

Daniele Vivolo

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

5,339
citations

236925

25
h-index

82547

72
g-index

102
all docs

102
docs citations

102
times ranked

8748
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	Letter of intent for KM3NeT 2.0. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 084001.	3.6	512
3	The SURvey for Pulsars and Extragalactic Radio Bursts â€œ II. New FRB discoveries and their follow-up. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1427-1446.	4.4	156
4	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.	8.3	135
5	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, .	4.7	92
6	SEARCHES FOR POINT-LIKE AND EXTENDED NEUTRINO SOURCES CLOSE TO THE GALACTIC CENTER USING THE ANTARES NEUTRINO TELESCOPE. Astrophysical Journal Letters, 2014, 786, L5.	8.3	88
7	Limits on dark matter annihilation in the sun using the ANTARES neutrino telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 69-74.	4.1	78
8	Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources. Astroparticle Physics, 2019, 111, 100-110.	4.3	71
9	Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes. Astrophysical Journal Letters, 2018, 868, L20.	8.3	64
10	First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope. Physical Review D, 2017, 96, .	4.7	60
11	Results from the search for dark matter in the Milky Way with 9 years of data of the ANTARES neutrino telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 249-254.	4.1	52
12	THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. Astrophysical Journal, 2016, 823, 65.	4.5	49
13	Deep sea tests of a prototype of the KM3NeT digital optical module. European Physical Journal C, 2014, 74, 1.	3.9	46
14	A polarized fast radio burst at low Galactic latitude. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	45
15	All-flavor Search for a Diffuse Flux of Cosmic Neutrinos with Nine Years of ANTARES Data. Astrophysical Journal Letters, 2018, 853, L7.	8.3	41
16	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. Physical Review D, 2017, 96, .	4.7	40
17	Supernova Model Discrimination with Hyper-Kamiokande. Astrophysical Journal, 2021, 916, 15.	4.5	37
18	Constraints on the neutrino emission from the Galactic Ridge with the ANTARES telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 143-148.	4.1	35

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19	New constraints on all flavor Galactic diffuse neutrino emission with the ANTARES telescope. <i>Physical Review D</i> , 2017, 96, .	4.7	33
20	The prototype detection unit of the KM3NeT detector. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	32
21	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. <i>Astrophysical Journal</i> , 2019, 870, 134.	4.5	32
22	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.	5.4	30
23	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. <i>Astroparticle Physics</i> , 2013, 42, 7-14.	4.3	28
24	Search for high-energy neutrinos from bright GRBs with ANTARES. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 906-915.	4.4	27
25	A search for Secluded Dark Matter in the Sun with the ANTARES neutrino telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 016-016.	5.4	26
26	Search for dark matter towards the Galactic Centre with 11 years of ANTARES data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 805, 135439.	4.1	26
27	Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. <i>Journal of Instrumentation</i> , 2018, 13, P05035-P05035.	1.2	25
28	ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky. <i>Astrophysical Journal</i> , 2020, 892, 92.	4.5	25
29	The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope. <i>Astrophysical Journal Letters</i> , 2018, 863, L30.	8.3	24
30	Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	22
31	Measurement of the atmospheric muon depth intensity relation with the NEMO Phase-2 tower. <i>Astroparticle Physics</i> , 2015, 66, 1-7.	4.3	21
32	Optical and X-ray early follow-up of ANTARES neutrino alerts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 062-062.	5.4	21
33	The KM3NeT potential for the next core-collapse supernova observation with neutrinos. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	21
34	Sperm whale long-range echolocation sounds revealed by ANTARES, a deep-sea neutrino telescope. <i>Scientific Reports</i> , 2017, 7, 45517.	3.3	20
35	Dependence of atmospheric muon flux on seawater depth measured with the first KM3NeT detection units. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	20
36	Search for dark matter annihilation in the earth using the ANTARES neutrino telescope. <i>Physics of the Dark Universe</i> , 2017, 16, 41-48.	4.9	19

