Brian E Tucholke

List of Publications by Year
in descending order

71	4,071	125106 35	134545 62
papers	citations	h-index	g-index

71	71	71	2512
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Longâ€Term Evolution of Nontransform Discontinuities at the Midâ€Atlantic Ridge, 24Â°Nâ€“27Â°30â€²N. Journal of Geophysical Research: Solid Earth, 2019, 124, 10023-10055.	1.4	12
2	Cenozoic North Atlantic deep circulation history recorded in contourite drifts, offshore Newfoundland, Canada. Marine Geology, 2017, 385, 185-203.	0.9	56
3	Benthic storms, nepheloid layers, and linkage with upper ocean dynamics in the western North Atlantic. Marine Geology, 2017, 385, 304-327.	0.9	69
4	Spatial and temporal variations in crustal production at the Midâ€Atlantic Ridge, 25Â°Nâ€“27Â°30â€²N and 0â€“27â€‰Ma. Journal of Geophysical Research: Solid Earth, 2015, 120, 2119-2142.	1.4	19
5	Mylonitic deformation at the Kane oceanic core complex: Implications for the rheological behavior of oceanic detachment faults. Geochemistry, Geophysics, Geosystems, 2013, 14, 3085-3108.	1.0	56
6	The geodynamic province of transitional lithosphere adjacent to magma-poor continental margins. Geological Society Special Publication, 2013, 369, 429-452.	0.8	27
7	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.	1.0	11
8	Problematic plate reconstruction. Nature Geoscience, 2012, 5, 676-677.	5.4	26
9	A new Late Pliocene large provannid gastropod associated with hydrothermal venting at Kane Megamullion, Mid-Atlantic Ridge. Journal of Systematic Palaeontology, 2012, 10, 423-433.	0.6	12
10	The Newfoundlandâ€“Iberia conjugate rifted margins. , 2012, , 342-382.		1
11	Crustal thickness anomalies in the North Atlantic Ocean basin from gravity analysis. Geochemistry, Geophysics, Geosystems, 2011, 12, .	1.0	55
12	Characterization of sills associated with the U reflection on the Newfoundland margin: evidence for widespread early post-rift magmatism on a magma-poor rifted margin. Geophysical Journal International, 2010, , no-no.	1.0	11
13	The structure of oceanic core complexes controlled by the depth distribution of magmaÂemplacement. Nature Geoscience, 2010, 3, 491-495.	5.4	104
14	Heterogeneous seismic velocity structure of the upper lithosphere at Kane oceanic core complex, Midâ€Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	25
15	Plutonic foundation of a slowâ€spreading ridge segment: Oceanic core complex at Kane Megamullion, 23Â°30â€²N, 45Â°20â€²W. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	207
16	Seismic evidence for largeâ€scale compositional heterogeneity of oceanic core complexes. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	79
17	Role of melt supply in oceanic detachment faulting and formation of megamullions. Geology, 2008, 36, 455.	2.0	245
18	Evidence for asymmetric nonvolcanic rifting and slow incipient oceanic accretion from seismic reflection data on the Newfoundland margin. Journal of Geophysical Research, 2006, 111, .	3.3	49

