Sebastian Rost

List of Publications by Year in descending order

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257450 197818 2,438 58 24 h-index citations g-index papers

64 64 64 1776 docs citations times ranked citing authors all docs

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#	Article	IF	Citations
1	The Most Parsimonious Ultralowâ€Velocity Zone Distribution From Highly Anomalous SPdKS Waveforms. Geochemistry, Geophysics, Geosystems, 2021, 22, .	2.5	15
2	Automatic slowness vector measurements of seismic arrivals with uncertainty estimates using bootstrap sampling, array methods and unsupervised learning. Geophysical Journal International, 2021, 226, 1847-1857.	2.4	6
3	Structure of the northwestern North Anatolian Fault Zone imaged via teleseismic scattering tomography. Geophysical Journal International, 2021, 227, 922-940.	2.4	5
4	Small-scale lithospheric heterogeneity characterization using Bayesian inference and energy flux models. Geophysical Journal International, 2021, 227, 1682-1699.	2.4	0
5	Historical Interstation Pattern Referencing (HIPR): An Application to PcP Waves Recorded in the Antarctic for ULVZ Imaging. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022741.	3.4	3
6	Lateral Velocity Gradients in the African Lower Mantle Inferred From Slowness Space Observations of Multipathing. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009025.	2.5	8
7	A joint inversion of receiver function and Rayleigh wave phase velocity dispersion data to estimate crustal structure in West Antarctica. Geophysical Journal International, 2020, 223, 1644-1657.	2.4	11
8	Investigating ultra-low velocity zones in the southern hemisphere using an Antarctic dataset. Earth and Planetary Science Letters, 2020, 536, 116142.	4.4	11
9	Near-surface structure of the North Anatolian Fault zone from Rayleigh and Love wave tomography using ambient seismic noise. Solid Earth, 2019, 10, 363-378.	2.8	26
10	Regional stratification at the top of Earth's core due to core–mantle boundary heat flux variations. Nature Geoscience, 2019, 12, 575-580.	12.9	48
11	Stress Drops on the Blanco Oceanic Transform Fault from Interstation Phase Coherence. Bulletin of the Seismological Society of America, 2019, 109, 929-943.	2.3	1
12	Interaction of the Cyprus/Tethys slab with the mantle transition zone beneath Anatolia. Geophysical Journal International, 2019, 216, 1665-1674.	2.4	6
13	Automated seismic waveform location using Multichannel Coherency Migration (MCM)â€"II. Application to induced and volcano-tectonic seismicity. Geophysical Journal International, 2019, 216, 1608-1632.	2.4	7
14	Automated seismic waveform location using multichannel coherency migration (MCM)–I: theory. Geophysical Journal International, 2019, 216, 1842-1866.	2.4	21
15	Dynamical links between small- and large-scale mantle heterogeneity: Seismological evidence. Earth and Planetary Science Letters, 2018, 482, 135-146.	4.4	24
16	Seismic evidence for Earth's crusty deep mantle. Earth and Planetary Science Letters, 2017, 470, 54-63.	4.4	31
17	Fine-scale structure of the mid-mantle characterised by global stacks of PP precursors. Earth and Planetary Science Letters, 2017, 472, 164-173.	4.4	15
18	Ultralow-velocity zone geometries resolved by multidimensional waveform modelling. Geophysical Journal International, 2016, 206, 659-674.	2.4	12

