

Olga Mena

List of Publications by Year in descending order

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146
papers

12,137
citations

38742

50
h-index

25787

108
g-index

148
all docs

148
docs citations

148
times ranked

6084
citing authors

#	ARTICLE	IF	CITATIONS
1	THE BARYON OSCILLATION SPECTROSCOPIC SURVEY OF SDSS-III. <i>Astronomical Journal</i> , 2013, 145, 10.	4.7	1,571
2	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Releases 10 and 11 Galaxy samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 24-62.	4.4	1,168
3	In the realm of the Hubble tension—a review of solutions [*] . <i>Classical and Quantum Gravity</i> , 2021, 38, 153001.	4.0	816
4	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Release 9 spectroscopic galaxy sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 3435-3467.	4.4	738
5	Golden measurements at a neutrino factory. <i>Nuclear Physics B</i> , 2000, 579, 17-55.	2.5	428
6	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211.	6.7	350
7	Unveiling $\frac{1}{2}$ secrets with cosmological data: Neutrino masses and mass hierarchy. <i>Physical Review D</i> , 2017, 96, .	4.7	277
8	Can interacting dark energy solve the $H_0 > 0$ tension?. <i>Physical Review D</i> , 2017, 96, .	4.7	268
9	On the measurement of leptonic CP violation. <i>Nuclear Physics B</i> , 2001, 608, 301-318.	2.5	246
10	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. <i>Astroparticle Physics</i> , 2021, 131, 102605.	4.3	228
11	Nonminimal dark sector physics and cosmological tensions. <i>Physical Review D</i> , 2020, 101, .	4.7	211
12	Interacting dark energy in the early 2020s: A promising solution to the $H_0 > 0$ and cosmic shear tensions. <i>Physics of the Dark Universe</i> , 2020, 30, 100666.	4.9	184
13	Cosmology intertwined III: $f > 8$ and $S > 8$. <i>Astroparticle Physics</i> , 2021, 131, 102604.	4.3	182
14	The next-generation liquid-scintillator neutrino observatory LENA. <i>Astroparticle Physics</i> , 2012, 35, 685-732.	4.3	181
15	The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: measuring D_A and H at $z \approx 0.57$ from the baryon acoustic peak in the Data Release 9 spectroscopic Galaxy sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1242-1264.	4.4	169
16	Constraints on the sum of the neutrino masses in dynamical dark energy models with $w < z < 0$. <i>Physical Review D</i> , 2016, 94, .	4.7	144
17	Improvement of cosmological neutrino mass bounds. <i>Physical Review D</i> , 2016, 94, .	4.7	136
18	Dark coupling. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 034-034.	5.4	134

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19	New constraints on coupled dark energy from the Planck satellite experiment. <i>Physical Review D</i> , 2013, 88, .	4.7	132
20	Neutrino Mass Ordering from Oscillations and Beyond: 2018 Status and Future Prospects. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	2.8	128
21	Robust neutrino constraints by combining low redshift observations with the CMB. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 003-003.	5.4	125
22	CLUSTERING OF SLOAN DIGITAL SKY SURVEY III PHOTOMETRIC LUMINOUS GALAXIES: THE MEASUREMENT, SYSTEMATICS, AND COSMOLOGICAL IMPLICATIONS. <i>Astrophysical Journal</i> , 2012, 761, 14.	4.5	113
23	Constraining Inverse-Curvature Gravity with Supernovae. <i>Physical Review Letters</i> , 2006, 96, 041103.	7.8	99
24	Superbeams plus neutrino factory: the golden path to leptonic CP violation. <i>Nuclear Physics B</i> , 2002, 646, 301-320.	2.5	92
25	Coupled dark matter-dark energy in light of near universe observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 029-029.	5.4	89
26	Constraints on massive sterile neutrino species from current and future cosmological data. <i>Physical Review D</i> , 2011, 83, .	4.7	82
27	A Brief Review on Primordial Black Holes as Dark Matter. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	80
28	Cosmological axion and neutrino mass constraints from Planck 2015 temperature and polarization data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 752, 182-185.	4.1	79
29	The galaxy power spectrum take on spatial curvature and cosmic concordance. <i>Physics of the Dark Universe</i> , 2021, 33, 100851.	4.9	76
30	Asymmetric Dark Matter and Dark Radiation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 022-022.	5.4	74
31	Relic neutrinos, thermal axions, and cosmology in early 2014. <i>Physical Review D</i> , 2014, 90, .	4.7	74
32	Neutrino masses and their ordering: global data, priors and models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 011-011.	5.4	74
33	Flavor Composition of the High-Energy Neutrino Events in IceCube. <i>Physical Review Letters</i> , 2014, 113, 091103.	7.8	72
34	Spectral analysis of the high-energy IceCube neutrinos. <i>Physical Review D</i> , 2015, 91, .	4.7	72
35	NEW NEUTRINO MASS BOUNDS FROM SDSS-III DATA RELEASE 8 PHOTOMETRIC LUMINOUS GALAXIES. <i>Astrophysical Journal</i> , 2012, 761, 12.	4.5	70
36	Impact of neutrino properties on the estimation of inflationary parameters from current and future observations. <i>Physical Review D</i> , 2017, 95, .	4.7	70

