

Christian Tamburini

List of Publications by Year in descending order

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102
papers

6,007
citations

61945

43
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74108

75
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112
all docs

112
docs citations

112
times ranked

6413
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	Marine ecosystemsâ€™ responses to climatic and anthropogenic forcings in the Mediterranean. Progress in Oceanography, 2011, 91, 97-166.	1.5	385
3	Major viral impact on the functioning of benthic deep-sea ecosystems. Nature, 2008, 454, 1084-1087.	13.7	366
4	Reconciliation of the carbon budget in the oceanâ€™s twilight zone. Nature, 2014, 507, 480-483.	13.7	307
5	The Enigma of Prokaryotic Life in Deep Hypersaline Anoxic Basins. Science, 2005, 307, 121-123.	6.0	275
6	Assessing the apparent imbalance between geochemical and biochemical indicators of meso- and bathypelagic biological activity: What the @â€™! is wrong with present calculations of carbon budgets?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1557-1571.	0.6	268
7	Mesopelagic zone ecology and biogeochemistry â€“ a synthesis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1504-1518.	0.6	254
8	Stratified prokaryote network in the oxicâ€“anoxic transition of a deep-sea halocline. Nature, 2006, 440, 203-207.	13.7	215
9	Prokaryotic responses to hydrostatic pressure in the ocean â€“ a review. Environmental Microbiology, 2013, 15, 1262-1274.	1.8	154
10	Emerging concepts on microbial processes in the bathypelagic ocean â€“ ecology, biogeochemistry, and genomics. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1519-1536.	0.6	153
11	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
12	SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. Astrophysical Journal, 2012, 760, 53.	1.6	104
13	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324.	1.9	99
14	Biopolymer hydrolysis and bacterial production under ambient hydrostatic pressure through a 2000m water column in the NW Mediterranean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2109-2123.	0.6	94
15	SEARCHES FOR POINT-LIKE AND EXTENDED NEUTRINO SOURCES CLOSE TO THE GALACTIC CENTER USING THE ANTARES NEUTRINO TELESCOPE. Astrophysical Journal Letters, 2014, 786, L5.	3.0	88
16	Role of deep-sea bacteria in organic matter mineralization and adaptation to hydrostatic pressure conditions in the NW Mediterranean Sea. Aquatic Microbial Ecology, 2003, 32, 209-218.	0.9	87
17	Time calibration of the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 539-549.	1.9	85
18	Distribution and activity of Bacteria and Archaea in the different water masses of the Tyrrhenian Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 700-712.	0.6	80

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19	A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2011, 34, 652-662.	1.9	80
20	<i>Desulfovibrio piezophilus</i> sp. nov., a piezophilic, sulfate-reducing bacterium isolated from wood falls in the Mediterranean Sea. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 2706-2711.	0.8	73
21	Effects of hydrostatic pressure on microbial alteration of sinking fecal pellets. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1533-1546.	0.6	71
22	Pressure effects on surface Mediterranean prokaryotes and biogenic silica dissolution during a diatom sinking experiment. <i>Aquatic Microbial Ecology</i> , 2006, 43, 267-276.	0.9	66
23	Transcriptomics Reveal Several Gene Expression Patterns in the Piezophile <i>Desulfovibrio hydrothermalis</i> in Response to Hydrostatic Pressure. <i>PLoS ONE</i> , 2014, 9, e106831.	1.1	65
24	Pressure-Retaining Sampler and High-Pressure Systems to Study Deep-Sea Microbes Under in situ Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 453.	1.5	64
25	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
26	Deep sediment resuspension and thick nepheloid layer generation by open-ocean convection. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2291-2318.	1.0	63
27	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
28	Search for a diffuse flux of high-energy ν_{μ} with the ANTARES neutrino telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 16-22.	1.5	59
29	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> , 2011, 626-627, 128-143.	0.7	58
30	Deep-Sea Bioluminescence Blooms after Dense Water Formation at the Ocean Surface. <i>PLoS ONE</i> , 2013, 8, e67523.	1.1	58
31	Determination of the bacterial processes which are sources of nitrous oxide production in marine samples. <i>Water Research</i> , 2002, 36, 722-732.	5.3	57
32	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
33	Organic additive release from plastic to seawater is lower under deep-sea conditions. <i>Nature Communications</i> , 2021, 12, 4426.	5.8	55
34	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
35	Performance of the front-end electronics of the ANTARES neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 622, 59-73.	0.7	51
36	Hydrostatic pressure affects membrane and storage lipid compositions of the piezotolerant hydrocarbon-degrading <i>Marinobacter hydrocarbonoclasticus</i> strain #5. <i>Environmental Microbiology</i> , 2010, 12, 2020-2033.	1.8	51

