

Guilhem Barruol

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4334555/guilhem-barruol-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

81
papers

3,449
citations

33
h-index

57
g-index

87
ext. papers

3,725
ext. citations

4.9
avg, IF

5.15
L-index

#	Paper	IF	Citations
81	ReNovRisk: a multidisciplinary programme to study the cyclonic risks in the South-West Indian Ocean. <i>Natural Hazards</i> , 2021 , 107, 1191-1223	3	5
80	Impact of Tropical Cyclones on Inhabited Areas of the SWIO Basin at Present and Future Horizons. Part 1: Overview and Observing Component of the Research Project RENOVRIK-CYCLONE. <i>Atmosphere</i> , 2021 , 12, 544	2.7	9
79	Cyclone Signatures in the South-West Indian Ocean from Two Decades of Microseismic Noise. <i>Atmosphere</i> , 2021 , 12, 488	2.7	2
78	Impact of Tropical Cyclones on Inhabited Areas of the SWIO Basin at Present and Future Horizons. Part 2: Modeling Component of the Research Program RENOVRIK-CYCLONE. <i>Atmosphere</i> , 2021 , 12, 689	2.7	4
77	A tree of Indo-African mantle plumes imaged by seismic tomography. <i>Nature Geoscience</i> , 2021 , 14, 612-619	8.3	8
76	Multi-Mode Waveform Tomography of the Indian Ocean Upper and Mid-Mantle Around the Réunion Hotspot. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021490	3.6	4
75	Nature of the crust beneath the islands of the Mozambique Channel: Constraints from receiver functions. <i>Journal of African Earth Sciences</i> , 2021 , 184, 104379	2.2	3
74	Assessing swells in La Réunion Island from terrestrial seismic observations, oceanographic records and offshore wave models. <i>Geophysical Journal International</i> , 2020 , 221, 1883-1895	2.6	5
73	Seismic velocity and anisotropy of the uppermost mantle beneath Madagascar from Pn tomography. <i>Geophysical Journal International</i> , 2020 , 224, 290-305	2.6	1
72	Tomography of crust and lithosphere in the western Indian Ocean from noise cross-correlations of land and ocean bottom seismometers. <i>Geophysical Journal International</i> , 2019 , 219, 924-944	2.6	9
71	Very- and ultra-long-period seismic signals prior to and during caldera formation on La Réunion Island. <i>Scientific Reports</i> , 2019 , 9, 8068	4.9	14
70	Large-scale flow of Indian Ocean asthenosphere driven by Réunion plume. <i>Nature Geoscience</i> , 2019 , 12, 1043-1049	18.3	12
69	Thermally induced icequakes detected on blue ice areas of the East Antarctic ice sheet. <i>Annals of Glaciology</i> , 2019 , 60, 45-56	2.5	11
68	Baleen whale distribution and seasonal occurrence revealed by an ocean bottom seismometer network in the Western Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019 , 161, 132-144	2.3	12
67	SKS splitting in the Western Indian Ocean from land and seafloor seismometers: Plume, plate and ridge signatures. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 169-184	5.3	12
66	Clock errors in land and ocean bottom seismograms: high-accuracy estimates from multiple-component noise cross-correlations. <i>Geophysical Journal International</i> , 2018 , 214, 2014-2034	2.6	19
65	Passive stochastic matched filter for Antarctic blue whale call detection. <i>Journal of the Acoustical Society of America</i> , 2018 , 144, 955	2.2	6

