Atlantic Ridge and ultramafic-hosted mineralization: A new type of oceanic Cu-Zn-Co-Au volcanogenic massive sulfide deposit. Geophysical Monograph Series, 2010, , 321-367.	0.1	89
11	Controls on magmatic degassing along the Reykjanes Ridge with implications for the helium paradox. Earth and Planetary Science Letters, 2000, 183, 43-50.	1.8	84
12	Plume-Ridge Interaction: a Geochemical Perspective from the Reykjanes Ridge. Journal of Petrology, 2002, 43, 1987-2012.	1.1	84
13	Serpentinization and associated hydrogen and methane fluxes at slow spreading ridges. Geophysical Monograph Series, 2010, , 241-264.	0.1	83
14	Fe-XANES analyses of Reykjanes Ridge basalts: Implications for oceanic crust's role in the solid Earth oxygen cycle. Earth and Planetary Science Letters, 2015, 427, 272-285.	1.8	75
15	Low Î´18O in the Icelandic mantle and its origins: Evidence from Reykjanes Ridge and Icelandic lavas. Geochimica Et Cosmochimica Acta, 2006, 70, 993-1019.	1.6	73
16	Hydrothermal activity on the southern Mid-Atlantic Ridge: Tectonically- and volcanically-controlled venting at 4â€"5Â°S. Earth and Planetary Science Letters, 2008, 273, 332-344.	1.8	72
17	Direct evidence for the distribution and occurrence of hydrothermal activity between 27Â°Nâ€"30Â°N on the Mid-Atlantic Ridge. Earth and Planetary Science Letters, 1994, 125, 119-128.	1.8	71
18	Segmentation, volcanism and deformation of oblique spreading centres: A quantitative study of the Reykjanes Ridge. Tectonophysics, 1993, 222, 237-257.	0.9	69

#	Article	IF	Citations
19	Deep-Ocean Mineral Deposits: Metal Resources and Windows into Earth Processes. Elements, 2018, 14, 301-306.	0.5	68
20	Crustal Processes: Major Controls on Reykjanes Peninsula Lava Chemistry, SW Iceland. Journal of Petrology, 1998, 39, 819-839.	1.1	64
21	Structure and development of an axial volcanic ridge: Mid-Atlantic Ridge, 45Â°N. Earth and Planetary Science Letters, 2010, 299, 228-241.	1.8	64
22	Helium isotope variations between RÃ©union Island and the Central Indian Ridge (17Â°â€"21Â°S): New evidence for ridgeâ€"hot spot interaction. Journal of Geophysical Research, 2011, 116, .	3.3	60
23	Measurement and modelling of deep sea sediment plumes and implications for deep sea mining. Scientific Reports, 2020, 10, 5075.	1.6	58
24	Spatial and interannual variation in the faunal distribution at Broken Spur vent field (29Â°N,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T	0.7	56
25	Geological fate of seafloor massive sulphides at the TAG hydrothermal field (Mid-Atlantic Ridge). Ore Geology Reviews, 2019, 107, 903-925.	1.1	56
26	238Uâ€"230Th constraints on mantle upwelling and plumeâ€"ridge interaction along the Reykjanes Ridge. Earth and Planetary Science Letters, 2001, 187, 259-272.	1.8	53
27	Numerical modelling of mud volcanoes and their flows using constraints from the Gulf of Cadiz. Marine Geology, 2003, 195, 223-236.	0.9	52
28	Hydrothermal activity at the Arctic mid-ocean ridges. Geophysical Monograph Series, 2010, , 67-89.	0.1	52
29	Anomalous oceanic lithosphere formed in a leaky transform fault: evidence from the Western Limassol Forest Complex, Cyprus. Journal of the Geological Society, 1986, 143, 845-854.	0.9	51
30	The ultraslow spreading Southwest Indian Ridge. Geophysical Monograph Series, 2010, , 153-173.	0.1	48
31	Glacioisostacy controls chemical and isotopic characteristics of tholeiites from the Reykjanes Peninsula, SW Iceland. Earth and Planetary Science Letters, 1998, 164, 1-5.	1.8	47
