

Suzan van der Lee

List of Publications by Year in descending order

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80
papers

4,535
citations

126858

33
h-index

106281

65
g-index

88
all docs

88
docs citations

88
times ranked

3127
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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. | 0.7 | 460 |
| 2 | Upper mantle S-velocity structure of North America. <i>Journal of Geophysical Research</i> , 1997, 102, 22815-22838. | 3.3 | 335 |
| 3 | Tectospheric structure beneath southern Africa. <i>Geophysical Research Letters</i> , 2001, 28, 2485-2488. | 1.5 | 310 |
| 4 | Thermal structure of the North American uppermost mantle inferred from seismic tomography. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 2-1. | 3.3 | 243 |
| 5 | Mantle plumes and associated flow beneath Arabia and East Africa. <i>Earth and Planetary Science Letters</i> , 2011, 302, 448-454. | 1.8 | 182 |
| 6 | Seismic Evidence for Water Deep in Earth's Upper Mantle. <i>Science</i> , 2003, 300, 1556-1558. | 6.0 | 156 |
| 7 | Mantle seismic structure beneath the Kaapvaal and Zimbabwe Cratons. <i>South African Journal of Geology</i> , 2004, 107, 33-44. | 0.6 | 151 |
| 8 | 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. | 1.6 | 151 |
| 9 | 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, . | 3.3 | 140 |
| 10 | Seismic image of the subducted trailing fragments of the Farallon plate. <i>Nature</i> , 1997, 386, 266-269. | 13.7 | 125 |
| 11 | Upper mantle structure beneath the Azores hotspot from finite-frequency seismic tomography. <i>Earth and Planetary Science Letters</i> , 2006, 250, 11-26. | 1.8 | 116 |
| 12 | The role of water in connecting past and future episodes of subduction. <i>Earth and Planetary Science Letters</i> , 2008, 273, 15-27. | 1.8 | 103 |
| 13 | Rayleigh wave tomography of the Ontong Java Plateau. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 118, 29-51. | 0.7 | 96 |
| 14 | S-velocity variations beneath North America. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 96 |
| 15 | Crustal structure beneath broad-band seismic stations in the Mediterranean region. <i>Geophysical Journal International</i> , 2003, 152, 729-739. | 1.0 | 91 |
| 16 | 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. | 0.7 | 86 |
| 17 | Mantle flow beneath Arabia offset from the opening Red Sea. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 1.5 | 84 |
| 18 | Three-dimensional upper-mantle S-velocity model for the Eurasia-Africa plate boundary region. <i>Geophysical Journal International</i> , 2004, 158, 109-130. | 1.0 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Surface wave tomography applied to the North American upper mantle. <i>Geophysical Monograph Series</i> , 2005, , 67-80. | 0.1 | 76 |
| 20 | Moho map of South America from receiver functions and surface waves. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 73 |
| 21 | High-resolution estimates of lithospheric thickness from Missouri to Massachusetts, USA. <i>Earth and Planetary Science Letters</i> , 2002, 203, 15-23. | 1.8 | 72 |
| 22 | 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. | 1.0 | 72 |
| 23 | AIMBAT: A Python/Matplotlib Tool for Measuring Teleseismic Arrival Times. <i>Seismological Research Letters</i> , 2013, 84, 85-93. | 0.8 | 61 |
| 24 | Joint inversion for three-dimensional <i>S</i> velocity mantle structure along the Tethyan margin. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 60 |
| 25 | Delay times and shear wave splitting in the Mediterranean region. <i>Geophysical Journal International</i> , 2004, 159, 275-290. | 1.0 | 59 |
| 26 | Crust and upper mantle discontinuity structure beneath eastern North America. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 7-1. | 3.3 | 56 |
| 27 | 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. | 1.8 | 54 |
| 28 | 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. | 0.7 | 51 |
| 29 | Upper mantle velocity structure of central and western South America. <i>Journal of Geophysical Research</i> , 2001, 106, 30821-30834. | 3.3 | 50 |
| 30 | Seismic discontinuities in the Mediterranean mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 148, 233-250. | 0.7 | 46 |
| 31 | Three-dimensional <i>S</i> 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, . | 3.3 | 46 |
| 32 | 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. | 1.1 | 45 |
| 33 | Multiarray rupture imaging of the devastating 2015 Gorkha, Nepal, earthquake sequence. <i>Geophysical Research Letters</i> , 2016, 43, 584-591. | 1.5 | 34 |
| 34 | Imaging the Galápagos mantle plume with an unconventional application of floating seismometers. <i>Scientific Reports</i> , 2019, 9, 1326. | 1.6 | 33 |
| 35 | Distinct crustal structure of the North American Midcontinent Rift from <i>P</i> wave receiver functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8136-8153. | 1.4 | 32 |
| 36 | Effect of Water on the Sound Velocities of Ringwoodite in the Transition Zone. <i>Geophysical Monograph Series</i> , 0, , 131-145. | 0.1 | 31 |

