

Suzanne M Carbotte

List of Publications by Year in descending order

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58
papers

2,782
citations

147801

31
h-index

175258

52
g-index

59
all docs

59
docs citations

59
times ranked

1560
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal vent distribution along the East Pacific Rise crest (9°09'â€²â€“54â€²N) and its relationship to magmatic and tectonic processes on fast-spreading mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 1991, 104, 513-534.	4.4	374
2	The East Pacific Rise and its flanks 8°18'½ N: History of segmentation, propagation and spreading direction based on SeaMARC II and Sea Beam studies. <i>Marine Geophysical Researches</i> , 1992, 14, 299-344.	1.2	146
3	Comparison of seafloor tectonic fabric at intermediate, fast, and super fast spreading ridges: Influence of spreading rate, plate motions, and ridge segmentation on fault patterns. <i>Journal of Geophysical Research</i> , 1994, 99, 13609-13631.	3.3	146
4	Rift topography linked to magmatism at the intermediate spreading Juan de Fuca Ridge. <i>Geology</i> , 2006, 34, 209.	4.4	108
5	Fine-scale segmentation of the crustal magma reservoir beneath the East Pacific Rise. <i>Nature Geoscience</i> , 2013, 6, 866-870.	12.9	99
6	Frozen magma lenses below the oceanic crust. <i>Nature</i> , 2005, 436, 1149-1152.	27.8	92
7	Seismic reflection images of a near-axis melt sill within the lower crust at the Juan de Fuca ridge. <i>Nature</i> , 2009, 460, 89-93.	27.8	82
8	Contribution of volcanism and tectonism to axial and flank morphology of the southern East Pacific Rise, 17°10'â€²-17°40'â€²S, from a study of layer 2A geometry. <i>Journal of Geophysical Research</i> , 1997, 102, 10165-10184.	3.3	81
9	A multi-sill magma plumbing system beneath the axis of the East Pacific Rise. <i>Nature Geoscience</i> , 2014, 7, 825-829.	12.9	76
10	Seismic reflection imaging of the Juan de Fuca plate from ridge to trench: New constraints on the distribution of faulting and evolution of the crust prior to subduction. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1849-1872.	3.4	72
11	Upper crustal structure and axial topography at intermediate spreading ridges: Seismic constraints from the southern Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	70
12	Influence of magma supply and spreading rate on crustal magma bodies and emplacement of the extrusive layer: Insights from the East Pacific Rise at lat 16°N. <i>Geology</i> , 1998, 26, 455.	4.4	66
13	Endeavour Segment of the Juan de Fuca Ridge: One of the Most Remarkable Places on Earth. <i>Oceanography</i> , 2012, 25, 44-61.	1.0	65
14	Seismic evidence for variations in axial magma chamber properties along the southern Juan de Fuca Ridge. <i>Earth and Planetary Science Letters</i> , 2006, 246, 353-366.	4.4	63
15	Causes of variation in fault-facing direction on the ocean floor. <i>Geology</i> , 1990, 18, 749.	4.4	62
16	Links between sediment consolidation and Cascadia megathrust slip behaviour. <i>Nature Geoscience</i> , 2017, 10, 954-959.	12.9	60
17	Variable crustal structure along the Juan de Fuca Ridge: Influence of onâ€axis hot spots and absolute plate motions. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	59
18	Faulting and hydration of the Juan de Fuca plate system. <i>Earth and Planetary Science Letters</i> , 2009, 284, 94-102.	4.4	59

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19	Faulting patterns near 19°30' on the East Pacific Rise: Fault formation and growth at a superfast spreading center. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	55
20	Evaluation of morphological indicators of magma supply and segmentation from a seismic reflection study of the East Pacific Rise 15°30'–17°N. <i>Journal of Geophysical Research</i> , 2000, 105, 2737-2759.	3.3	53
21	Upper crustal evolution across the Juan de Fuca ridge flanks. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	53
22	Variable morphologic expression of volcanic, tectonic, and hydrothermal processes at six hydrothermal vent fields in the Lau back-arc basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	52
23	Controls on extrusion at mid-ocean ridges. <i>Geology</i> , 1997, 25, 935.	4.4	51
24	Tectonic and magmatic segmentation of the Global Ocean Ridge System: a synthesis of observations. <i>Geological Society Special Publication</i> , 2016, 420, 249-295.	1.3	51
25	The influence of ridge migration on the magmatic segmentation of mid-ocean ridges. <i>Nature</i> , 2004, 429, 743-746.	27.8	47
26	Process-related classification of acoustic data from the Hudson River Estuary. <i>Marine Geology</i> , 2004, 209, 131-145.	2.1	47
27	The axial topographic high at intermediate and fast spreading ridges. <i>Earth and Planetary Science Letters</i> , 1994, 128, 85-97.	4.4	46
28	Crustal thickness and Moho character of the fast-spreading East Pacific Rise from 9°42'N to 9°57'N from post-stack migrated MCS data. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 634-657.	2.5	46
29	Architecture of on- and off-axis magma bodies at EPR 9°37'–40°N and implications for oceanic crustal accretion. <i>Earth and Planetary Science Letters</i> , 2014, 390, 31-44.	4.4	44
30	Variations in upper crustal structure due to variable mantle temperature along the Southeast Indian Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	36
31	Evolution of seismic layer 2B across the Juan de Fuca Ridge from hydrophone streamer 2D traveltime tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	32
32	Variations in axial magma lens properties along the East Pacific Rise (9°30'N–10°00'N) from swath 3D seismic imaging and 1D waveform inversion. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2721-2744.	3.4	31
33	Stacked sills forming a deep melt-mush feeder conduit beneath Axial Seamount. <i>Geology</i> , 2020, 48, 693-697.	4.4	31
34	Magmatic subsidence of the East Pacific Rise (EPR) at 18°14'S revealed through fault restoration of ridge crest bathymetry. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	29
35	Recent Seismic Studies at the East Pacific Rise 8°20'–10°10'N and Endeavour Segment: Insights into Mid-Ocean Ridge Hydrothermal and Magmatic Processes. <i>Oceanography</i> , 2012, 25, 100-112.	1.0	28
36	Centered and staggered Fourier derivatives and Hilbert transforms. <i>Geophysics</i> , 2002, 67, 1558-1563.	2.6	25

