

Philippe Charvis

List of Publications by Year in descending order

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89
papers

4,197
citations

66234

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114278

63
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95
all docs

95
docs citations

95
times ranked

4017
citing authors

#	ARTICLE	IF	CITATIONS
1	ANTARES: The first undersea neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 656, 11-38.	0.7	441
2	The data acquisition system for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 107-116.	0.7	138
3	Western Hellenic subduction and Cephalonia Transform: local earthquakes and plate transport and strain. Tectonophysics, 2000, 319, 301-319.	0.9	136
4	Supercycle at the Ecuadorian subduction zone revealed after the 2016 Pedernales earthquake. Nature Geoscience, 2017, 10, 145-149.	5.4	117
5	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. Journal of Geophysical Research, 2004, 109, .	3.3	114
6	SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. Astrophysical Journal, 2012, 760, 53.	1.6	104
7	Transmission of light in deep sea water at the site of the Antares neutrino telescope. Astroparticle Physics, 2005, 23, 131-155.	1.9	101
8	Seismic structure of Cocos and Malpelo Volcanic Ridges and implications for hot spot-ridge interaction. Journal of Geophysical Research, 2003, 108, .	3.3	99
9	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324.	1.9	99
10	Distribution of discrete seismic asperities and aseismic slip along the Ecuadorian megathrust. Earth and Planetary Science Letters, 2014, 400, 292-301.	1.8	89
11	Deep structure of the northern Kerguelen Plateau and hotspot-related activity. Geophysical Journal International, 1995, 122, 899-924.	1.0	88
12	Time calibration of the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 539-549.	1.9	85
13	Deep structure of the central Lesser Antilles Island Arc: Relevance for the formation of continental crust. Earth and Planetary Science Letters, 2011, 304, 121-134.	1.8	83
14	Seismic structure of the Carnegie ridge and the nature of the Galápagos hotspot. Geophysical Journal International, 2005, 161, 763-788.	1.0	82
15	Perturbation to the lithosphere along the hotspot track of La Réunion from an offshore-onshore seismic transect. Journal of Geophysical Research, 1999, 104, 2895-2908.	3.3	80
16	Spatial distribution of hotspot material added to the lithosphere under La Réunion, from wide-angle seismic data. Journal of Geophysical Research, 1999, 104, 2875-2893.	3.3	80
17	A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 652-662.	1.9	80
18	Deep structure of the southern Kerguelen Plateau (southern Indian Ocean) from ocean bottom seismometer wide-angle seismic data. Journal of Geophysical Research, 1996, 101, 25077-25103.	3.3	73

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19	Crustal thickness constraints on the geodynamic evolution of the Galapagos Volcanic Province. <i>Earth and Planetary Science Letters</i> , 2003, 214, 545-559.	1.8	73
20	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> , 2005, 555, 132-141.	0.7	71
21	Subducted oceanic relief locks the shallow megathrust in central Ecuador. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3286-3305.	1.4	66
22	Measurement of atmospheric neutrino oscillations with the ANTARES neutrino telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 714, 224-230.	1.5	63
23	Deep structures of the Ecuador convergent margin and the Carnegie Ridge, possible consequence on great earthquakes recurrence interval. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	62
24	The ANTARES optical beacon system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 578, 498-509.	0.7	61
25	Search for a diffuse flux of high-energy $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \hat{1}/2 \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{1}/4 \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ with the ANTARES neutrino telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 686, 16-22.	1.5	59
26	Structure and development of a microcontinent: Elan Bank in the southern Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	1.0	58
27	AMADEUSâ€”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> , 2011, 626-627, 128-143.	0.7	58
28	Deep-Sea Bioluminescence Blooms after Dense Water Formation at the Ocean Surface. <i>PLoS ONE</i> , 2013, 8, e67523.	1.1	58
29	Search for muon neutrinos from gamma-ray bursts with the ANTARES neutrino telescope using 2008 to 2011 data. <i>Astronomy and Astrophysics</i> , 2013, 559, A9.	2.1	57
30	Exploring the Ecuador-Colombia Active Margin and Interplate Seismogenic Zone. <i>Eos</i> , 2002, 83, 185.	0.1	55
31	Vertical movements and material transport during hotspot activity: Seismic reflection profiling offshore La R�union. <i>Journal of Geophysical Research</i> , 1999, 104, 2855-2874.	3.3	53
32	Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. <i>Astroparticle Physics</i> , 2010, 34, 179-184.	1.9	53
33	Measurement of the atmospheric $\hat{1}/2 \hat{1}/4$ energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. <i>European Physical Journal C</i> , 2013, 73, 1.	1.4	51
34	Dehydration of subducting slow-spread oceanic lithosphere in the Lesser Antilles. <i>Nature Communications</i> , 2017, 8, 15980.	5.8	50
35	The 2010 Haiti earthquake: A complex fault pattern constrained by seismologic and tectonic observations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	49
36	The positioning system of the ANTARES Neutrino Telescope. <i>Journal of Instrumentation</i> , 2012, 7, T08002-T08002.	0.5	48

