

Helene Carton

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,117
citations

394421

19
h-index

526287

27
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27
all docs

27
docs citations

27
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	Tsunami earthquakes: Vertical pop-up expulsion at the forefront of subduction megathrust: Reply to Commentary. <i>Earth and Planetary Science Letters</i> , 2021, 557, 116744.	4.4	1
2	Seismic Crustal Structure and Morphotectonic Features Associated With the Chain Fracture Zone and Their Role in the Evolution of the Equatorial Atlantic Region. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020275.	3.4	22
3	Tsunami earthquakes: Vertical pop-up expulsion at the forefront of subduction megathrust. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116197.	4.4	21
4	Is There a Nascent Plate Boundary in the Northern Indian Ocean?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087362.	4.0	11
5	Stratigraphic Control of Frontal DÃ©collement Level and Structural Vergence and Implications for Tsunamigenic Earthquake Hazard in Sumatra, Indonesia. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1646-1664.	2.5	10
6	Along-Årench 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
7	Crustal Magmatic System Beneath the East Pacific Rise (8Å20â2 to 10Å10â2N): Implications for Tectonomagmatic Segmentation and Crustal Melt Transport at Fast-Åspreading Ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4584-4611.	2.5	25
8	Evidence of pervasive trans-tensional deformation in the northwestern Wharton Basin in the 2012 earthquakes rupture area. <i>Earth and Planetary Science Letters</i> , 2018, 502, 174-186.	4.4	14
9	The discovery of a conjugate system of faults in the Wharton Basin intraplate deformation zone. <i>Science Advances</i> , 2017, 3, e1601689.	10.3	34
10	Constraints on melt content of off-Åaxis magma lenses at the East Pacific Rise from analysis of 3-Å seismic amplitude variation with angle of incidence. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4123-4142.	3.4	9
11	Dry Juan de Fuca slab revealed by quantification of water entering Cascadia subduction zone. <i>Nature Geoscience</i> , 2017, 10, 864-870.	12.9	46
12	A 2-Å tomographic model of the Juan de Fuca plate from accretion at axial seamount to subduction at the Cascadia margin from an active source ocean bottom seismometer survey. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5859-5879.	3.4	41
13	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
14	Distribution of melt along the East Pacific Rise from 9Å30â2 to 10ÅN from an amplitude variation with angle of incidence (AVA) technique. <i>Geophysical Journal International</i> , 2015, 203, 1-21.	2.4	15
15	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
16	Architecture of on- and off-axis magma bodies at EPR 9Å37â40âN and implications for oceanic crustal accretion. <i>Earth and Planetary Science Letters</i> , 2014, 390, 31-44.	4.4	44
17	Variations in axial magma lens properties along the East Pacific Rise (9Å30âNâ10Å00âN) from swath 3-Å seismic imaging and 1-Å waveform inversion. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2721-2744.	3.4	31
18	Deep seismic reflection images of the Wharton Basin oceanic crust and uppermost mantle offshore Northern Sumatra: Relation with active and past deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 32-51.	3.4	36

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19	Crustal thickness and Moho character of the fast-spreading East Pacific Rise from 9°42'N to 9°57'N from poststack-migrated MCS data. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 634-657.	2.5	46
20	Fine-scale segmentation of the crustal magma reservoir beneath the East Pacific Rise. <i>Nature Geoscience</i> , 2013, 6, 866-870.	12.9	99
21	Network of off-axis melt bodies at the East Pacific Rise. <i>Nature Geoscience</i> , 2012, 5, 279-283.	12.9	53
22	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
23	Extremely thin crust in the Indian Ocean possibly resulting from Plume-Ridge Interaction. <i>Geophysical Journal International</i> , 2011, 184, 29-42.	2.4	53
24	Aseismic zone and earthquake segmentation associated with a deep subducted seamount in Sumatra. <i>Nature Geoscience</i> , 2011, 4, 308-311.	12.9	117
25	Seismic Imaging in Three Dimensions on the East Pacific Rise. <i>Eos</i> , 2009, 90, 374-375.	0.1	15
26	Seismic evidence for broken oceanic crust in the 2004 Sumatra earthquake epicentral region. <i>Nature Geoscience</i> , 2008, 1, 777-781.	12.9	112
27	Impact of lower plate structure on upper plate deformation at the NW Sumatran convergent margin from seafloor morphology. <i>Earth and Planetary Science Letters</i> , 2008, 275, 201-210.	4.4	67