Deborah K Smith

List of Publications by Year
in descending order

27 papers	1,179 citations	516710 16 h-index	526287 27 g-index
29 all docs	29 docs citations	29 times ranked	945 citing authors

#	Article	IF	Citations
1	Widespread active detachment faulting and core complex formation near 13Â°â€‰N on the Mid-Atlantic Ridge. Nature, 2006, 442, 440-443.	27.8	243
2	Fault rotation and core complex formation: Significant processes in seafloor formation at slowâ€spreading midâ€ocean ridges (Midâ€Atlantic Ridge, 13Â°â€“15Â°N). Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	186
3	Building the crust at the Mid-Atlantic Ridge. Nature, 1993, 365, 707-715.	27.8	135
4	Hundreds of small volcanoes on the median valley floor of the Mid-Atlantic Ridge at 24â€“30Â° N. Nature, 1990, 348, 152-155.	27.8	110
5	Hydroacoustic monitoring of seismicity at the slow-spreading Mid-Atlantic Ridge. Geophysical Research Letters, 2002, 29, 13-1.	4.0	88
6	Tectonic versus magmatic extension in the presence of core complexes at slow-spreading ridges from a visualization of faulted seafloor topography. Geology, 2010, 38, 615-618.	4.4	49
7	The size distribution of Pacific Seamounts. Geophysical Research Letters, 1987, 14, 1119-1122.	4.0	39
8	Hydroacoustic events located at the intersection of the Atlantis (30Â°N) and Kane (23Â°40â€²N) Transform Faults with the Mid-Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	37
9	Development and evolution of detachment faulting along 50 km of the Midâ€Atlantic Ridge near 16.5Â°N. Geochemistry, Geophysics, Geosystems, 2014, 15, 4692-4711.	2.5	32
10	Title is missing!. Marine Geophysical Researches, 1997, 19, 339-362.	1.2	28
11	Evolution of volcanism and faulting in a segment of the Mid-Atlantic Ridge at 25Â°N. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	26
12	Tectonic evolution of 200 km of <scp>M</scp>idâ€<scp>A</scp>tlantic <scp>R</scp>idge over 10 million years: Interplay of volcanism and faulting. Geochemistry, Geophysics, Geosystems, 2015, 16, 2303-2321.	2.5	26
13	Parallel bands of seismicity at the Mid-Atlantic Ridge, 12-14Â°N. Geophysical Research Letters, 2003, 30, .	4.0	23
14	Counter-rotating microplates at the Galapagos triple junction. Nature, 2005, 433, 855-858.	27.8	22
15	Cracking of lithosphere north of the Galapagos triple junction. Geology, 2008, 36, 339.	4.4	22
16	Volcanic morphology of the submarine Puna Ridge, Kilauea Volcano. Geophysical Monograph Series, 2002, , 125-142.	0.1	17
17	Distributed deformation ahead of the Cocos-Nazca Rift at the Galapagos triple junction. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	16
18	Seismicity of the Atlantis Massif detachment fault, 30Â°N at the Midâ€Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	13

#	Article	IF	Citations
19	Petrological systematics of submarine basalt glasses from the Puna Ridge, Hawai'i: Implications for rift zone plumbing and magmatic processes. Geophysical Monograph Series, 2002, , 143-159.	0.1	12
20	Fault scarp identification in side-scan sonar and bathymetry images from the Mid-Atlantic Ridge using wavelet-based digital filters. Marine Geophysical Researches, 1996, 18, 741-755.	1.2	10
21	The recent history of the Galapagos triple junction preserved on the Pacific plate. Earth and Planetary Science Letters, 2013, 371-372, 6-15.	4.4	10
22	Tectonic structure of the <scp>M</scp>idâ€<scp>A</scp>tlantic <scp>R</scp>idge near 16Â°30â€²<scp>N</scp>. Geochemistry, Geophysics, Geosystems, 2016, 17, 3993-4010.	2.5	9
23	Opening of Hess Deep Rift at the Galapagos Triple Junction. Geophysical Research Letters, 2018, 45, 3942-3950.	4.0	7
24	Hydroacoustic Monitoring of Seafloor Spreading and Transform Faulting in the Equatorial Atlantic Ocean. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	6
25	Seafloor topography: A record of a chaotic dynamical system?. Geophysical Research Letters, 1990, 17, 1541-1544.	4.0	5
26	Ocean Drilling: Forty Years of International Collaboration. Eos, 2010, 91, 393-394.	0.1	4
27	The Evolution of Seafloor Spreading Behind the Tip of the Westward Propagating Cocosâ€Nazca Spreading Center. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC008957.	2.5	4