

Vera Schulte-Pelkum

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,184
citations

304743

22
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1889
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging the Indian subcontinent beneath the Himalaya. <i>Nature</i> , 2005, 435, 1222-1225.	27.8	419
2	Joint inversion of surface wave dispersion and receiver functions: a Bayesian Monte-Carlo approach. <i>Geophysical Journal International</i> , 2013, 192, 807-836.	2.4	202
3	A 3D model of the crust and uppermost mantle beneath the Central and Western US by joint inversion of receiver functions and surface wave dispersion. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 262-276.	3.4	189
4	Seismicity and one-dimensional velocity structure of the Himalayan collision zone: Earthquakes in the crust and upper mantle. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	182
5	Statistical properties of seismic anisotropy predicted by upper mantle geodynamic models. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	135
6	A method for mapping crustal deformation and anisotropy with receiver functions and first results from USArray. <i>Earth and Planetary Science Letters</i> , 2014, 402, 221-233.	4.4	113
7	Strong directivity of ocean-generated seismic noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	2.5	88
8	Sequential H-Å Stacking to Obtain Accurate Crustal Thicknesses beneath Sedimentary Basins. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 2142-2150.	2.3	83
9	Mantle flow under the western United States from shear wave splitting. <i>Earth and Planetary Science Letters</i> , 2006, 247, 235-251.	4.4	79
10	Upper mantle anisotropy from long-period Ppolarization. <i>Journal of Geophysical Research</i> , 2001, 106, 21917-21934.	3.3	72
11	A synthesis of seismic P and S anisotropy. <i>Geophysical Journal International</i> , 2003, 154, 166-178.	2.4	51
12	Characteristics of deep crustal seismic anisotropy from a compilation of rock elasticity tensors and their expression in receiver functions. <i>Tectonics</i> , 2017, 36, 1835-1857.	2.8	49
13	Roles of quartz and mica in seismic anisotropy of mylonites. <i>Geophysical Journal International</i> , 2012, 190, 1123-1134.	2.4	44
14	Crustal and uppermost mantle structure in the central U.S. encompassing the Midcontinent Rift. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4325-4344.	3.4	44
15	Shear Velocity Model of Alaska Via Joint Inversion of Rayleigh Wave Ellipticity, Phase Velocities, and Receiver Functions Across the Alaska Transportable Array. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018582.	3.4	41
16	Ten kilometer vertical Moho offset and shallow velocity contrast along the Denali fault zone from double-difference tomography, receiver functions, and fault zone head waves. <i>Tectonophysics</i> , 2017, 721, 56-69.	2.2	40
17	Origins of topography in the western U.S.: Mapping crustal and upper mantle density variations using a uniform seismic velocity model. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2375-2396.	3.4	38
18	Imaging Faults and Shear Zones Using Receiver Functions. <i>Pure and Applied Geophysics</i> , 2014, 171, 2967-2991.	1.9	33

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19	Source modeling of the 2015 Mw 7.8 Nepal (Gorkha) earthquake sequence: Implications for geodynamics and earthquake hazards. <i>Tectonophysics</i> , 2017, 714-715, 21-30.	2.2	32
20	Estimating the Rayleigh-wave impulse response between seismic stations with the cross terms of the Green tensor. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	25
21	The distribution and composition of high-velocity lower crust across the continental U.S.: Comparison of seismic and xenolith data and implications for lithospheric dynamics and history. <i>Tectonics</i> , 2017, 36, 1455-1496.	2.8	25
22	Crustal Deformation in Southern California Constrained by Radial Anisotropy From Ambient Noise Adjoint Tomography. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088580.	4.0	24
23	Matched Field Processing of Three-Component Seismic Array Data Applied to Rayleigh and Love Microseisms. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6871-6889.	3.4	22
24	Mantle earthquakes in the Himalayan collision zone. <i>Geology</i> , 2019, 47, 815-819.	4.4	20
25	Differential motion between upper crust and lithospheric mantle in the central Basin and Range. <i>Nature Geoscience</i> , 2011, 4, 619-623.	12.9	19
26	Apparent Vertical Moho Offsets under Continental Strike-Slip Faults from Lithology Contrasts in the Seismogenic Crust. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 2757-2763.	2.3	17
27	Tectonic Inheritance With Dipping Faults and Deformation Fabric in the Brittle and Ductile Southern California Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019525.	3.4	17
28	Seismic structure and lithospheric rheology from deep crustal xenoliths, central Montana, USA. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	16
29	The competing effects of olivine and orthopyroxene CPO on seismic anisotropy. <i>Tectonophysics</i> , 2021, 814, 228954.	2.2	14
30	Imaging the Tectonic Grain of the Northern Cordillera Orogen Using Transportable Array Receiver Functions. <i>Seismological Research Letters</i> , 2020, 91, 3086-3105.	1.9	12
31	Deep Crustal Faults, Shear Zones, and Magmatism in the Eastern Cordillera of Colombia: Growth of a Plateau From Teleseismic Receiver Function and Geochemical Mio-Pliocene Volcanism Constraints. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9833-9851.	3.4	10
32	Large Teleseismic P Wavefront Deflections Observed with Broadband Arrays. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 747-756.	2.3	7
33	Shallow Crustal Shear Velocity and Vp/Vs Across Southern California: Joint Inversion of Short-Period Rayleigh Wave Ellipticity, Phase Velocity, and Teleseismic Receiver Functions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092626.	4.0	7
34	From Crystals to Crustal-Scale Seismic Anisotropy: Bridging the Gap Between Rocks and Seismic Studies With Digital Geologic Map Data in Colorado. <i>Tectonics</i> , 2022, 41, .	2.8	5
35	Tectonic Fabric in the Banda Arc-Australian Continent Collisional Zone Imaged by Teleseismic Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	5
36	Tectonic Inheritance During Plate Boundary Evolution in Southern California Constrained From Seismic Anisotropy. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC010099.	2.5	3

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37	Passive source seismology of the Rocky Mountain region. Geophysical Monograph Series, 2005, , 309-315.	0.1	1
38	Draining Nevada. Nature Geoscience, 2009, 2, 381-382.	12.9	0