Juan Antonio Martinez-Mora

List of Publications by Year
in descending order

105 papers	6,377 citations	136950 32 h-index	64796 79 g-index
106 all docs	106 docs citations	106 times ranked	9112 citing authors

#	Article	IF	Citations
1	Science with Neutrino Telescopes in Spain. Universe, 2022, 8, 89.	2.5	0
2	KM3NeT Detection Unit Line Fit reconstruction using positioning sensors data. , 2021, , .		1
3	Neutrino non-standard interactions with theKM3NeT/ORCA detector. , 2021, , .		2
4	Architecture and performance of the KM3NeT front-end firmware. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	9
5	The SUrvey for Pulsars and Extragalactic Radio Bursts â€“ II. New FRB discoveries and their follow-up. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1427-1446.	4.4	156
6	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
7	Acoustic Parametric Signal Generation for Underwater Communication. Sensors, 2018, 18, 2149.	3.8	5
8	Underwater Communication Using Acoustic Parametric Arrays. Proceedings (mdpi), 2018, 2, 139.	0.2	2
9	Long-term monitoring of the ANTARES optical module efficiencies using $$^{40}mathrm{{K}}$$ 40 K decays in sea water. European Physical Journal C, 2018, 78, 1.	3.9	10
10	Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. Journal of Instrumentation, 2018, 13, P05035-P05035.	1.2	25
11	The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope. Astrophysical Journal Letters, 2018, 863, L30.	8.3	24
12	A Compact Transmitter Array to Reproduce the Acoustic Signature of Neutrino in Water. Proceedings (mdpi), 2018, 4, .	0.2	0
13	Time-dependent search for neutrino emission from X-ray binaries with the ANTARES telescope. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 019-019.	5.4	8
14	Sperm whale long-range echolocation sounds revealed by ANTARES, a deep-sea neutrino telescope. Scientific Reports, 2017, 7, 45517.	3.3	20
15	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
16	Search for dark matter annihilation in the earth using the ANTARES neutrino telescope. Physics of the Dark Universe, 2017, 16, 41-48.	4.9	19
17	Constraining Secluded Dark Matter models with the public data from the 79-string IceCube search for dark matter in the Sun. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 010-010.	5.4	22
18	First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope. Physical Review D, 2017, 96, .	4.7	60

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19	Multi-messenger Observations of a Binary Neutron Star Merger[*]. Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
20	Search for high-energy neutrinos from bright GRBs with ANTARES. Monthly Notices of the Royal Astronomical Society, 2017, 469, 906-915.	4.4	27
21	New constraints on all flavor Galactic diffuse neutrino emission with the ANTARES telescope. Physical Review D, 2017, 96, .	4.7	33
22	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
23	Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
24	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
25	Stacked search for time shifted high energy neutrinos from gamma ray bursts with the Antares neutrino telescope. European Physical Journal C, 2017, 77, 1.	3.9	8
26	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
27	Search for relativistic magnetic monopoles with five years of the ANTARES detector data. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
28	All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the AntaresÂneutrino telescope. European Physical Journal C, 2017, 77, 1.	3.9	13
29	An Algorithm for the Reconstruction of Neutrino-induced Showers in the ANTARES Neutrino Telescope. Astronomical Journal, 2017, 154, 275.	4.7	14
30	Optimization of Dimensions of Cylindrical Piezoceramics as Radio-Clean Low Frequency Acoustic Sensors. Journal of Sensors, 2017, 2017, 1-8.	1.1	4
31	Acoustic Sensor Design for Dark Matter Bubble Chamber Detectors. Sensors, 2016, 16, 860.	3.8	4
32	Transducer Development and Characterization for Underwater Acoustic Neutrino Detection Calibration. Sensors, 2016, 16, 1210.	3.8	9
33	A compact array calibrator to study the feasibility of acoustic neutrino detection. EPJ Web of Conferences, 2016, 116, 03001.	0.3	0
34	A method to stabilise the performance of negatively fed KM3NeT photomultipliers. Journal of Instrumentation, 2016, 11, P12014-P12014.	1.2	8
35	Letter of intent for KM3NeT 2.0. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 084001.	3.6	512
36	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

