Gabi Laske

List of Publications by Citations

47 papers	3,572 citations	27 h-index	55 g-index
55 ext. papers	3,949 ext. citations	7.1 avg, IF	5.1 L-index

#	Paper	IF	Citations
47	CRUST 5.1: A global crustal model at 5°×5°. *Journal of Geophysical Research*, **1998**, 103, 727-747		738
46	The relative behavior of shear velocity, bulk sound speed, and compressional velocity in the mantle: Implications for chemical and thermal structure. *Geophysical Monograph Series*, **2000**, 63-87	1.1	353
45	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. *Nature*, **2013**, 503, 238-41	50.4	275
44	Shear and compressional velocity models of the mantle from cluster analysis of long-period waveforms. *Geophysical Journal International*, **2008**, 174, 195-212	2.6	218
43	LITHO1.0: An updated crust and lithospheric model of the Earth. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 2153-2173	3.6	195
42	Earth's free oscillations excited by the 26 December 2004 Sumatra-Andaman earthquake. *Science*, **2005**, 308, 1139-44	33.3	178
41	Mantle shear-wave velocity structure beneath the Hawaiian hot spot. *Science*, **2009**, 326, 1388-90	33.3	153
40	Constraints on global phase velocity maps from long-period polarization data. *Journal of Geophysical Research*, **1996**, 101, 16059-16075		151
39	Limits on differential rotation of the inner core from an analysis of the Earth's free oscillations. *Nature*, **1999**, 402, 66-69	50.4	114
38	Global upper-mantle structure from finite-frequency surface-wave tomography. *Journal of Geophysical Research*, **2006**, 111,		99
37	The global seismographic network surpasses its design goal. *Eos*, **2004**, 85, 225	1.5	93
36	Global observation of off-great-circle propagation of Long-Period surface waves. *Geophysical Journal International*, **1995**, 123, 245-259	2.6	87
35	Finite-frequency effects in global surface-wave tomography. *Geophysical Journal International*, **2005**, 163, 1087-1111	2.6	71
34	Underplating of the Hawaiian Swell: evidence from teleseismic receiver functions. *Geophysical Journal International*, **2010**, 183, 313-329	2.6	65
33	Surface-wave polarization data and global anisotropic structure. *Geophysical Journal International*, **1998**, 132, 508-520	2.6	62
32	Seismic imaging of melt in a displaced Hawaiian plume. *Nature Geoscience*, **2013**, 6, 657-660	18.3	60
31	Mantle P-wave velocity structure beneath the Hawaiian hotspot. *Earth and Planetary Science Letters* , **2011**, 303, 267-280	5.3	58

30	Anatomy of the Dead Sea Transform from lithospheric to microscopic scale. *Reviews of Geophysics*, **2009**, 47,	23.1	49
29	Observation of Coriolis coupled modes below 1 mHz. *Geophysical Journal International*, **2000**, 143, 113-118	2.6	45
28	Matrix autoregressive analysis of free-oscillation coupling and splitting. *Geophysical Journal International*, **2000**, 143, 478-489	2.6	43
27	Structure of North American mantle constrained by simultaneous inversion of multiple-frequency SH, SS, and Love waves. *Journal of Geophysical Research*, **2011**, 116,		42
26	Asymmetric shallow mantle structure beneath the Hawaiian Swell-evidence from Rayleigh waves recorded by the PLUME network. *Geophysical Journal International*, **2011**, 187, 1725-1742	2.6	38
25	Frequency-dependent polarization measurements of long-period surface waves and their implications for global phase-velocity maps. *Physics of the Earth and Planetary Interiors*, **1994**, 84, 111-137	2.3	36
24	Probing the Hawaiian Hot Spot With New Broadband Ocean Bottom Instruments. *Eos*, **2009**, 90, 362-363	1.5	30
23	First results from the Hawaiian SWELL Pilot Experiment. *Geophysical Research Letters*, **1999**, 26, 3397-3400	4.9	29
22	A comprehensive dispersion model of surface wave phase and group velocity for the globe. *Geophysical Journal International*, **2014**, 199, 113-135	2.6	28
21	Autoregressive estimation of the splitting matrix of free-oscillation multiplets. *Geophysical Journal International*, **2000**, 141, 25-42	2.6	28
20	Ocean-Bottom Seismometer Instrument Orientations via Automated Rayleigh-Wave Arrival-Angle Measurements. *Bulletin of the Seismological Society of America*, **2017**, 107, 691-708	2.3	27
19	Shear wave splitting at the Hawaiian hot spot from the PLUME land and ocean bottom seismometer deployments. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	23
18	Mapping the mantle transition zone beneath Hawaii from Ps receiver functions: Evidence for a hot plume and cold mantle downwellings. *Earth and Planetary Science Letters*, **2017**, 474, 226-236	5.3	22
17	The Earthâs free oscillations and the differential rotation of the inner core. *Geodynamic Series*, **2003**, 5-21		19
16	The character of seafloor ambient noise recorded offshore New Zealand: Results from the MOANA ocean bottom seismic experiment. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	18
15	An ocean bottom seismic observatory with near real-time telemetry. *Earth and Space Science*, **2016**, 3, 68-77	3.1	16
14	Theory and Observations: Normal Mode and Surface Wave Observations **2015**, 117-167		14
13	Seismic Structure of Marine Sediments and Upper Oceanic Crust Surrounding Hawaii. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 2038-2056	3.6	13

12	Infragravity waves and horizontal seafloor compliance. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 260-278	3.6	13
11	Glaciohydraulic seismic tremors on an Alpine glacier. *Cryosphere*, **2020**, 14, 287-308	5.5	12
10	The Hawaiian SWELL pilot experiment Evidence for lithosphere rejuvenation from ocean bottom surface wave data **2007**, 209-233		11
9	Effects of crystal preferred orientation on upper-mantle flow near plate boundaries: rheologic feedbacks and seismic anisotropy. *Geophysical Journal International*, **2017**, 210, 1481-1493	2.6	10
8	Crevasse-induced Rayleigh-wave azimuthal anisotropy on Glacier de la Plaine Morte, Switzerland. *Annals of Glaciology*, **2019**, 60, 96-111	2.5	8
7	D? observations in the Pacific from PLUME ocean bottom seismometer recordings. *Geophysical Journal International*, **2015**, 200, 851-862	2.6	8
6	Theory and Observations Normal Modes and Surface Wave Measurements **2007**, 67-125		4
5	Testing group velocity maps for Eurasia. *Geophysical Journal International*, **2002**, 150, 639-650	2.6	4
4	Surface wave waveform anomalies at the Saudi Seismic Network. *Geophysical Research Letters*, **2001**, 28, 4383-4386	4.9	4
3	Calibration of Differential Pressure Gauges Through In Situ Testing. *Earth and Space Science*, **2019**, 6, 2663-2670	3.1	4
2	Probabilistic estimation of structure coefficients and their uncertainties, for inner-core sensitive modes, using matrix autoregression. *Geophysical Journal International*, **2020**, 221, 1366-1383	2.6	2
1	Melt-affected ocean crust and uppermost mantle near Hawaii lues from ambient-noise phase velocity and seafloor compliance. *Geophysical Journal International*, **2020**, 224, 843-857	2.6	1