

Suzan van der Lee

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76 papers	3,782 citations	32 h-index	61 g-index
88 ext. papers	4,069 ext. citations	4.3 avg, IF	5.4 L-index

#	Paper	IF	Citations
76	Travel-time tomography of the European-Mediterranean mantle down to 1400 km. <i>Physics of the Earth and Planetary Interiors</i> , 1993 , 79, 3-74	2.3	418
75	Upper mantle S velocity structure of North America. <i>Journal of Geophysical Research</i> , 1997 , 102, 22815-22838		296
74	Tectospheric structure beneath southern Africa. <i>Geophysical Research Letters</i> , 2001 , 28, 2485-2488	4.9	248
73	Thermal structure of the North American uppermost mantle inferred from seismic tomography. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 2-1		212
72	Mantle plumes and associated flow beneath Arabia and East Africa. <i>Earth and Planetary Science Letters</i> , 2011 , 302, 448-454	5.3	155
71	Seismic evidence for water deep in Earth's upper mantle. <i>Science</i> , 2003 , 300, 1556-8	33.3	138
70	Chemical weathering in the Upper Huang He (Yellow River) draining the eastern Qinghai-Tibet Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5279-5294	5.5	131
69	Mantle seismic structure beneath the Kaapvaal and Zimbabwe Cratons. <i>South African Journal of Geology</i> , 2004 , 107, 33-44	1.6	119
68	Upper mantle structure of South America from joint inversion of waveforms and fundamental mode group velocities of Rayleigh waves. <i>Journal of Geophysical Research</i> , 2007 , 112,		114
67	Seismic image of the subducted trailing fragments of the Farallon plate. <i>Nature</i> , 1997 , 386, 266-269	50.4	102
66	Upper mantle structure beneath the Azores hotspot from finite-frequency seismic tomography. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 11-26	5.3	98
65	The role of water in connecting past and future episodes of subduction. <i>Earth and Planetary Science Letters</i> , 2008 , 273, 15-27	5.3	88
64	Crustal structure beneath broad-band seismic stations in the Mediterranean region. <i>Geophysical Journal International</i> , 2003 , 152, 729-739	2.6	81
63	Rayleigh-wave tomography of the Ontong-Java Plateau. <i>Physics of the Earth and Planetary Interiors</i> , 2000 , 118, 29-51	2.3	81
62	S velocity variations beneath North America. <i>Journal of Geophysical Research</i> , 2009 , 114,		80
61	Group-velocity tomography and lithospheric S-velocity structure of the South American continent. <i>Physics of the Earth and Planetary Interiors</i> , 2004 , 147, 315-331	2.3	71
60	Three-dimensional upper-mantle S-velocity model for the Eurasia-Africa plate boundary region. <i>Geophysical Journal International</i> , 2004 , 158, 109-130	2.6	66

