Luce Fleitout

List of Publications by Year
in descending order

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	Understanding the Geodetic Signature of Large Aquifer Systems: Example of the Ozark Plateaus in Central United States. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	9
2	Data-adaptive spatio-temporal filtering of GRACE data. Geophysical Journal International, 2019, 219, 2034-2055.	1.0	15
3	Toward a Global Horizontal and Vertical Elastic Load Deformation Model Derived from GRACE and GNSS Station Position Time Series. Journal of Geophysical Research: Solid Earth, 2018, 123, 3225-3237.	1.4	68
4	Constraints on Transient Viscoelastic Rheology of the Asthenosphere From Seasonal Deformation. Geophysical Research Letters, 2018, 45, 2328-2338.	1.5	24
5	A comprehensive analysis of the Illapel 2015 Mw8.3 earthquake from GPS and InSAR data. Earth and Planetary Science Letters, 2017, 469, 123-134.	1.8	45
6	Inverting Glacial Isostatic Adjustment signal using Bayesian framework and two linearly relaxing rheologies. Geophysical Journal International, 2017, 209, 1126-1147.	1.0	31
7	Evidence for postglacial signatures in gravity gradients: A clue in lower mantle viscosity. Earth and Planetary Science Letters, 2016, 452, 146-156.	1.8	11
8	The Seismic Sequence of the 16 September 2015<i>M</i>_wÂ8.3 Illapel, Chile, Earthquake. Seismological Research Letters, 2016, 87, 789-799.	0.8	71
9	Evidence for the release of longâ€term tectonic strain stored in continental interiors through intraplate earthquakes. Geophysical Research Letters, 2016, 43, 6826-6836.	1.5	62
10	Afterslip and viscoelastic relaxation model inferred from the large-scale post-seismic deformation following the 2010<i>M</i>_w8.8 Maule earthquake (Chile). Geophysical Journal International, 2016, 205, 1455-1472.	1.0	95
11	Interpretation of interseismic deformations and the seismic cycle associated with large subduction earthquakes. Tectonophysics, 2013, 589, 126-141.	0.9	42
12	Vertical motions in Thailand after the 2004 Sumatraâ€“Andaman Earthquake from GPS observations and its geophysical modelling. Advances in Space Research, 2013, 51, 1565-1571.	1.2	18
13	April 2012 intra-oceanic seismicity off Sumatra boosted by the Banda-Aceh megathrust. Nature, 2012, 490, 240-244.	13.7	97
14	Effect of lateral viscosity variations in the core-mantle boundary region on predictions of the long-wavelength geoid. Studia Geophysica Et Geodaetica, 2006, 50, 217-232.	0.3	38
15	Linear Stability of a Double Diffusive Layer of an Infinite Prandtl Number Fluid with Temperature-Dependent Viscosity. Studia Geophysica Et Geodaetica, 2004, 48, 519-537.	0.3	2
16	Effect of lateral viscosity variations in the top 300 km on the geoid and dynamic topography. Geophysical Journal International, 2003, 152, 566-580.	1.0	109
17	Can the 1D viscosity profiles inferred from postglacial rebound data be affected by lateral viscosity variations in the tectosphere?. Geophysical Research Letters, 2001, 28, 4403-4406.	1.5	10
18	Numerical simulations of the cooling of an oceanic lithosphere above a convective mantle. Physics of the Earth and Planetary Interiors, 2001, 125, 45-64.	0.7	52

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19	On the interpretation of linear relationships between seafloor subsidence rate and the height of the ridge. Geophysical Journal International, 2001, 146, 691-698.	1.0	4
20	Flattening of the oceanic topography and geoid: thermal versus dynamic origin. Geophysical Journal International, 2000, 143, 582-594.	1.0	33
21	Long-wavelength geoid: the effect of continental roots and lithosphere thickness variations. Geophysical Journal International, 2000, 143, 945-963.	1.0	11
22	Heat transport in stagnant lid convection with temperature- and pressure-dependent Newtonian or non-Newtonian rheology. Journal of Geophysical Research, 1999, 104, 12759-12777.	3.3	129
23	Thermal evolution of the oceanic lithosphere: an alternative view. Earth and Planetary Science Letters, 1996, 142, 121-136.	1.8	153
24	Geoid anomalies and the structure of continental and oceanic lithospheres. Journal of Geophysical Research, 1996, 101, 16119-16135.	3.3	76
25	Simple considerations on forces driving plate motion and on the plate-tectonic contribution to the long-wavelength geoid. Geophysical Journal International, 1996, 127, 268-282.	1.0	15
26	Short-wavelength geoid, bathymetry and the convective pattern beneath the Pacific Ocean. Geophysical Journal International, 1992, 110, 6-28.	1.0	46
27	Geoid and topography associated with sublithospheric convection: negligible contribution from deep currents. Earth and Planetary Science Letters, 1991, 103, 395-408.	1.8	13
28	Topography of the ocean floor: Thermal evolution of the lithosphere and interaction of deep mantle heterogeneities with the lithosphere. Geophysical Research Letters, 1990, 17, 1961-1964.	1.5	82
29	A directional analysis of the small wavelength geoid in the Pacific Ocean. Geophysical Research Letters, 1989, 16, 251-254.	1.5	17
30	Smallâ€wavelength geoid and topography anomalies in the South Atlantic Ocean: A clue to new hotâ€spot tracks and lithospheric deformation. Geophysical Research Letters, 1989, 16, 637-640.	1.5	32
31	Global plate motion and the geoid: a physical model. Geophysical Journal International, 1988, 93, 477-484.	1.0	43
32	A new analysis of gravity and topography data over the Mid-Atlantic Ridge: non-compensation of the axial valley. Earth and Planetary Science Letters, 1988, 88, 308-320.	1.8	12
33	Active lithospheric thinning. Tectonophysics, 1986, 132, 271-278.	0.9	56
34	Thinning of the lithosphere by small-scale convective destabilization. Nature, 1985, 313, 125-128.	13.7	136
35	Geophysics: Small-scale mantle convection. Nature, 1985, 317, 478-479.	13.7	1
36	Steady state, secondary convection beneath lithospheric plates with temperatureâ€•and pressureâ€dependent viscosity. Journal of Geophysical Research, 1984, 89, 9227-9244.	3.3	94

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37	Stability of the oceanic lithosphere with variable viscosity: an initial-value approach. Physics of the Earth and Planetary Interiors, 1984, 34, 173-185.	0.7	42
38	Secondary convection and the growth of the oceanic lithosphere. Physics of the Earth and Planetary Interiors, 1984, 36, 181-212.	0.7	70
39	Tectonic stresses in the lithosphere. Tectonics, 1983, 2, 315-324.	1.3	128
40	The earthquake cycle in subduction zones. Geophysical Research Letters, 1982, 9, 21-24.	1.5	25
41	Tectonics and topography for a lithosphere containing density heterogeneities. Tectonics, 1982, 1, 21-56.	1.3	303
42	Global volcanism and tectonism on Mercury: comparison with the Moon. Earth and Planetary Science Letters, 1982, 58, 95-103.	1.8	11
43	Far-field tectonics associated with a large impact basin: applications to Caloris on Mercury and Imbrium on the Moon. Earth and Planetary Science Letters, 1982, 58, 104-115.	1.8	14
44	Thermal and mechanical evolution of shear zones. Journal of Structural Geology, 1980, 2, 159-164.	1.0	152
45	Shear deformation zones along major transform faults and subducting slabs. Geophysical Journal International, 1978, 54, 93-119.	1.0	173