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37	Kerguelen Plateau: A volcanic passive margin fragment?. <i>Geology</i> , 1995, 23, 137.	2.0	47
38	Seismic structure and the active Hellenic subduction in the Ionian islands. <i>Tectonophysics</i> , 2000, 329, 141-156.	0.9	47
39	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> , 2007, 260, 444-464.	1.8	47
40	Performance of the first ANTARES detector line. <i>Astroparticle Physics</i> , 2009, 31, 277-283.	1.9	47
41	FIRST SEARCH FOR POINT SOURCES OF HIGH-ENERGY COSMIC NEUTRINOS WITH THE ANTARES NEUTRINO TELESCOPE. <i>Astrophysical Journal Letters</i> , 2011, 743, L14.	3.0	43
42	Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2012, 35, 634-640.	1.9	43
43	The ANTARES telescope neutrino alert system. <i>Astroparticle Physics</i> , 2012, 35, 530-536.	1.9	39
44	Structure of the Cretaceous Kerguelen Volcanic Province (southern Indian Ocean) from wide-angle seismic data.. <i>Journal of Geodynamics</i> , 1999, 28, 51-71.	0.7	37
45	Seismic structure and activity of the north-central Lesser Antilles subduction zone from an integrated approach: Similarities with the Tohoku forearc. <i>Tectonophysics</i> , 2013, 603, 1-20.	0.9	37
46	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> , 2018, 728-729, 1-22.	0.9	35
47	Reflection – refraction seismics in the Gulf of Corinth: hints at deep structure and control of the deep marine basin. <i>Tectonophysics</i> , 2004, 391, 97-108.	0.9	34
48	Measurement of the atmospheric muon flux with a 4GeV threshold in the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2010, 33, 86-90.	1.9	34
49	Fields of multi-kilometer scale sub-circular depressions in the Carnegie Ridge sedimentary blanket: Effect of underwater carbonate dissolution?. <i>Marine Geology</i> , 2005, 216, 205-219.	0.9	32
50	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> , 2013, 2013, 008-008.	1.9	32
51	A seismic refraction survey in the Kerguelen Isles, southern Indian Ocean. <i>Geophysical Journal International</i> , 1986, 84, 529-559.	1.0	31
52	Geophysical evidence for a transform margin offshore Western Algeria: a witness of a subduction-transform edge propagator?. <i>Geophysical Journal International</i> , 2015, 200, 1029-1045.	1.0	31
53	Structure of the Lesser Antilles subduction forearc and backstop from 3D seismic refraction tomography. <i>Tectonophysics</i> , 2013, 603, 55-67.	0.9	27
54	Ridge subduction and afterslip control aftershock distribution of the 2016 Mw 7.8 Ecuador earthquake. <i>Earth and Planetary Science Letters</i> , 2019, 520, 63-76.	1.8	27

