

# Philippe Charvis

## List of Publications by Citations

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85  
papers

3,455  
citations

37  
h-index

57  
g-index

95  
ext. papers

3,763  
ext. citations

3.5  
avg, IF

4.14  
L-index

#	Paper	IF	Citations
85	ANTARES: The first undersea neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 656, 11-38	1.2	363
84	Western Hellenic subduction and Cephalonia Transform: local earthquakes and plate transport and strain. <i>Tectonophysics</i> , <b>2000</b> , 319, 301-319	3.1	120
83	The data acquisition system for the ANTARES neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 570, 107-116	1.2	113
82	Are rupture zone limits of great subduction earthquakes controlled by upper plate structures? Evidence from multichannel seismic reflection data acquired across the northern Ecuador-Southwest Colombia margin. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		98
81	SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. <i>Astrophysical Journal</i> , <b>2012</b> , 760, 53	4.7	90
80	Supercycle at the Ecuadorian subduction zone revealed after the 2016 Pedernales earthquake. <i>Nature Geoscience</i> , <b>2017</b> , 10, 145-149	18.3	83
79	Seismic structure of Cocos and Malpelo Volcanic Ridges and implications for hot spot-ridge interaction. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		83
78	Transmission of light in deep sea water at the site of the Antares neutrino telescope. <i>Astroparticle Physics</i> , <b>2005</b> , 23, 131-155	2.4	79
77	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. <i>Astroparticle Physics</i> , <b>2006</b> , 26, 314-324	2.4	76
76	Perturbation to the lithosphere along the hotspot track of La R�union from an offshore-onshore seismic transect. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 2895-2908		72
75	Deep structure of the northern Kerguelen Plateau and hotspot-related activity. <i>Geophysical Journal International</i> , <b>1995</b> , 122, 899-924	2.6	72
74	Seismic structure of the Carnegie ridge and the nature of the Gal�agos hotspot. <i>Geophysical Journal International</i> , <b>2005</b> , 161, 763-788	2.6	70
73	Spatial distribution of hotspot material added to the lithosphere under La R�union, from wide-angle seismic data. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 2875-2893		69
72	Distribution of discrete seismic asperities and aseismic slip along the Ecuadorian megathrust. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 400, 292-301	5.3	68
71	Deep structure of the central Lesser Antilles Island Arc: Relevance for the formation of continental crust. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 304, 121-134	5.3	68
70	Time calibration of the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 539-549	2.4	67
69	A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 652-662	2.4	63

68	Crustal thickness constraints on the geodynamic evolution of the Galapagos Volcanic Province. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 214, 545-559	5.3	63
67	Study of large hemispherical photomultiplier tubes for the ANTARES neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2005</b> , 555, 132-141	1.2	61
66	Deep structure of the southern Kerguelen Plateau (southern Indian Ocean) from ocean bottom seismometer wide-angle seismic data. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 25077-25103		61
65	Measurement of atmospheric neutrino oscillations with the ANTARES neutrino telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 224-230	4.2	58
64	Search for a diffuse flux of high-energy . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 696, 16-22	4.2	56
63	Deep structures of the Ecuador convergent margin and the Carnegie Ridge, possible consequence on great earthquakes recurrence interval. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	55
62	Search for muon neutrinos from gamma-ray bursts with the ANTARES neutrino telescope using 2008 to 2011 data. <i>Astronomy and Astrophysics</i> , <b>2013</b> , 559, A9	5.1	50
61	AMADEUS—the acoustic neutrino detection test system of the ANTARES deep-sea neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 626-627, 128-143	1.2	50
60	The ANTARES optical beacon system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 578, 498-509	1.2	49
59	Subducted oceanic relief locks the shallow megathrust in central Ecuador. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 3286-3305	3.6	48
58	Measurement of the atmospheric energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	48
57	Structure and development of a microcontinent: Elan Bank in the southern Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4, n/a-n/a	3.6	48
56	Vertical movements and material transport during hotspot activity: Seismic reflection profiling offshore La Réunion. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 2855-2874		48
55	Exploring the Ecuador-Colombia Active Margin and Interplate Seismogenic Zone. <i>Eos</i> , <b>2002</b> , 83, 185	1.5	47
54	Deep-sea bioluminescence blooms after dense water formation at the ocean surface. <i>PLoS ONE</i> , <b>2013</b> , 8, e67523	3.7	46
53	Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. <i>Astroparticle Physics</i> , <b>2010</b> , 34, 179-184	2.4	45
52	Seismic structure and the active Hellenic subduction in the Ionian islands. <i>Tectonophysics</i> , <b>2000</b> , 329, 141-156	3.1	43
51	Kerguelen Plateau: A volcanic passive margin fragment?. <i>Geology</i> , <b>1995</b> , 23, 137	5	42