64	Crustal structure of southern Madagascar from receiver functions and ambient noise correlation: Implications for crustal evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1179-1197	3.6	20
63	Orienting ocean-bottom seismometers from P-wave and Rayleigh wave polarizations. <i>Geophysical Journal International</i> , 2017 , 208, 1277-1289	2.6	22
62	First Observation of the Earth's Permanent Free Oscillations on Ocean Bottom Seismometers. <i>Geophysical Research Letters</i> , 2017 , 44, 10,988	4.9	12
61	Anisotropic Tomography Around La Réunion Island From Rayleigh Waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 9132-9148	3.6	28
60	Shear velocity structure of the crust and upper mantle of Madagascar derived from surface wave tomography. <i>Earth and Planetary Science Letters</i> , 2017 , 458, 405-417	5.3	33
59	Antarctic Blue Whale calls detection based on an improved version of the stochastic matched filter 2017 ,		2
58	Analyses of extreme swell events on La Réunion Island from microseismic noise. <i>Geophysical Journal International</i> , 2016 , 207, 1767-1782	2.6	11
57	Monitoring austral and cyclonic swells in the Îles Eparses (Mozambique channel) from microseismic noise. <i>Acta Oecologica</i> , 2016 , 72, 120-128	1.7	10
56	Crustal and uppermost mantle structure variation beneath La Réunion hotspot track. <i>Geophysical Journal International</i> , 2015 , 203, 107-126	2.6	50
55	Sources of secondary microseisms in the Indian Ocean. <i>Geophysical Journal International</i> , 2015 , 202, 1180-1189	2.6	20
54	Crustal and mantle structure beneath the Terre Adelie Craton, East Antarctica: insights from receiver function and seismic anisotropy measurements. <i>Geophysical Journal International</i> , 2015 , 200, 807-821	2.6	12
53	The 2007 eruptions and caldera collapse of the Piton de la Fournaise volcano (La Réunion Island) from tilt analysis at a single very broadband seismic station. <i>Geophysical Research Letters</i> , 2014 , 41, 2803-2811	4.9	29
52	Tracking major storms from microseismic and hydroacoustic observations on the seafloor. <i>Geophysical Research Letters</i> , 2014 , 41, 8825-8831	4.9	36
51	Contribution of AMS measurements in understanding the migmatitic terrains of Pointe Gbologie, Terre Adèle (East-Antarctica). <i>Tectonophysics</i> , 2013 , 603, 123-135	3.1	13
50	Mantle flow beneath La Réunion hotspot track from SKS splitting. <i>Earth and Planetary Science Letters</i> , 2013 , 362, 108-121	5.3	28
49	Investigating La Réunion Hot Spot From Crust to Core. <i>Eos</i> , 2013 , 94, 205-207	1.5	40
48	Tide-induced microseismicity in the Mertz glacier grounding area, East Antarctica. <i>Geophysical Research Letters</i> , 2013 , 40, 5412-5416	4.9	17
47	Numerical modelling of the upper-mantle anisotropy beneath a migrating strike-slip plate boundary: the San Andreas Fault system. <i>Geophysical Journal International</i> , 2012 , 191, 436-458	2.6	14

46	Belt-parallel mantle flow beneath a halted continental collision: The Western Alps. <i>Earth and Planetary Science Letters</i> , 2011 , 302, 429-438	5.3	49
45	Testing oceanic subduction and convective removal models for the Gibraltar arc: Seismological constraints from dispersion and anisotropy. <i>Tectonophysics</i> , 2011 , 502, 28-37	3.1	22
44	Upper mantle deformation beneath the North American-Pacific plate boundary in California from SKS splitting. <i>Journal of Geophysical Research</i> , 2010 , 115,		33
43	South Pacific hotspot swells dynamically supported by mantle flows. <i>Geophysical Research Letters</i> , 2010 , 37,	4.9	26
42	Evidence for ancient lithospheric deformation in the East European Craton based on mantle seismic anisotropy and crustal magnetics. <i>Tectonophysics</i> , 2010 , 481, 16-28	3.1	20
41	P-wave tomography of the mantle beneath the South Pacific Superswell revealed by joint ocean floor and islands broadband seismic experiments. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 172, 268-277	2.3	21
40	Identifying global seismic anisotropy patterns by correlating shear-wave splitting and surface-wave data. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 176, 198-212	2.3	114
39	South Pacific mantle plumes imaged by seismic observation on islands and seafloor. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	53
38	On the vertical extent of the large low shear velocity province beneath the South Pacific Superswell. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	19
37	Mapping upper mantle flow beneath French Polynesia from broadband ocean bottom seismic observations. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	18
36	Upper mantle anisotropy beneath Australia and Tahiti from P wave polarization: Implications for real-time earthquake location. <i>Journal of Geophysical Research</i> , 2009 , 114,		26
35	SplitLab: A shear-wave splitting environment in Matlab. <i>Computers and Geosciences</i> , 2008 , 34, 515-528	4.5	205
34	An integrated study of microstructural, geochemical, and seismic properties of the lithospheric mantle above the Kerguelen plume (Indian Ocean). <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	36
33	Seismic anisotropy beneath southern Iberia from SKS splitting. <i>Earth and Planetary Science Letters</i> , 2008 , 273, 237-250	5.3	46
32	Upper mantle flow beneath and around the Hangay dome, Central Mongolia. <i>Earth and Planetary Science Letters</i> , 2008 , 274, 221-233	5.3	42
31	Upper-mantle flow beneath French Polynesia from shear wave splitting. <i>Geophysical Journal International</i> , 2007 , 170, 1262-1288	2.6	55
30	Seismic anisotropy reveals the long route of the slab through the western-central Mediterranean mantle. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 517-529	5.3	85
29	Azimuthal anisotropy of the Pacific region. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 53-71	5.3	75