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|----|---|-----|-----------|
| 37 | Earth's Deep Water Cycle. Geophysical Monograph Series, 2006, , . | 0.1 | 31 |
| 38 | Eurasia-Africa plate boundary region yields new seismographic data. Eos, 2001, 82, 637-637. | 0.1 | 28 |
| 39 | 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. | 0.6 | 27 |
| 40 | Influence of Water on Major Phase Transitions in the Earth's Mantle. Geophysical Monograph Series, 0, , 95-111. | 0.1 | 27 |
| 41 | Modification of continental lithosphere by tectonic processes: A tomographic image of central North America. Journal of Geophysical Research: Solid Earth, 2013, 118, 1051-1066. | 1.4 | 27 |
| 42 | 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. | 0.6 | 25 |
| 43 | Seismic Evidence for Subduction-Transported Water in the Lower Mantle. Geophysical Monograph Series, 2013, , 251-261. | 0.1 | 25 |
| 44 | 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. | 0.1 | 23 |
| 45 | GEOLOGY: Deep Below North America. Science, 2001, 294, 1297-1298. | 6.0 | 22 |
| 46 | Fossil flat-slab subduction beneath the Illinois basin, USA. Tectonophysics, 2006, 424, 53-68. | 0.9 | 21 |
| 47 | Correlated shear and bulk moduli to 1400 km beneath the Mediterranean region. Physics of the Earth and Planetary Interiors, 2006, 159, 213-224. | 0.7 | 20 |
| 48 | A Water-Rich Transition Zone Beneath the Eastern United States and Gulf of Mexico from Multiple ScS Reverberations. Geophysical Monograph Series, 0, , 181-193. | 0.1 | 20 |
| 49 | Towards Mapping the Three-Dimensional Distribution of Water in the Upper Mantle from Velocity and Attenuation Tomography. Geophysical Monograph Series, 2013, , 225-236. | 0.1 | 20 |
| 50 | The Transition-Zone Water Filter Model for Global Material Circulation: Where Do We Stand?. Geophysical Monograph Series, 0, , 289-313. | 0.1 | 19 |
| 51 | Influence of observed mantle anisotropy on isotropic tomographic models. Geochemistry, Geophysics, Geosystems, 2008, 9, . | 1.0 | 17 |
| 52 | Temporal variation of tectonic tremor activity in southern Taiwan around the 2010 M _L 6.4 Jiashian earthquake. Journal of Geophysical Research: Solid Earth, 2017, 122, 5417-5434. | 1.4 | 17 |
| 53 | Observations and origin of Rayleigh-wave amplitude anomalies. Geophysical Journal International, 1998, 135, 691-699. | 1.0 | 16 |
| 54 | Radial anisotropy along the Tethyan margin. Geophysical Journal International, 0, 182, 1013-1024. | 1.0 | 16 |