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37	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
38	Effects of Hydrostatic Pressure on Growth and Luminescence of a Moderately-Piezophilic Luminous Bacteria <i>Photobacterium phosphoreum</i> ANT-2200. <i>PLoS ONE</i> , 2013, 8, e66580.	1.1	49
39	Long-term monitoring programme of the hydrological variability in the Mediterranean Sea: a first overview of the HYDROCHANGES network. <i>Ocean Science</i> , 2013, 9, 301-324.	1.3	49
40	THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. <i>Astrophysical Journal</i> , 2016, 823, 65.	1.6	49
41	The positioning system of the ANTARES Neutrino Telescope. <i>Journal of Instrumentation</i> , 2012, 7, T08002-T08002.	0.5	48
42	Performance of the first ANTARES detector line. <i>Astroparticle Physics</i> , 2009, 31, 277-283.	1.9	47
43	The First Genomic and Proteomic Characterization of a Deep-Sea Sulfate Reducer: Insights into the Piezophilic Lifestyle of <i>Desulfovibrio piezophilus</i> . <i>PLoS ONE</i> , 2013, 8, e55130.	1.1	44
44	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
45	Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2012, 35, 634-640.	1.9	43
46	Siâ€C interactions during degradation of the diatom <i>Skeletonema marinoi</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1381-1395.	0.6	39
47	The ANTARES telescope neutrino alert system. <i>Astroparticle Physics</i> , 2012, 35, 530-536.	1.9	39
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	Bacterial Bioluminescence: Light Emission in <i>Photobacterium phosphoreum</i> Is Not Under Quorum-Sensing Control. <i>Frontiers in Microbiology</i> , 2019, 10, 365.	1.5	34
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	MedFlux: Investigations of particle flux in the Twilight Zone. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1363-1368.	0.6	31
52	Mesopelagic microbial carbon production correlates with diversity across different marine particle fractions. <i>ISME Journal</i> , 2021, 15, 1695-1708.	4.4	31
53	Search of dark matter annihilation in the galactic centre using the ANTARES neutrino telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 068-068.	1.9	30
54	Towards Integrating Evolution, Metabolism, and Climate Change Studies of Marine Ecosystems. <i>Trends in Ecology and Evolution</i> , 2019, 34, 1022-1033.	4.2	28

