

Eric Debayle

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

2,848
citations

32
h-index

53
g-index

55
ext. papers

3,113
ext. citations

6.2
avg, IF

5.25
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 50 | Quantifying Intrinsic and Extrinsic Contributions to Radial Anisotropy in Tomographic Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022322 | 3.6 | 1 |
| 49 | R&BIF-SI: A Distributed Information System for French Seismological Data. <i>Seismological Research Letters</i> , 2021 , 92, 1832-1853 | 3 | 6 |
| 48 | Evidence for radial anisotropy in the lower crust of the Apennines from Bayesian ambient noise tomography in Europe. <i>Geophysical Journal International</i> , 2021 , 226, 941-967 | 2.6 | 4 |
| 47 | Seismic evidence for partial melt below tectonic plates. <i>Nature</i> , 2020 , 586, 555-559 | 50.4 | 25 |
| 46 | Interactions of scales of convection in the Earth's mantle. <i>Tectonophysics</i> , 2018 , 746, 669-677 | 3.1 | 11 |
| 45 | Seismic evidence for broad attenuation anomalies in the asthenosphere beneath the Pacific Ocean. <i>Geophysical Journal International</i> , 2017 , 209, 1677-1698 | 2.6 | 5 |
| 44 | Deep crustal fracture zones control fluid escape and the seismic cycle in the Cascadia subduction zone. <i>Earth and Planetary Science Letters</i> , 2017 , 460, 1-11 | 5.3 | 19 |
| 43 | Quantifying seismic anisotropy induced by small-scale chemical heterogeneities. <i>Geophysical Journal International</i> , 2017 , 211, 1585-1600 | 2.6 | 10 |
| 42 | Attenuation tomography of the upper mantle. <i>Geophysical Research Letters</i> , 2017 , 44, 7715-7724 | 4.9 | 13 |
| 41 | Confirmation of a change in the global shear velocity pattern at around 1000 km depth. <i>Geophysical Journal International</i> , 2017 , 211, 1628-1639 | 2.6 | 38 |
| 40 | Seismic evidence for a change in the large-scale tomographic pattern across the D'' layer. <i>Geophysical Research Letters</i> , 2016 , 43, 7928-7936 | 4.9 | 16 |
| 39 | Multi-mode conversion imaging of the subducted Gorda and Juan de Fuca plates below the North American continent. <i>Earth and Planetary Science Letters</i> , 2016 , 440, 135-146 | 5.3 | 24 |
| 38 | An automatically updated S-wave model of the upper mantle and the depth extent of azimuthal anisotropy. <i>Geophysical Research Letters</i> , 2016 , 43, 674-682 | 4.9 | 72 |
| 37 | A global horizontal shear velocity model of the upper mantle from multimode Love wave measurements. <i>Geophysical Journal International</i> , 2016 , 207, 542-561 | 2.6 | 32 |
| 36 | Rayleigh wave phase velocity and error maps up to the fifth overtone. <i>Geophysical Research Letters</i> , 2015 , 42, 3266-3272 | 4.9 | 7 |
| 35 | Depth-variant azimuthal anisotropy in Tibet revealed by surface wave tomography. <i>Geophysical Research Letters</i> , 2015 , 42, 4326-4334 | 4.9 | 37 |
| 34 | A 3D shear-wave velocity model of the upper mantle beneath China and the surrounding areas. <i>Tectonophysics</i> , 2014 , 633, 193-210 | 3.1 | 32 |

