Suzan van der Lee

List of Publications by Year in Descending Order

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	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
75	Continental Tectonics Inferred From High-Resolution Imaging of the Mantle Beneath the United States, Through the Combination of USArray Data Types. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC009674	3.6	1
74	ROSES: Remote Online Sessions for Emerging Seismologists. *Seismological Research Letters*, **2021**, 92, 2657-2667	3	1
73	Altered Mantle Fabric Beneath the Mid-Continent Rift. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC010012	3.6	2
72	Automating the Detection of Dynamically Triggered Earthquakes via a Deep Metric Learning Algorithm. *Seismological Research Letters*, **2020**, 91, 901-912	3	3
71	Using Seismic Source Parameters to Model Frequency-Dependent Surface-Wave Radiation Patterns. *Seismological Research Letters*, **2020**, 91, 992-1002	3	5
70	P Wave Teleseismic Traveltime Tomography of the North American Midcontinent. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 1725-1742	3.6	10
69	Imaging the Galapagos mantle plume with an unconventional application of floating seismometers. *Scientific Reports*, **2019**, 9, 1326	4.9	21
68	Synthesizing EarthScope data to constrain the thermal evolution of the continental U.S. lithosphere **2019**, 15, 1722-1737		3
67	HyMaTZ: A Python Program for Modeling Seismic Velocities in Hydrous Regions of the Mantle Transition Zone. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 2308-2324	3.6	11
66	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
65	Seismic Imaging of the North American Midcontinent Rift Using -to- Receiver Functions. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 7791-7805	3.6	6
64	Temporal variation of tectonic tremor activity in southern Taiwan around the 2010 ML6.4 Jiashian earthquake. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 5417-5434	3.6	11
63	Distinct crustal structure of the North American Midcontinent Rift from P wave receiver functions. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 8136-8153	3.6	23
62	Multiarray rupture imaging of the devastating 2015 Gorkha, Nepal, earthquake sequence. *Geophysical Research Letters*, **2016**, 43, 584-591	4.9	26
61	Anisotropic zonation in the lithosphere of Central North America: Influence of a strong cratonic lithosphere on the Mid-Continent Rift. *Tectonophysics*, **2016**, 683, 367-381	3.1	8
60	Seasonal and Diurnal Variations in Long-Period Noise at SPREE Stations: The Influence of Soil Characteristics on Shallow Stations Performance. *Bulletin of the Seismological Society of America*, **2015**, 105, 2433-2452	2.3	38

59	Observed and predicted North American teleseismic delay times. *Earth and Planetary Science Letters*, **2014**, 402, 6-15	5.3	11
58	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	0
57	Seismological Constraints on Earth's Deep Water Cycle. *Geophysical Monograph Series*, **2013**, 13-27	1.1	5
56	Effect of Water on the Sound Velocities of Ringwoodite in the Transition Zone. *Geophysical Monograph Series*, **2013**, 131-145	1.1	24
55	A Water-Rich Transition Zone Beneath the Eastern United States and Gulf of Mexico from Multiple ScS Reverberations. *Geophysical Monograph Series*, **2013**, 181-193	1.1	12
54	Mantle Transition Zone Thickness in the Central South-American Subduction Zone. *Geophysical Monograph Series*, **2013**, 215-224	1.1	4
53	Low Velocity Zone Atop the Transition Zone in the Western US from S Waveform Triplication. *Geophysical Monograph Series*, **2013**, 195-213	1.1	6
52	Towards Mapping the Three-Dimensional Distribution of Water in the Upper Mantle from Velocity and Attenuation Tomography. *Geophysical Monograph Series*, **2013**, 225-236	1.1	10
51	Towards Mapping the Three-Dimensional Distribution of Water in the Transition Zone from P-Velocity Tomography and 660-Km Discontinuity Depths. *Geophysical Monograph Series*, **2013**, 237-249	1.1	14
50	Petrologic Structure of a Hydrous 410 Km Discontinuity. *Geophysical Monograph Series*, **2013**, 277-287	1.1	5
49	Seismic Evidence for Subduction-Transported Water in the Lower Mantle. *Geophysical Monograph Series*, **2013**, 251-261	1.1	20
48	Implications of Subduction Rehydration for Earth's Deep Water Cycle. *Geophysical Monograph Series* , **2013**, 263-276	1.1	9
47	The Transition-Zone Water Filter Model for Global Material Circulation: Where Do We Stand?. *Geophysical Monograph Series*, **2013**, 289-313	1.1	10
46	AIMBAT: A Python/Matplotlib Tool for Measuring Teleseismic Arrival Times. *Seismological Research Letters*, **2013**, 84, 85-93	3	40
45	Influence of Water on Major Phase Transitions in the Earth's Mantle. *Geophysical Monograph Series*, **2013**, 95-111	1.1	21
44	Modification of continental lithosphere by tectonic processes: A tomographic image of central North America. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 1051-1066	3.6	25
43	A new P-velocity model for the Tethyan margin from a scaled S-velocity model and the inversion of P- and PKP-delay times. *Physics of the Earth and Planetary Interiors*, **2012**, 210-211, 1-7	2.3	2
42	Mantle flow beneath Arabia offset from the opening Red Sea. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	59