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55	The northern New Hebrides back-arc troughs: history and relation with the North Fiji basin. <i>Tectonophysics</i> , 1989, 170, 259-277.	0.9	26
56	Small-scale crustal variability within an intraplate structure: the Crozet Bank (southern Indian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.0	26
57	A search for neutrino emission from the Fermi bubbles with the ANTARES telescope. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	25
58	Ocean island densities and models of lithospheric flexure. <i>Geophysical Journal International</i> , 2001, 145, 731-739.	1.0	22
59	Seismic activity offshore Martinique and Dominica islands (Central Lesser Antilles subduction zone) from temporary onshore and offshore seismic networks. <i>Tectonophysics</i> , 2013, 603, 68-78.	0.9	20
60	Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. <i>Astroparticle Physics</i> , 2012, 36, 204-210.	1.9	19
61	Seismicity Distribution Near a Subducting Seamount in the Central Ecuadorian Subduction Zone, Spaceâ€Time Relation to a Slowâ€Slip Event. <i>Tectonics</i> , 2018, 37, 2106-2123.	1.3	18
62	The 2016 Mwâ€7.8 Pedernales, Ecuador, Earthquake: Rapid Response Deployment. <i>Seismological Research Letters</i> , 2019, 90, 1346-1354.	0.8	17
63	Triggered crustal earthquake swarm across subduction segment boundary after the 2016 Pedernales, Ecuador megathrust earthquake. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116620.	1.8	16
64	Structure of the Malpelo Ridge (Colombia) from seismic and gravity modelling. <i>Marine Geophysical Researches</i> , 2006, 27, 289-300.	0.5	15
65	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> , 2011, 58, 875-884.	0.6	15
66	Seismological study of the central Ecuadorian margin: Evidence of upper plate deformation. <i>Journal of South American Earth Sciences</i> , 2011, 31, 139-152.	0.6	15
67	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> , 2020, 220, 1965-1977.	1.0	15
68	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> , 2020, 125, e2019JB018001.	1.4	14
69	Crustal structure beneath the Strait of Juan de Fuca and southern Vancouver Island from seismic and gravity analyses. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	13
70	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> , 2007, 581, 695-708.	0.7	13
71	Structure profonde du mont Ross d'aprÃs la rÃfraction sismique (Ãles Kerguelen, ocÃan Indien) Tj ETQq1 1 0,784314 rgBT /Overlock 12	0.6	12
72	SEARCH FOR A CORRELATION BETWEEN ANTARES NEUTRINOS AND PIERRE AUGER OBSERVATORY UHECRs ARRIVAL DIRECTIONS. <i>Astrophysical Journal</i> , 2013, 774, 19.	1.6	12

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73	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> , 1998, 103, 24085-24108.	3.3	9
74	A search for time dependent neutrino emission from microquasars with the ANTARES telescope. <i>Journal of High Energy Astrophysics</i> , 2014, 3-4, 9-17.	2.4	9
75	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> , 2014, 119, 1041-1060.	1.4	8
76	Structure of the Ecuadorian forearc from the joint inversion of receiver functions and ambient noise surface waves. <i>Geophysical Journal International</i> , 2020, 222, 1671-1685.	1.0	8
77	Repeating Earthquakes at the Edge of the Afterslip of the 2016 Ecuadorian $M_w > 7.8$ Pedernales Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021746.	1.4	8
78	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> , 2021, 126, e2020JB020701.	1.4	6
79	Formation, segmentation and deep crustal structure variations along the Algerian margin from the SPIRAL seismic experiment. <i>Journal of African Earth Sciences</i> , 2022, 186, 104433.	0.9	6
80	La ride asismique de Kerguelen-Heard " Anomalie du geoide et compensation isostatique. <i>Marine Geology</i> , 1987, 76, 301-311.	0.9	5
81	Analysis of Tsunami Tide Gauge Records Following the 2016 Ecuadorian Earthquake and Tsunami. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2018, 144, .	0.5	5
82	Deep Sea Net: an affordable, and expandable solution for deep sea sensor networks. , 2007, , .		4
83	Measurement of the group velocity of light in sea water at the ANTARES site. <i>Astroparticle Physics</i> , 2012, 35, 552-557.	1.9	4
84	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> , 2012, 675, 56-62.	0.7	2
85	Sedimentary and Crustal Structure of the North Aoba Basin from Seismic Refraction Data. , 0, , .		2
86	Sea bottom effects at low seismic frequencies: Observation and modeling. , 0, , .		1
87	A real time seismological station at 2500 m depth in front Toulon. , 2008, , .		1
88	New versatile autonomous platforms for long-term geophysical monitoring in the ocean. , 2019, , .		0
89	Accurate Hypocenter Determination in Lesser Antilles Region from the Sismantilles I Experiment. , 2012, , .		0