Michele Maltoni

List of Publications by Year
in descending order

86 papers	9,169 citations	41258 49 h-index	66788 78 g-index
87 all docs	87 docs citations	87 times ranked	3913 citing authors

#	Article	IF	Citations
1	Status of global fits to neutrino oscillations. New Journal of Physics, 2004, 6, 122-122.	1.2	702
2	The fate of hints: updated global analysis of three-flavor neutrino oscillations. Journal of High Energy Physics, 2020, 2020, 1.	1.6	679
3	Phenomenology with massive neutrinos. Physics Reports, 2008, 460, 1-129.	10.3	565
4	Global analysis of three-flavour neutrino oscillations: synergies and tensions in the determination of Î¸23, Î´CP, and the mass ordering. Journal of High Energy Physics, 2019, 2019, 1.	1.6	506
5	Global fit to three neutrino mixing: critical look at present precision. Journal of High Energy Physics, 2012, 2012, 1.	1.6	465
6	Updated fit to three neutrino mixing: exploring the accelerator-reactor complementarity. Journal of High Energy Physics, 2017, 2017, 1.	1.6	444
7	Updated fit to three neutrino mixing: status of leptonic CP violation. Journal of High Energy Physics, 2014, 2014, 1.	1.6	432
8	Sterile neutrino oscillations: the global picture. Journal of High Energy Physics, 2013, 2013, 1.	1.6	352
9	Updated global analysis of neutrino oscillations in the presence of eV-scale sterile neutrinos. Journal of High Energy Physics, 2018, 2018, 1.	1.6	244
10	A New Generation of Standard Solar Models. Astrophysical Journal, 2017, 835, 202.	1.6	239
11	Updated global fit to three neutrino mixing: status of the hints of Î¸ 13 > 0. Journal of High Energy Physics, 2010, 2010, 1.	1.6	222
12	Are There Sterile Neutrinos at the eV Scale?. Physical Review Letters, 2011, 107, 091801.	2.9	212
13	Physics at a future Neutrino Factory and super-beam facility. Reports on Progress in Physics, 2009, 72, 106201.	8.1	174
14	Sterile neutrino oscillations after first MiniBooNE results. Physical Review D, 2007, 76, .	1.6	169
15	Global three-neutrino oscillation analysis of neutrino data. Physical Review D, 2001, 63, .	1.6	157
16	Atmospheric neutrino oscillations and new physics. Physical Review D, 2004, 70, .	1.6	154
17	Global analyses of neutrino oscillation experiments. Nuclear Physics B, 2016, 908, 199-217.	0.9	145
18	Status of three-neutrino oscillations after the SNO-salt data. Physical Review D, 2003, 68, .	1.6	135

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19	Probing neutrino nonstandard interactions with atmospheric neutrino data. Physical Review D, 2001, 65, .	1.6	132
20	Updated constraints on non-standard interactions from global analysis of oscillation data. Journal of High Energy Physics, 2018, 2018, 1.	1.6	131
21	Atmospheric neutrinos as probes of neutrino-matter interactions. Physical Review D, 2004, 70, .	1.6	108
22	Physics reach of high-energy and high-statistics IceCube atmospheric neutrino data. Physical Review D, 2005, 71, .	1.6	104
23	Determination of matter potential from global analysis of neutrino oscillation data. Journal of High Energy Physics, 2013, 2013, 1.	1.6	100
24	Large underground, liquid based detectors for astro-particle physics in Europe: scientific case and prospects. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 011-011.	1.9	99
25	COHERENT enlightenment of the neutrino dark side. Physical Review D, 2017, 96, .	1.6	97
26	Testing the statistical compatibility of independent data sets. Physical Review D, 2003, 68, .	1.6	95
27	Status of oscillation plus decay of atmospheric and long-baseline neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 405-409.	1.5	93
28	Physics potential of the CERN-MEMPHYS neutrino oscillation project. Journal of High Energy Physics, 2007, 2007, 003-003.	1.6	90
29	Extra quark-lepton generations and precision measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 476, 107-115.	1.5	89
30	Curtailing the dark side in non-standard neutrino interactions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	82
31	Resolving parameter degeneracies in long-baseline experiments by atmospheric neutrino data. Physical Review D, 2005, 71, .	1.6	81
32	Robust cosmological bounds on neutrinos and their combination with oscillation results. Journal of High Energy Physics, 2010, 2010, 1.	1.6	81
33	Constraining neutrino oscillation parameters with current solar and atmospheric data. Physical Review D, 2003, 67, .	1.6	75
34	Sterile neutrinos or flux uncertainties? â€" Status of the reactor anti-neutrino anomaly. Journal of High Energy Physics, 2017, 2017, 1.	1.6	74
35	Updated determination of the solar neutrino fluxes from solar neutrino data. Journal of High Energy Physics, 2016, 2016, 1.	1.6	69
36	Status of a hybrid three-neutrino interpretation of neutrino data. Nuclear Physics B, 2002, 629, 479-490.	0.9	68

