Maurizio Spurio

List of Publications by Citations

215 papers	8,570 citations	44 h-index	85 g-index
232 ext. papers	9,611 ext. citations	3.5 avg, IF	4.65 L-index

#	Paper	IF	Citations
215	Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12	7.9	1935
214	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	1.2	363
213	Letter of intent for KM3NeT 2.0. *Journal of Physics G: Nuclear and Particle Physics*, **2016**, 43, 084001	2.9	333
212	Measurement of the atmospheric neutrino-induced upgoing muon flux using MACRO. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1998**, 434, 451-457	4.2	294
211	Matter effects in upward-going muons and sterile neutrino oscillations. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2001**, 517, 59-66	4.2	144
210	Final results of magnetic monopole searches with the MACRO experiment. *European Physical Journal C*, **2002**, 25, 511-522	4.2	129
209	Vertical muon intensity measured with MACRO at the Gran Sasso laboratory. *Physical Review D*, **1995**, 52, 3793-3802	4.9	129
208	The SUrvey for Pulsars and Extragalactic Radio Bursts II. New FRB discoveries and their follow-up. *Monthly Notices of the Royal Astronomical Society*, **2018**, 475, 1427-1446	4.3	126
207	First supermodule of the MACRO detector at Gran Sasso. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1993**, 324, 337-362	1.2	125
206	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	1.2	113
205	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	7.9	104
204	Seasonal variations in the underground muon intensity as seen by MACRO. *Astroparticle Physics*, **1997**, 7, 109-124	2.4	93
203	SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. *Astrophysical Journal*, **2012**, 760, 53	4.7	90
202	Measurements of atmospheric muon neutrino oscillations, global analysis of the data collected with MACRO detector. *European Physical Journal C*, **2004**, 36, 323-339	4.2	90
201	Atmospheric neutrino oscillations from upward throughgoing muon multiple scattering in MACRO. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2003**, 566, 35-44	4.2	88
200	SEARCHES FOR POINT-LIKE AND EXTENDED NEUTRINO SOURCES CLOSE TO THE GALACTIC CENTER USING THE ANTARES NEUTRINO TELESCOPE. *Astrophysical Journal Letters*, **2014**, 786, L5	7.9	83
199	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. *Physical Review D*, **2016**, 93,	4.9	80

198	Atmospheric neutrino flux measurement using upgoing muons. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1995**, 357, 481-486	4.2	80
197	Atmospheric MUons from PArametric formulas: a fast GEnerator for neutrino telescopes (MUPAGE). *Computer Physics Communications*, **2008**, 179, 915-923	4.2	79
196	Transmission of light in deep sea water at the site of the Antares neutrino telescope. *Astroparticle Physics*, **2005**, 23, 131-155	2.4	79
195	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. *Astroparticle Physics*, **2006**, 26, 314-324	2.4	76
194	The physics programme of the MoEDAL experiment at the LHC. *International Journal of Modern Physics A*, **2014**, 29, 1430050	1.2	75
193	Low energy atmospheric muon neutrinos in MACRO. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2000**, 478, 5-13	4.2	69
192	Time calibration of the ANTARES neutrino telescope. *Astroparticle Physics*, **2011**, 34, 539-549	2.4	67
191	The cosmic ray primary composition between 1015 and 1016 eV from Extensive Air Showers electromagnetic and TeV muon data. *Astroparticle Physics*, **2004**, 20, 641-652	2.4	64
190	A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. *Astroparticle Physics*, **2011**, 34, 652-662	2.4	63
189	Study of large hemispherical photomultiplier tubes for the ANTARES neutrino telescope. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2005**, 555, 132-141	1.2	61
188	Neutrino Astronomy with the MACRO Detector. *Astrophysical Journal*, **2001**, 546, 1038-1054	4.7	60
187	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	4.2	58
186	Deep seawater inherent optical properties in the Southern Ionian Sea. *Astroparticle Physics*, **2007**, 27, 1-9	2.4	57
185	Search for a diffuse flux of high-energy . *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 696, 16-22	4.2	56
184	A parameterisation of single and multiple muons in the deep water or ice. *Astroparticle Physics*, **2006**, 25, 1-13	2.4	56
183	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	4.2	56
182	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	50
181	AMADEUS—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	1.2	50