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37	Crustal Magmatic System Beneath the East Pacific Rise (8°20' to 10°10'N): Implications for Tectonomagmatic Segmentation and Crustal Melt Transport at Fast-Spreading Ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4584-4611.	2.5	25
38	Using geophysical information to define benthic habitats in a large river. <i>Freshwater Biology</i> , 2006, 51, 25-38.	2.4	24
39	Environmental change and oyster colonization within the Hudson River estuary linked to Holocene climate. <i>Geo-Marine Letters</i> , 2004, 24, 212-224.	1.1	23
40	Do sea level variations influence mid-ocean ridge magma supply? A test using crustal thickness and bathymetry data from the East Pacific Rise. <i>Earth and Planetary Science Letters</i> , 2020, 535, 116121.	4.4	21
41	Gravity and seismic study of crustal structure along the Juan de Fuca Ridge axis and across pseudofaults on the ridge flanks. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	20
42	Along-Trench Structural Variations of the Subducting Juan de Fuca Plate From Multichannel Seismic Reflection Imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3122-3146.	3.4	19
43	Stacked Magma Lenses Beneath Mid-Ocean Ridges: Insights From New Seismic Observations and Synthesis With Prior Geophysical and Geologic Findings. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021434.	3.4	19
44	Distribution of melt along the East Pacific Rise from 9°30' to 10°N from an amplitude variation with angle of incidence (AVA) technique. <i>Geophysical Journal International</i> , 2015, 203, 1-21.	2.4	15
45	Spatial variations in a condensed interval between estuarine and open-marine settings: Holocene Hudson River estuary and adjacent continental shelf. <i>Geology</i> , 2004, 32, 169.	4.4	14
46	Estuarine processes and their stratigraphic record: paleosalinity and sedimentation changes in the Hudson Estuary (North America). <i>Marine Geology</i> , 2004, 209, 113-129.	2.1	13
47	Constraints on melt content of off-axis magma lenses at the East Pacific Rise from analysis of 3-D seismic amplitude variation with angle of incidence. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4123-4142.	3.4	9
48	A 65 k.y. time series from sediment-hosted glasses reveals rapid transitions in ocean ridge magmas. <i>Geology</i> , 2017, 45, 491-494.	4.4	9
49	V_p/V_s Ratio of Incoming Sediments Off Cascadia Subduction Zone From Analysis of Controlled-Source Multicomponent OBS Records. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019239.	3.4	9
50	Rescue of long-tail data from the ocean bottom to the Moon: IEDA Data Rescue Mini-Awards. <i>GeoResJ</i> , 2015, 6, 108-114.	1.4	6
51	Upper crustal seismic structure along the Southeast Indian Ridge: Evolution from 0 to 550 ka and variation with axial morphology. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	5
52	Constraints on the mantle temperature gradient along the Southeast Indian Ridge from crustal structure and isostasy: implications for the transition from an axial high to an axial valley. <i>Geophysical Journal International</i> , 2009, 179, 144-153.	2.4	4
53	Recent Advances in Multichannel Seismic Imaging for Academic Research in Deep Oceanic Environments. <i>Oceanography</i> , 2012, 25, 113-115.	1.0	3
54	WORKSHOP REPORT Building a Global Data Network for Studies of Earth Processes at the World's Plate Boundaries. <i>Oceanography</i> , 2007, 20, 124-125.	1.0	3

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55	Fresnel zone: A pitfall in seismic imaging of mid-ocean ridge magma lenses. Geophysical Research Letters, 1999, 26, 3021-3024.	4.0	2
56	Sound source localization technique using a seismic streamer and its extension for whale localization during seismic surveys. Journal of the Acoustical Society of America, 2015, 138, 3951-3963.	1.1	2
57	Tectonics: Seismic Structure at Mid-Ocean Ridges. , 2019, , 455-471.		0
58	Detection of magma beneath the northern and southern rift zones of Axial Seamount at the Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 0, , .	2.5	0