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37	Sterile neutrinos in light of recent cosmological and oscillation data: a multi-flavor scheme approach. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 036-036.	5.4	68
38	Dark coupling and gauge invariance. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 044-044.	5.4	68
39	Constraining dark matter late-time energy injection: decays and p-wave annihilations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 017-017.	5.4	66
40	Constraints on dark matter annihilation from CMB observations before Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 046-046.	5.4	65
41	Constraining the primordial black hole abundance with 21-cm cosmology. <i>Physical Review D</i> , 2019, 100, .	4.7	63
42	Most constraining cosmological neutrino mass bounds. <i>Physical Review D</i> , 2021, 104, .	4.7	63
43	Present bounds on the relativistic energy density in the Universe from cosmological observables. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 006-006.	5.4	62
44	Cosmic Dark Radiation and Neutrinos. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-14.	1.1	59
45	Do we have any hope of detecting scattering between dark energy and baryons through cosmology?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1139-1152.	4.4	58
46	Thinking outside the box: effects of modes larger than the survey on matter power spectrum covariance. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 019-019.	5.4	54
47	Dark sectors with dynamical coupling. <i>Physical Review D</i> , 2019, 100, .	4.7	54
48	Improved cosmological bound on the thermal axion mass. <i>Physical Review D</i> , 2007, 76, .	4.7	53
49	Cosmological limits on neutrino unknowns versus low redshift priors. <i>Physical Review D</i> , 2016, 93, .	4.7	52
50	Revisiting cosmological bounds on sterile neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 006-006.	5.4	50
51	Constraints on neutrino masses from Planck and Galaxy clustering data. <i>Physical Review D</i> , 2013, 88, .	4.7	47
52	Analysis of the 4-year IceCube high-energy starting events. <i>Physical Review D</i> , 2016, 94, .	4.7	47
53	Untangling CP violation and the mass hierarchy in long baseline experiments. <i>Physical Review D</i> , 2004, 70, .	4.7	45
54	Cosmological parameters degeneracies and non-Gaussian halo bias. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 020-020.	5.4	45

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55	A fresh look into the interacting dark matter scenario. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 007-007.	5.4	45
56	Future CMB cosmological constraints in a dark coupled universe. Physical Review D, 2010, 81, .	4.7	44
57	The 21 cm signal and the interplay between dark matter annihilations and astrophysical processes. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 004-004.	5.4	44
58	All-inclusive interacting dark sector cosmologies. Physical Review D, 2020, 101, .	4.7	43
59	New tests of dark sector interactions from the full-shape galaxy power spectrum. Physical Review D, 2022, 105, .	4.7	42
60	Beam and experiments: summary. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 451, 102-122.	1.6	41
61	Low energy neutrino factory for large $\hat{1}$ 3. Physical Review D, 2007, 75, .	4.7	38
62	Unified graphical summary of neutrino mixing parameters. Physical Review D, 2004, 69, .	4.7	37
63	Oscillation effects on high-energy neutrino fluxes from astrophysical hidden sources. Physical Review D, 2007, 75, .	4.7	37
64	Neutrino mass hierarchy extraction using atmospheric neutrinos in ice. Physical Review D, 2008, 78, .	4.7	37
65	Dark radiation and interacting scenarios. Physical Review D, 2013, 87, .	4.7	37
66	Interacting dark energy in a closed universe. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L23-L28.	3.3	37
67	Non-standard interactions with high-energy atmospheric neutrinos at IceCube. Journal of High Energy Physics, 2017, 2017, 1.	4.7	36
68	A novel approach to quantifying the sensitivity of current and future cosmological datasets to the neutrino mass ordering through Bayesian hierarchical modeling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 239-250.	4.1	36
69	2021-H ₀ odyssey: closed, phantom and interacting dark energy cosmologies. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 008.	5.4	35
70	Future weak lensing constraints in a dark coupled universe. Physical Review D, 2011, 84, .	4.7	34
71	Dark radiation sterile neutrino candidates after Planck data. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 018-018.	5.4	34
72	Do current data prefer a nonminimally coupled inflaton?. Physical Review D, 2015, 91, .	4.7	34