#	Article	IF	Citations
19	Seismic velocity structure of the rifted margin of the eastern Grand Banks of Newfoundland, Canada. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	93
20	Correction to â€œEvidence for asymmetric nonvolcanic rifting and slow incipient oceanic accretion from seismic reflection data on the Newfoundland marginâ€• Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	3
21	A deep seismic investigation of the Flemish Cap margin: implications for the origin of deep reflectivity and evidence for asymmetric break-up between Newfoundland and Iberia. Geophysical Journal International, 2006, 164, 501-515.	1.0	44
22	Crustal structure across the Grand Banks-Newfoundland Basin Continental Margin - I. Results from a seismic refraction profile. Geophysical Journal International, 2006, 167, 127-156.	1.0	95
23	Crustal structure across the Grand Banks-Newfoundland Basin Continental Margin - II. Results from a seismic reflection profile. Geophysical Journal International, 2006, 167, 157-170.	1.0	46
24	Continental breakup and the onset of ultraslow seafloor spreading off Flemish Cap on the Newfoundland rifted margin. Geology, 2004, 32, 93.	2.0	124
25	Regional anomalies of sediment thickness, basement depth and isostatic crustal thickness in the North Atlantic Ocean. Earth and Planetary Science Letters, 2004, 224, 193-211.	1.8	48
26	Crustal Evolution of the Mid-Atlantic Ridge near the Fifteen-Twenty Fracture Zone in the last 5 Ma. Geochemistry, Geophysics, Geosystems, 2003, 4, .	1.0	81
27	Crustal structure of the ocean-continent transition at Flemish Cap: Seismic refraction results. Journal of Geophysical Research, 2003, 108, .	3.3	145
28	The Greater Antilles Outer Ridge: development of a distal sedimentary drift by deposition of fine-grained contourites. Geological Society Memoir, 2002, 22, 39-55.	0.9	6
29	Submersible study of an oceanic megamullion in the central North Atlantic. Journal of Geophysical Research, 2001, 106, 16145-16161.	3.3	73
30	Record of seamount production and off-axis evolution in the western North Atlantic Ocean, 25Â°25â€²-27Â°10â€²N. Journal of Geophysical Research, 2000, 105, 2721-2736.	3.3	12
31	Megamullions and mullion structure defining oceanic metamorphic core complexes on the Mid-Atlantic Ridge. Journal of Geophysical Research, 1998, 103, 9857-9866.	3.3	458
32	Magnetization of 0-29 Ma ocean crust on the Mid-Atlantic Ridge, 25Â°30â€² to 27Â°10â€²N. Journal of Geophysical Research, 1998, 103, 17807-17826.	3.3	45
33	Fast rift propagation at a slow-spreading ridge. Geology, 1997, 25, 639.	2.0	22
34	Long-term denudation of ocean crust in the central North Atlantic Ocean. Geology, 1997, 25, 171.	2.0	35
35	Multiscale spectral analysis of bathymetry on the flank of the Mid-Atlantic Ridge: Modification of the seafloor by mass wasting and sedimentation. Journal of Geophysical Research, 1997, 102, 15447-15462.	3.3	29
36	Segmentation and crustal structure of the western Mid-Atlantic Ridge flank, 25Â°25â€²-27Â°10â€²N and 0-29 m.y.. Journal of Geophysical Research, 1997, 102, 10203-10223.	3.3	122

#	Article	IF	Citations
37	Quantitative analysis of abyssal hills in the Atlantic Ocean: A correlation between inferred crustal thickness and extensional faulting. Journal of Geophysical Research, 1995, 100, 22509-22522.	3.3	42
38	Mesozoic-Cenozoic sedimentation in the Kane Fracture Zone, western North Atlantic, and uplift history of the Bermuda Rise. Bulletin of the Geological Society of America, 1994, 106, 319-337.	1.6	8
39	A geological model for the structure of ridge segments in slow spreading ocean crust. Journal of Geophysical Research, 1994, 99, 11937-11958.	3.3	370
40	Massive submarine rockslide in the rift-valley wall of the Mid-Atlantic Ridge. Geology, 1992, 20, 129.	2.0	36
41	ONR seafloor natural laboratories on slow and fast spreading mid-ocean ridges. Eos, 1991, 72, 268-268.	0.1	8
42	Comment and Reply on "North Atlantic fracture-zone distribution and patterns shown by multibeam sonar". Geology, 1990, 18, 911.	2.0	4
43	Evidence for age and evolution of Corner Seamounts and Great Meteor Seamount Chain from multibeam bathymetry. Journal of Geophysical Research, 1990, 95, 17555-17569.	3.3	36
44	Upper Triassicâ€"Lower Jurassic salt basin southeast of the Grand Banks. Earth and Planetary Science Letters, 1989, 92, 357-370.	1.8	17
45	Crustal Structure and Rift-Drift Evolution of the Newfoundland Basin. , 1989, , .		16
46	Kane Fracture Zone. Marine Geophysical Researches, 1988, 10, 1-39.	0.5	113
47	Analysis of a longitudinal ripple from the Nova Scotian continental rise â€" Comment. Marine Geology, 1986, 72, 371-373.	0.9	5
48	Seismic stratigraphic correlation across the New England Seamounts, western North Atlantic Ocean. Geology, 1986, 14, 346.	2.0	13
49	Oligocene glacioâ€"eustasy and erosion on the margins of the North Atlantic. Geology, 1985, 13, 10.	2.0	63
50	Seafloor zonation in sediment texture on the Nova Scotian lower continental rise. Marine Geology, 1985, 66, 25-41.	0.9	19
51	Abyssal current character determined from sediment bedforms on the Nova Scotian continental rise. Marine Geology, 1985, 66, 43-57.	0.9	41
52	Development of Cenozoic Abyssal Circulation South of the Greenland-Scotland Ridge. , 1983, , 549-589.		93
53	Structure and origin of the J Anomaly Ridge, western North Atlantic Ocean. Journal of Geophysical Research, 1982, 87, 9389-9407.	3.3	92
54	Origin of longitudinal triangular ripples on the Nova Scotian continental rise. Nature, 1982, 296, 735-737.	13.7	24