32	The magnetic signature of hydrothermal systems in slow spreading environments. Geophysical Monograph Series, 2010, , 43-66.	0.1	47
33	Eruptive hummocks: Building blocks of the upper ocean crust. Geology, 2012, 40, 91-94.	2.0	47
34	Heterogeneity in southern Central Indian Ridge MORB: Implications for ridge-hot spot interaction. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	1.0	46
35	Talc-dominated seafloor deposits reveal a new class of hydrothermal system. Nature Communications, 2015, 6, 10150.	5.8	44
36	Geology, sulfide geochemistry and supercritical venting at the <scp>B</scp>eebe <scp>H</scp>ydrothermal <scp>V</scp>ent <scp>F</scp>ield, <scp>C</scp>ayman <scp>T</scp>rough. Geochemistry, Geophysics, Geosystems, 2015, 16, 2661-2678.	1.0	43

#	Article	IF	Citations
37	Integrated Geochemical and Morphological Data Provide Insights into the Genesis of Ferromanganese Nodules. Minerals (Basel, Switzerland), 2018, 8, 488.	0.8	43
38	Characterization and Mapping of a Deep-Sea Sponge Ground on the Tropic Seamount (Northeast) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2019, 6, .	1.2	43
39	Tectonic controls on boninite genesis. Geological Society Special Publication, 1989, 42, 347-377.	0.8	41
40	Bathymetry of the Reykjanes Ridge. Marine Geophysical Researches, 1997, 19, 55-64.	0.5	36
41	Sources and fluxes of hydrothermal heat, chemicals and biology within a segment of the Mid-Atlantic Ridge. Earth and Planetary Science Letters, 1999, 171, 301-317.	1.8	36
42	Detection of an unusually large hydrothermal event plume above the slow-spreading Carlsberg Ridge: NW Indian Ocean. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	36
43	Marine Mineral Exploration With Controlled Source Electromagnetics at the TAG Hydrothermal Field, 26Â°N Midâ€Atlantic Ridge. Geophysical Research Letters, 2019, 46, 5808-5816.	1.5	34
44	Moytirra: Discovery of the first known deepâ€sea hydrothermal vent field on the slowâ€spreading Midâ€Atlantic Ridge north of the Azores. Geochemistry, Geophysics, Geosystems, 2013, 14, 4170-4184.	1.0	32
45	Western Limassol Forest complex, Cyprus: Part of an Upper Cretaceous leaky transform fault. Geology, 1986, 14, 255.	2.0	31
46	Multisensor, deep-towed instrument explores the ocean floor. Eos, 1992, 73, 225-225.	0.1	31
47	Extensional faulting and segmentation of the Mid-Atlantic Ridge north of the Kane Fracture Zone (24ï¿½) Tj ETQq1 1 0.784314 rgBT	0.5	31
48	Variations in Melt Productivity and Melting Conditions along SWIR (70Â°Eâ€“49Â°E): Evidence from Olivine-hosted and Plagioclase-hosted Melt Inclusions. Journal of Petrology, 2007, 48, 1471-1494.	1.1	31
49	A joint geochemicalâ€“geophysical record of time-dependent mantle convection south of Iceland. Earth and Planetary Science Letters, 2014, 386, 86-97.	1.8	31
50	Title is missing!. Marine Geophysical Researches, 2000, 21, 87-119.	0.5	30
51	Improving confidence in ferromanganese crust age models: A composite geochemical approach. Chemical Geology, 2019, 513, 108-119.	1.4	30
52	Detachment fault control on hydrothermal circulation systems: Interpreting the subsurface beneath the TAG hydrothermal field using the isotopic and geological evolution of oceanic core complexes in the Atlantic. Geophysical Monograph Series, 2010, , 207-239.	0.1	29
53	On the sense of slip of the Southern Troodos transform fault zone, Cyprus. Geology, 1995, 23, 257.	2.0	27