50	Segmentation of the Nazca and South American plates along the Ecuador subduction zone from wide angle seismic profiles. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 260, 444-464	5.3	41
49	Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , <b>2012</b> , 35, 634-640	2.4	38
48	Performance of the first ANTARES detector line. <i>Astroparticle Physics</i> , <b>2009</b> , 31, 277-283	2.4	37
47	The positioning system of the ANTARES Neutrino Telescope. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, T08002-T08003	2.4	36
46	The ANTARES telescope neutrino alert system. <i>Astroparticle Physics</i> , <b>2012</b> , 35, 530-536	2.4	35
45	FIRST SEARCH FOR POINT SOURCES OF HIGH-ENERGY COSMIC NEUTRINOS WITH THE ANTARES NEUTRINO TELESCOPE. <i>Astrophysical Journal Letters</i> , <b>2011</b> , 743, L14	7.9	35
44	Structure of the Cretaceous Kerguelen Volcanic Province (southern Indian Ocean) from wide-angle seismic data.. <i>Journal of Geodynamics</i> , <b>1999</b> , 28, 51-71	2.2	35
43	The 2010 Haiti earthquake: A complex fault pattern constrained by seismologic and tectonic observations. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	33
42	Dehydration of subducting slow-spread oceanic lithosphere in the Lesser Antilles. <i>Nature Communications</i> , <b>2017</b> , 8, 15980	17.4	32
41	Reflection-refraction seismics in the Gulf of Corinth: hints at deep structure and control of the deep marine basin. <i>Tectonophysics</i> , <b>2004</b> , 391, 97-108	3.1	32
40	Seismic structure and activity of the north-central Lesser Antilles subduction zone from an integrated approach: Similarities with the Tohoku forearc. <i>Tectonophysics</i> , <b>2013</b> , 603, 1-20	3.1	31
39	Measurement of the atmospheric muon flux with a 4GeV threshold in the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , <b>2010</b> , 33, 86-90	2.4	31
38	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2013</b> , 2013, 008-008	6.4	29
37	Fields of multi-kilometer scale sub-circular depressions in the Carnegie Ridge sedimentary blanket: Effect of underwater carbonate dissolution?. <i>Marine Geology</i> , <b>2005</b> , 216, 205-219	3.3	27
36	Geophysical evidence for a transform margin offshore Western Algeria: a witness of a subduction-transform edge propagator?. <i>Geophysical Journal International</i> , <b>2015</b> , 200, 1029-1045	2.6	26
35	Deep structure of the continental margin and basin off Greater Kabylia, Algeria [New insights from wide-angle seismic data modeling and multichannel seismic interpretation. <i>Tectonophysics</i> , <b>2018</b> , 728-729, 1-22	3.1	25
34	Small-scale crustal variability within an intraplate structure: the Crozet Bank (southern Indian Ocean). <i>Geophysical Journal International</i> , <b>1998</b> , 134, 145-156	2.6	25
33	A seismic refraction survey in the Kerguelen Isles, southern Indian Ocean. <i>Geophysical Journal International</i> , <b>1986</b> , 84, 529-559	2.6	25