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55	Hydrostatic Pressure Helps to Cultivate an Original Anaerobic Bacterium From the Atlantis Massif Subseafloor (IODP Expedition 357): <i>Petrocella atlantisensis</i> gen. nov. sp. nov.. <i>Frontiers in Microbiology</i> , 2019, 10, 1497.	1.5	28
56	Assimilation of marine extracellular polymeric substances by deep-sea prokaryotes in the NW Mediterranean Sea. <i>Environmental Microbiology Reports</i> , 2011, 3, 705-709.	1.0	26
57	Impact of an intense water column mixing (0â€“1500 m) on prokaryotic diversity and activities during an openâ€œcean convection event in the NW Mediterranean Sea. <i>Environmental Microbiology</i> , 2016, 18, 4378-4390.	1.8	26
58	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
59	Cultivation-independent assessment of the bathypelagic archaeal diversity of Tyrrhenian Sea: Comparative study of rDNA and rRNA-derived libraries and influence of sample decompression. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 768-773.	0.6	24
60	Luminous bacteria in the deep-sea waters near the ANTARES underwater neutrino telescope (Mediterranean Sea). <i>Chemistry and Ecology</i> , 2010, 26, 57-72.	0.6	24
61	The POM-DOM piezophilic microorganism continuum (PDPMC)â€”The role of piezophilic microorganisms in the global ocean carbon cycle. <i>Science China Earth Sciences</i> , 2015, 58, 106-115.	2.3	24
62	Towards a congruent reclassification and nomenclature of the thermophilic species of the genus <i>Pseudothermotoga</i> within the order <i>Thermotogales</i> . <i>Systematic and Applied Microbiology</i> , 2018, 41, 555-563.	1.2	24
63	Optical and X-ray early follow-up of ANTARES neutrino alerts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 062-062.	1.9	21
64	Biodegradation of <i>Emiliania huxleyi</i> aggregates by a natural Mediterranean prokaryotic community under increasing hydrostatic pressure. <i>Progress in Oceanography</i> , 2018, 163, 271-281.	1.5	21
65	First results on dark matter annihilation in the Sun using the ANTARES neutrino telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 032-032.	1.9	20
66	Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. <i>Astroparticle Physics</i> , 2012, 36, 204-210.	1.9	19
67	Relation between deep bioluminescence and oceanographic variables: A statistical analysis using timeâ€“frequency decompositions. <i>Progress in Oceanography</i> , 2014, 127, 117-128.	1.5	18
68	Genomic and physiological analysis reveals versatile metabolic capacity of deep-sea <i>Photobacterium phosphoreum</i> ANT-2200. <i>Extremophiles</i> , 2016, 20, 301-310.	0.9	18
69	Deciphering the adaptation strategies of <i>Desulfovibrio piezophilus</i> to hydrostatic pressure through metabolic and transcriptional analyses. <i>Environmental Microbiology Reports</i> , 2016, 8, 520-526.	1.0	17
70	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
71	ANTARES constrains a blazar origin of two IceCube PeV neutrino events. <i>Astronomy and Astrophysics</i> , 2015, 576, L8.	2.1	15
72	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

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91	Time calibration with atmospheric muon tracks in the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2016, 78, 43-51.	1.9	5
92	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
93	Glutamate optimizes enzymatic activity under high hydrostatic pressure in <i>Desulfovibrio</i> species: effects on the ubiquitous thioredoxin system. <i>Extremophiles</i> , 2021, 25, 385-392.	0.9	3
94	<i>Biodiversity and Extremophiles.</i> , 2006, , 3-143.		2
95	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
96	<i>Methods for Studying Microorganisms in the Environment.</i> , 2015, , 757-829.		2
97	On the barium- ¹³⁷ oxygen consumption relationship in the Mediterranean Sea: implications for mesopelagic marine snow remineralization. <i>Biogeosciences</i> , 2021, 18, 2205-2212.	1.3	2
98	<i>Desulfovibrio piezophilus</i> sp. nov., a piezophilic, sulfate-reducing bacterium isolated from wood falls in the Mediterranean Sea. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 259-260.	0.8	1
99	Particulate biogenic barium tracer of mesopelagic carbon remineralization in the Mediterranean Sea (PEACETIME project). <i>Biogeosciences</i> , 2021, 18, 5891-5902.	1.3	1
100	A Simple and Highly Reproducible Technique to Extract the ¹⁴ C-Labelled CO ₂ Resulting from Respiration of ¹⁴ C-Labeled Seawater Samples. <i>Hydrobiologia</i> , 2004, 523, 1-7.	1.0	0
101	A new open cabled infrastructure in medsea. , 2011, , .		0
102	<i>Protocols for Subtidal and Deep-Sea Benthic Oil Spill Simulations.</i> Springer Protocols, 2014, , 91-102.	0.1	0