

Vera Schulte-Pelkum

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Imaging the Indian subcontinent beneath the Himalaya. <i>Nature</i> , 2005 , 435, 1222-5	50.4	352
34	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. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 262-276	3.6	165
33	Joint inversion of surface wave dispersion and receiver functions: a Bayesian Monte-Carlo approach. <i>Geophysical Journal International</i> , 2013 , 192, 807-836	2.6	154
32	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,		154
31	Statistical properties of seismic anisotropy predicted by upper mantle geodynamic models. <i>Journal of Geophysical Research</i> , 2006 , 111,		114
30	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	5.3	84
29	Mantle flow under the western United States from shear wave splitting. <i>Earth and Planetary Science Letters</i> , 2006 , 247, 235-251	5.3	77
28	Strong directivity of ocean-generated seismic noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5,	3.6	76
27	Sequential H-Stacking to Obtain Accurate Crustal Thicknesses beneath Sedimentary Basins. <i>Bulletin of the Seismological Society of America</i> , 2013 , 103, 2142-2150	2.3	57
26	Upper mantle anisotropy from long-period P polarization. <i>Journal of Geophysical Research</i> , 2001 , 106, 21917-21934		54
25	A synthesis of seismic P and S anisotropy. <i>Geophysical Journal International</i> , 2003 , 154, 166-178	2.6	45
24	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	3.6	39
23	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	4.3	34
22	Roles of quartz and mica in seismic anisotropy of mylonites. <i>Geophysical Journal International</i> , 2012 , 190, 1123-1134	2.6	33
21	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	3.1	32
20	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	3.6	31
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	3.1	26

18	Imaging Faults and Shear Zones Using Receiver Functions. <i>Pure and Applied Geophysics</i> , 2014 , 171, 2967-2991	2.5	25
17	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	3.6	22
16	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
15	Differential motion between upper crust and lithospheric mantle in the central Basin and Range. <i>Nature Geoscience</i> , 2011 , 4, 619-623	18.3	16
14	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	3.6	15
13	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	4.3	15
12	Seismic structure and lithospheric rheology from deep crustal xenoliths, central Montana, USA. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	15
11	Mantle earthquakes in the Himalayan collision zone. <i>Geology</i> , 2019 , 47, 815-819	5	13
10	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	4.9	12
9	Crustal Deformation in Southern California Constrained by Radial Anisotropy From Ambient Noise Adjoint Tomography. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088580	4.9	10
8	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	3.6	8
7	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	3.6	7
6	Large Teleseismic P Wavefront Deflections Observed with Broadband Arrays. <i>Bulletin of the Seismological Society of America</i> , 2003 , 93, 747-756	2.3	5
5	Imaging the Tectonic Grain of the Northern Cordillera Orogen Using Transportable Array Receiver Functions. <i>Seismological Research Letters</i> , 2020 , 91, 3086-3105	3	3
4	The competing effects of olivine and orthopyroxene CPO on seismic anisotropy. <i>Tectonophysics</i> , 2021 , 814, 228954	3.1	2
3	Passive Source Seismology of the Rocky Mountain Region. <i>Geophysical Monograph Series</i> , 2005 , 309-315	1.1	1
2	Tectonic Inheritance During Plate Boundary Evolution in Southern California Constrained From Seismic Anisotropy. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC010099	3.6	1
1	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	4.9	0