#	ARTICLE	IF	CITATIONS
37	Constraining the contribution of Gamma-Ray Bursts to the high-energy diffuse neutrino flux with 10Åyr of ANTARES data. Monthly Notices of the Royal Astronomical Society, 2020, 500, 5614-5628.	4.4	19
38	KM3NeT front-end and readout electronics system: hardware, firmware, and software. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	18
39	Measuring the atmospheric neutrino oscillation parameters and constraining the 3+1 neutrino model with ten years of ANTARES data. Journal of High Energy Physics, 2019, 2019, 1.	4.7	16
40	Expansion cone for the 3-inch PMTs of the KM3NeT optical modules. Journal of Instrumentation, 2013, 8, T03006-T03006.	1.2	15
41	Event reconstruction for KM3NeT/ORCA using convolutional neural networks. Journal of Instrumentation, 2020, 15, P10005-P10005.	1.2	15
42	ANTARES constrains a blazar origin of two IceCube PeV neutrino events. Astronomy and Astrophysics, 2015, 576, L8.	5.1	15
43	An Algorithm for the Reconstruction of Neutrino-induced Showers in the ANTARES Neutrino Telescope. Astronomical Journal, 2017, 154, 275.	4.7	14
44	The cosmic ray shadow of the Moon observed with the ANTARES neutrino telescope. European Physical Journal C, 2018, 78, 1006.	3.9	14
45	gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. Computer Physics Communications, 2020, 256, 107477.	7.5	14
46	Silicon Photo Multipliers Detectors Operating in Geiger Regime: an Unlimited Device for Future Applications. , 0, , .		13
47	All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the AntaresAneutrino telescope. European Physical Journal C, 2017, 77, 1.	3.9	13
48	Monte Carlo simulations for the ANTARES underwater neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 064-064.	5.4	13
49	A new generation photodetector for astroparticle physics: The VSIPMT. Astroparticle Physics, 2015, 67, 18-25.	4.3	12
50	Inertial bioluminescence rhythms at the Capo Passero (KM3NeT-Italia) site, Central Mediterranean Sea. Scientific Reports, 2017, 7, 44938.	3.3	12
51	Long term monitoring of the optical background in the Capo Passero deep-sea site with the NEMO tower prototype. European Physical Journal C, 2016, 76, 1.	3.9	11
52	An algorithm for the reconstruction of high-energy neutrino-induced particle showers and its application to the ANTARES neutrino telescope. European Physical Journal C, 2017, 77, 419.	3.9	11
53	ANTARES Search for Point Sources of Neutrinos Using Astrophysical Catalogs: A Likelihood Analysis. Astrophysical Journal, 2021, 911, 48.	4.5	11
54	Measurement of the atmospheric $\hat{1}/2$ and $\hat{1}/2$ energy spectra with the ANTARES neutrino telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136228.	4.1	11

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55	Long-term monitoring of the ANTARES optical module efficiencies using ^{40}K decays in sea water. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	10
56	Searches for clustering in the time integrated skymap of the ANTARES neutrino telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 001-001.	5.4	9
57	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.	6.7	9
58	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.	5.4	9
59	MURCHISON WIDEFIELD ARRAY LIMITS ON RADIO EMISSION FROM ANTARES NEUTRINO EVENTS. <i>Astrophysical Journal Letters</i> , 2016, 820, L24.	8.3	9
60	Search for relativistic magnetic monopoles with five years of the ANTARES detector data. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	9
61	Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling. <i>Journal of Instrumentation</i> , 2020, 15, P11027-P11027.	1.2	9
62	Search for neutrino counterparts of gravitational-wave events detected by LIGO and Virgo during run O2 with the ANTARES telescope. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	9
63	Architecture and performance of the KM3NeT front-end firmware. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 7, .	1.8	9
64	Proof of feasibility of the Vacuum Silicon PhotoMultiplier Tube (VSiPMT). <i>Journal of Instrumentation</i> , 2013, 8, P04021-P04021.	1.2	8
65	The optical modules of the phase-2 of the NEMO project. <i>Journal of Instrumentation</i> , 2013, 8, P07001-P07001.	1.2	8
66	Constraining the neutrino emission of gravitationally lensed Flat-Spectrum Radio Quasars with ANTARES data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 017-017.	5.4	8
67	A method to stabilise the performance of negatively fed KM3NeT photomultipliers. <i>Journal of Instrumentation</i> , 2016, 11, P12014-P12014.	1.2	8
68	Time-dependent search for neutrino emission from X-ray binaries with the ANTARES telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 019-019.	5.4	8
69	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.	3.9	8
70	The search for high-energy neutrinos coincident with fast radio bursts with the ANTARES neutrino telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 184-193.	4.4	8
71	The Control Unit of the KM3NeT Data Acquisition System. <i>Computer Physics Communications</i> , 2020, 256, 107433.	7.5	8
72	Status and first results of the NEMO Phase-2 tower. <i>Journal of Instrumentation</i> , 2014, 9, C03045-C03045.	1.2	7

