StÃ©phane Rondenay

List of Publications by Year
in descending order

60	3,960	136950	144013
papers	citations	32 h-index	57 g-index

65	65	65	2668
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An inverted continental Moho and serpentinization of the forearc mantle. Nature, 2002, 417, 536-538.	27.8	556
2	Structure of the crust beneath the southeastern Tibetan Plateau from teleseismic receiver functions. Physics of the Earth and Planetary Interiors, 2007, 165, 176-193.	1.9	232
3	Seismic anisotropy beneath stable continental interiors. Physics of the Earth and Planetary Interiors, 2006, 158, 292-320.	1.9	229
4	Seismic imaging of subduction zone metamorphism. Geology, 2008, 36, 275.	4.4	186
5	A sharp lithosphereâ€“asthenosphere boundary imaged beneath eastern North America. Nature, 2005, 436, 542-545.	27.8	176
6	Changes in dip of subducted slabs at depth: Petrological and geochronological evidence from HPâ€“UHP rocks (Tianshan, NW-China). Earth and Planetary Science Letters, 2011, 310, 9-20.	4.4	172
7	Pâ€toS and Sâ€toP imaging of a sharp lithosphereâ€asthenosphere boundary beneath eastern North America. Journal of Geophysical Research, 2007, 112, .	3.3	151
8	Multiparameter two-dimensional inversion of scattered teleseismic body waves 1. Theory for oblique incidence. Journal of Geophysical Research, 2001, 106, 30771-30782.	3.3	142
9	Pathway from subducting slab to surface for melt and fluids beneath Mount Rainier. Nature, 2014, 511, 338-340.	27.8	133
10	Multiparameter two-dimensional inversion of scattered teleseismic body waves 3. Application to the Cascadia 1993 data set. Journal of Geophysical Research, 2001, 106, 30795-30807.	3.3	128
11	Upper Mantle Imaging with Array Recordings of Converted and Scattered Teleseismic Waves. Surveys in Geophysics, 2009, 30, 377-405.	4.6	121
12	Imaging the source region of Cascadia tremor and intermediate-depth earthquakes. Geology, 2009, 37, 1119-1122.	4.4	112
13	Migration of scattered teleseismic body waves. Geophysical Journal International, 1999, 137, 732-746.	2.4	107
14	Seismic investigation of the transition from continental to oceanic subduction along the western Hellenic Subduction Zone. Journal of Geophysical Research, 2012, 117, .	3.3	89
15	Lithospheric assembly and modification of the SE Canadian Shield: Abitibi-Grenville teleseismic experiment. Journal of Geophysical Research, 2000, 105, 13735-13754.	3.3	76
16	Unusual mantle Poisson's ratio, subduction, and crustal structure in central Alaska. Journal of Geophysical Research, 2006, 111, .	3.3	73
17	Obliquity between seismic and electrical anisotropies as a potential indicator of movement sense for ductile shear zones in the upper mantle. Geology, 1996, 24, 1033.	4.4	69
18	High-resolution seismic imaging of the western Hellenic subduction zone using teleseismic scattered waves. Geophysical Journal International, 2009, 178, 775-791.	2.4	69

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19	Geophysical Detection of Relict Metasomatism from an Archean (~3.5 Ga) Subduction Zone. Science, 2009, 326, 1089-1091.	12.6	66
20	New geophysical insight into the origin of the Denali volcanic gap. Geophysical Journal International, 0, 182, 613-630.	2.4	63
21	Alaska Megathrust 2: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone. Journal of Geophysical Research: Solid Earth, 2014, 119, 1924-1941.	3.4	59
22	Lithospheric variations across the Superior Province, Ontario, Canada: Evidence from tomography and shear wave splitting. Journal of Geophysical Research, 2007, 112, .	3.3	55
23	Earthquakes track subduction fluids from slab source to mantle wedge sink. Science Advances, 2019, 5, eaav7369.	10.3	54
24	Mantle wedge temperatures and their potential relation to volcanic arc location. Earth and Planetary Science Letters, 2018, 501, 67-77.	4.4	52
25	Seismic and electrical anisotropies in the lithosphere across the Grenville Front, Canada. Geophysical Research Letters, 1996, 23, 2255-2258.	4.0	51
26	Seismicity, Deformation, and Metamorphism in the Western Hellenic Subduction Zone: New Constraints From Tomography. Journal of Geophysical Research: Solid Earth, 2018, 123, 3000-3026.	3.4	44
27	Multiparameter two-dimensional inversion of scattered teleseismic body waves 2. Numerical examples. Journal of Geophysical Research, 2001, 106, 30783-30793.	3.3	42
28	Shallow structure of the Cascadia subduction zone beneath western Washington from spectral ambient noise correlation. Journal of Geophysical Research, 2011, 116, .	3.3	41
29	Constraints on localized core-mantle boundary structure from multichannel, broadbandSKScoda analysis. Journal of Geophysical Research, 2003, 108, .	3.3	39
30	Mapping the mantle lithosphere for diamond potential using teleseismic methodsâ˜†. Lithos, 2004, 77, 859-872.	1.4	38
31	New constraints on the upper mantle structure of the Slave craton from Rayleigh wave inversion. Geophysical Research Letters, 2007, 34, .	4.0	38
32	A reappraisal of the Hâ€“Îº stacking technique: implications for global crustal structure. Geophysical Journal International, 2019, 219, 1491-1513.	2.4	36
33	Effects of surface scattering in full-waveform inversion. Geophysics, 2009, 74, WCC69-WCC77.	2.6	35
34	Multichannel inversion of scattered teleseismic body waves: Practical considerations and applicability. Geophysical Monograph Series, 2005, , 187-203.	0.1	33
35	Pronounced zonation of seismic anisotropy in the Western Hellenic subduction zone and its geodynamic significance. Earth and Planetary Science Letters, 2014, 391, 100-109.	4.4	33
36	Teleseismic studies of the lithosphere below the Abitibi-Grenville Lithoprobe transect. Canadian Journal of Earth Sciences, 2000, 37, 415-426.	1.3	31