54	Assessment of the Mineral Resource Potential of Atlantic Ferromanganese Crusts Based on Their Growth History, Microstructure, and Texture. Minerals (Basel, Switzerland), 2018, 8, 327.	0.8	27

#	Article	IF	Citations
55	Microbial Diversity of Deep-Sea Ferromanganese Crust Field in the Rio Grande Rise, Southwestern Atlantic Ocean. Microbial Ecology, 2021, 82, 344-355.	1.4	27
56	Mineralogy and sulphur isotope geochemistry of the Broken Spur sulphides, 29Â°N, Mid-Atlantic Ridge. Geological Society Special Publication, 1995, 87, 175-189.	0.8	26
57	Carlsberg Ridge and Mid-Atlantic Ridge: Comparison of slow spreading centre analogues. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 121, 71-84.	0.6	26
58	Marine dipoleâ€"dipole controlled source electromagnetic and coincident-loop transient electromagnetic experiments to detect seafloor massive sulphides: effects of three-dimensional bathymetry. Geophysical Journal International, 2018, 215, 2156-2171.	1.0	26
59	Chemical transects across intra-oceanic arcs: implications for the tectonic setting of ophiolites. Geological Society Special Publication, 1992, 60, 117-132.	0.8	24
60	Structure and tectonic evolution of the Southern Troodos Transform Fault Zone, Cyprus. Geological Society Special Publication, 1993, 76, 141-176.	0.8	24
61	Geological setting and ecology of the Broken Spur hydrothermal vent field: 29Â°10â€²N on the Mid-Atlantic Ridge. Geological Society Special Publication, 1995, 87, 33-41.	0.8	24
62	Modern Seafloor Hydrothermal Systems: New Perspectives on Ancient Ore-Forming Processes. Elements, 2018, 14, 307-312.	0.5	24
63	Interaction between accretionary thrust faulting and slope sedimentation at the frontal Makran accretionary prism and its implications for hydrocarbon fluid seepage. Journal of Geophysical Research, 2010, 115, .	3.3	22
64	Architecture of <scp>N</scp>orth <scp>A</scp>tlantic contourite drifts modified by transient circulation of the <scp>I</scp>celandic mantle plume. Geochemistry, Geophysics, Geosystems, 2015, 16, 3414-3435.	1.0	22
65	Underwater Hyperspectral Imaging Using a Stationary Platform in the Trans-Atlantic Geotraverse Hydrothermal Field. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2947-2962.	2.7	22
66	Late Cretaceous and Cenozoic paleoceanography from north-east Atlantic ferromanganese crust microstratigraphy. Marine Geology, 2020, 422, 106122.	0.9	22
67	Ocean-Floor Sediments as a Resource of Rare Earth Elements: An Overview of Recently Studied Sites. Minerals (Basel, Switzerland), 2021, 11, 142.	0.8	22
68	Mantle composition controls the development of an Oceanic Core Complex. Geochemistry, Geophysics, Geosystems, 2013, 14, 979-995.	1.0	21
69	Ophiolites and their modern oceanic analogues. Geological Society Special Publication, 1992, 60, 1-2.	0.8	20
70	Petrographic and geochemical variation along the Reykjanes Ridge, 57Â°Nâ€"59Â°N. Journal of the Geological Society, 1995, 152, 1031-1037.	0.9	18
71	Lower bathyal and abyssal distribution of coral in the axial volcanic ridge of the Mid-Atlantic Ridge at 45Â°N. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 62, 32-39.	0.6	18
72	Origin and distribution of components in boninite genesis: significance of the OIB component. Geological Society Special Publication, 1992, 60, 133-154.	0.8	17

#	Article	IF	Citations
73	Deformation and alteration associated with oceanic and continental detachment fault systems: Are they similar?. Geophysical Monograph Series, 2010, , 175-205.	0.1	17
