

Stéphane Rondenay

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,960
citations

136885

32
h-index

143943

57
g-index

65
all docs

65
docs citations

65
times ranked

2668
citing authors

#	ARTICLE	IF	CITATIONS
1	The crustal structure in the Northwest Atlantic region from receiver function inversion â€“ Implications for basin dynamics and magmatism. <i>Tectonophysics</i> , 2022, 825, 229235.	0.9	3
2	Crustal structure and intraplate seismicity in Nordland, Northern Norway: insight from seismic tomography. <i>Geophysical Journal International</i> , 2022, 230, 813-830.	1.0	6
3	Wavefield Migration Imaging of Moho Geometry and Upper Mantle Structure Beneath Southern New England. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
4	The development of seismic anisotropy below south-central Alaska: evidence from local earthquake shear wave splitting. <i>Geophysical Journal International</i> , 2021, 225, 548-554.	1.0	6
5	High-Resolution Ps Receiver Function Imaging of the Crust and Mantle Lithosphere Beneath Southern New England and Tectonic Implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022170.	1.4	9
6	Toward Waveform-Based Characterization of Slab & Mantle Wedge (SAM) Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021573.	1.4	0
7	Multimode 3-D Kirchhoff Migration of Receiver Functions at Continental Scale. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8953-8980.	1.4	12
8	A reappraisal of the H ¹ stacking technique: implications for global crustal structure. <i>Geophysical Journal International</i> , 2019, 219, 1491-1513.	1.0	36
9	Water Migration in the Subduction Mantle Wedge: A Two-Phase Flow Approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9208-9225.	1.4	21
10	Variable modification of continental lithosphere during the Proterozoic Grenville orogeny: Evidence from teleseismic P-wave tomography. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115763.	1.8	20
11	Localized crustal deformation along the central North Anatolian Fault Zone revealed by joint inversion of <i>P</i> -receiver functions and <i>P</i> -wave polarizations. <i>Geophysical Journal International</i> , 2019, 217, 682-702.	1.0	12
12	Imaging Subduction Beneath Mount St. Helens: Implications for Slab Dehydration and Magma Transport. <i>Geophysical Research Letters</i> , 2019, 46, 3163-3171.	1.5	24
13	Earthquakes track subduction fluids from slab source to mantle wedge sink. <i>Science Advances</i> , 2019, 5, eaav7369.	4.7	54
14	Seismicity, Deformation, and Metamorphism in the Western Hellenic Subduction Zone: New Constraints From Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3000-3026.	1.4	44
15	Constraints on the structure of the crust and lithosphere beneath the Azores Islands from teleseismic receiver functions. <i>Geophysical Journal International</i> , 2018, 213, 824-835.	1.0	19
16	Mantle wedge temperatures and their potential relation to volcanic arc location. <i>Earth and Planetary Science Letters</i> , 2018, 501, 67-77.	1.8	52
17	GLImER: A New Global Database of Teleseismic Receiver Functions for Imaging Earth Structure. <i>Seismological Research Letters</i> , 2017, 88, 39-48.	0.8	15
18	From Relative to Absolute Teleseismic Travel Times: The Absolute Arrival-Time Recovery Method (AARM). <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2511-2520.	1.1	11

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19	Imaging crustal structure beneath the southern Appalachians with wavefield migration. <i>Geophysical Research Letters</i> , 2016, 43, 12,054.	1.5	13
20	Pronounced zonation of seismic anisotropy in the Western Hellenic subduction zone and its geodynamic significance. <i>Earth and Planetary Science Letters</i> , 2014, 391, 100-109.	1.8	33
21	Tube wave to shear wave conversion at borehole plugs. <i>Geophysical Prospecting</i> , 2014, 62, 540-551.	1.0	5
22	Alaska Megathrust 2: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1924-1941.	1.4	59
23	Pathway from subducting slab to surface for melt and fluids beneath Mount Rainier. <i>Nature</i> , 2014, 511, 338-340.	13.7	133
24	Mapping the Distribution of Fluids in the Crust and Lithospheric Mantle Utilizing Geophysical Methods. <i>Lecture Notes in Earth System Sciences</i> , 2013, , 535-598.	0.5	27
25	Using stochastic crosshole seismic velocity tomography and Bayesian simulation to estimate Ni grades: Case study from Voisey's Bay, Canada. <i>Journal of Applied Geophysics</i> , 2012, 78, 85-93.	0.9	11
26	Seismic investigation of the transition from continental to oceanic subduction along the western Hellenic Subduction Zone. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	89
27	Interferometric imaging of the underside of a subducting crust. <i>Geophysical Journal International</i> , 2012, 189, 681-690.	1.0	10
28	Changes in dip of subducted slabs at depth: Petrological and geochronological evidence from HP&UHP rocks (Tianshan, NW-China). <i>Earth and Planetary Science Letters</i> , 2011, 310, 9-20.	1.8	172
29	Shallow structure of the Cascadia subduction zone beneath western Washington from spectral ambient noise correlation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
30	<i>SKS</i> and <i>SPdKS</i> sensitivity to two-dimensional ultralow-velocity zones. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	20
31	Imaging a steeply dipping subducting slab in Southern Central America. <i>Earth and Planetary Science Letters</i> , 2010, 296, 459-468.	1.8	31
32	Geophysical Detection of Relict Metasomatism from an Archean (~3.5 Ga) Subduction Zone. <i>Science</i> , 2009, 326, 1089-1091.	6.0	66
33	Effects of surface scattering in full-waveform inversion. <i>Geophysics</i> , 2009, 74, WCC69-WCC77.	1.4	35
34	Upper Mantle Imaging with Array Recordings of Converted and Scattered Teleseismic Waves. <i>Surveys in Geophysics</i> , 2009, 30, 377-405.	2.1	121
35	High-resolution seismic imaging of the western Hellenic subduction zone using teleseismic scattered waves. <i>Geophysical Journal International</i> , 2009, 178, 775-791.	1.0	69
36	Imaging the source region of Cascadia tremor and intermediate-depth earthquakes. <i>Geology</i> , 2009, 37, 1119-1122.	2.0	112

