

Luce Fleitout

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,672
citations

186209

28
h-index

233338

45
g-index

47
all docs

47
docs citations

47
times ranked

1710
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Tectonics and topography for a lithosphere containing density heterogeneities. <i>Tectonics</i> , 1982, 1, 21-56. | 1.3 | 303 |
| 2 | Shear deformation zones along major transform faults and subducting slabs. <i>Geophysical Journal International</i> , 1978, 54, 93-119. | 1.0 | 173 |
| 3 | Thermal evolution of the oceanic lithosphere: an alternative view. <i>Earth and Planetary Science Letters</i> , 1996, 142, 121-136. | 1.8 | 153 |
| 4 | Thermal and mechanical evolution of shear zones. <i>Journal of Structural Geology</i> , 1980, 2, 159-164. | 1.0 | 152 |
| 5 | Thinning of the lithosphere by small-scale convective destabilization. <i>Nature</i> , 1985, 313, 125-128. | 13.7 | 136 |
| 6 | Heat transport in stagnant lid convection with temperature- and pressure-dependent Newtonian or non-Newtonian rheology. <i>Journal of Geophysical Research</i> , 1999, 104, 12759-12777. | 3.3 | 129 |
| 7 | Tectonic stresses in the lithosphere. <i>Tectonics</i> , 1983, 2, 315-324. | 1.3 | 128 |
| 8 | Effect of lateral viscosity variations in the top 300 km on the geoid and dynamic topography. <i>Geophysical Journal International</i> , 2003, 152, 566-580. | 1.0 | 109 |
| 9 | April 2012 intra-oceanic seismicity off Sumatra boosted by the Banda-Aceh megathrust. <i>Nature</i> , 2012, 490, 240-244. | 13.7 | 97 |
| 10 | Afterslip and viscoelastic relaxation model inferred from the large-scale post-seismic deformation following the 2010 <i>M</i> _w 8.8 Maule earthquake (Chile). <i>Geophysical Journal International</i> , 2016, 205, 1455-1472. | 1.0 | 95 |
| 11 | Steady state, secondary convection beneath lithospheric plates with temperature- and pressure-dependent viscosity. <i>Journal of Geophysical Research</i> , 1984, 89, 9227-9244. | 3.3 | 94 |
| 12 | Topography of the ocean floor: Thermal evolution of the lithosphere and interaction of deep mantle heterogeneities with the lithosphere. <i>Geophysical Research Letters</i> , 1990, 17, 1961-1964. | 1.5 | 82 |
| 13 | Geoid anomalies and the structure of continental and oceanic lithospheres. <i>Journal of Geophysical Research</i> , 1996, 101, 16119-16135. | 3.3 | 76 |
| 14 | The Seismic Sequence of the 16 September 2015 <i>M</i> _w 8.3 Illapel, Chile, Earthquake. <i>Seismological Research Letters</i> , 2016, 87, 789-799. | 0.8 | 71 |
| 15 | Secondary convection and the growth of the oceanic lithosphere. <i>Physics of the Earth and Planetary Interiors</i> , 1984, 36, 181-212. | 0.7 | 70 |
| 16 | Toward a Global Horizontal and Vertical Elastic Load Deformation Model Derived from GRACE and GNSS Station Position Time Series. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3225-3237. | 1.4 | 68 |
| 17 | Evidence for the release of long-term tectonic strain stored in continental interiors through intraplate earthquakes. <i>Geophysical Research Letters</i> , 2016, 43, 6826-6836. | 1.5 | 62 |
| 18 | Active lithospheric thinning. <i>Tectonophysics</i> , 1986, 132, 271-278. | 0.9 | 56 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Numerical simulations of the cooling of an oceanic lithosphere above a convective mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 125, 45-64. | 0.7 | 52 |
| 20 | Short-wavelength geoid, bathymetry and the convective pattern beneath the Pacific Ocean. <i>Geophysical Journal International</i> , 1992, 110, 6-28. | 1.0 | 46 |
| 21 | A comprehensive analysis of the Illapel 2015 Mw8.3 earthquake from GPS and InSAR data. <i>Earth and Planetary Science Letters</i> , 2017, 469, 123-134. | 1.8 | 45 |
| 22 | Global plate motion and the geoid: a physical model. <i>Geophysical Journal International</i> , 1988, 93, 477-484. | 1.0 | 43 |
| 23 | Stability of the oceanic lithosphere with variable viscosity: an initial-value approach. <i>Physics of the Earth and Planetary Interiors</i> , 1984, 34, 173-185. | 0.7 | 42 |
| 24 | Interpretation of interseismic deformations and the seismic cycle associated with large subduction earthquakes. <i>Tectonophysics</i> , 2013, 589, 126-141. | 0.9 | 42 |
| 25 | Effect of lateral viscosity variations in the core-mantle boundary region on predictions of the long-wavelength geoid. <i>Studia Geophysica Et Geodaetica</i> , 2006, 50, 217-232. | 0.3 | 38 |
| 26 | Flattening of the oceanic topography and geoid: thermal versus dynamic origin. <i>Geophysical Journal International</i> , 2000, 143, 582-594. | 1.0 | 33 |
| 27 | Small-wavelength geoid and topography anomalies in the South Atlantic Ocean: A clue to new hot-spot tracks and lithospheric deformation. <i>Geophysical Research Letters</i> , 1989, 16, 637-640. | 1.5 | 32 |
| 28 | Inverting Glacial Isostatic Adjustment signal using Bayesian framework and two linearly relaxing rheologies. <i>Geophysical Journal International</i> , 2017, 209, 1126-1147. | 1.0 | 31 |
| 29 | The earthquake cycle in subduction zones. <i>Geophysical Research Letters</i> , 1982, 9, 21-24. | 1.5 | 25 |
| 30 | Constraints on Transient Viscoelastic Rheology of the Asthenosphere From Seasonal Deformation. <i>Geophysical Research Letters</i> , 2018, 45, 2328-2338. | 1.5 | 24 |
| 31 | Vertical motions in Thailand after the 2004 Sumatra-Andaman Earthquake from GPS observations and its geophysical modelling. <i>Advances in Space Research</i> , 2013, 51, 1565-1571. | 1.2 | 18 |
| 32 | A directional analysis of the small wavelength geoid in the Pacific Ocean. <i>Geophysical Research Letters</i> , 1989, 16, 251-254. | 1.5 | 17 |
| 33 | Simple considerations on forces driving plate motion and on the plate-tectonic contribution to the long-wavelength geoid. <i>Geophysical Journal International</i> , 1996, 127, 268-282. | 1.0 | 15 |
| 34 | Data-adaptive spatio-temporal filtering of GRACE data. <i>Geophysical Journal International</i> , 2019, 219, 2034-2055. | 1.0 | 15 |
| 35 | Far-field tectonics associated with a large impact basin: applications to Caloris on Mercury and Imbrium on the Moon. <i>Earth and Planetary Science Letters</i> , 1982, 58, 104-115. | 1.8 | 14 |
| 36 | Geoid and topography associated with sublithospheric convection: negligible contribution from deep currents. <i>Earth and Planetary Science Letters</i> , 1991, 103, 395-408. | 1.8 | 13 |

