

Marie Calvet

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,347
citations

361413

20
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395702

33
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docs citations

36
times ranked

1328
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220. | 12.9 | 207 |
| 2 | Lopsided Growth of Earth's Inner Core. <i>Science</i> , 2010, 328, 1014-1017. | 12.6 | 189 |
| 3 | SI-Hex: a new catalogue of instrumental seismicity for metropolitan France. <i>Bulletin - Societe Geologique De France</i> , 2015, 186, 3-19. | 2.2 | 77 |
| 4 | Lapse-Time Dependence of Coda Q: Anisotropic Multiple-Scattering Models and Application to the Pyrenees. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 1993-2010. | 2.3 | 74 |
| 5 | Geophysical evidence of a missing lithospheric root beneath the Eastern Pyrenees: Consequences for post-orogenic uplift and associated geomorphic signatures. <i>Earth and Planetary Science Letters</i> , 2008, 276, 302-313. | 4.4 | 65 |
| 6 | Sensitivity kernels for coda-wave interferometry and scattering tomography: theory and numerical evaluation in two-dimensional anisotropically scattering media. <i>Geophysical Journal International</i> , 2016, 204, 650-666. | 2.4 | 64 |
| 7 | Spatial variations of seismic attenuation and heterogeneity in the Pyrenees: Coda Q and peak delay time analysis. <i>Tectonophysics</i> , 2013, 608, 428-439. | 2.2 | 59 |
| 8 | Velocity and attenuation of scalar and elastic waves in random media: A spectral function approach. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 1843-1862. | 1.1 | 47 |
| 9 | Crustal structure of the Alps as seen by attenuation tomography. <i>Earth and Planetary Science Letters</i> , 2016, 439, 71-80. | 4.4 | 46 |
| 10 | Sensitivity of coda waves to spatial variations of absorption and scattering: radiative transfer theory and 2-D examples. <i>Geophysical Journal International</i> , 2014, 197, 1117-1137. | 2.4 | 45 |
| 11 | Constraints on grain size and stable iron phases in the uppermost inner core from multiple scattering modeling of seismic velocity and attenuation. <i>Earth and Planetary Science Letters</i> , 2008, 267, 200-212. | 4.4 | 42 |
| 12 | Scattering attenuation profile of the Moon: Implications for shallow moonquakes and the structure of the megaregolith. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 262, 28-40. | 1.9 | 39 |
| 13 | Seismic scattering and absorption mapping of debris flows, feeding paths, and tectonic units at Mount St. Helens volcano. <i>Earth and Planetary Science Letters</i> , 2016, 442, 21-31. | 4.4 | 36 |
| 14 | Autocorrelation of the Ground Vibrations Recorded by the SEISâ€œInSight Seismometer on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006498. | 3.6 | 34 |
| 15 | The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545. | 3.6 | 33 |
| 16 | Optimisation of seismic network design: Application to a geophysical international lunar network. <i>Planetary and Space Science</i> , 2011, 59, 343-354. | 1.7 | 32 |
| 17 | P-wave propagation in transversely isotropic media. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 156, 21-40. | 1.9 | 30 |
| 18 | Tomography of crustal seismic attenuation in Metropolitan France: implications for seismicity analysis. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 2195-2210. | 4.1 | 25 |

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|----|--|-----|-----------|
| 19 | Deep Earth Structure: The Earth's Cores. , 2015, , 725-757. | | 23 |
| 20 | Energy Envelope and Attenuation Characteristics of High-Frequency (HF) and Very-High-Frequency (VF) Martian Events. Bulletin of the Seismological Society of America, 2021, 111, 3016-3034. | 2.3 | 23 |
| 21 | Absolute earthquake locations using 3-D versus 1-D velocity models below a local seismic network: example from the Pyrenees. Geophysical Journal International, 2018, 212, 1806-1828. | 2.4 | 22 |
| 22 | P-wave propagation in transversely isotropic media. Physics of the Earth and Planetary Interiors, 2006, 156, 12-20. | 1.9 | 20 |
| 23 | Multimethod Characterization of the French-Pyrenean Valley of Bagnères-de-Bigorre for Seismic-Hazard Evaluation: Observations and Models. Bulletin of the Seismological Society of America, 2011, 101, 1912-1937. | 2.3 | 18 |
| 24 | Impact of grain shape on seismic attenuation and phase velocity in cubic polycrystalline materials. Wave Motion, 2016, 65, 29-43. | 2.0 | 15 |
| 25 | Traveltime sensitivity kernels for PKP phases in the mantle. Physics of the Earth and Planetary Interiors, 2005, 153, 21-31. | 1.9 | 13 |
| 26 | Statistical study of seismic heterogeneities at the base of the mantle from PKP differential traveltimes. Geophysical Journal International, 2009, 179, 1607-1616. | 2.4 | 12 |
| 27 | On the possibility of lunar core phase detection using new seismometers for soft-landers in future lunar missions. Planetary and Space Science, 2013, 81, 18-31. | 1.7 | 11 |
| 28 | Seasonal variations of subsurface seismic velocities monitored by the SEIS-InSight seismometer on Mars. Geophysical Journal International, 2022, 229, 776-799. | 2.4 | 10 |
| 29 | RÃ%SIF-SI: A Distributed Information System for French Seismological Data. Seismological Research Letters, 2021, 92, 1832-1853. | 1.9 | 9 |
| 30 | Seismicity patterns in southwestern France. Comptes Rendus - Geoscience, 2021, 353, 79-104. | 1.2 | 8 |
| 31 | Shape preferred orientation of iron grains compatible with Earth's uppermost inner core hemisphericity. Earth and Planetary Science Letters, 2018, 481, 395-403. | 4.4 | 7 |
| 32 | Revisiting Multiple-Scattering Principles in a Crustal Waveguide: Equipartition, Depolarization and Coda Normalization. Pure and Applied Geophysics, 0, , . | 1.9 | 4 |
| 33 | Possible layering of mantle convection at the top of the Iceland Hotspot: a crosscheck between 3-D numerical models and gravimetric, seismic and petrological data. Geophysical Journal International, 2012, 188, 35-60. | 2.4 | 3 |
| 34 | Absence of Geometrical Regime for Impedance-Type Elastic Scatterers. Bulletin of the Seismological Society of America, 2018, , . | 2.3 | 0 |