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73	Determining the neutrino mass hierarchy and CP-violation in $\text{NO}^{1/2}$ with a second off-axis detector. <i>Physical Review D</i> , 2006, 73, .	4.7	32
74	Neutrino factory for both large and small \hat{m}_1 . <i>Physical Review D</i> , 2008, 77, .	4.7	32
75	Cold dark matter plus not-so-clumpy dark relics. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 008-008.	5.4	32
76	Soundness of dark energy properties. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 045-045.	5.4	32
77	Dark radiation in extended cosmological scenarios. <i>Physical Review D</i> , 2012, 86, .	4.7	31
78	Neutrino and dark radiation properties in light of recent CMB observations. <i>Physical Review D</i> , 2013, 87, .	4.7	30
79	New cosmological bounds on hot relics: axions and neutrinos. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2703-2711.	4.4	30
80	Emergent Dark Energy, neutrinos and cosmological tensions. <i>Physics of the Dark Universe</i> , 2021, 31, 100762.	4.9	30
81	Sterile neutrino models and nonminimal cosmologies. <i>Physical Review D</i> , 2012, 85, .	4.7	29
82	Warm dark matter and the ionization history of the Universe. <i>Physical Review D</i> , 2017, 96, .	4.7	29
83	UNVEILING NEUTRINO MIXING AND LEPTONIC CP VIOLATION. <i>Modern Physics Letters A</i> , 2005, 20, 1-17.	1.2	28
84	Testing standard and nonstandard neutrino physics with cosmological data. <i>Physical Review D</i> , 2013, 87, .	4.7	28
85	Light sterile neutrino sensitivity at the nuSTORM facility. <i>Physical Review D</i> , 2014, 89, .	4.7	28
86	Dark matter microphysics and 21cm observations. <i>Physical Review D</i> , 2019, 99, .	4.7	28
87	Dynamical dark sectors and neutrino masses and abundances. <i>Physical Review D</i> , 2020, 102, .	4.7	28
88	The present and future of the most favoured inflationary models after Planck 2015. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 020-020.	5.4	27
89	Warm Dark Matter and Cosmic Reionization. <i>Astrophysical Journal</i> , 2018, 852, 139.	4.5	27
90	The full Boltzmann hierarchy for dark matter-massive neutrino interactions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 066.	5.4	27

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91	Reconstructing WIMP properties with neutrino detectors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 664, 92-96.	4.1	26
92	Dark radiation and inflationary freedom after Planck 2015. Physical Review D, 2016, 93, .	4.7	26
93	High intensity neutrino oscillation facilities in Europe. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	25
94	Comprehensive study of neutrino-dark matter mixed damping. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 014-014.	5.4	24
95	A fake interacting dark energy detection?. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L22-L26.	3.3	23
96	Axion cold dark matter: Status after Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	22
97	Cosmological searches for a noncold dark matter component. Physical Review D, 2017, 96, .	4.7	22
98	NO $\hat{1}$ / $\hat{2}$ plus T2K: The race for the neutrino mass hierarchy. Physical Review D, 2007, 75, .	4.7	21
99	Improvement of the low energy neutrino factory. Physical Review D, 2010, 81, .	4.7	21
100	Hints of an axion-like particle mixing in the GeV gamma-ray blazar data?. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 023-023.	5.4	21
101	Current status of modified gravity. Physical Review D, 2014, 90, .	4.7	21
102	Robustness of cosmological axion mass limits. Physical Review D, 2015, 91, .	4.7	20
103	Harrison-Zelâ€™dovich primordial spectrum is consistent with observations. Physical Review D, 2010, 81, .	4.7	19
104	Model-independent fit to Planck and BICEP2 data. Physical Review D, 2014, 90, .	4.7	18
105	Higher-order coupled quintessence. Physical Review D, 2010, 82, .	4.7	17
106	High energy neutrinos from novae in symbiotic binaries: The case of V407 Cygni. Physical Review D, 2010, 82, .	4.7	17
107	Signatures of photon and axion-like particle mixing in the gamma-ray burst jet. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 030-030.	5.4	17
108	Primordial power spectrum features and $\frac{dP_{\delta\delta}}{d\ln k} \propto k^{n_s-1} \left(\frac{dP_{\delta\delta}}{d\ln k} \right)^{-1} \left(\frac{dP_{\delta\delta}}{d\ln k} \right)^{-1}$ Physical Review D, 2015, 92, .	4.7	16

