

# Zacharie Duputel

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,996  
citations

218677

26  
h-index

214800

47  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2828  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Towards forecasting volcanic eruptions using seismic noise. <i>Nature Geoscience</i> , 2008, 1, 126-130.  | 12.9 | 535       |
| 2  | Earthquake in a Maze: Compressional Rupture Branching During the 2012 <i>M<sub>w</sub></i> 8.6 Sumatra Earthquake. <i>Science</i> , 2012, 337, 724-726.   | 12.6 | 228       |
| 3  | W phase source inversion for moderate to large earthquakes (1990-2010). <i>Geophysical Journal International</i> , 2012, 189, 1125-1147.  | 2.4  | 177       |
| 4  | The 2013, Mw 7.7 Balochistan earthquake, energetic strike-slip reactivation of a thrust fault. <i>Earth and Planetary Science Letters</i> , 2014, 391, 128-134.   | 4.4  | 138       |
| 5  | Accounting for prediction uncertainty when inferring subsurface fault slip. <i>Geophysical Journal International</i> , 2014, 197, 464-482.  | 2.4  | 128       |
| 6  | Aseismic slip and seismogenic coupling along the central San Andreas Fault. <i>Geophysical Research Letters</i> , 2015, 42, 297-306.  | 4.0  | 123       |
| 7  | Real time monitoring of relative velocity changes using ambient seismic noise at the Piton de la Fournaise volcano (La Réunion) from January 2006 to June 2007. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 184, 164-173. | 2.1  | 107       |
| 8  | The 2012 Sumatra great earthquake sequence. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 247-257.  | 4.4  | 99        |
| 9  | Extracting seismic core phases with array interferometry. <i>Geophysical Research Letters</i> , 2013, 40, 1049-1053.  | 4.0  | 99        |
| 10 | The 2015 Gorkha earthquake: A large event illuminating the Main Himalayan Thrust fault. <i>Geophysical Research Letters</i> , 2016, 43, 2517-2525.  | 4.0  | 93        |
| 11 | Real-time W phase inversion during the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 535-539.  | 2.5  | 92        |
| 12 | Monitoring of phreatic eruptions using Interferometry on Retrieved Cross-Correlation Function from Ambient Seismic Noise: Results from Mt. Ruapehu, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 46-59.  | 2.1  | 91        |
| 13 | The Iquique earthquake sequence of April 2014: Bayesian modeling accounting for prediction uncertainty. <i>Geophysical Research Letters</i> , 2015, 42, 7949-7957.  | 4.0  | 91        |
| 14 | Long-period analysis of the 2016 Kaikoura earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 265, 62-66.   | 1.9  | 79        |
| 15 | Using centroid time-delays to characterize source durations and identify earthquakes with unique characteristics. <i>Earth and Planetary Science Letters</i> , 2013, 374, 92-100.   | 4.4  | 78        |
| 16 | The 2013 Mw 7.7 Balochistan Earthquake: Seismic Potential of an Accretionary Wedge. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1020-1030.   | 2.3  | 77        |
| 17 | Uncertainty estimations for seismic source inversions. <i>Geophysical Journal International</i> , 2012, 190, 1243-1256.   | 2.4  | 76        |
| 18 | Structures and evolution of the plumbing system of Piton de la Fournaise volcano inferred from clustering of 2007 eruptive cycle seismicity. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 202, 96-106.                     | 2.1  | 55        |