59	Joint inversion of local, regional and teleseismic data for crustal thickness in the Eurasia-Africa plate boundary region. <i>Geophysical Journal International</i> , 2003 , 154, 499-514	2.6	65
58	High-resolution estimates of lithospheric thickness from Missouri to Massachusetts, USA. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 15-23	5.3	65
57	Moho map of South America from receiver functions and surface waves. <i>Journal of Geophysical Research</i> , 2010 , 115,		61
56	Mantle flow beneath Arabia offset from the opening Red Sea. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	59
55	Surface wave tomography applied to the North American upper mantle. <i>Geophysical Monograph Series</i> , 2005 , 67-80	1.1	59
54	Delay times and shear wave splitting in the Mediterranean region. <i>Geophysical Journal International</i> , 2004 , 159, 275-290	2.6	58
53	Crust and upper mantle discontinuity structure beneath eastern North America. <i>Journal of Geophysical Research</i> , 2002 , 107, ESE 7-1		55
52	Joint inversion for three-dimensional S velocity mantle structure along the Tethyan margin. <i>Journal of Geophysical Research</i> , 2010 , 115,		52
51	Variability of P660s phases as a consequence of topography of the 660 km discontinuity. <i>Physics of the Earth and Planetary Interiors</i> , 1994 , 86, 147-164	2.3	49
50	Fate of the Cenozoic Farallon slab from a comparison of kinematic thermal modeling with tomographic images. <i>Earth and Planetary Science Letters</i> , 2002 , 204, 17-32	5.3	48
49	Three-dimensional S velocity of the mantle in the Africa-Eurasia plate boundary region from phase arrival times and regional waveforms. <i>Journal of Geophysical Research</i> , 2008 , 113,		45
48	Seismic discontinuities in the Mediterranean mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 148, 233-250	2.3	43
47	Upper mantle S velocity structure of central and western South America. <i>Journal of Geophysical Research</i> , 2001 , 106, 30821-30834		43
46	AIMBAT: A Python/Matplotlib Tool for Measuring Teleseismic Arrival Times. <i>Seismological Research Letters</i> , 2013 , 84, 85-93	3	40
45	Seasonal and Diurnal Variations in Long-Period Noise at SPREE Stations: The Influence of Soil Characteristics on Shallow Stations Performance. <i>Bulletin of the Seismological Society of America</i> , 2015 , 105, 2433-2452	2.3	38
44	Eurasia-Africa Plate Boundary region yields new seismographic data. <i>Eos</i> , 2001 , 82, 637-637	1.5	27
43	Multiarray rupture imaging of the devastating 2015 Gorkha, Nepal, earthquake sequence. <i>Geophysical Research Letters</i> , 2016 , 43, 584-591	4.9	26
42	Modification of continental lithosphere by tectonic processes: A tomographic image of central North America. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1051-1066	3.6	25

41	Effect of Water on the Sound Velocities of Ringwoodite in the Transition Zone. <i>Geophysical Monograph Series</i> , 2013 , 131-145	1.1	24
40	Lithospheric thickness, thinning, subduction, and interaction with the asthenosphere beneath China from the joint inversion of seismic S-wave train fits and Rayleigh-wave dispersion curves. <i>Lithos</i> , 2010 , 120, 116-130	2.9	24
39	Distinct crustal structure of the North American Midcontinent Rift from P wave receiver functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8136-8153	3.6	23
38	Upper-mantle seismic anisotropy from SKS splitting in the South American stable platform: A test of asthenospheric flow models beneath the lithosphere. <i>Lithosphere</i> , 2011 , 3, 173-180	2.7	22
37	Imaging the Galápagos mantle plume with an unconventional application of floating seismometers. <i>Scientific Reports</i> , 2019 , 9, 1326	4.9	21
36	Influence of Water on Major Phase Transitions in the Earth's Mantle. <i>Geophysical Monograph Series</i> , 2013 , 95-111	1.1	21
35	Seismic Evidence for Subduction-Transported Water in the Lower Mantle. <i>Geophysical Monograph Series</i> , 2013 , 251-261	1.1	20
34	Fossil flat-slab subduction beneath the Illinois basin, USA. <i>Tectonophysics</i> , 2006 , 424, 53-68	3.1	20
33	Correlated shear and bulk moduli to 1400 km beneath the Mediterranean region. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 159, 213-224	2.3	19
32	Geology. Deep below North America. <i>Science</i> , 2001 , 294, 1297-8	33.3	17
31	. <i>Geophysical Monograph Series</i> , 2006 ,	1.1	17
30	Towards Mapping the Three-Dimensional Distribution of Water in the Transition Zone from P-Velocity Tomography and 660-Km Discontinuity Depths. <i>Geophysical Monograph Series</i> , 2013 , 237-249	1.1	14
29	Radial anisotropy along the Tethyan margin. <i>Geophysical Journal International</i> , 2010 , 182, 1013-1024	2.6	14
28	Observations and origin of Rayleigh-wave amplitude anomalies. <i>Geophysical Journal International</i> , 1998 , 135, 691-699	2.6	13
27	A Water-Rich Transition Zone Beneath the Eastern United States and Gulf of Mexico from Multiple ScS Reverberations. <i>Geophysical Monograph Series</i> , 2013 , 181-193	1.1	12
26	HyMaTZ: A Python Program for Modeling Seismic Velocities in Hydrous Regions of the Mantle Transition Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 2308-2324	3.6	11
25	Observed and predicted North American teleseismic delay times. <i>Earth and Planetary Science Letters</i> , 2014 , 402, 6-15	5.3	11
24	Temporal variation of tectonic tremor activity in southern Taiwan around the 2010 ML6.4 Jiashian earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 5417-5434	3.6	11