180	The ANTARES optical beacon system. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 578, 498-509	1.2	49
179	Measurement of the atmospheric □□energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. *European Physical Journal C*, **2013**, 73, 1	4.2	48
178	Recent achievements of the NEMO project. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2008**, 588, 111-118	1.2	47
177	Deep-sea bioluminescence blooms after dense water formation at the ocean surface. *PLoS ONE*, **2013**, 8, e67523	3.7	46
176	Sedimentation and fouling of optical surfaces at the ANTARES site. *Astroparticle Physics*, **2003**, 19, 253-267	2.4	46
175	Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. *Astroparticle Physics*, **2010**, 34, 179-184	2.4	45
174	Fragmentation cross sections of Fe26+, Si14+ and C6+ ions of 0.3□□0 A GeV on polyethylene, CR39 and aluminum targets. *Nuclear Physics A*, **2008**, 807, 206-213	1.3	45
173	The macro detector at the Gran Sasso Laboratory. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1988**, 264, 18-23	1.2	45
172	First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope. *Physical Review D*, **2017**, 96,	4.9	44
171	Search for the sidereal and solar diurnal modulations in the total MACRO muon data set. *Physical Review D*, **2003**, 67,	4.9	44
170	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	1.2	43
169	The cosmic ray proton, helium and CNO fluxes in the 100 TeV energy region from TeV muons and EAS atmospheric Cherenkov light observations of MACRO and EAS-TOP. *Astroparticle Physics*, **2004**, 21, 223-240	2.4	42
168	High-energy astrophysics with neutrino telescopes. *European Physical Journal C*, **2010**, 65, 649-701	4.2	40
167	THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. *Astrophysical Journal*, **2016**, 823, 65	4.7	40
166	A polarized fast radio burst at low Galactic latitude. *Monthly Notices of the Royal Astronomical Society*, **2017**,	4.3	39
165	Bulk etch rate measurements and calibrations of plastic nuclear track detectors. *Nuclear Instruments & Methods in Physics Research B*, **2007**, 254, 254-258	1.2	39
164	Study of penetrating cosmic ray muons and search for large scale anisotropies at the Gran Sasso Laboratory. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1990**, 249, 149-156	4.2	39
163	Search for Magnetic Monopoles with the MoEDAL Forward Trapping Detector in 13□TeV Proton-Proton Collisions at the LHC. *Physical Review Letters*, **2017**, 118, 061801	7.4	38

162	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	4.2	38
161	Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. *Astroparticle Physics*, **2012**, 35, 634-640	2.4	38
160	Performance of the first ANTARES detector line. *Astroparticle Physics*, **2009**, 31, 277-283	2.4	37
159	Status of Searches for Magnetic Monopoles. *Annual Review of Nuclear and Particle Science*, **2015**, 65, 279-302	15.7	36
158	The positioning system of the ANTARES Neutrino Telescope. *Journal of Instrumentation*, **2012**, 7, T08002-T08002	1.6	36
157	The ANTARES telescope neutrino alert system. *Astroparticle Physics*, **2012**, 35, 530-536	2.4	35
156	FIRST SEARCH FOR POINT SOURCES OF HIGH-ENERGY COSMIC NEUTRINOS WITH THE ANTARES NEUTRINO TELESCOPE. *Astrophysical Journal Letters*, **2011**, 743, L14	7.9	35
155	The observation of up-going charged particles produced by high energy muons in underground detectors. *Astroparticle Physics*, **1998**, 9, 105-117	2.4	35
154	Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes. *Astrophysical Journal Letters*, **2018**, 868, L20	7.9	35
153	Deep sea tests of a prototype of the KM3NeT digital optical module. *European Physical Journal C*, **2014**, 74, 1	4.2	34
152	Search for a Lorentz invariance violation contribution in atmospheric neutrino oscillations using MACRO data. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2005**, 615, 14-18	4.2	34
151	Magnetic monopole search at high altitude with the SLIM experiment. *European Physical Journal C*, **2008**, 55, 57-63	4.2	33
150	Study of the ultrahigh-energy primary-cosmic-ray composition with the MACRO experiment. *Physical Review D*, **1992**, 46, 895-902	4.9	33
149	On the IceCube spectral anomaly. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 045-045	6.4	32
148	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. *Physical Review D*, **2017**, 96,	4.9	32
147	Search for diffuse neutrino flux from astrophysical sources with MACRO. *Astroparticle Physics*, **2003**, 19, 1-13	2.4	32
146	Study of the primary cosmic ray composition around the knee of the energy spectrum. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1994**, 337, 376-382	4.2	32
145	Search for magnetic monopoles with the MoEDAL prototype trapping detector in 8 TeV proton-proton collisions at the LHC. *Journal of High Energy Physics*, **2016**, 2016, 1	5.4	32