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|----|--|------|-----------|
| 19 | Uncovering the hidden signature of a magmatic recharge at Piton de la Fournaise volcano using small earthquakes. <i>Geophysical Research Letters</i> , 2016, 43, 4255-4262.  | 4.0  | 47        |
| 20 | Real-time forecasting of the April 11, 2012 Sumatra tsunami. <i>Geophysical Research Letters</i> , 2012, 39, .   | 4.0  | 44        |
| 21 | The December 7, 2012 Japan Trench intraplate doublet (Mw 7.2, 7.1) and interactions between near-trench intraplate thrust and normal faulting. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 220, 73-78. | 1.9  | 44        |
| 22 | Depth varying rupture properties during the 2015 Mw 7.8 Gorkha (Nepal) earthquake. <i>Tectonophysics</i> , 2017, 714-715, 44-54.   | 2.2  | 40        |
| 23 | Anomalously steep dips of earthquakes in the 2011 Tohoku-Oki source region and possible explanations. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 121-133.   | 4.4  | 39        |
| 24 | Constraining Spatiotemporal Characteristics of Magma Migration at Piton De La Fournaise Volcano From Pre-eruptive Seismicity. <i>Geophysical Research Letters</i> , 2019, 46, 119-127.                                 | 4.0  | 39        |
| 25 | Interseismic Loading of Subduction Megathrust Drives Long-term Uplift in Northern Chile. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085377.  | 4.0  | 33        |
| 26 | Deep Transient Slow Slip Detected by Survey GPS in the Region of Atacama, Chile. <i>Geophysical Research Letters</i> , 2018, 45, 12263-12273.  | 4.0  | 32        |
| 27 | Structural control of collapse events inferred by self-potential mapping on the Piton de la Fournaise volcano (La Réunion Island). <i>Journal of Volcanology and Geothermal Research</i> , 2012, 209-210, 9-18.        | 2.1  | 28        |
| 28 | Revisiting the 1992 Landers earthquake: a Bayesian exploration of co-seismic slip and off-fault damage. <i>Geophysical Journal International</i> , 2018, 212, 839-852.   | 2.4  | 26        |
| 29 | Aseismic slip and seismogenic coupling in the Marmara Sea: What can we learn from onland geodesy?. <i>Geophysical Research Letters</i> , 2017, 44, 3100-3108.  | 4.0  | 25        |
| 30 | Citizen seismology helps decipher the 2021 Haiti earthquake. <i>Science</i> , 2022, 376, 283-287.  | 12.6 | 25        |
| 31 | Constraints on the long-period moment-dip tradeoff for the Tohoku earthquake. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.   | 4.0  | 23        |
| 32 | The 2007 caldera collapse of Piton de la Fournaise volcano: Source process from very-long-period seismic signals. <i>Earth and Planetary Science Letters</i> , 2019, 527, 115786.                                      | 4.4  | 23        |
| 33 | Strain budget of the Ecuador-Colombia subduction zone: A stochastic view. <i>Earth and Planetary Science Letters</i> , 2018, 498, 288-299.   | 4.4  | 22        |
| 34 | Impulsive Source of the 2017 $M_w=7.3$ Ezgeleh, Iran, Earthquake. <i>Geophysical Research Letters</i> , 2019, 46, 5207-5216.   | 4.0  | 21        |
| 35 | Diverse rupture processes in the 2015 Peru deep earthquake doublet. <i>Science Advances</i> , 2016, 2, e1600581.   | 10.3 | 20        |
| 36 | Rare Occurrences of Non-cascading Foreshock Activity in Southern California. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091757.  | 4.0  | 17        |

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|----|---|-----|-----------|
| 37 | Regional W-phase Source Inversion for Moderate to Large Earthquakes in China and Neighboring Areas. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,052.                                      | 3.4 | 15        |
| 38 | Tracking dike propagation leading to the 2018 K lauea eruption. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116653.   | 4.4 | 12        |
| 39 | Seismic and Aseismic Fault Slip During the Initiation Phase of the 2017 <i>M<sub>w</sub></i> = 6.9 Valpara so Earthquake. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091916.                          | 4.0 | 12        |
| 40 | Interplay of seismic and a-seismic deformation during the 2020 sequence of Atacama, Chile. <i>Earth and Planetary Science Letters</i> , 2021, 570, 117081.  | 4.4 | 10        |
| 41 | Transient self-potential anomalies associated with recent lava flows at Piton de la Fournaise volcano (R union Island, Indian Ocean). <i>Journal of Volcanology and Geothermal Research</i> , 2009, 187, 158-166. | 2.1 | 7         |
| 42 | Impact of 3-D Earth structure on W-phase CMT parameters. <i>Geophysical Journal International</i> , 2020, 223, 1432-1445.   | 2.4 | 7         |
| 43 | Seismicity of La R union island. <i>Comptes Rendus - Geoscience</i> , 2021, 353, 237-255.   | 1.2 | 6         |
| 44 | Improving the analysis and inversion of multimode Rayleigh-wave dispersion by using group-delay time information observed on arrays of high-frequency sensors. <i>Geophysics</i> , 2010, 75, R13-R20.             | 2.6 | 5         |
| 45 | Along-Dip Segmentation of the Slip Behavior and Rheology of the Copiap  Ridge Subducted in North-Central Chile. <i>Geophysical Research Letters</i> , 2022, 49, .   | 4.0 | 5         |
| 46 | Global S-wave tomography using receiver pairs: an alternative to get rid of earthquake mislocation. <i>Geophysical Journal International</i> , 2014, 199, 1043-1057.  | 2.4 | 2         |
| 47 | The Alland earthquake sequence in Eastern Austria: Shedding light on tectonic stress geometry in a key area of seismic hazard. <i>Austrian Journal of Earth Sciences</i> , 2019, 112, 182-194.                    | 0.5 | 1         |