74	Crustal manifestations of a hot transient pulse at 60Â°N beneath the Mid-Atlantic Ridge. Earth and Planetary Science Letters, 2013, 363, 109-120.	1.8	17
75	Multidisciplinary Scientific Cruise to the Rio Grande Rise. Frontiers in Marine Science, 2019, 6, .	1.2	17
76	Research is needed to inform environmental management of hydrothermally inactive and extinct polymetallic sulfide (PMS) deposits. Marine Policy, 2020, 121, 104183.	1.5	17
77	Controls on metal enrichment in ferromanganese crusts: Temporal changes in oceanic metal flux or phosphatisation?. Geochimica Et Cosmochimica Acta, 2021, 308, 60-74.	1.6	16
78	Causes and Consequences of Diachronous Vâ€Shaped Ridges in the North Atlantic Ocean. Journal of Geophysical Research: Solid Earth, 2017, 122, 8675-8708.	1.4	15
79	Chemosynthetic communities and biogeochemical energy pathways along the Mid-Atlantic Ridge: The case of Bathymodiolus azoricus. Geophysical Monograph Series, 2010, , 409-429.	0.1	14
80	Rheology and the Fe3+â€“chlorine reaction in basaltic melts. Chemical Geology, 2014, 366, 24-31.	1.4	14
81	A multi-proxy investigation of mantle oxygen fugacity along the Reykjanes Ridge. Earth and Planetary Science Letters, 2020, 531, 115973.	1.8	13
82	Hydrothermal circulation at slow spreading ridges: Analysis of heat sources and heat transfer processes. Geophysical Monograph Series, 2010, , 11-26.	0.1	11
83	Crustal structure, magma chamber, and faulting beneath the Lucky Strike Hydrothermal Vent Field. Geophysical Monograph Series, 2010, , 113-132.	0.1	11
84	Insights into Extinct Seafloor Massive Sulfide Mounds at the TAG, Mid-Atlantic Ridge. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	11
85	Presence of biogenic magnetite in ferromanganese nodules. Environmental Microbiology Reports, 2020, 12, 288-295.	1.0	11
86	The formation of goldâ€rich seafloor sulfide deposits: Evidence from the <scp>B</scp>eebe hydrothermal vent field, <scp>C</scp>ayman <scp>T</scp>rough. Geochemistry, Geophysics, Geosystems, 2017, 18, 2011-2027.	1.0	10
87	The relationships between volcanism, tectonism, and hydrothermal activity on the Southern Equatorial Mid-Atlantic Ridge. Geophysical Monograph Series, 2010, , 133-152.	0.1	9
88	Volcanicâ€Tectonic Structure of the Mount Dent Oceanic Core Complex in the Ultraslow Midâ€Cayman Spreading Center Determined From Detailed Seafloor Investigation. Geochemistry, Geophysics, Geosystems, 2019, 20, 1298-1318.	1.0	8
89	Bacterioplankton reveal years-long retention of Atlantic deep-ocean water by the Tropic Seamount. Scientific Reports, 2020, 10, 4715.	1.6	8
90	Iron, copper, and zinc isotopic fractionation in seafloor basalts and hydrothermal sulfides. Marine Geology, 2021, 436, 106491.	0.9	8

#	Article	IF	Citations
91	Bathymetric segmentation and faulting on the Mid-Atlantic Ridge, 24Â°00â€²N to 24Â°40â€²N. Geological Society Special Publication, 1996, 118, 49-60.	0.8	7
92	Hydrothermal activity and ridge segmentation on the Mid-Atlantic Ridge: a tale of two hot-spots?. Geological Society Special Publication, 1996, 118, 169-184.	0.8	7
93	A global review of non-living resources on the extended continental shelf. Revista Brasileira De Geofisica, 2000, 18, 281.	0.2	7
94	An integrated kinematic and geochemical model to determine lithospheric extension and mantle temperature from syn-rift volcanic compositions. Earth and Planetary Science Letters, 2009, 278, 26-39.	1.8	6