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73	VSiPMT for underwater neutrino telescopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 725, 162-165.	1.6	6
74	A new instrument for high statistics measurement of photomultiplier characteristics. Journal of Instrumentation, 2016, 11, T08002-T08002.	1.2	6
75	A Search for Cosmic Neutrino and Gamma-Ray Emitting Transients in 7.3 yr of ANTARES and Fermi LAT Data. Astrophysical Journal, 2019, 886, 98.	4.5	6
76	Time calibration with atmospheric muon tracks in the ANTARES neutrino telescope. Astroparticle Physics, 2016, 78, 43-51.	4.3	5
77	ANTARES Neutrino Search for Time and Space Correlations with IceCube High-energy Neutrino Events. Astrophysical Journal, 2019, 879, 108.	4.5	5
78	ANTARES upper limits on the multi-TeV neutrino emission from the GRBs detected by IACTs. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 092.	5.4	5
79	R&D of a pioneering system for a high resolution photodetector: The VSiPMT. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 876, 48-49.	1.6	4
80	Another step towards photodetector innovation: The first 1-inch industrial VSiPMT. Astroparticle Physics, 2018, 101, 27-35.	4.3	4
81	Observation of the cosmic ray shadow of the Sun with the ANTARES neutrino telescope. Physical Review D, 2020, 102, .	4.7	4
82	Underwater acoustic positioning system for the SMO and KM3NeT - Italia projects. , 2014, , .		3
83	The trigger and data acquisition for the NEMO-Phase 2 tower. , 2014, , .		3
84	The KM3NeT Digital Optical Module. EPJ Web of Conferences, 2016, 116, 01002.	0.3	3
85	Development of a new 2-inch hybrid photo-detector using MPPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 290-293.	1.6	3
86	The 2-inches VSiPMT industrial prototypes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162144.	1.6	3
87	High Gain Hybrid Photomultipliers Based on Solid State p-n Junctions in Geiger Mode and Their use in Astroparticle Physics. Physics Procedia, 2012, 37, 703-708.	1.2	2
88	Light Concentrators for Silicon Photomultipliers. Physics Procedia, 2012, 37, 709-714.	1.2	2
89	Vacuum silicon photomultipliers: Recent developments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 582-583.	1.6	2
90	Model-independent search for neutrino sources with the ANTARES neutrino telescope. Astroparticle Physics, 2020, 114, 35-47.	4.3	2

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91	A large surface photomultiplier based on SiPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 725, 166-169.	1.6	1
92	Long-term optical background measurements in the Capo Passero deep-sea site. , 2014, , .		1
93	VSiPMT: An hybrid approach to high resolution photodetectors. , 2016, , .		1
94	Recent development on the realization of a 1-inch VSiPMT prototype. EPJ Web of Conferences, 2017, 136, 02016.	0.3	1
95	The KM3NeT Digital Optical Module. Springer Proceedings in Physics, 2018, , 192-196.	0.2	1
96	Vacuum silicon photo multiplier tube (VSiPMT): Towards a new generation of photon detectors. , 2014, , .		0
97	First results of performance tests of the newly designed Vacuum Silicon Photo Multiplier Tube (VSiPMT).. Journal of Instrumentation, 2014, 9, C04016-C04016.	1.2	0
98	VSiPMT a new photon detector. EPJ Web of Conferences, 2016, 116, 01004.	0.3	0
99	Measurement of the atmospheric muon flux at 3500 m depth with the NEMO Phase-2 detector. EPJ Web of Conferences, 2016, 121, 05015.	0.3	0
100	VSiPMT: a new solution in photon detection. , 2019, , .		0