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37	Constraining Majorana neutrino electromagnetic properties from the LMA-MSW solution of the solar neutrino problem. Nuclear Physics B, 2003, 648, 376-396.	0.9	67
38	Energy dependent neutrino flavor ratios from cosmic accelerators on the Hillas plot. Astroparticle Physics, 2010, 34, 205-224.	1.9	66
39	The minimal 3â€‰+â€‰2 neutrino model versus oscillation anomalies. Journal of High Energy Physics, 2012, 2012, 1.	1.6	66
40	Combining the first KamLAND results with solar neutrino data. Physical Review D, 2003, 67, .	1.6	65
41	Testing matter effects in propagation of atmospheric and long-baseline neutrinos. Journal of High Energy Physics, 2011, 2011, 1.	1.6	62
42	Neutrino oscillograms of the Earth: effects of 1-2 mixing and CP-violation. Journal of High Energy Physics, 2008, 2008, 072-072.	1.6	58
43	Measuring the deviation of the 2â€“3 lepton mixing from maximal with atmospheric neutrinos. Physical Review D, 2004, 70, .	1.6	57
44	Solar neutrinos and neutrino physics. European Physical Journal A, 2016, 52, 1.	1.0	57
45	1-3 leptonic mixing and the neutrino oscillograms of the Earth. Journal of High Energy Physics, 2007, 2007, 077-077.	1.6	56
46	Status of theCPTviolating interpretations of the LSND signal. Physical Review D, 2003, 68, .	1.6	55
47	Testing neutrino flavor mixing plus decay with neutrino telescopes. Journal of High Energy Physics, 2008, 2008, 064-064.	1.6	53
48	Improved global fit to Non-Standard neutrino Interactions using COHERENT energy and timing data. Journal of High Energy Physics, 2020, 2020, 1.	1.6	51
49	Solar and atmospheric four-neutrino oscillations. Physical Review D, 2001, 64, .	1.6	49
50	NuFIT: Three-Flavour Global Analyses of Neutrino Oscillation Experiments. Universe, 2021, 7, 459.	0.9	48
51	Status of four-neutrino mass schemes: A global and unified approach to current neutrino oscillation data. Physical Review D, 2002, 65, .	1.6	47
52	Neutrino discovery limit of Dark Matter direct detection experiments in the presence of non-standard interactions. Journal of High Energy Physics, 2018, 2018, 1.	1.6	46
53	Cornering (3+1) sterile neutrino schemes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 518, 252-260.	1.5	44
54	Determination of the atmospheric neutrino fluxes from atmospheric neutrino data. Journal of High Energy Physics, 2006, 2006, 075-075.	1.6	44