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| 33 | Seismoacoustic coupling induced by the breakup of the 15 February 2013 Chelyabinsk meteor. <i>Geophysical Research Letters</i> , 2013 , 40, 3522-3526 | 4.9 | 26 |
| 32 | Strong lateral variations of lithospheric mantle beneath cratons [Example from the Baltic Shield. <i>Earth and Planetary Science Letters</i> , 2013 , 383, 164-172 | 5.3 | 23 |
| 31 | Seismic observations of large-scale deformation at the bottom of fast-moving plates. <i>Earth and Planetary Science Letters</i> , 2013 , 376, 165-177 | 5.3 | 102 |
| 30 | An objective rationale for the choice of regularisation parameter with application to global multiple-frequency <i>S</i>-wave tomography. <i>Solid Earth</i> , 2013 , 4, 357-371 | 3.3 | 14 |
| 29 | The Zagros core: Deformation of the continental lithospheric mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, | 3.6 | 62 |
| 28 | A global shear velocity model of the upper mantle from fundamental and higher Rayleigh mode measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, | | 75 |
| 27 | Frequency-dependent effects on global S-wave traveltimes: wavefront-healing, scattering and attenuation. <i>Geophysical Journal International</i> , 2010 , 182, 1025-1042 | 2.6 | 25 |
| 26 | Seismic evidence for a global low-velocity layer within the Earth's upper mantle. <i>Nature Geoscience</i> , 2010 , 3, 718-721 | 18.3 | 150 |
| 25 | Propagation of a melting anomaly along the ultraslow Southwest Indian Ridge between 46°E and 52°E: interaction with the Crozet hotspot?. <i>Geophysical Journal International</i> , 2009 , 179, 687-699 | 2.6 | 68 |
| 24 | The African upper mantle and its relationship to tectonics and surface geology. <i>Geophysical Journal International</i> , 2008 , 175, 1108-1126 | 2.6 | 90 |
| 23 | The mantle transition zone as seen by global Pds phases: No clear evidence for a thin transition zone beneath hotspots. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 62 |
| 22 | Upper mantle structure of shear-waves velocities and stratification of anisotropy in the Afar Hotspot region. <i>Tectonophysics</i> , 2008 , 462, 164-177 | 3.1 | 45 |
| 21 | Mantle upwellings and convective instabilities revealed by seismic tomography and helium isotope geochemistry beneath eastern Africa. <i>Geophysical Research Letters</i> , 2007 , 34, | 4.9 | 35 |
| 20 | Upper mantle structure of eastern Asia from multimode surface waveform tomography. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 156 |
| 19 | Azimuthal anisotropy of the Pacific region. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 53-71 | 5.3 | 75 |
| 18 | The state of the upper mantle beneath southern Africa. <i>Tectonophysics</i> , 2006 , 416, 101-112 | 3.1 | 66 |
| 17 | Multimode surface waveform tomography of the Pacific Ocean: a closer look at the lithospheric cooling signature. <i>Geophysical Journal International</i> , 2006 , 166, 1384-1397 | 2.6 | 80 |
| 16 | Upper mantle structure of the South American continent and neighboring oceans from surface wave tomography. <i>Tectonophysics</i> , 2005 , 406, 115-139 | 3.1 | 55 |

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|----|---|------|-----|
| 15 | Global azimuthal seismic anisotropy and the unique plate-motion deformation of Australia. <i>Nature</i> , 2005 , 433, 509-12 | 50.4 | 232 |
| 14 | Rayleigh wave tomography in the North Atlantic: high resolution images of the Iceland, Azores and Eifel mantle plumes. <i>Lithos</i> , 2005 , 79, 453-474 | 2.9 | 84 |
| 13 | Can finite-frequency effects be accounted for in ray theory surface wave tomography?. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 50 |
| 12 | Upper mantle S-wave speed heterogeneity and anisotropy beneath the North Atlantic from regional surface wave tomography: the Iceland and Azores plumes. <i>Geophysical Journal International</i> , 2004 , 159, 1057-1076 | 2.6 | 57 |
| 11 | Inversion of massive surface wave data sets: Model construction and resolution assessment. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 78 |
| 10 | Geodynamic Context of the Taiwan Orogen. <i>Geophysical Monograph Series</i> , 2004 , 127-158 | 1.1 | 14 |
| 9 | Seismic evidence for a moderately thick lithosphere beneath the Siberian Platform. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 61 |
| 8 | Seismic evidence for deep low-velocity anomalies in the transition zone beneath West Antarctica. <i>Earth and Planetary Science Letters</i> , 2003 , 216, 645-661 | 5.3 | 61 |
| 7 | Surface-wave studies of the Australian region 2003 , | | 6 |
| 6 | Seismic evidence for a deeply rooted low-velocity anomaly in the upper mantle beneath the northeastern Afro/Arabian continent. <i>Earth and Planetary Science Letters</i> , 2001 , 193, 423-436 | 5.3 | 142 |
| 5 | Anisotropy in the Australasian upper mantle from Love and Rayleigh waveform inversion. <i>Earth and Planetary Science Letters</i> , 2000 , 184, 339-351 | 5.3 | 133 |
| 4 | The Australian continental upper mantle: Structure and deformation inferred from surface waves. <i>Journal of Geophysical Research</i> , 2000 , 105, 25423-25450 | | 153 |
| 3 | SV-wave azimuthal anisotropy in the Australian upper mantle: preliminary results from automated Rayleigh waveform inversion. <i>Geophysical Journal International</i> , 1999 , 137, 747-754 | 2.6 | 74 |
| 2 | Anisotropy in the Indian Ocean upper mantle from Rayleigh- and Love-waveform inversion. <i>Geophysical Journal International</i> , 1998 , 133, 529-540 | 2.6 | 83 |
| 1 | Upper mantle heterogeneities in the Indian Ocean from waveform inversion. <i>Geophysical Research Letters</i> , 1997 , 24, 245-248 | 4.9 | 57 |