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37	Upper Mantle Imaging with Array Recordings of Converted and Scattered Teleseismic Waves. , 2009, , 109-137.		1
38	Seismic imaging of subduction zone metamorphism. <i>Geology</i> , 2008, 36, 275.	2.0	186
39	Structure of the crust beneath the southeastern Tibetan Plateau from teleseismic receiver functions. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 165, 176-193.	0.7	232
40	<i>P</i> - and <i>S</i> -wave imaging of a sharp lithosphere-asthenosphere boundary beneath eastern North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	151
41	Lithospheric variations across the Superior Province, Ontario, Canada: Evidence from tomography and shear wave splitting. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
42	New constraints on the upper mantle structure of the Slave craton from Rayleigh wave inversion. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	38
43	Unusual mantle Poisson's ratio, subduction, and crustal structure in central Alaska. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	73
44	Seismic anisotropy beneath stable continental interiors. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 158, 292-320.	0.7	229
45	A sharp lithosphere-asthenosphere boundary imaged beneath eastern North America. <i>Nature</i> , 2005, 436, 542-545.	13.7	176
46	Multichannel inversion of scattered teleseismic body waves: Practical considerations and applicability. <i>Geophysical Monograph Series</i> , 2005, , 187-203.	0.1	33
47	Mapping the mantle lithosphere for diamond potential using teleseismic methods. <i>Lithos</i> , 2004, 77, 859-872.	0.6	38
48	Constraints on localized core-mantle boundary structure from multichannel, broadband SKS coda analysis. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	39
49	An inverted continental Moho and serpentinization of the forearc mantle. <i>Nature</i> , 2002, 417, 536-538.	13.7	556
50	Multiparameter two-dimensional inversion of scattered teleseismic body waves 2. Numerical examples. <i>Journal of Geophysical Research</i> , 2001, 106, 30783-30793.	3.3	42
51	Multiparameter two-dimensional inversion of scattered teleseismic body waves 1. Theory for oblique incidence. <i>Journal of Geophysical Research</i> , 2001, 106, 30771-30782.	3.3	142
52	Multiparameter two-dimensional inversion of scattered teleseismic body waves 3. Application to the Cascadia 1993 data set. <i>Journal of Geophysical Research</i> , 2001, 106, 30795-30807.	3.3	128
53	Lithospheric assembly and modification of the SE Canadian Shield: Abitibi-Grenville teleseismic experiment. <i>Journal of Geophysical Research</i> , 2000, 105, 13735-13754.	3.3	76
54	Teleseismic studies of the lithosphere below the Abitibi-Grenville Lithoprobe transect. <i>Canadian Journal of Earth Sciences</i> , 2000, 37, 415-426.	0.6	31

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55	Migration of scattered teleseismic body waves. <i>Geophysical Journal International</i> , 1999, 137, 732-746.	1.0	107
56	Seismic and electrical anisotropies in the lithosphere across the Grenville Front, Canada. <i>Geophysical Research Letters</i> , 1996, 23, 2255-2258.	1.5	51
57	Obliquity between seismic and electrical anisotropies as a potential indicator of movement sense for ductile shear zones in the upper mantle. <i>Geology</i> , 1996, 24, 1033.	2.0	69
58	Buried Proterozoic foredeep under the Western Canada Sedimentary Basin?. <i>Geology</i> , 1995, 23, 297.	2.0	26
59	Array-conditioned deconvolution of multiple-component teleseismic recordings. <i>Geophysical Journal International</i> , 0, 182, 967-976.	1.0	20
60	New geophysical insight into the origin of the Denali volcanic gap. <i>Geophysical Journal International</i> , 0, 182, 613-630.	1.0	63