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55	Large Mixing Angle Oscillations as a Probe of the Deep Solar Interior. Astrophysical Journal, 2003, 588, L65-L68.	1.6	42
56	Radiography of Earthâ€™s Core and Mantle with Atmospheric Neutrinos. Physical Review Letters, 2008, 100, 061802.	2.9	42
57	Bayesian global analysis of neutrino oscillation data. Journal of High Energy Physics, 2015, 2015, 1.	1.6	41
58	On the determination of leptonic CP violation and neutrino mass ordering in presence of non-standard interactions: present status. Journal of High Energy Physics, 2019, 2019, 1.	1.6	40
59	Describing Oscillations of High Energy Neutrinos in Matter Precisely. Physical Review Letters, 2005, 95, 211801.	2.9	38
60	Sterile neutrinos at the CNGS. Journal of High Energy Physics, 2007, 2007, 013-013.	1.6	34
61	Impact of two mass scale oscillations on the analysis of atmospheric and reactor neutrino data. European Physical Journal C, 2003, 26, 417-428.	1.4	33
62	Minimal models with light sterile neutrinos. Journal of High Energy Physics, 2011, 2011, 1.	1.6	31
63	Neutrino oscillation constraints on U(1)â€² models: from non-standard interactions to long-range forces. Journal of High Energy Physics, 2021, 2021, 1.	1.6	31
64	Addendum to: Improved global fit to non-standard neutrino interactions using COHERENT energy and timing data. Journal of High Energy Physics, 2020, 2020, 1.	1.6	26
65	High intensity neutrino oscillation facilities in Europe. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	25
66	Non-standard neutrino interactions in the earth and the flavor of astrophysical neutrinos. Astroparticle Physics, 2016, 84, 15-22.	1.9	25
67	Direct determination of the solar neutrino fluxes from solar neutrino data. Journal of High Energy Physics, 2010, 2010, 1.	1.6	24
68	Testing sterile neutrino mixing with present and future solar neutrino data. European Physical Journal C, 2022, 82, 1.	1.4	22
69	Global analysis of neutrino oscillation data in four-neutrino schemes. Nuclear Physics, Section B, Proceedings Supplements, 2003, 114, 203-207.	0.5	14
70	Addendum to: Updated constraints on non-standard interactions from global analysis of oscillation data. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
71	On the search for 50 GeV neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 126-132.	1.5	11
72	Diminishing â€œcharginos nearly degenerate with the lightest neutralinoâ€•slit using precision data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 463, 230-233.	1.5	5

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73	Standard and non-standard physics in neutrino oscillations. Nuclear Physics, Section B, Proceedings Supplements, 2003, 114, 191-196.	0.5	5
74	New interactions: past and future experiments. Journal of Physics: Conference Series, 2008, 136, 022024.	0.3	4
75	Analysis of the atmospheric neutrino data in terms of 3Î½ oscillations. Nuclear Physics, Section B, Proceedings Supplements, 2001, 95, 108-115.	0.5	2
76	Sterile neutrinos after the first MiniBooNE results. Journal of Physics: Conference Series, 2008, 110, 082011.	0.3	2
77	ON THE NUMERICAL CLOSENESS OF THE EFFECTIVE PHENOMENOLOGICAL ELECTROWEAK MIXING ANGLE Î¸ AND THE $overline{m{MS}}$ PARAMETER ${hatheta}$. Modern Physics Letters A, 1998, 13, 3099-3107.	0.5	1
78	Determination of the atmospheric neutrino flux from experimental data. Astrophysics and Space Science, 2007, 309, 447-451.	0.5	1
79	Global analysis of solar and atmospheric neutrino data. Physics of Atomic Nuclei, 2002, 65, 2125-2134.	0.1	0
80	Sub-leading 1-2 effects in Atmospheric Neutrinos. Nuclear Physics, Section B, Proceedings Supplements, 2005, 145, 49-52.	0.5	0
81	Status of global fits to neutrino oscillations. Nuclear Physics, Section B, Proceedings Supplements, 2005, 143, 523.	0.5	0
82	Extraction of the atmospheric neutrino fluxes from experimental event rate data. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7093-7097.	0.7	0
83	Neutrino physics at and above GeV energies. Nuclear Physics, Section B, Proceedings Supplements, 2009, 188, 383-387.	0.5	0
84	CAN FOUR NEUTRINOS EXPLAIN GLOBAL OSCILLATION DATA INCLUDING LSND & COSMOLOGY?. , 2004, , .		0
85	Determination of the atmospheric neutrino flux from experimental data. , 2007, , 447-451.		0
86	Global Status of Sterile Neutrino Scenario. , 2014, , .		0