23	P Wave Teleseismic Traveltime Tomography of the North American Midcontinent. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 1725-1742	3.6	10
22	Towards Mapping the Three-Dimensional Distribution of Water in the Upper Mantle from Velocity and Attenuation Tomography. <i>Geophysical Monograph Series</i> , 2013 , 225-236	1.1	10
21	The Transition-Zone Water Filter Model for Global Material Circulation: Where Do We Stand?. <i>Geophysical Monograph Series</i> , 2013 , 289-313	1.1	10
20	Influence of observed mantle anisotropy on isotropic tomographic models. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	10
19	Implications of Subduction Rehydration for Earth's Deep Water Cycle. <i>Geophysical Monograph Series</i> , 2013 , 263-276	1.1	9
18	Shallow anisotropy in the Mediterranean mantle from surface waves. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	9
17	Anisotropic zonation in the lithosphere of Central North America: Influence of a strong cratonic lithosphere on the Mid-Continent Rift. <i>Tectonophysics</i> , 2016 , 683, 367-381	3.1	8
16	Low Velocity Zone Atop the Transition Zone in the Western US from S Waveform TriPLICATION. <i>Geophysical Monograph Series</i> , 2013 , 195-213	1.1	6
15	Seismic Imaging of the North American Midcontinent Rift Using -to- Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 7791-7805	3.6	6
14	Seismological Constraints on Earth's Deep Water Cycle. <i>Geophysical Monograph Series</i> , 2013 , 13-27	1.1	5
13	Petrologic Structure of a Hydrous 410 Km Discontinuity. <i>Geophysical Monograph Series</i> , 2013 , 277-287	1.1	5
12	Using Seismic Source Parameters to Model Frequency-Dependent Surface-Wave Radiation Patterns. <i>Seismological Research Letters</i> , 2020 , 91, 992-1002	3	5
11	Mantle Transition Zone Thickness in the Central South-American Subduction Zone. <i>Geophysical Monograph Series</i> , 2013 , 215-224	1.1	4
10	Automating the Detection of Dynamically Triggered Earthquakes via a Deep Metric Learning Algorithm. <i>Seismological Research Letters</i> , 2020 , 91, 901-912	3	3
9	Synthesizing EarthScope data to constrain the thermal evolution of the continental U.S. lithosphere 2019 , 15, 1722-1737		3
8	A new P-velocity model for the Tethyan margin from a scaled S-velocity model and the inversion of P- and PKP-delay times. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 210-211, 1-7	2.3	2
7	Altered Mantle Fabric Beneath the Mid-Continent Rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC010012	3.6	2
6	Continental Tectonics Inferred From High-Resolution Imaging of the Mantle Beneath the United States, Through the Combination of USArray Data Types. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009674	3.6	1

- 5 ROSES: Remote Online Sessions for Emerging Seismologists. *Seismological Research Letters*, **2021**, 92, 2657-2667 3 1
- 4 S Velocity Model of East Asia From a Cluster Analysis of Localized Dispersion. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 9712-9732 3.6 1
- 3 Validation of Regional Travel-Time Predictions along the Tethyan Margin for Three P-Velocity Models Built with Different Approaches. *Bulletin of the Seismological Society of America*, **2014**, 104, 1525-1532^{2,3} 1.332 0
- 2 SphGLLTools: A toolbox for visualization of large seismic model files based on 3D spectral-element meshes. *Computers and Geosciences*, **2022**, 159, 105007 4.5 0
- 1 Region-related features of crustal and upper-mantle velocity structure of the Chinese mainland detected by surface waveform modeling. *Acta Seismologica Sinica*, **2008**, 21, 118-126