

# Adrien Arnulf

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Crustal Structure of the Hikurangi Margin From SHIRE Seismic Data and the Relationship Between Forearc Structure and Shallow Megathrust Slip Behavior. <i>Geophysical Research Letters</i> , 2022, 49, .                             | 1.5 | 8         |
| 2  | Upper-plate controls on subduction zone geometry, hydration and earthquake behaviour. <i>Nature Geoscience</i> , 2022, 15, 143-148.  | 5.4 | 26        |
| 3  | 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        |
| 4  | 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        |
| 5  | 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        |
| 6  | 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        |
| 7  | $V_p/V_s$ 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.                    | 1.4 | 9         |
| 8  | 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        |
| 9  | Stacked sills forming a deep melt-mush feeder conduit beneath Axial Seamount. <i>Geology</i> , 2020, 48, 693-697.  | 2.0 | 31        |
| 10 | Probabilistic joint-inversion of marine CSEM and seismic traveltime data using VFSA and generalized fuzzy clustering. , 2020, , .  |     | 2         |
| 11 | Two-step velocity inversion using trans-dimensional tomography and elastic FWI. , 2020, , .  |     | 4         |
| 12 | Fast 2D full-waveform modeling and inversion using the Schur complement approach. <i>Geophysics</i> , 2019, 84, R783-R792.   | 1.4 | 2         |
| 13 | Seismic Evidence of Magmatic Rifting in the Offshore Taupo Volcanic Zone, New Zealand. <i>Geophysical Research Letters</i> , 2019, 46, 12949-12957.  | 1.5 | 9         |
| 14 | A Joint Inversion for Three-dimensional $P$ and $S$ Wave Velocity Structure and Earthquake Locations Beneath Axial Seamount. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12997-13020.                           | 1.4 | 5         |
| 15 | 2.5D controlled-source electromagnetic inversion using very fast simulated annealing algorithm. , 2019, , .  |     | 1         |
| 16 | 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        |
| 17 | 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        |
| 18 | Fast finite-difference simulations of DC borehole measurements using a Schur complement approach. , 2018, , .  |     | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Fast frequency-domain 2D elastic-wave modeling using a Schur complement-based finite-difference method. , 2018, , .  |     | 0         |
| 20 | Fast 2.5D controlled-source electromagnetic inversion using a Schur complement based frequency-domain finite-difference modeling. , 2017, , .  |     | 3         |
| 21 | A Schur complement based fast 2D finite-difference multimodel modeling of acoustic wavefield in the frequency domain. , 2017, , .  |     | 2         |
| 22 | Fast Full Waveform Inversion using a Schur-complement based frequency-domain finite- difference modeling. , 2017, , .  |     | 2         |
| 23 | Seismic constraints on caldera dynamics from the 2015 Axial Seamount eruption. <i>Science</i> , 2016, 354, 1395-1399.  | 6.0 | 84        |
| 24 | 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        |
| 25 | 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        |
| 26 | Anatomy of an active submarine volcano. <i>Geology</i> , 2014, 42, 655-658.  | 2.0 | 56        |
| 27 | 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        |
| 28 | Seismic evidence of a complex multi- $\epsilon$ melt reservoir beneath the 9 $^{\circ}$ N Overlapping Spreading Center at the East Pacific Rise. <i>Geophysical Research Letters</i> , 2014, 41, 6109-6115.                        | 1.5 | 16        |
| 29 | 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        |
| 30 | 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        |
| 31 | 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        |
| 32 | Detection of magma beneath the northern and southern rift zones of Axial Seamount at the Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 0, , .  | 1.0 | 0         |