

# Susan Beck

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,556  
citations

236925

25  
h-index

233421

45  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Slab Induced Mantle Upwelling Beneath the Anatolian Plateau. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
2	Triggered crustal earthquake swarm across subduction segment boundary after the 2016 Pedernales, Ecuador megathrust earthquake. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116620.	4.4	16
3	Variable seismic anisotropy across the Peruvian flat-slab subduction zone with implications for upper plate deformation. <i>Journal of South American Earth Sciences</i> , 2021, 106, 103053.	1.4	3
4	3D Local Earthquake Tomography of the Ecuadorian Margin in the Source Area of the 2016 Mw 7.8 Pedernales Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020701.	3.4	6
5	Lithospheric Architecture of the Paranapanema Block and Adjacent Nuclei Using Multiple-Frequency P-Wave Seismic Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021183.	3.4	12
6	Repeating Earthquakes at the Edge of the Afterslip of the 2016 Ecuadorian Mw 7.8 Pedernales Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021746.	3.4	8
7	Crustal thickness and magma storage beneath the Ecuadorian arc. <i>Journal of South American Earth Sciences</i> , 2021, 110, 103331.	1.4	14
8	Lithospheric structure of the Pampean flat slab region from double-difference tomography. <i>Journal of South American Earth Sciences</i> , 2020, 97, 102417.	1.4	15
9	Upper-plate structure in Ecuador coincident with the subduction of the Carnegie Ridge and the southern extent of large mega-thrust earthquakes. <i>Geophysical Journal International</i> , 2020, 220, 1965-1977.	2.4	15
10	Detailed Structure of the Subducted Nazca Slab into the Lower Mantle Derived From Continent-Scale Teleseismic P-Wave Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017884.	3.4	31
11	Subduction dynamics and structural controls on shear wave splitting along the South American convergent margin. <i>Journal of South American Earth Sciences</i> , 2020, 104, 102824.	1.4	5
12	Mantle dynamics of the Andean Subduction Zone from continent-scale teleseismic S-wave tomography. <i>Geophysical Journal International</i> , 2020, 224, 1553-1571.	2.4	10
13	The Deformational Journey of the Nazca Slab From Seismic Anisotropy. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087398.	4.0	4
14	Structure of the Ecuadorian forearc from the joint inversion of receiver functions and ambient noise surface waves. <i>Geophysical Journal International</i> , 2020, 222, 1671-1685.	2.4	8
15	Structural Control on Megathrust Rupture and Slip Behavior: Insights From the 2016 Mw 7.8 Pedernales Ecuador Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018001.	3.4	14
16	1D-velocity structure and seismotectonics of the Ecuadorian margin inferred from the 2016 Mw7.8 Pedernales aftershock sequence. <i>Tectonophysics</i> , 2019, 767, 228165.	2.2	9
17	Receiver function analysis reveals layered anisotropy in the crust and upper mantle beneath southern Peru and northern Bolivia. <i>Tectonophysics</i> , 2019, 753, 93-110.	2.2	12
18	The 2016 Mw 7.8 Pedernales, Ecuador, Earthquake: Rapid Response Deployment. <i>Seismological Research Letters</i> , 2019, 90, 1346-1354.	1.9	17



#	ARTICLE	IF	CITATIONS
37	Ambient noise tomography across the Central Andes. <i>Geophysical Journal International</i> , 2013, 194, 1559-1573.	2.4	87
38	Shear wave velocities in the Pampean flat-slab region from Rayleigh wave tomography: Implications for slab and upper mantle hydration. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
39	Continental and oceanic crustal structure of the Pampean flat slab region, western Argentina, using receiver function analysis: new high-resolution results. <i>Geophysical Journal International</i> , 2011, 186, 45-58.	2.4	117
40	Lithospheric evolution of the Andean fold-thrust belt, Bolivia, and the origin of the central Andean plateau. <i>Tectonophysics</i> , 2005, 399, 15-37.	2.2	203
41	Anisotropy and mantle flow in the Chile-Argentina subduction zone from shear wave splitting analysis. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	88
42	The nature of orogenic crust in the central Andes. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 7-1-ESE 7-16.	3.3	260
43	Strong crustal heterogeneity in the Bolivian Altiplano as suggested by attenuation of Lg waves. <i>Journal of Geophysical Research</i> , 1999, 104, 20287-20305.	3.3	48
44	Lithospheric-scale structure across the Bolivian Andes from tomographic images of velocity and attenuation for P and S waves. <i>Journal of Geophysical Research</i> , 1998, 103, 21233-21252.	3.3	111
45	Crustal-thickness variations in the central Andes. <i>Geology</i> , 1996, 24, 407.	4.4	239
46	Historical 1942 Ecuador and 1942 Peru subduction earthquakes and earthquake cycles along Colombia-Ecuador and Peru subduction segments. <i>Pure and Applied Geophysics</i> , 1996, 146, 67-101.	1.9	97
47	The rupture process of the Great 1979 Colombia Earthquake: Evidence for the asperity model. <i>Journal of Geophysical Research</i> , 1984, 89, 9281-9291.	3.3	122