Barbara E John

List of Publications by Year in descending order

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39 papers	2,907 citations	186265 28 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	1881 citing authors

#	Article	IF	Citations
1	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
2	On the occurrence, trace element geochemistry, and crystallization history of zircon from in situ ocean lithosphere. Contributions To Mineralogy and Petrology, 2009, 158, 757-783.	3.1	242
3	Geology of the Atlantis Massif (Mid-Atlantic Ridge, 30Â°â€‰N): Implications for the evolution of an ultramafic oceanic core complex. Marine Geophysical Researches, 2002, 23, 443-469.	1.2	185
4	Strain localization on an oceanic detachment fault system, Atlantis Massif, 30Â°N, Mid-Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	137
5	Emplacement-related deformation of granitoid magmas, southern Adamello Massif, Italy. Bulletin of the Geological Society of America, 1993, 105, 1517-1541.	3.3	125
6	Protracted construction of gabbroic crust at a slow spreading ridge: Constraints from ²⁰⁶Pb/²³⁸U zircon ages from Atlantis Massif and IODP Hole U1309D (30Â°N,) Tj ETQq0 0 0 rgBT /Overlock 1	2.5	125
7	Primitive layered gabbros from fast-spreading lower oceanic crust. Nature, 2014, 505, 204-207.	27.8	125
8	Structural and thermal constraints on the initiation angle of detachment faulting in the southern Basin and Range: The Chemehuevi Mountains case study. Bulletin of the Geological Society of America, 1993, 105, 1091-1108.	3.3	121
9	Uniformly mantle-like Î´18O in zircons from oceanic plagiogranites and gabbros. Contributions To Mineralogy and Petrology, 2011, 161, 13-33.	3.1	116
10	Dating the Growth of Oceanic Crust at a Slow-Spreading Ridge. Science, 2005, 310, 654-657.	12.6	90
11	Determining the cooling history of in situ lower oceanic crustâ€"Atlantis Bank, SW Indian Ridge. Earth and Planetary Science Letters, 2004, 222, 145-160.	4.4	87
12	Geometry and evolution of a mid-crustal extensional fault system: Chemehuevi Mountains, southeastern California. Geological Society Special Publication, 1987, 28, 313-335.	1.3	83
13	Crustal extension along a rooted system of imbricate low-angle faults: Colorado River extensional corridor, California and Arizona. Geological Society Special Publication, 1987, 28, 299-311.	1.3	82
14	Quantifying tectonic exhumation in an extensional orogen with thermochronology: examples from the southern Basin and Range Province. Geological Society Special Publication, 1999, 154, 343-364.	1.3	69
15	Rapid extension recorded by cooling-age patterns and brittle deformation, Naxos, Greece. Journal of Geophysical Research, 1995, 100, 9969-9979.	3.3	66
16	The rate of oceanic detachment faulting at Atlantis Bank, SW Indian Ridge. Earth and Planetary Science Letters, 2008, 273, 105-114.	4.4	62
17	SHRIMP Pb/U zircon ages constrain gabbroic crustal accretion at Atlantis Bank on the ultraslow-spreading Southwest Indian Ridge. Earth and Planetary Science Letters, 2009, 287, 540-550.	4.4	62
18	Mechanism for generating the anomalous uplift of oceanic core complexes: Atlantis Bank, southwest Indian Ridge. Geology, 2003, 31, 1105.	4.4	61

#	Article	IF	Citations
19	Magmatism, serpentinization and life: Insights through drilling the Atlantis Massif (IODP Expedition) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	58
20	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
21	Detached strata in a Tertiary low-angle normal fault terrane, southeastern California: A sedimentary record of unroofing, breaching, and continued slip. Geology, 1988, 16, 645.	4.4	46
22	Syn-emplacement recrystallization and deformation microstructures in the Poe Mountain anorthosite, Wyoming. Contributions To Mineralogy and Petrology, 1996, 122, 431-440.	3.1	44
23	Evolution of the Southwest Indian Ridge from 55Â°45â€²E to 62Â°E: Changes in plate-boundary geometry since 26 Ma. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	44
24	Ultra high-temperature and subsolidus shear zones: examples from the Poe Mountain anorthosite, Wyoming. Journal of Structural Geology, 1998, 20, 945-955.	2.3	40
25	Dissolutionâ€“reprecipitation of igneous zircon in mid-ocean ridge gabbro, Atlantis Bank, Southwest Indian Ridge. Chemical Geology, 2010, 274, 68-81.	3.3	38
26	Strain localization along the Atlantis Bank oceanic detachment fault system, Southwest Indian Ridge. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	37
27	Cooling rates and the depth of detachment faulting at oceanic core complexes: Evidence from zircon Pb/U and (Uâ€Th)/He ages. Geochemistry, Geophysics, Geosystems, 2011, 12, .	2.5	34
28	Footwall rocks to the Midâ€Tertiary Chemehuevi Detachment Fault: A window into the middle crust in the Southern Cordillera. Journal of Geophysical Research, 1990, 95, 463-485.	3.3	30
29	The temporal and spatial distribution of magmatism during lower crustal accretion at an ultraslow-spreading ridge: High-precision Uâ€“Pb zircon dating of ODP Holes 735B and 1105A, Atlantis Bank, Southwest Indian Ridge. Earth and Planetary Science Letters, 2016, 449, 395-406.	4.4	30
30	Cooling history of Atlantis Bank oceanic core complex: Evidence for hydrothermal activity 2.6 Ma off axis. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	24
31	Mechanisms for accommodation of Miocene extension: Low-angle normal faulting, magmatism, and secondary breakaway faulting in the southern Sacramento Mountains, southeastern California. Tectonics, 2000, 19, 566-587.	2.8	22
32	The cooling history and the depth of detachment faulting at the Atlantis Massif oceanic core complex. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	22
33	Deformation and alteration associated with oceanic and continental detachment fault systems: Are they similar?. Geophysical Monograph Series, 2010, , 175-205.	0.1	17
34	Constraints on extension-related plutonism from modeling of the Colorado River gravity high. Bulletin of the Geological Society of America, 1996, 108, 1242.	3.3	12
35	The internal structure of an oceanic core complex: An integrated analysis of oriented borehole imagery from IODP Hole U1309D (Atlantis Massif). Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	12
36	Three-dimensional magnetic stripes require slow cooling in fast-spread lower ocean crust. Nature, 2021, 597, 511-515.	27.8	12

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37	Temporal Changes in Deformation Mode: From Failure to Flow in the Colorado River Extensional Corridor. International Geology Review, 2002, 44, 512-527.	2.1	10
38	Geochemistry of serpentinized and multiphase altered Atlantis Massif peridotites (IODP Expedition) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 594, 120681.	3.3	9
39	Synextensional dike emplacement across the footwall of a continental core complex, Chemehuevi Mountains, southeastern California. , 2017, 13, 1867-1886.		2