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37	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
38	Time calibration with atmospheric muon tracks in the ANTARES neutrino telescope. Astroparticle Physics, 2016, 78, 43-51.	4.3	5
39	MOSCAB: direct dark matter search using the geyser technique. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2354-2356.	0.5	0
40	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
41	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, .	4.7	92
42	MURCHISON WIDEFIELD ARRAY LIMITS ON RADIO EMISSION FROM ANTARES NEUTRINO EVENTS. Astrophysical Journal Letters, 2016, 820, L24.	8.3	9
43	The prototype detection unit of the KM3NeT detector. European Physical Journal C, 2016, 76, 1.	3.9	32
44	A search for Secluded Dark Matter in the Sun with the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 016-016.	5.4	26
45	Optical and X-ray early follow-up of ANTARES neutrino alerts. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 062-062.	5.4	21
46	Ultrasonic Transmitter for Positioning of the Large Underwater Neutrino Telescope KM3NeT. Physics Procedia, 2015, 63, 195-200.	1.2	3
47	Search of dark matter annihilation in the galactic centre using the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 068-068.	5.4	30
48	Search for muon-neutrino emission from GeV and TeV gamma-ray flaring blazars using five years of data of the ANTARES telescope. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 014-014.	5.4	9
49	Acoustic Signal Detection Through the Cross-Correlation Method in Experiments with Different Signal to Noise Ratio and Reverberation Conditions. Lecture Notes in Computer Science, 2015, , 66-79.	1.3	9
50	ANTARES constrains a blazar origin of two IceCube PeV neutrino events. Astronomy and Astrophysics, 2015, 576, L8.	5.1	15
51	Deep sea tests of a prototype of the KM3NeT digital optical module. European Physical Journal C, 2014, 74, 1.	3.9	46
52	Searches for clustering in the time integrated skymap of the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 001-001.	5.4	9
53	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
54	A search for neutrino emission from the Fermi bubbles with the ANTARES telescope. European Physical Journal C, 2014, 74, 1.	3.9	25

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55	A search for time dependent neutrino emission from microquasars with the ANTARES telescope. Journal of High Energy Astrophysics, 2014, 3-4, 9-17.	6.7	9
56	Constraining the neutrino emission of gravitationally lensed Flat-Spectrum Radio Quasars with ANTARES data. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 017-017.	5.4	8
57	A compact acoustic calibrator for ultra-high energy neutrino detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 725, 219-222.	1.6	1
58	Measurement of the atmospheric Î½ Î¼ energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. European Physical Journal C, 2013, 73, 1.	3.9	51
59	Development of an acoustic transceiver for the KM3NeT positioning system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 725, 215-218.	1.6	3
60	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. Astroparticle Physics, 2013, 42, 7-14.	4.3	28
61	First results on dark matter annihilation in the Sun using the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 032-032.	5.4	20
62	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.	5.4	13
63	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.	5.4	32
64	A versatile compact array calibrator for UHE neutrino acoustic detection. , 2013, , .		1
65	SEARCH FOR A CORRELATION BETWEEN ANTARES NEUTRINOS AND PIERRE AUGER OBSERVATORY UHECRs ARRIVAL DIRECTIONS. Astrophysical Journal, 2013, 774, 19.	4.5	12
66	Search for muon neutrinos from gamma-ray bursts with the ANTARES neutrino telescope using 2008 to 2011 data. Astronomy and Astrophysics, 2013, 559, A9.	5.1	57
67	Expansion cone for the 3-inch PMTs of the KM3NeT optical modules. Journal of Instrumentation, 2013, 8, T03006-T03006.	1.2	15
68	Deep-Sea Bioluminescence Blooms after Dense Water Formation at the Ocean Surface. PLoS ONE, 2013, 8, e67523.	2.5	58
69	Acoustic Transmitters for Underwater Neutrino Telescopes. Sensors, 2012, 12, 4113-4132.	3.8	21
70	The sound emission board of the KM3NeT acoustic positioning system. Journal of Instrumentation, 2012, 7, C01001-C01001.	1.2	10
71	SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. Astrophysical Journal, 2012, 760, 53.	4.5	104
72	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.	4.1	63