144	Measurement of the atmospheric muon flux with a 4GeV threshold in the ANTARES neutrino telescope. *Astroparticle Physics*, **2010**, 33, 86-90	2.4	31
143	Results of the search for strange quark matter and Q-balls with the SLIM experiment. *European Physical Journal C*, **2008**, 57, 525-533	4.2	31
142	Long-term measurements of acoustic background noise in very deep sea. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2009**, 604, S149-S157	1.2	30
141	Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources. *Astroparticle Physics*, **2019**, 111, 100-110	2.4	29
140	All-flavor Search for a Diffuse Flux of Cosmic Neutrinos with Nine Years of ANTARES Data. *Astrophysical Journal Letters*, **2018**, 853, L7	7.9	29
139	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	6.4	29
138	Search for Magnetic Monopoles at the Tevatron Collider. *Europhysics Letters*, **1990**, 12, 613-616	1.6	29
137	Fragmentation cross sections of 158 A GeV Pb ions in various targets measured with CR39 nuclear track detectors. *Nuclear Physics A*, **2002**, 707, 513-524	1.3	28
136	Status of NEMO. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 567, 444-451	1.2	27
135	Measurement of the residual energy of muons in the Gran Sasso underground laboratories. *Astroparticle Physics*, **2003**, 19, 313-328	2.4	27
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132	Search for slowly moving magnetic monopoles with the MACRO detector. *Physical Review Letters*, **1994**, 72, 608-612	7.4	26
131	Measurement of the decoherence function with the MACRO detector at Gran Sasso. *Physical Review D*, **1992**, 46, 4836-4845	4.9	26
130	The prototype detection unit of the KM3NeT detector. *European Physical Journal C*, **2016**, 76, 1	4.2	25
129	High energy cosmic ray physics with underground muons in MACRO. II. Primary spectra and composition. *Physical Review D*, **1997**, 56, 1418-1436	4.9	25
128	Measurement of the energy spectrum of underground muons at Gran Sasso with a transition radiation detector. *Astroparticle Physics*, **1999**, 10, 11-20	2.4	25
127	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	4.2	25

126	New constraints on all flavor Galactic diffuse neutrino emission with the ANTARES telescope. *Physical Review D*, **2017**, 96,	4.9	24
125	Search for magnetic monopoles with the MoEDAL forward trapping detector in 2.11 fb^{-1} of 13 TeV proton–proton collisions at the LHC. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2018**, 782, 510-516	4.2	24
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122	A search for neutrino emission from the Fermi bubbles with the ANTARES telescope. *European Physical Journal C*, **2014**, 74, 1	4.2	23
121	Performance of the MACRO streamer tube system in the search for magnetic monopoles. *Astroparticle Physics*, **1995**, 4, 33-43	2.4	23
120	Muon astronomy with the MACRO detector. *Astrophysical Journal*, **1993**, 412, 301	4.7	23
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118	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. *Astroparticle Physics*, **2013**, 42, 7-14	2.4	22
117	Measurement of the atmospheric muon flux with the NEMO Phase-1 detector. *Astroparticle Physics*, **2010**, 33, 263-273	2.4	22
116	Search for nucleon decays induced by GUT magnetic monopoles with the MACRO experiment. *European Physical Journal C*, **2002**, 26, 163-172	4.2	22
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113	Search for neutrino bursts from collapsing stars with the MACRO detector. *Astroparticle Physics*, **1992**, 1, 11-25	2.4	22
112	A search for Secluded Dark Matter in the Sun with the ANTARES neutrino telescope. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 016-016	6.4	21
111	Search of dark matter annihilation in the galactic centre using the ANTARES neutrino telescope. *Journal of Cosmology and Astroparticle Physics*, **2015**, 2015, 068-068	6.4	21
110	Recent results and perspectives of the NEMO project. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2009**, 602, 47-53	1.2	21
109	Improvements in the CR39 polymer for the macro experiment at the Gran Sasso Laboratory. *International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements*, **1991**, 19, 641-646		21