#	Article	IF	Citations
55	Continental crust beneath the Agulhas Plateau, southwest Indian Ocean. Journal of Geophysical Research, 1981, 86, 3791-3806.	3.3	68
56	Petrography and implications of continental rocks from the Agulhas Plateau, southwest Indian Ocean. Geology, 1981, 9, 463.	2.0	33
57	Acoustic environment of the Hatteras and Nares Abyssal Plains, western North Atlantic Ocean, determined from velocities and physical properties of sediment cores. Journal of the Acoustical Society of America, 1980, 68, 1376-1390.	0.5	36
58	Seismic stratigraphy, lithostratigraphy and paleosedimentation patterns in the North American Basin. Maurice Ewing Series, 1979, , 58-86.	0.1	60
59	Furrows and focussed echoes on the Blake Outer Ridge. Marine Geology, 1979, 31, M13-M20.	0.9	23
60	Comparison of laboratory and in situ compressionalâ€wave velocity measurements on sediment cores from the western North Atlantic. Journal of Geophysical Research, 1979, 84, 687-695.	3.3	13
61	Mesozoic-Cenozoic sedimentary formations of the North American Basin; western North Atlantic. Maurice Ewing Series, 1979, , 1-57.	0.1	67
62	Sediment distribution and Cenozoic sedimentation patterns on the Agulhas Plateau. Bulletin of the Geological Society of America, 1977, 88, 1337.	1.6	37
63	Sedimentation processes and acoustic stratigraphy in the Bellingshausen Basin. Marine Geology, 1977, 25, 209-230.	0.9	26
64	Sediment Distribution and Deposition by the Western Boundary Undercurrent: The Great Antilles Outer Ridge. Journal of Geology, 1975, 83, 177-207.	0.7	31
65	Bathymetry and Sediment Geometry of the Greater Antilles Outer Ridge and Vicinity. Bulletin of the Geological Society of America, 1974, 85, 1789.	1.6	39
66	The western boundary undercurrent as a turbidity maximum over the Puerto Rico Trench. Journal of Geophysical Research, 1974, 79, 4115-4118.	3.3	15
67	Determination of Montmorillonite in Small Samples and Implications for Suspended-matter Studies. Journal of Sedimentary Research, 1974, Vol. 44, .	0.8	3
68	Abyssal circulation over the Greater Antilles Outer Ridge. Deep Sea Research and Oceanographic Abstracts, 1973, 20, 973-995.	0.3	9
69	Late Wisconsin Glaciation of the Southwestern Gulf of Maine: New Evidence from the Marine Environment. Bulletin of the Geological Society of America, 1973, 84, 3279.	1.6	32
70	North Atlantic Ocean basin; Aspects of geologic structure and evolution. , 0, , 53-80.		6
71	Tertiary paleoceanography of the western North Atlantic Ocean. , 0, , 631-650.		28