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73	Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. Astroparticle Physics, 2012, 36, 204-210.	4.3	19
74	The ANTARES telescope neutrino alert system. Astroparticle Physics, 2012, 35, 530-536.	4.3	39
75	Measurement of the group velocity of light in sea water at the ANTARES site. Astroparticle Physics, 2012, 35, 552-557.	4.3	4
76	Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. Astroparticle Physics, 2012, 35, 634-640.	4.3	43
77	R&D studies for the development of a compact transmitter able to mimic the acoustic signature of a UHE neutrino interaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S206-S209.	1.6	4
78	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.	1.6	2
79	Development of a Compact Transmitter Array for the Acoustic Neutrino Detection Calibration. , 2011, , .		0
80	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.	1.4	15
81	FIRST SEARCH FOR POINT SOURCES OF HIGH-ENERGY COSMIC NEUTRINOS WITH THE ANTARES NEUTRINO TELESCOPE. Astrophysical Journal Letters, 2011, 743, L14.	8.3	43
82	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.	1.6	441
83	A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 652-662.	4.3	80
84	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.	1.6	58
85	Time calibration of the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 539-549.	4.3	85
86	Search for a diffuse flux of high-energy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math> with the ANTARES neutrino telescope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 16-22.	4.1	59
87	Measurement of the atmospheric muon flux with a 4GeV threshold in the ANTARES neutrino telescope. Astroparticle Physics, 2010, 33, 86-90.	4.3	34
88	Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. Astroparticle Physics, 2010, 34, 179-184.	4.3	53
89	The ANTARES neutrino telescope: Performance one year after its completion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 505-506.	1.6	0
90	A prototype for the acoustic triangulation system of the KM3NeT deep sea neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 459-461.	1.6	10

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91	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.	1.6	51
92	Self-organization of ultrasound in viscous fluids. Europhysics Letters, 2010, 92, 10003.	2.0	2
93	Use of parametric acoustic sources to generate neutrino-like signals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S208-S211.	1.6	5
94	Performance of the first ANTARES detector line. Astroparticle Physics, 2009, 31, 277-283.	4.3	47
95	System of Reciprocal Acoustic Sensors for Monitoring Sea Currents. , 2008, , .		1
96	Pattern Formation And Localized Structures In Acoustic Resonators Containing A Viscous Fluid. AIP Conference Proceedings, 2008, , .	0.4	0
97	Excitability in a nonlinear magnetoacoustic resonator. Physical Review E, 2007, 75, 015602.	2.1	2
98	Calibration of sensors for acoustic detection of neutrinos. Journal of Physics: Conference Series, 2007, 81, 012015.	0.4	3
99	Ultrasonic study of the complete dehydration process of orange peel. Postharvest Biology and Technology, 2007, 43, 115-120.	6.0	9
100	Potential of ultrasound to evaluate turgidity and hydration of the orange peel. Journal of Food Engineering, 2006, 75, 503-507.	5.2	19
101	Excitable behavior of ultrasound in a magnetoacoustic resonator. AIP Conference Proceedings, 2006, , .	0.4	0
102	FIRST ACTIVITIES IN ACOUSTIC DETECTION OF PARTICLES IN UPV. International Journal of Modern Physics A, 2006, 21, 137-141.	1.5	5
103	Self-pulsing dynamics of ultrasound in a magnetoacoustic resonator. Physical Review E, 2005, 72, 036611.	2.1	2
104	Excitability of ultrasound generated by magnetostriction. , 0, , .		0
105	A polarized fast radio burst at low Galactic latitude. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	45