

Christian Tamburini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8977643/publications.pdf>

Version: 2024-02-01

102
papers

6,007
citations

61945

43
h-index

74108

75
g-index

112
all docs

112
docs citations

112
times ranked

6413
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mesopelagic microbial carbon production correlates with diversity across different marine particle fractions. <i>ISME Journal</i> , 2021, 15, 1695-1708. | 4.4 | 31 |
| 2 | On the barium- ¹³⁷ Cs oxygen consumption relationship in the Mediterranean Sea: implications for mesopelagic marine snow remineralization. <i>Biogeosciences</i> , 2021, 18, 2205-2212. | 1.3 | 2 |
| 3 | Contrasting degradation rates of natural dissolved organic carbon by deep-sea prokaryotes under stratified water masses and deep-water convection conditions in the NW Mediterranean Sea. <i>Marine Chemistry</i> , 2021, 231, 103932. | 0.9 | 11 |
| 4 | Spatial patterns of ectoenzymatic kinetics in relation to biogeochemical properties in the Mediterranean Sea and the concentration of the fluorogenic substrate used. <i>Biogeosciences</i> , 2021, 18, 2301-2323. | 1.3 | 6 |
| 5 | 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 |
| 6 | Organic additive release from plastic to seawater is lower under deep-sea conditions. <i>Nature Communications</i> , 2021, 12, 4426. | 5.8 | 55 |
| 7 | Increasing Hydrostatic Pressure Impacts the Prokaryotic Diversity during <i>Emiliania huxleyi</i> Aggregates Degradation. <i>Water (Switzerland)</i> , 2021, 13, 2616. | 1.2 | 8 |
| 8 | Particulate biogenic barium tracer of mesopelagic carbon remineralization in the Mediterranean Sea (PEACETIME project). <i>Biogeosciences</i> , 2021, 18, 5891-5902. | 1.3 | 1 |
| 9 | Hydrothermal plumes as hotspots for deep-ocean heterotrophic microbial biomass production. <i>Nature Communications</i> , 2021, 12, 6861. | 5.8 | 7 |
| 10 | A novel <i>Thermotoga</i> strain TFO isolated from a Californian petroleum reservoir phylogenetically related to <i>Thermotoga petrophila</i> and <i>T. naphthophila</i> , two thermophilic anaerobic isolates from a Japanese reservoir: Taxonomic and genomic considerations. <i>Systematic and Applied Microbiology</i> , 2020, 43, 126132. | 1.2 | 6 |
| 11 | Responses to the Hydrostatic Pressure of Surface and Subsurface Strains of <i>Pseudothermotoga elfii</i> Revealing the Piezophilic Nature of the Strain Originating From an Oil-Producing Well. <i>Frontiers in Microbiology</i> , 2020, 11, 588771. | 1.5 | 12 |
| 12 | Reviews and syntheses: Bacterial bioluminescence – ecology and impact in the biological carbon pump. <i>Biogeosciences</i> , 2020, 17, 3757-3778. | 1.3 | 12 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | Stacked search for time shifted high energy neutrinos from gamma ray bursts with the Antares neutrino telescope. <i>European Physical Journal C</i> , 2017, 77, 1. | 1.4 | 8 |
| 21 | 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 |
| 22 | Impact of an intense water column mixing (0-1500 m) on prokaryotic diversity and activities during an open-ocean convection event in the NW Mediterranean Sea. <i>Environmental Microbiology</i> , 2016, 18, 4378-4390. | 1.8 | 26 |
| 23 | 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 |
| 24 | Time calibration with atmospheric muon tracks in the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2016, 78, 43-51. | 1.9 | 5 |
| 25 | 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 |
| 26 | Bacteria as part of bioluminescence emission at the deep ANTARES station (North-Western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 T 2016, 116, 33-40. | 0.6 | 7 |
| 27 | MURCHISON WIDEFIELD ARRAY LIMITS ON RADIO EMISSION FROM ANTARES NEUTRINO EVENTS. <i>Astrophysical Journal Letters</i> , 2016, 820, L24. | 3.0 | 9 |
| 28 | 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 |
| 29 | 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 |
| 30 | Variations in Microbial Community Structure through the Stratified Water Column in the Tyrrhenian Sea (Central Mediterranean). <i>Journal of Marine Science and Engineering</i> , 2015, 3, 845-865. | 1.2 | 12 |
| 31 | Search for muon-neutrino emission from GeV and TeV gamma-ray flaring blazars using five years of data of the ANTARES telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 014-014. | 1.9 | 9 |
| 32 | Methods for Studying Microorganisms in the Environment. , 2015, , 757-829. | | 2 |
| 33 | The POM-DOM piezophilic microorganism continuum (PDPMC) – The role of piezophilic microorganisms in the global ocean carbon cycle. <i>Science China Earth Sciences</i> , 2015, 58, 106-115. | 2.3 | 24 |
| 34 | Environmental microbiology as a mosaic of explored ecosystems and issues. <i>Environmental Science and Pollution Research</i> , 2015, 22, 13577-13598. | 2.7 | 10 |
