Vera Schulte-Pelkum

List of Publications by Year
in descending order

38 papers	2,184 citations	331259 21 h-index	329751 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. Nature, 2005, 435, 1222-1225.	13.7	419
2	Joint inversion of surface wave dispersion and receiver functions: a Bayesian Monte-Carlo approach. Geophysical Journal International, 2013, 192, 807-836.	1.0	202
3	A 3â€Ð model of the crust and uppermost mantle beneath the Central and Western US by joint inversion of receiver functions and surface wave dispersion. Journal of Geophysical Research: Solid Earth, 2013, 118, 262-276.	1.4	189
4	Seismicity and one-dimensional velocity structure of the Himalayan collision zone: Earthquakes in the crust and upper mantle. Journal of Geophysical Research, 2006, 111, .	3.3	182
5	Statistical properties of seismic anisotropy predicted by upper mantle geodynamic models. Journal of Geophysical Research, 2006, 111, .	3.3	135
6	A method for mapping crustal deformation and anisotropy with receiver functions and first results from USArray. Earth and Planetary Science Letters, 2014, 402, 221-233.	1.8	113
7	Strong directivity of ocean-generated seismic noise. Geochemistry, Geophysics, Geosystems, 2004, 5, .	1.0	88
8	Sequential H-Â Stacking to Obtain Accurate Crustal Thicknesses beneath Sedimentary Basins. Bulletin of the Seismological Society of America, 2013, 103, 2142-2150.	1.1	83
9	Mantle flow under the western United States from shear wave splitting. Earth and Planetary Science Letters, 2006, 247, 235-251.	1.8	79
10	Upper mantle anisotropy from long-periodPpolarization. Journal of Geophysical Research, 2001, 106, 21917-21934.	3.3	72
11	A synthesis of seismicPandSanisotropy. Geophysical Journal International, 2003, 154, 166-178.	1.0	51
12	Characteristics of deep crustal seismic anisotropy from a compilation of rock elasticity tensors and their expression in receiver functions. Tectonics, 2017, 36, 1835-1857.	1.3	49
13	Roles of quartz and mica in seismic anisotropy of mylonites. Geophysical Journal International, 2012, 190, 1123-1134.	1.0	44
14	Crustal and uppermost mantle structure in the central U.S. encompassing the Midcontinent Rift. Journal of Geophysical Research: Solid Earth, 2013, 118, 4325-4344.	1.4	44
15	Shear Velocity Model of Alaska Via Joint Inversion of Rayleigh Wave Ellipticity, Phase Velocities, and Receiver Functions Across the Alaska Transportable Array. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018582.	1.4	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. Tectonophysics, 2017, 721, 56-69.	0.9	40
17	Origins of topography in the western U.S.: Mapping crustal and upper mantle density variations using a uniform seismic velocity model. Journal of Geophysical Research: Solid Earth, 2014, 119, 2375-2396.	1.4	38
18	Imaging Faults and Shear Zones Using Receiver Functions. Pure and Applied Geophysics, 2014, 171, 2967-2991.	0.8	33

#	Article	IF	Citations
19	Source modeling of the 2015 Mw 7.8 Nepal (Gorkha) earthquake sequence: Implications for geodynamics and earthquake hazards. Tectonophysics, 2017, 714-715, 21-30.	0.9	32
20	Estimating the Rayleigh-wave impulse response between seismic stations with the cross terms of the Green tensor. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	25
21	The distribution and composition of highâ€velocity lower crust across the continental U.S.: Comparison of seismic and xenolith data and implications for lithospheric dynamics and history. Tectonics, 2017, 36, 1455-1496.	1.3	25
22	Crustal Deformation in Southern California Constrained by Radial Anisotropy From Ambient Noise Adjoint Tomography. Geophysical Research Letters, 2020, 47, e2020GL088580.	1.5	24
23	Matched Field Processing of Threeâ€Component Seismic Array Data Applied to Rayleigh and Love Microseisms. Journal of Geophysical Research: Solid Earth, 2018, 123, 6871-6889.	1.4	22
24	Mantle earthquakes in the Himalayan collision zone. Geology, 2019, 47, 815-819.	2.0	20
25	Differential motion between upper crust and lithospheric mantle in the central Basin and Range. Nature Geoscience, 2011, 4, 619-623.	5.4	19
26	Apparent Vertical Moho Offsets under Continental Strike-Slip Faults from Lithology Contrasts in the Seismogenic Crust. Bulletin of the Seismological Society of America, 2012, 102, 2757-2763.	1.1	17
27	Tectonic Inheritance With Dipping Faults and Deformation Fabric in the Brittle and Ductile Southern California Crust. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019525.	1.4	17
28	Seismic structure and lithospheric rheology from deep crustal xenoliths, central Montana, USA. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	16
29	The competing effects of olivine and orthopyroxene CPO on seismic anisotropy. Tectonophysics, 2021, 814, 228954.	0.9	14
30	Imaging the Tectonic Grain of the Northern Cordillera Orogen Using Transportable Array Receiver Functions. Seismological Research Letters, 2020, 91, 3086-3105.	0.8	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 Mioâ€Pliocene Volcanism Constraints. Journal of Geophysical Research: Solid Earth, 2019, 124, 9833-9851.	1.4	10
32	Large Teleseismic P Wavefront Deflections Observed with Broadband Arrays. Bulletin of the Seismological Society of America, 2003, 93, 747-756.	1.1	7
33	Shallow Crustal Shear Velocity and Vp/Vs Across Southern California: Joint Inversion of Shortâ€Period Rayleigh Wave Ellipticity, Phase Velocity, and Teleseismic Receiver Functions. Geophysical Research Letters, 2021, 48, e2021GL092626.	1.5	7
34	From Crystals to Crustalâ€Scale Seismic Anisotropy: Bridging the Gap Between Rocks and Seismic Studies With Digital Geologic Map Data in Colorado. Tectonics, 2022, 41, .	1.3	5
35	Tectonic Fabric in the Banda Arcâ€Australian Continent Collisional Zone Imaged by Teleseismic Receiver Functions. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	5
36	Tectonic Inheritance During Plate Boundary Evolution in Southern California Constrained From Seismic Anisotropy. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC010099.	1.0	3

#	Article	IF	Citations
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.	5.4	0