41	Mantle plumes and associated flow beneath Arabia and East Africa. *Earth and Planetary Science Letters*, **2011**, 302, 448-454	5.3	155
40	Upper-mantle seismic anisotropy from SKS splitting in the South American stable platform: A test of asthenospheric flow models beneath the lithosphere. *Lithosphere*, **2011**, 3, 173-180	2.7	22
39	Radial anisotropy along the Tethyan margin. *Geophysical Journal International*, **2010**, 182, 1013-1024	2.6	14
38	Moho map of South America from receiver functions and surface waves. *Journal of Geophysical Research*, **2010**, 115,		61
37	Joint inversion for three-dimensional S velocity mantle structure along the Tethyan margin. *Journal of Geophysical Research*, **2010**, 115,		52
36	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. *Lithos*, **2010**, 120, 116-130	2.9	24
35	S velocity variations beneath North America. *Journal of Geophysical Research*, **2009**, 114,		80
34	Three-dimensional S velocity of the mantle in the Africa-Eurasia plate boundary region from phase arrival times and regional waveforms. *Journal of Geophysical Research*, **2008**, 113,		45
33	Influence of observed mantle anisotropy on isotropic tomographic models. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	10
32	The role of water in connecting past and future episodes of subduction. *Earth and Planetary Science Letters*, **2008**, 273, 15-27	5.3	88
31	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		
30	Upper mantle structure of South America from joint inversion of waveforms and fundamental mode group velocities of Rayleigh waves. *Journal of Geophysical Research*, **2007**, 112,		114
29	Upper mantle structure beneath the Azores hotspot from finite-frequency seismic tomography. *Earth and Planetary Science Letters*, **2006**, 250, 11-26	5.3	98
28	Correlated shear and bulk moduli to 1400 km beneath the Mediterranean region. *Physics of the Earth and Planetary Interiors*, **2006**, 159, 213-224	2.3	19
27	Fossil flat-slab subduction beneath the Illinois basin, USA. *Tectonophysics*, **2006**, 424, 53-68	3.1	20
26	. *Geophysical Monograph Series*, **2006**,	1.1	17
25	Chemical weathering in the Upper Huang He (Yellow River) draining the eastern Qinghai-Tibet Plateau. *Geochimica Et Cosmochimica Acta*, **2005**, 69, 5279-5294	5.5	131
24	Seismic discontinuities in the Mediterranean mantle. *Physics of the Earth and Planetary Interiors*, **2005**, 148, 233-250	2.3	43

23	Surface wave tomography applied to the North American upper mantle. *Geophysical Monograph Series*, **2005**, 67-80	1.1	59
22	Mantle seismic structure beneath the Kaapvaal and Zimbabwe Cratons. *South African Journal of Geology*, **2004**, 107, 33-44	1.6	119
21	Three-dimensional upper-mantleS-velocity model for the Eurasia-Africa plate boundary region. *Geophysical Journal International*, **2004**, 158, 109-130	2.6	66
20	Delay times and shear wave splitting in the Mediterranean region. *Geophysical Journal International* , **2004**, 159, 275-290	2.6	58
19	Shallow anisotropy in the Mediterranean mantle from surface waves. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	9
18	Group-velocity tomography and lithospheric S-velocity structure of the South American continent. *Physics of the Earth and Planetary Interiors*, **2004**, 147, 315-331	2.3	71
17	Crustal structure beneath broad-band seismic stations in the Mediterranean region. *Geophysical Journal International*, **2003**, 152, 729-739	2.6	81
16	Joint inversion of local, regional and teleseismic data for crustal thickness in the Eurasia-Africa plate boundary region. *Geophysical Journal International*, **2003**, 154, 499-514	2.6	65
15	Seismic evidence for water deep in Earth's upper mantle. *Science*, **2003**, 300, 1556-8	33.3	138
14	Crust and upper mantle discontinuity structure beneath eastern North America. *Journal of Geophysical Research*, **2002**, 107, ESE 7-1		55
13	High-resolution estimates of lithospheric thickness from Missouri to Massachusetts, USA. *Earth and Planetary Science Letters*, **2002**, 203, 15-23	5.3	65
12	Fate of the Cenozoic Farallon slab from a comparison of kinematic thermal modeling with tomographic images. *Earth and Planetary Science Letters*, **2002**, 204, 17-32	5.3	48
11	Thermal structure of the North American uppermost mantle inferred from seismic tomography. *Journal of Geophysical Research*, **2002**, 107, ETG 2-1		212
10	Geology. Deep below North America. *Science*, **2001**, 294, 1297-8	33.3	17
9	Eurasia-Africa Plate Boundary region yields new seismographic data. *Eos*, **2001**, 82, 637-637	1.5	27
8	Upper mantle S velocity structure of central and western South America. *Journal of Geophysical Research*, **2001**, 106, 30821-30834		43
7	Tectospheric structure beneath southern Africa. *Geophysical Research Letters*, **2001**, 28, 2485-2488	4.9	248
6	Rayleigh wave tomography of the Ontong Java Plateau. *Physics of the Earth and Planetary Interiors* , **2000**, 118, 29-51	2.3	81

5	Observations and origin of Rayleigh-wave amplitude anomalies. *Geophysical Journal International*, **1998**, 135, 691-699	2.6	13
4	Upper mantle S velocity structure of North America. *Journal of Geophysical Research*, **1997**, 102, 22815-22838		296
3	Seismic image of the subducted trailing fragments of the Farallon plate. *Nature*, **1997**, 386, 266-269	50.4	102
2	Variability of P660s phases as a consequence of topography of the 660 km discontinuity. *Physics of the Earth and Planetary Interiors*, **1994**, 86, 147-164	2.3	49
1	Travel-time tomography of the European-Mediterranean mantle down to 1400 km. *Physics of the Earth and Planetary Interiors*, **1993**, 79, 3-74	2.3	418