| 35 | ANTARES constrains a blazar origin of two IceCube PeV neutrino events. <i>Astronomy and Astrophysics</i> , 2015, 576, L8. | 2.1 | 15 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Genome Sequence of Luminous Piezophile Photobacterium phosphoreum ANT-2200. Genome Announcements, 2014, 2, . | 0.8 | 7 |
| 38 | Protocols for Subtidal and Deep-Sea Benthic Oil Spill Simulations. Springer Protocols, 2014, , 91-102. | 0.1 | 0 |
| 39 | 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 |
| 40 | A search for neutrino emission from the Fermi bubbles with the ANTARES telescope. European Physical Journal C, 2014, 74, 1. | 1.4 | 25 |
| 41 | Reconciliation of the carbon budget in the ocean's twilight zone. Nature, 2014, 507, 480-483. | 13.7 | 307 |
| 42 | Relation between deep bioluminescence and oceanographic variables: A statistical analysis using time-frequency decompositions. Progress in Oceanography, 2014, 127, 117-128. | 1.5 | 18 |
| 43 | A search for time dependent neutrino emission from microquasars with the ANTARES telescope. Journal of High Energy Astrophysics, 2014, 3-4, 9-17. | 2.4 | 9 |
| 44 | Constraining the neutrino emission of gravitationally lensed Flat-Spectrum Radio Quasars with ANTARES data. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 017-017. | 1.9 | 8 |
| 45 | Prokaryotic responses to hydrostatic pressure in the ocean – a review. Environmental Microbiology, 2013, 15, 1262-1274. | 1.8 | 154 |
| 46 | Measurement of the atmospheric $\hat{1}\frac{1}{2}$ $\hat{1}\frac{1}{4}$ energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. European Physical Journal C, 2013, 73, 1. | 1.4 | 51 |
| 47 | First results on dark matter annihilation in the Sun using the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 032-032. | 1.9 | 20 |
| 48 | First search for neutrinos in correlation with gamma-ray bursts with the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 006-006. | 1.9 | 13 |
| 49 | A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 008-008. | 1.9 | 32 |
| 50 | Effects of Hydrostatic Pressure on Growth and Luminescence of a Moderately-Piezophilic Luminous Bacteria Photobacterium phosphoreum ANT-2200. PLoS ONE, 2013, 8, e66580. | 1.1 | 49 |
| 51 | SEARCH FOR A CORRELATION BETWEEN ANTARES NEUTRINOS AND PIERRE AUGER OBSERVATORY UHECRs ARRIVAL DIRECTIONS. Astrophysical Journal, 2013, 774, 19. | 1.6 | 12 |
| 52 | Search for muon neutrinos from gamma-ray bursts with the ANTARES neutrino telescope using 2008 to 2011 data. Astronomy and Astrophysics, 2013, 559, A9. | 2.1 | 57 |
| 53 | Long-term monitoring programme of the hydrological variability in the Mediterranean Sea: a first overview of the HYDROCHANGES network. Ocean Science, 2013, 9, 301-324. | 1.3 | 49 |
| 54 | The First Genomic and Proteomic Characterization of a Deep-Sea Sulfate Reducer: Insights into the Piezophilic Lifestyle of Desulfovibrio piezophilus. PLoS ONE, 2013, 8, e55130. | 1.1 | 44 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Deep-Sea Bioluminescence Blooms after Dense Water Formation at the Ocean Surface. PLoS ONE, 2013, 8, e67523. | 1.1 | 58 |
| 56 | Desulfovibrio piezophilus sp. nov., a piezophilic, sulfate-reducing bacterium isolated from wood falls in the Mediterranean Sea. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 259-260. | 0.8 | 1 |
| 57 | The positioning system of the ANTARES Neutrino Telescope. Journal of Instrumentation, 2012, 7, T08002-T08002. | 0.5 | 48 |
| 58 | SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. Astrophysical Journal, 2012, 760, 53. | 1.6 | 104 |
| 59 | Measurement of atmospheric neutrino oscillations with the ANTARES neutrino telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 224-230. | 1.5 | 63 |
| 60 | Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. Astroparticle Physics, 2012, 36, 204-210. | 1.9 | 19 |
| 61 | The ANTARES telescope neutrino alert system. Astroparticle Physics, 2012, 35, 530-536. | 1.9 | 39 |
| 62 | Measurement of the group velocity of light in sea water at the ANTARES site. Astroparticle Physics, 2012, 35, 552-557. | 1.9 | 4 |
| 63 | Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. Astroparticle Physics, 2012, 35, 634-640. | 1.9 | 43 |
| 64 | A method for detection of muon induced electromagnetic showers with the ANTARES detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 675, 56-62. | 0.7 | 2 |
| 65 | Acoustic and optical variations during rapid downward motion episodes in the deep north-western Mediterranean Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 875-884. | 0.6 | 15 |
| 66 | Assimilation of marine extracellular polymeric substances by deep-sea prokaryotes in the NW Mediterranean Sea. Environmental Microbiology Reports, 2011, 3, 705-709. | 1.0 | 26 |
| 67 | FIRST SEARCH FOR POINT SOURCES OF HIGH-ENERGY COSMIC NEUTRINOS WITH THE ANTARES NEUTRINO TELESCOPE. Astrophysical Journal Letters, 2011, 743, L14. | 3.0 | 43 |
| 68 | 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 |
