Vera Schulte-Pelkum

List of Publications by Year in Descending Order

35 papers	1,716 citations	19 h-index	40 g-index
40 ext. papers	1,913 ext. citations	5.5 avg, IF	4.78 L-index

#	Paper	IF	Citations
35	Tectonic Inheritance During Plate Boundary Evolution in Southern California Constrained From Seismic Anisotropy. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC010099	3.6	1
34	Shallow Crustal Shear Velocity and Vp/Vs Across Southern California: Joint Inversion of Short-Period Rayleigh Wave Ellipticity, Phase Velocity, and Teleseismic Receiver Functions. *Geophysical Research Letters*, **2021**, 48, e2021GL092626	4.9	0
33	The competing effects of olivine and orthopyroxene CPO on seismic anisotropy. *Tectonophysics*, **2021**, 814, 228954	3.1	2
32	Crustal Deformation in Southern California Constrained by Radial Anisotropy From Ambient Noise Adjoint Tomography. *Geophysical Research Letters*, **2020**, 47, e2020GL088580	4.9	10
31	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	3.6	8
30	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	3.6	22
29	Imaging the Tectonic Grain of the Northern Cordillera Orogen Using Transportable Array Receiver Functions. *Seismological Research Letters*, **2020**, 91, 3086-3105	3	3
28	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. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 9833-9851	3.6	7
27	Mantle earthquakes in the Himalayan collision zone. *Geology*, **2019**, 47, 815-819	5	13
26	Matched Field Processing of Three-Component Seismic Array Data Applied to Rayleigh and Love Microseisms. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 6871-6889	3.6	15
25	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	3.1	32
24	Characteristics of deep crustal seismic anisotropy from a compilation of rock elasticity tensors and their expression in receiver functions. *Tectonics*, **2017**, 36, 1835-1857	4.3	34
23	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. *Tectonics*, **2017**, 36, 1455-1496	4.3	15
22	Source modeling of the 2015 Mw 7.8 Nepal (Gorkha) earthquake sequence: Implications for geodynamics and earthquake hazards. *Tectonophysics*, **2017**, 714-715, 21-30	3.1	26
21	Imaging Faults and Shear Zones Using Receiver Functions. *Pure and Applied Geophysics*, **2014**, 171, 2967-2991	2.2	25
20	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	3.6	31
19	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	5.3	84

18	A 3-D 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	3.6	165
17	Sequential H-Stacking to Obtain Accurate Crustal Thicknesses beneath Sedimentary Basins. *Bulletin of the Seismological Society of America*, **2013**, 103, 2142-2150	2.3	57
16	Joint inversion of surface wave dispersion and receiver functions: a Bayesian Monte-Carlo approach. *Geophysical Journal International*, **2013**, 192, 807-836	2.6	154
15	Crustal and uppermost mantle structure in the central U.S. encompassing the Midcontinent Rift. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 4325-4344	3.6	39
14	Roles of quartz and mica in seismic anisotropy of mylonites. *Geophysical Journal International*, **2012**, 190, 1123-1134	2.6	33
13	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	2.3	17
12	Seismic structure and lithospheric rheology from deep crustal xenoliths, central Montana, USA. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	15
11	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	4.9	12
10	Differential motion between upper crust and lithospheric mantle in the central Basin and Range. *Nature Geoscience*, **2011**, 4, 619-623	18.3	16
9	Seismicity and one-dimensional velocity structure of the Himalayan collision zone: Earthquakes in the crust and upper mantle. *Journal of Geophysical Research*, **2006**, 111,		154
8	Mantle flow under the western United States from shear wave splitting. *Earth and Planetary Science Letters*, **2006**, 247, 235-251	5.3	77
7	Statistical properties of seismic anisotropy predicted by upper mantle geodynamic models. *Journal of Geophysical Research*, **2006**, 111,		114
6	Passive Source Seismology of the Rocky Mountain Region. *Geophysical Monograph Series*, **2005**, 309-315	1.1	1
5	Imaging the Indian subcontinent beneath the Himalaya. *Nature*, **2005**, 435, 1222-5	50.4	352
4	Strong directivity of ocean-generated seismic noise. *Geochemistry, Geophysics, Geosystems*, **2004**, 5,	3.6	76
3	Large Teleseismic P Wavefront Deflections Observed with Broadband Arrays. *Bulletin of the Seismological Society of America*, **2003**, 93, 747-756	2.3	5
2	A synthesis of seismicPandSanisotropy. *Geophysical Journal International*, **2003**, 154, 166-178	2.6	45
1	Upper mantle anisotropy from long-period P polarization. *Journal of Geophysical Research*, **2001**, 106, 21917-21934		54