108	Optical and X-ray early follow-up of ANTARES neutrino alerts. *Journal of Cosmology and Astroparticle Physics*, **2016**, 2016, 062-062	6.4	20
107	Measurement of the atmospheric muon depth intensity relation with the NEMO Phase-2 tower. *Astroparticle Physics*, **2015**, 66, 1-7	2.4	20
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104	The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope. *Astrophysical Journal Letters*, **2018**, 863, L30	7.9	19
103	Constraints to a Galactic component of the Ice Cube cosmic neutrino flux from ANTARES. *Physical Review D*, **2014**, 90,	4.9	18
102	The NEMO project: A status report. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 626-627, S25-S29	1.2	18
101	Sperm whale long-range echolocation sounds revealed by ANTARES, a deep-sea neutrino telescope. *Scientific Reports*, **2017**, 7, 45517	4.9	17
100	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	5.4	17
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98	Search for high-energy neutrinos from bright GRBs with ANTARES. *Monthly Notices of the Royal Astronomical Society*, **2017**, 469, 906-915	4.3	16
97	Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. *Astroparticle Physics*, **2012**, 36, 204-210	2.4	16
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95	Real time supernova neutrino burst detection with MACRO. *Astroparticle Physics*, **1998**, 8, 123-133	2.4	16
94	Simultaneous observation of extensive air showers and deep-underground muons at the Gran Sasso Laboratory. *Physical Review D*, **1990**, 42, 1396-1403	4.9	16
93	High energy cosmic ray physics with underground muons in MACRO. I. Analysis methods and experimental results. *Physical Review D*, **1997**, 56, 1407-1417	4.9	15
92	Fragmentation studies of high-energy ions using CR39 nuclear track detectors. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 580, 58-61	1.2	15
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89	Search for dark matter annihilation in the earth using the ANTARES neutrino telescope. *Physics of the Dark Universe*, **2017**, 16, 41-48	4.4	14
88	Search for lightly ionizing particles with the MACRO detector. *Physical Review D*, **2000**, 62,	4.9	14
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86	Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. *Journal of Instrumentation*, **2018**, 13, P05035-P05035	1	14
85	Procedures and results of the measurements on large area photomultipliers for the NEMO project. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2010**, 614, 206-212	1.2	13
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80	Calibration of the MakrofolDE nuclear track detector using relativistic lead ions. *Radiation Measurements*, **2005**, 40, 433-436	1.5	12
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78	All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the Antares neutrino telescope. *European Physical Journal C*, **2017**, 77, 1	4.2	11
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66	MURCHISON WIDEFIELD ARRAY LIMITS ON RADIO EMISSION FROM ANTARES NEUTRINO EVENTS. *Astrophysical Journal Letters*, **2016**, 820, L24	7.9	8
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64	Search for relativistic magnetic monopoles with five years of the ANTARES detector data. *Journal of High Energy Physics*, **2017**, 2017, 1	5.4	8
63	An Algorithm for the Reconstruction of Neutrino-induced Showers in the ANTARES Neutrino Telescope. *Astronomical Journal*, **2017**, 154, 275	4.9	8
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55	Calibration of the intercast CR39. *Nuclear Tracks and Radiation Measurements (1993)*, **1993**, 22, 555-558		7

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