| 69 | Marine ecosystemsâ€™ responses to climatic and anthropogenic forcings in the Mediterranean. Progress in Oceanography, 2011, 91, 97-166. | 1.5 | 385 |
| 70 | A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 652-662. | 1.9 | 80 |
| 71 | AMADEUSâ€™ The acoustic neutrino detection test system of the ANTARES deep-sea neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 626-627, 128-143. | 0.7 | 58 |
| 72 | Time calibration of the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 539-549. | 1.9 | 85 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Search for a diffuse flux of high-energy γ rays with the ANTARES neutrino telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2011, 696, 16-22. | 1.5 | 59 |
| 74 | A new open cabled infrastructure in medsea. , 2011, , . | | 0 |
| 75 | Desulfovibrio piezophilus sp. nov., a piezophilic, sulfate-reducing bacterium isolated from wood falls in the Mediterranean Sea. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2706-2711. | 0.8 | 73 |
| 76 | Measurement of the atmospheric muon flux with a 4GeV threshold in the ANTARES neutrino telescope. Astroparticle Physics, 2010, 33, 86-90. | 1.9 | 34 |
| 77 | Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. Astroparticle Physics, 2010, 34, 179-184. | 1.9 | 53 |
| 78 | Performance of the front-end electronics of the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 59-73. | 0.7 | 51 |
| 79 | Hydrostatic pressure affects membrane and storage lipid compositions of the piezotolerant hydrocarbon-degrading <i>Marinobacter hydrocarbonoclasticus</i> strain #5. Environmental Microbiology, 2010, 12, 2020-2033. | 1.8 | 51 |
| 80 | Luminous bacteria in the deep-sea waters near the ANTARES underwater neutrino telescope (Mediterranean Sea). Chemistry and Ecology, 2010, 26, 57-72. | 0.6 | 24 |
| 81 | Mesopelagic zone ecology and biogeochemistry – a synthesis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1504-1518. | 0.6 | 254 |
| 82 | Emerging concepts on microbial processes in the bathypelagic ocean – ecology, biogeochemistry, and genomics. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1519-1536. | 0.6 | 153 |
| 83 | Assessing the apparent imbalance between geochemical and biochemical indicators of meso- and bathypelagic biological activity: What the $\delta^{13}C$ is wrong with present calculations of carbon budgets?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1557-1571. | 0.6 | 268 |
| 84 | Performance of the first ANTARES detector line. Astroparticle Physics, 2009, 31, 277-283. | 1.9 | 47 |
| 85 | 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 |
| 86 | Cultivation-independent assessment of the bathypelagic archaeal diversity of Tyrrhenian Sea: Comparative study of rDNA and rRNA-derived libraries and influence of sample decompression. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 768-773. | 0.6 | 24 |
| 87 | $\delta^{13}C$ interactions during degradation of the diatom <i>Skeletonema marinoi</i> . Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1381-1395. | 0.6 | 39 |
| 88 | MedFlux: Investigations of particle flux in the Twilight Zone. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1363-1368. | 0.6 | 31 |
| 89 | Effects of hydrostatic pressure on microbial alteration of sinking fecal pellets. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1533-1546. | 0.6 | 71 |
| 90 | Major viral impact on the functioning of benthic deep-sea ecosystems. Nature, 2008, 454, 1084-1087. | 13.7 | 366 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | The ANTARES optical beacon system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 498-509. | 0.7 | 61 |
| 92 | Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 695-708. | 0.7 | 13 |
| 93 | 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 |
| 94 | Biodiversity and Extremophiles. , 2006, , 3-143. | | 2 |
| 95 | Stratified prokaryote network in the oxic-anoxic transition of a deep-sea halocline. Nature, 2006, 440, 203-207. | 13.7 | 215 |
| 96 | First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324. | 1.9 | 99 |
| 97 | Pressure effects on surface Mediterranean prokaryotes and biogenic silica dissolution during a diatom sinking experiment. Aquatic Microbial Ecology, 2006, 43, 267-276. | 0.9 | 66 |
| 98 | The Enigma of Prokaryotic Life in Deep Hypersaline Anoxic Basins. Science, 2005, 307, 121-123. | 6.0 | 275 |
| 99 | A Simple and Highly Reproducible Technique to Extract the $^{14}\text{CO}_2$ Resulting from Respiration of ^{14}C -Labeled Seawater Samples. Hydrobiologia, 2004, 523, 1-7. | 1.0 | 0 |
| 100 | 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 |
| 101 | Determination of the bacterial processes which are sources of nitrous oxide production in marine samples. Water Research, 2002, 36, 722-732. | 5.3 | 57 |
| 102 | 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 |