

# Adrien Arnulf

## List of Publications by Year in descending order

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32  
papers

592  
citations

567144

15  
h-index

642610

23  
g-index

32  
all docs

32  
docs citations

32  
times ranked

581  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic constraints on caldera dynamics from the 2015 Axial Seamount eruption. <i>Science</i> , 2016, 354, 1395-1399.	6.0	84
2	Anatomy of an active submarine volcano. <i>Geology</i> , 2014, 42, 655-658.	2.0	56
3	Strong seismic heterogeneity in layer 2A near hydrothermal vents at the Mid-Atlantic Ridge. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	49
4	Fine-scale velocity structure of upper oceanic crust from full waveform inversion of downward continued seismic reflection data at the Lucky Strike Volcano, Mid-Atlantic Ridge. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	36
5	The Recent Volcanic History of Axial Seamount: Geophysical Insights into Past Eruption Dynamics with an Eye Toward Enhanced Observations of Future Eruptions. <i>Oceanography</i> , 2018, 31, 114-123.	0.5	34
6	Structure, Seismicity, and Accretionary Processes at the Hot Spot-Influenced Axial Seamount on the Juan de Fuca Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4618-4646.	1.4	33
7	Nature of upper crust beneath the Lucky Strike volcano using elastic full waveform inversion of streamer data. <i>Geophysical Journal International</i> , 2014, 196, 1471-1491.	1.0	32
8	Stacked sills forming a deep melt-mush feeder conduit beneath Axial Seamount. <i>Geology</i> , 2020, 48, 693-697.	2.0	31
9	Upper-plate controls on subduction zone geometry, hydration and earthquake behaviour. <i>Nature Geoscience</i> , 2022, 15, 143-148.	5.4	26
10	Debris avalanche deposits offshore St. Vincent (West Indies): Impact of flank-collapse events on the morphological evolution of the island. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 179, 1-10.	0.8	24
11	Constraints on the shallow velocity structure of the Lucky Strike Volcano, Mid-Atlantic Ridge, from downward continued multichannel streamer data. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1119-1144.	1.4	24
12	Thick, strong sediment subduction along south-central Chile and its role in great earthquakes. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116195.	1.8	22
13	Velocity structure near IODP Hole U1309D, Atlantis Massif, from waveform inversion of streamer data and borehole measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1990-2014.	1.0	19
14	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.	1.4	19
15	Seismic evidence of a complex multi-lens melt reservoir beneath the 9° N Overlapping Spreading Center at the East Pacific Rise. <i>Geophysical Research Letters</i> , 2014, 41, 6109-6115.	1.5	16
16	Basal Accretion Along the South Central Chilean Margin and Its Relationship to Great Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019861.	1.4	14
17	Physical conditions and frictional properties in the source region of a slow-slip event. <i>Nature Geoscience</i> , 2021, 14, 334-340.	5.4	14
18	Crustal Structure of the Northern Hikurangi Margin, New Zealand: Variable Accretion and Overthrusting Plate Strength Influenced by Rough Subduction. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021176.	1.4	12

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19	Seismic Evidence of Magmatic Rifting in the Offshore Taupo Volcanic Zone, New Zealand. Geophysical Research Letters, 2019, 46, 12949-12957.	1.5	9
20	$V_p/V_s$ Ratio of Incoming Sediments Off Cascadia Subduction Zone From Analysis of Controlled-Source Multicomponent OBS Records. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019239.	1.4	9
21	Crustal Structure of the Hikurangi Margin From SHIRE Seismic Data and the Relationship Between Forearc Structure and Shallow Megathrust Slip Behavior. Geophysical Research Letters, 2022, 49, .	1.5	8
22	A Joint Inversion for Three-dimensional $P$ and $S$ Wave Velocity Structure and Earthquake Locations Beneath Axial Seamount. Journal of Geophysical Research: Solid Earth, 2019, 124, 12997-13020.	1.4	5
23	Two-step velocity inversion using trans-dimensional tomography and elastic FWI. , 2020, , .		4
24	Fast 2.5D controlled-source electromagnetic inversion using a Schur complement based frequency-domain finite-difference modeling. , 2017, , .		3
25	Fast 2D full-waveform modeling and inversion using the Schur complement approach. Geophysics, 2019, 84, R783-R792.	1.4	2
26	Probabilistic joint-inversion of marine CSEM and seismic traveltime data using VFSA and generalized fuzzy clustering. , 2020, , .		2
27	A Schur complement based fast 2D finite-difference multimodel modeling of acoustic wavefield in the frequency domain. , 2017, , .		2
28	Fast Full Waveform Inversion using a Schur-complement based frequency-domain finite-difference modeling. , 2017, , .		2
29	2.5D controlled-source electromagnetic inversion using very fast simulated annealing algorithm. , 2019, , .		1
30	Fast finite-difference simulations of DC borehole measurements using a Schur complement approach. , 2018, , .		0
31	Fast frequency-domain 2D elastic-wave modeling using a Schur complement-based finite-difference method. , 2018, , .		0
32	Detection of magma beneath the northern and southern rift zones of Axial Seamount at the Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 0, , .	1.0	0