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|----|---|-----|-----------|
| 55 | 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. | 1.0 | 16 |
| 56 | Implications of Subduction Rehydration for Earth's Deep Water Cycle. <i>Geophysical Monograph Series</i> , 2013, , 263-276. | 0.1 | 15 |
| 57 | Seismic Imaging of the North American Midcontinent Rift Using <i>S</i> Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7791-7805. | 1.4 | 15 |
| 58 | <i>P</i> Wave Teleseismic Traveltime Tomography of the North American Midcontinent. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1725-1742. | 1.4 | 15 |
| 59 | Observed and predicted North American teleseismic delay times. <i>Earth and Planetary Science Letters</i> , 2014, 402, 6-15. | 1.8 | 11 |
| 60 | Shallow anisotropy in the Mediterranean mantle from surface waves. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 1.5 | 10 |
| 61 | 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. | 0.9 | 10 |
| 62 | Synthesizing EarthScope data to constrain the thermal evolution of the continental U.S. lithosphere. , 2019, 15, 1722-1737. | | 10 |
| 63 | Petrologic Structure of a Hydrous 410 Km Discontinuity. <i>Geophysical Monograph Series</i> , 2013, , 277-287. | 0.1 | 9 |
| 64 | Using Seismic Source Parameters to Model Frequency-Dependent Surface-Wave Radiation Patterns. <i>Seismological Research Letters</i> , 2020, 91, 992-1002. | 0.8 | 9 |
| 65 | Automating the Detection of Dynamically Triggered Earthquakes via a Deep Metric Learning Algorithm. <i>Seismological Research Letters</i> , 2020, 91, 901-912. | 0.8 | 9 |
| 66 | Adjoint Waveform Tomography of South America. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, . | 1.4 | 9 |
| 67 | Seismological Constraints on Earth's Deep Water Cycle. <i>Geophysical Monograph Series</i> , 0, , 13-27. | 0.1 | 8 |
| 68 | Low Velocity Zone Atop the Transition Zone in the Western US from S Waveform TriPLICATION. <i>Geophysical Monograph Series</i> , 2013, , 195-213. | 0.1 | 8 |
| 69 | Mantle Transition Zone Thickness in the Central South-American Subduction Zone. <i>Geophysical Monograph Series</i> , 2013, , 215-224. | 0.1 | 4 |
| 70 | 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. | 0.7 | 3 |
| 71 | Detections of Directional Dynamic Triggering in Intraplate Regions of the United States. <i>Bulletin of the Seismological Society of America</i> , 0, , . | 1.1 | 3 |
| 72 | ROSES: Remote Online Sessions for Emerging Seismologists. <i>Seismological Research Letters</i> , 2021, 92, 2657-2667. | 0.8 | 3 |

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|----|--|-----|-----------|
| 73 | 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. | 1.0 | 3 |
| 74 | SphGLLTools: A toolbox for visualization of large seismic model files based on 3D spectral-element meshes. <i>Computers and Geosciences</i> , 2022, 159, 105007. | 2.0 | 3 |
| 75 | Citizen Scientists Help Detect and Classify Dynamically Triggered Seismic Activity in Alaska. <i>Frontiers in Earth Science</i> , 2020, 8, . | 0.8 | 2 |
| 76 | Altered Mantle Fabric Beneath the Mid-Continent Rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC010012. | 1.0 | 2 |
| 77 | Validation of Regional Travel-Time Predictions along the Tethyan Margin for Three P-Velocity Models Built with Different Approaches. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1525-1532. | 1.1 | 1 |
| 78 | <i>S</i> Velocity Model of East Asia From a Cluster Analysis of Localized Dispersion. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9712-9732. | 1.4 | 1 |
| 79 | Region-related features of crustal and upper-mantle velocity structure of the Chinese mainland detected by surface waveform modeling. <i>Acta Seismologica Sinica</i> , 2008, 21, 118-126. | 0.2 | 0 |
| 80 | Deep Dehydration as a Plausible Mechanism of the 2013 Mw 8.3 Sea of Okhotsk Deep-Focus Earthquake. <i>Frontiers in Earth Science</i> , 2021, 9, . | 0.8 | 0 |