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19	Crustal imaging across the North Anatolian Fault Zone from the autocorrelation of ambient seismic noise. Geophysical Research Letters, 2016, 43, 2502-2509.	4.0	56
20	A compositional origin to ultralowâ€velocity zones. Geophysical Research Letters, 2015, 42, 1039-1045.	4.0	36
21	Crustal thickness variations and isostatic disequilibrium across the North Anatolian Fault, western Turkey. Geophysical Research Letters, 2015, 42, 751-757.	4.0	23
22	Seismic Detections of Small-Scale Heterogeneities in the Deep Earth., 2015,, 367-390.		11
23	New constraints on micro-seismicity and stress state in the western part of the North Anatolian Fault Zone: Observations from a dense seismic array. Tectonophysics, 2015, 656, 190-201.	2.2	26
24	Crustal-scale shear zones and heterogeneous structure beneath the North Anatolian Fault Zone, Turkey, revealed by a high-density seismometer array. Earth and Planetary Science Letters, 2015, 430, 129-139.	4.4	35
25	Mantle transition zone structure beneath India and Western China from migration of PP and SS precursors. Geophysical Journal International, 2014, 197, 396-413.	2.4	21
26	The P-wave boundary of the Large-Low Shear Velocity Province beneath the Pacific. Earth and Planetary Science Letters, 2014, 403, 380-392.	4.4	36
27	Scattering beneath Western Pacific subduction zones: evidence for oceanic crust in the mid-mantle. Geophysical Journal International, 2014, 197, 1627-1641.	2.4	28
28	Core–mantle boundary landscapes. Nature Geoscience, 2013, 6, 89-90.	12.9	7
29	SPdKS analysis of ultralowâ€velocity zones beneath the western Pacific. Geophysical Research Letters, 2013, 40, 4574-4578.	4.0	21
30	Detection of a tall ridge at the core–mantle boundary from scattered PKP energy. Geophysical Journal International, 2013, 195, 558-574.	2.4	32
31	Scattered P'P' Waves Observed at Short Distances. Bulletin of the Seismological Society of America, 2011, 101, 2843-2854.	2.3	11
32	Melting of the Earth's inner core. Nature, 2011, 473, 361-363.	27.8	125
33	On the absence of an ultralowâ€velocity zone in the North Pacific. Journal of Geophysical Research, 2010, 115, .	3.3	22
34	Thin and intermittent ultralowâ€velocity zones. Journal of Geophysical Research, 2010, 115, .	3.3	32
35	Identifying regions of strong scattering at the core–mantle boundary from analysis of PKKP precursor energy. Earth and Planetary Science Letters, 2010, 297, 616-626.	4.4	25
36	Tracking deep mantle reservoirs with ultra-low velocity zones. Earth and Planetary Science Letters, 2010, 299, 1-9.	4.4	187

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37	High resolution CMB imaging from migration of short-period core reflected phases. Physics of the Earth and Planetary Interiors, 2010, 183, 143-150.	1.9	16
38	Improving Seismic Resolution Through Array Processing Techniques. Surveys in Geophysics, 2009, 30, 271-299.	4.6	96
39	Improving Seismic Resolution Through Array Processing Techniques. , 2009, , 3-31.		1
40	Seismic array detection of subducted oceanic crust in the lower mantle. Journal of Geophysical Research, 2008, 113, .	3.3	48
41	New insights into theP- andS-wave velocity structure of the D″ discontinuity beneath the Cocos plate. Geophysical Journal International, 2007, 169, 631-645.	2.4	40
42	Fine-Scale Ultra-Low Velocity Zone Layering at the Core-Mantle Boundary and Superplumes. , 2007, , 139-158.		10
43	Detection of an ultralow velocity zone at the core-mantle boundary using diffracted PKK Pabwaves. Journal of Geophysical Research, 2006, 111 , .	3.3	26
44	Fine-scale ultralow-velocity zone structure from high-frequency seismic array data. Journal of Geophysical Research, 2006, 111 , .	3.3	62
45	Imaging Global Seismic Phase Arrivals by Stacking Array Processed Short-Period Data. Seismological Research Letters, 2006, 77, 697-707.	1.9	14
46	Seismological constraints on a possible plume root at the core–mantle boundary. Nature, 2005, 435, 666-669.	27.8	156
47	A study of the uppermost inner core fromPKKPandP′P′ differential traveltimes. Geophysical Journal International, 2004, 156, 565-574.	2.4	11
48	Array seismology advances research into Earth's interior. Eos, 2004, 85, 301.	0.1	11
49	Small-scale changes of core-mantle boundary reflectivity studied using core reflected PcP. Physics of the Earth and Planetary Interiors, 2004, 145, 19-36.	1.9	21
50	Small-scale ultralow-velocity zone structure imaged byScP. Journal of Geophysical Research, 2003, 108, .	3.3	73
51	Detection of a D″ discontinuity in the south Atlantic using PKKP. Geophysical Research Letters, 2003, 30,	4.0	6
52	Seismic detection of sublithospheric plume head residue beneath the Pitcairn hot-spot chain. Earth and Planetary Science Letters, 2003, 209, 71-83.	4.4	6
53	The upper mantle transition zone discontinuities in the Pacific as determined by short-period array data. Earth and Planetary Science Letters, 2002, 204, 347-361.	4.4	32
54	Array seismology: Methods and applications. Reviews of Geophysics, 2002, 40, 2-1.	23.0	717

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55	A reflector at 200 km depth beneath the northwest Pacific. Geophysical Journal International, 2001, 147, 12-28.	2.4	38
56	Seismic Detection of Rigid Zones at the Top of the Core. Science, 2001, 294, 1911-1914.	12.6	69
57	Seismic constraints on Earth's small-scale structure. Astronomy and Geophysics, 0, 51, 2.26-2.32.	0.2	0
58	Kinetic effects on the 660Âkm-phase transition in mantle upstreams and seismological implications. Geophysical Journal International, 0, , .	2.4	O