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109	Exploring dark matter microphysics with galaxy surveys. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 034-034.	5.4	16
110	Physics potential of the Fermilab NuMI beamline. Physical Review D, 2005, 72, .	4.7	15
111	Gravitational lensing of supernova neutrinos. Astroparticle Physics, 2007, 28, 348-356.	4.3	15
112	Cosmological data analysis off(R) gravity models. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 004-004.	5.4	15
113	Atmospheric neutrino oscillations and tau neutrinos in ice. Physical Review D, 2010, 81, .	4.7	15
114	Phenomenological approaches of inflation and their equivalence. Physical Review D, 2015, 91, .	4.7	15
115	An intermediate \hat{I}^3 beta-beam neutrino experiment with long baseline. Journal of High Energy Physics, 2008, 2008, 115-115.	4.7	14
116	Impact of general reionization scenarios on extraction of inflationary parameters. Physical Review D, 2010, 82, .	4.7	14
117	The dark side of curvature. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 008-008.	5.4	13
118	Atmospheric neutrinos in ice and measurement of neutrino oscillation parameters. Physical Review D, 2010, 82, .	4.7	13
119	Neutrino probes of the nature of light dark matter. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 004-004.	5.4	13
120	Biases on cosmological parameters by general relativity effects. Physical Review D, 2012, 85, .	4.7	13
121	Future constraints on the Hu-Sawicki modified gravity scenario. Physical Review D, 2012, 85, .	4.7	12
122	EDGES result versus CMB and low-redshift constraints on ionization histories. Physical Review D, 2018, 97, .	4.7	12
123	Combining $\langle m_{\nu} \rangle_C$ $\langle m_{\nu} \rangle_P$ $\langle m_{\nu} \rangle_T$ -conjugate neutrino channels at Fermilab. Physical Review D, 2008, 78, .	4.7	11
124	Was there an early reionization component in our universe?. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 024-024.	5.4	11
125	Minimal dark energy: Key to sterile neutrino and Hubble constant tensions?. Physical Review D, 2022, 105, .	4.7	11
126	Current constraints on early and stressed dark energy models and future 21 \hat{A} cm perspectives. Physical Review D, 2014, 90, .	4.7	10

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127	Neutrino mass ordering at DUNE: An extra $\hat{1}\frac{1}{2}$ bonus. Physical Review D, 2019, 100, .	4.7	10
128	Ultrahigh-energy neutrino flux as a probe of large extra dimensions. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 015-015.	5.4	9
129	Is it mixed dark matter or neutrino masses?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 039-039.	5.4	9
130	Determining the dark matter mass with DeepCore. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 297-301.	4.1	8
131	Variations in fundamental constants at the cosmic dawn. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 026-026.	5.4	8
132	Instabilities in dark coupled models and constraints from cosmological data. AIP Conference Proceedings, 2010, , .	0.4	7
133	Reconciling tensor and scalar observables in G-inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 039-039.	5.4	7
134	Corrections to the fluxes of a neutrino factory. European Physical Journal C, 2003, 29, 197-206.	3.9	6
135	Primordial power spectrum features in phenomenological descriptions of inflation. Physics of the Dark Universe, 2017, 17, 38-45.	4.9	6
136	Summary of golden measurements at a $\hat{1}\frac{1}{2}$ -factory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 472, 403-407.	1.6	5
137	Leptonic CP Violation measurement at the neutrino factory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 503, 199-204.	1.6	4
138	PROMPT TeV EMISSION FROM COSMIC RAYS ACCELERATED BY GAMMA-RAY BURSTS INTERACTING WITH A SURROUNDING STELLAR WIND. Astrophysical Journal, 2009, 691, L37-L40.	4.5	4
139	The Low-Energy Neutrino Factory. Journal of Physics: Conference Series, 2008, 136, 042032.	0.4	3
140	On the flavor composition of the high-energy neutrinos in IceCube. Nuclear and Particle Physics Proceedings, 2016, 273-275, 433-439.	0.5	3
141	Superbeams plus neutrino factories. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 1847-1852.	3.6	2
142	The Low Energy Neutrino Factory. , 2010, , .		2
143	Running of featureful primordial power spectra. Physical Review D, 2017, 95, .	4.7	1
144	Intermediate $\hat{1}\frac{3}{2}$ beta beams with a cluster of detectors. Journal of Physics: Conference Series, 2008, 110, 082015.	0.4	0

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145	Low redshift probes and coupled dark matter-dark energy models. Journal of Physics: Conference Series, 2010, 259, 012084.	0.4	0
146	Publisher's Note: High intensity neutrino oscillation facilities in Europe [Phys. Rev. Accel. Beams 16, 021002 (2013)]. Physical Review Accelerators and Beams, 2016, 19, .	1.6	0