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|----|--|------|-----------|
| 37 | A new analysis of gravity and topography data over the Mid-Atlantic Ridge: non-compensation of the axial valley. <i>Earth and Planetary Science Letters</i> , 1988, 88, 308-320. | 1.8 | 12 |
| 38 | Global volcanism and tectonism on Mercury: comparison with the Moon. <i>Earth and Planetary Science Letters</i> , 1982, 58, 95-103. | 1.8 | 11 |
| 39 | Long-wavelength geoid: the effect of continental roots and lithosphere thickness variations. <i>Geophysical Journal International</i> , 2000, 143, 945-963. | 1.0 | 11 |
| 40 | Evidence for postglacial signatures in gravity gradients: A clue in lower mantle viscosity. <i>Earth and Planetary Science Letters</i> , 2016, 452, 146-156. | 1.8 | 11 |
| 41 | Can the 1D viscosity profiles inferred from postglacial rebound data be affected by lateral viscosity variations in the tectosphere?. <i>Geophysical Research Letters</i> , 2001, 28, 4403-4406. | 1.5 | 10 |
| 42 | Understanding the Geodetic Signature of Large Aquifer Systems: Example of the Ozark Plateaus in Central United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, . | 1.4 | 9 |
| 43 | On the interpretation of linear relationships between seafloor subsidence rate and the height of the ridge. <i>Geophysical Journal International</i> , 2001, 146, 691-698. | 1.0 | 4 |
| 44 | Linear Stability of a Double Diffusive Layer of an Infinite Prandtl Number Fluid with Temperature-Dependent Viscosity. <i>Studia Geophysica Et Geodaetica</i> , 2004, 48, 519-537. | 0.3 | 2 |
| 45 | Geophysics: Small-scale mantle convection. <i>Nature</i> , 1985, 317, 478-479. | 13.7 | 1 |