28	Characterizing swells in the southern Pacific from seismic and infrasonic noise analyses. <i>Geophysical Journal International</i> , 2006 , 164, 516-542	2.6	36
27	Multimode surface waveform tomography of the Pacific Ocean: a closer look at the lithospheric cooling signature. <i>Geophysical Journal International</i> , 2006 , 166, 1384-1397	2.6	80
26	Probing South Pacific mantle plumes with ocean bottom seismographs. <i>Eos</i> , 2005 , 86, 429	1.5	29
25	Mapping upper mantle anisotropy beneath SE France by SKS splitting indicates Neogene asthenospheric flow induced by Apenninic slab roll-back and deflected by the deep Alpine roots. <i>Tectonophysics</i> , 2004 , 394, 125-138	3.1	41
24	Mantle deformation or processing artefact?. <i>Nature</i> , 2003 , 422, 136-136	50.4	5
23	Shear wave splitting in SE Brazil: an effect of active or fossil upper mantle flow, or both?. <i>Earth and Planetary Science Letters</i> , 2003 , 211, 79-95	5.3	29
22	Mid-mantle deformation inferred from seismic anisotropy. <i>Nature</i> , 2002 , 415, 777-80	50.4	135
21	PLUME investigates South Pacific Superswell. <i>Eos</i> , 2002 , 83, 511	1.5	24
20	A Tertiary asthenospheric flow beneath the southern French Massif Central indicated by upper mantle seismic anisotropy and related to the west Mediterranean extension. <i>Earth and Planetary Science Letters</i> , 2002 , 202, 31-47	5.3	44
19	Upper mantle anisotropy beneath the African IRIS and Geoscope stations. <i>Geophysical Journal International</i> , 2001 , 146, 549-561	2.6	50
18	The Kaapvaal craton seismic anisotropy: Petrophysical analyses of upper mantle kimberlite nodules. <i>Geophysical Research Letters</i> , 2001 , 28, 2497-2500	4.9	62
17	EBSD-measured lattice-preferred orientations and seismic properties of eclogites. <i>Tectonophysics</i> , 2001 , 342, 61-80	3.1	110
16	The Seismic anisotropy of the Earth's mantle: From single crystal to polycrystal. <i>Geophysical Monograph Series</i> , 2000 , 237-264	1.1	145
15	Upper mantle deformation and seismic anisotropy in continental rifts. <i>Physics and Chemistry of the Earth</i> , 2000 , 25, 111-117		64
14	Upper mantle anisotropy beneath the Geoscope stations. <i>Journal of Geophysical Research</i> , 1999 , 104, 10757-10773		117
13	Comment on SKS splitting beneath continental rifts zones by Gao et al.. <i>Journal of Geophysical Research</i> , 1999 , 104, 10787-10789		19
12	Rheological heterogeneity, mechanical anisotropy and deformation of the continental lithosphere. <i>Tectonophysics</i> , 1998 , 296, 61-86	3.1	126
11	Lithospheric anisotropy beneath the Pyrenees from shear wave splitting. <i>Journal of Geophysical Research</i> , 1998 , 103, 30039-30053		49

10	Shear wave splitting around the northern Atlantic: frozen Pangaeen lithospheric anisotropy?. <i>Tectonophysics</i> , 1997 , 279, 135-148	3.1	51
9	Seismic anisotropy in the eastern United States: Deep structure of a complex continental plate. <i>Journal of Geophysical Research</i> , 1997 , 102, 8329-8348		144
8	Why do continents break-up parallel to ancient orogenic belts?. <i>Terra Nova</i> , 1997 , 9, 62-66	3	130
7	Seismic anisotropy and shear-wave splitting in lower-crustal and upper-mantle rocks from the Ivrea Zone: Experimental and calculated data. <i>Physics of the Earth and Planetary Interiors</i> , 1996 , 95, 175-194	2.3	144
6	Shear-wave splitting in the Appalachians and the Pyrenees: importance of the inherited tectonic fabric of the lithosphere. <i>Physics of the Earth and Planetary Interiors</i> , 1996 , 95, 127-138	2.3	30
5	Anisotropy beneath the Pyrenees Range from teleseismic shear wave splitting: Results from a test experiment. <i>Geophysical Research Letters</i> , 1995 , 22, 493-496	4.9	32
4	3-D seismic velocities calculated from lattice-preferred orientation and reflectivity of a lower crustal section: examples of the Val Sesia section (Ivrea zone, northern Italy). <i>Geophysical Journal International</i> , 1993 , 115, 1169-1188	2.6	59
3	A quantitative evaluation of the contribution of crustal rocks to the shear-wave splitting of teleseismic SKS waves. <i>Physics of the Earth and Planetary Interiors</i> , 1993 , 78, 281-300	2.3	145
2	3D seismic study of a ductile shear zone from laboratory and petrofabric data (Saint Barthélemy Massif, Northern Pyrenees, France). <i>Terra Nova</i> , 1992 , 4, 63-76	3	25
1	Performance report of the RHUM-RUM ocean bottom seismometer network around La Réunion, western Indian Ocean. <i>Advances in Geosciences</i> , 41, 43-63		44