32	The northern New Hebrides back-arc troughs: history and relation with the North Fiji basin. <i>Tectonophysics</i> , <b>1989</b> , 170, 259-277	3.1	24
31	A search for neutrino emission from the Fermi bubbles with the ANTARES telescope. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	23
30	Structure of the Lesser Antilles subduction forearc and backstop from 3D seismic refraction tomography. <i>Tectonophysics</i> , <b>2013</b> , 603, 55-67	3.1	23
29	Seismic activity offshore Martinique and Dominica islands (Central Lesser Antilles subduction zone) from temporary onshore and offshore seismic networks. <i>Tectonophysics</i> , <b>2013</b> , 603, 68-78	3.1	16
28	Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. <i>Astroparticle Physics</i> , <b>2012</b> , 36, 204-210	2.4	16
27	Ocean island densities and models of lithospheric flexure. <i>Geophysical Journal International</i> , <b>2001</b> , 145, 731-739	2.6	16
26	Ridge subduction and afterslip control aftershock distribution of the 2016 Mw 7.8 Ecuador earthquake. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 520, 63-76	5.3	15
25	Seismological study of the central Ecuadorian margin: Evidence of upper plate deformation. <i>Journal of South American Earth Sciences</i> , <b>2011</b> , 31, 139-152	2	13
24	Acoustic and optical variations during rapid downward motion episodes in the deep north-western Mediterranean Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2011</b> , 58, 875-884	2.5	12
23	Seismicity Distribution Near a Subducting Seamount in the Central Ecuadorian Subduction Zone, Space-Time Relation to a Slow-Slip Event. <i>Tectonics</i> , <b>2018</b> , 37, 2106-2123	4.3	12
22	The 2016 Mw 7.8 Pedernales, Ecuador, Earthquake: Rapid Response Deployment. <i>Seismological Research Letters</i> , <b>2019</b> , 90, 1346-1354	3	11
21	Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 584, 695-700	1.2	11
20	Structure of the Malpelo Ridge (Colombia) from seismic and gravity modelling. <i>Marine Geophysical Researches</i> , <b>2006</b> , 27, 289-300	2.3	11
19	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> , <b>2020</b> , 220, 1965-1977	2.6	11
18	Crustal structure beneath the Strait of Juan de Fuca and southern Vancouver Island from seismic and gravity analyses. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		10
17	SEARCH FOR A CORRELATION BETWEEN ANTARES NEUTRINOS AND PIERRE AUGER OBSERVATORY UHECRs ARRIVAL DIRECTIONS. <i>Astrophysical Journal</i> , <b>2013</b> , 774, 19	4.7	9
16	Structure profonde du mont Ross d'après la réfraction sismique (Îles Kerguelen, océan Indien austral). <i>Canadian Journal of Earth Sciences</i> , <b>1994</b> , 31, 1806-1821	1.5	9
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> , <b>2020</b> , 125, e2019JB018001	3.6	8

14	A search for time dependent neutrino emission from microquasars with the ANTARES telescope. <i>Journal of High Energy Astrophysics</i> , <b>2014</b> , 3-4, 9-17	2.5	8
13	Early development of the southern Kerguelen Plateau (Indian Ocean) from shallow wide-angle ocean bottom seismometer and multichannel seismic reflection data. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 24085-24108		8
12	Triggered crustal earthquake swarm across subduction segment boundary after the 2016 Pedernales, Ecuador megathrust earthquake. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 553, 116620	5.3	8
11	Structure of the Ecuadorian forearc from the joint inversion of receiver functions and ambient noise surface waves. <i>Geophysical Journal International</i> , <b>2020</b> , 222, 1671-1685	2.6	7
10	Three-dimensional velocity structure of the outer fore arc of the Colombia-Ecuador subduction zone and implications for the 1958 megathrust earthquake rupture zone. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 1041-1060	3.6	7
9	La ride asismique de Kerguelen-Heard [Anomalie du geoide et compensation isostatique. <i>Marine Geology</i> , <b>1987</b> , 76, 301-311	3.3	4
8	Deep Sea Net: an affordable, and expandable solution for deep sea sensor networks <b>2007</b> ,		3
7	Analysis of Tsunami Tide Gauge Records Following the 2016 Ecuadorian Earthquake and Tsunami. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , <b>2018</b> , 144, 05017004	1.7	3
6	Measurement of the group velocity of light in sea water at the ANTARES site. <i>Astroparticle Physics</i> , <b>2012</b> , 35, 552-557	2.4	2
5	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> , <b>2021</b> , 126, e2020JB020701	3.6	2
4	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> , <b>2021</b> , 126, e2021JB021746	3.6	2
3	A method for detection of muon induced electromagnetic showers with the ANTARES detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 675, 56-62	1.2	1
2	A real time seismological station at 2500 m depth in front Toulon <b>2008</b> ,		1
1	Formation, segmentation and deep crustal structure variations along the Algerian margin from the SPIRAL seismic experiment. <i>Journal of African Earth Sciences</i> , <b>2022</b> , 186, 104433	2.2	1