95	Growth of ferromanganese crusts on bioturbated soft substrate, Tropic Seamount, northeast Atlantic ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 175, 103586.	0.6	6
96	Impact of ferromanganese ore pollution on phytoplankton CO2 fixation in the surface ocean. Marine Pollution Bulletin, 2019, 146, 1002-1006.	2.3	5
97	Development of a Correlated Feâ€Mn Crust Stratigraphy Using Pb and Nd Isotopes and Its Application to Paleoceanographic Reconstruction in the Atlantic. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003928.	1.3	5
98	Selective incorporation of rare earth elements by seaweeds from Cape Mondego, western Portuguese coast. Science of the Total Environment, 2021, 795, 148860.	3.9	5
99	Implications of the Iceland Deep Drilling Project for improving understanding of hydrothermal processes at slow spreading mid-ocean ridges. Geophysical Monograph Series, 2010, , 91-112.	0.1	4
100	Phase equilibria controls on the chemistry of vent fluids from hydrothermal systems on slow spreading ridges: Reactivity of plagioclase and olivine solid solutions and the pH-silica connection. Geophysical Monograph Series, 2010, , 297-320.	0.1	4
101	Seafloor mining: the future or just another pipe dream?. Underwater Technology, 2013, 31, 53-54.	0.3	4
102	Analysis of deep-ocean sediments from the TAG hydrothermal field (MAR, 26Â° N): application of short-wave infrared reflectance (SWIR) spectra for offshore geochemical exploration. Journal of Soils and Sediments, 2020, 20, 3472-3486.	1.5	4
103	Geochemical evidence of Milankovitch cycles in Atlantic Ocean ferromanganese crusts. Earth and Planetary Science Letters, 2021, 553, 116651.	1.8	4
104	Benthic megafauna habitats, community structure and environmental drivers at Rio Grande Rise (SW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	4
105	Oceanographic evidence for a transient geothermal event affecting the Mid-Atlantic Ridge. Geophysical Research Letters, 2000, 27, 1507-1510.	1.5	3
106	Near-seafloor magnetic signatures unveil serpentinization dynamics at ultramafic-hosted hydrothermal sites. Geology, 2018, 46, 1055-1058.	2.0	3
107	Spatial patterns of microbial diversity in Fe-Mn deposits and associated sediments in the Atlantic and Pacific oceans. Science of the Total Environment, 2022, , 155792.	3.9	3
108	Hydrothermal supermounds. Nature, 1992, 358, 629-629.	13.7	1

#	Article	IF	Citations
109	Diversity of hydrothermal systems on slow spreading ocean ridges: Introduction. Geophysical Monograph Series, 2010, , 1-3.	0.1	1
110	Dispersion and Intersection of Hydrothermal Plumes in the Manus Back-Arc Basin, Western Pacific. Geofluids, 2020, 2020, 1-18.	0.3	1
111	Discovery of enigmatic toroidal carbonate concretions on the Rio Grande Rise (Southwestern) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.9	1
112	Formation, remobilisation and alteration processes at inactive hydrothermal vents: insights from elemental analysis of Cu-(Fe-)S sulfides from TAG, Mid-Atlantic Ridge. Mineralium Deposita, 2022, 57, 1431-1448.	1.7	1
113	Editorâ€™s comments on book review by Andrew C. Kerr and the reply to that review by Gillian R. Foulger, Donna M. Jurdy (eds). Marine Geophysical Researches, 2008, 29, 221-221.	0.5	0
114	Hydrothermal vents at 5000m on the Mid-Cayman Rise: Where basement lithology and depth of venting controls sulphide deposit composition. , 2011, , .		0
115	Introducing Geology: A Guide to the World of Rocks. Underwater Technology, 2013, 31, 155-155.	0.3	0