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37	Imaging a steeply dipping subducting slab in Southern Central America. Earth and Planetary Science Letters, 2010, 296, 459-468.	4.4	31
38	Mapping the Distribution of Fluids in the Crust and Lithospheric Mantle Utilizing Geophysical Methods. Lecture Notes in Earth System Sciences, 2013, , 535-598.	0.6	27
39	Buried Proterozoic foredeep under the Western Canada Sedimentary Basin?. Geology, 1995, 23, 297.	4.4	26
40	Imaging Subduction Beneath Mount St. Helens: Implications for Slab Dehydration and Magma Transport. Geophysical Research Letters, 2019, 46, 3163-3171.	4.0	24
41	Water Migration in the Subduction Mantle Wedge: A Twoâ€Phase Flow Approach. Journal of Geophysical Research: Solid Earth, 2019, 124, 9208-9225.	3.4	21
42	Array-conditioned deconvolution of multiple-component teleseismic recordings. Geophysical Journal International, 0, 182, 967-976.	2.4	20
43	SKS and SPdKS sensitivity to twoâ€dimensional ultralowâ€velocity zones. Journal of Geophysical Research, 2010, 115, .	3.3	20
44	Variable modification of continental lithosphere during the Proterozoic Grenville orogeny: Evidence from teleseismic P-wave tomography. Earth and Planetary Science Letters, 2019, 525, 115763.	4.4	20
45	Constraints on the structure of the crust and lithosphere beneath the Azores Islands from teleseismic receiver functions. Geophysical Journal International, 2018, 213, 824-835.	2.4	19
46	GLImER: A New Global Database of Teleseismic Receiver Functions for Imaging Earth Structure. Seismological Research Letters, 2017, 88, 39-48.	1.9	15
47	Imaging crustal structure beneath the southern Appalachians with wavefield migration. Geophysical Research Letters, 2016, 43, 12,054.	4.0	13
48	Multimode 3â€D Kirchhoff Migration of Receiver Functions at Continental Scale. Journal of Geophysical Research: Solid Earth, 2019, 124, 8953-8980.	3.4	12
49	Localized crustal deformation along the central North Anatolian Fault Zone revealed by joint inversion ofP-receiver functions andP-wave polarizations. Geophysical Journal International, 2019, 217, 682-702.	2.4	12
50	Using stochastic crosshole seismic velocity tomography and Bayesian simulation to estimate Ni grades: Case study from Voisey's Bay, Canada. Journal of Applied Geophysics, 2012, 78, 85-93.	2.1	11
51	From Relative to Absolute Teleseismic Travel Times: The Absolute Arrivalâ€Time Recovery Method (AARM). Bulletin of the Seismological Society of America, 2017, 107, 2511-2520.	2.3	11
52	Interferometric imaging of the underside of a subducting crust. Geophysical Journal International, 2012, 189, 681-690.	2.4	10
53	Highâ€Resolution Ps Receiver Function Imaging of the Crust and Mantle Lithosphere Beneath Southern New England and Tectonic Implications. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022170.	3.4	9
54	The development of seismic anisotropy below south-central Alaska: evidence from local earthquake shear wave splitting. Geophysical Journal International, 2021, 225, 548-554.	2.4	6

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55	Crustal structure and intraplate seismicity in Nordland, Northern Norway: insight from seismic tomography. Geophysical Journal International, 2022, 230, 813-830.	2.4	6
56	Tube wave to shear wave conversion at borehole plugs. Geophysical Prospecting, 2014, 62, 540-551.	1.9	5
57	Wavefield Migration Imaging of Moho Geometry and Upper Mantle Structure Beneath Southern New England. Geophysical Research Letters, 2022, 49, .	4.0	4
58	The crustal structure in the Northwest Atlantic region from receiver function inversion â€“ Implications for basin dynamics and magmatism. Tectonophysics, 2022, 825, 229235.	2.2	3
59	Upper Mantle Imaging with Array Recordings of Converted and Scattered Teleseismic Waves. , 2009, , 109-137.		1
60	Toward Waveformâ€Based Characterization of Slab & Mantle Wedge (SAM) Earthquakes. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021573.	3.4	0