

Amanda Weltman

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

5,410
citations

279798

23
h-index

289244

40
g-index

45
all docs

45
docs citations

45
times ranked

6010
citing authors

#	ARTICLE	IF	CITATIONS
1	Chameleon cosmology. <i>Physical Review D</i> , 2004, 69, .	4.7	1,293
2	Chameleon Fields: Awaiting Surprises for Tests of Gravity in Space. <i>Physical Review Letters</i> , 2004, 93, 171104.	7.8	1,276
3	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
4	Detecting dark energy in orbit: The cosmological chameleon. <i>Physical Review D</i> , 2004, 70, .	4.7	415
5	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
6	A living theory catalogue for fast radio bursts. <i>Physics Reports</i> , 2019, 821, 1-27.	25.6	276
7	Conceptual design of the International Axion Observatory (IAXO). <i>Journal of Instrumentation</i> , 2014, 9, T05002-T05002.	1.2	201
8	Fundamental physics with the Square Kilometre Array. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	179
9	Physics potential of the International Axion Observatory (IAXO). <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 047-047.	5.4	135
10	HIRAX: a probe of dark energy and radio transients. <i>Proceedings of SPIE</i> , 2016, , .	0.8	134
11	Future Cosmological Constraints From Fast Radio Bursts. <i>Astrophysical Journal</i> , 2018, 856, 65.	4.5	82
12	Laboratory Constraints on Chameleon Dark Energy and Power-Law Fields. <i>Physical Review Letters</i> , 2010, 105, 261803.	7.8	55
13	Blackness of the cosmic microwave background spectrum as a probe of the distance-duality relation. <i>Physical Review D</i> , 2013, 87, .	4.7	51
14	Search for Chameleon Particles Using a Photon-Regeneration Technique. <i>Physical Review Letters</i> , 2009, 102, 030402.	7.8	49
15	Anomalous coupling of scalars to gauge fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 699, 5-9.	4.1	42
16	Higgs production as a probe of chameleon dark energy. <i>Physical Review D</i> , 2010, 81, .	4.7	34
17	Constraining chameleon field theories using the GammeV afterglow experiments. <i>Physical Review D</i> , 2010, 81, .	4.7	33
18	Cosmological moduli dynamics. <i>Journal of High Energy Physics</i> , 2007, 2007, 060-060.	4.7	29

#	ARTICLE	IF	CITATIONS
19	Enhanced Brane Tunneling and Instanton Wrinkles. <i>Physical Review Letters</i> , 2007, 99, 161601.	7.8	29
20	Collider constraints on interactions of dark energy with the Standard Model. <i>Journal of High Energy Physics</i> , 2009, 2009, 128-128.	4.7	28
21	Alignments of parity even/odd-only multipoles in CMB. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2410-2421.	4.4	25
22	Model-independent curvature determination with 21 $\hat{\text{A}}\text{cm}$ intensity mapping experiments. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 477, L122-L127.	3.3	25
23	Probing diffuse gas with fast radio bursts. <i>Physical Review D</i> , 2019, 100, .	4.7	25
24	Hydrogen Intensity and Real-Time Analysis Experiment: 256-element array status and overview. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.8	22
25	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -dual cosmological solutions in double field theory. <i>Physical Review D</i> , 2019, 99, .	4.7	19
26	Dual spacetime and nonsingular string cosmology. <i>Physical Review D</i> , 2018, 98, .	4.7	17
27	Resonant bar detector constraints on macro dark matter. <i>Physical Review D</i> , 2015, 91, .	4.7	16
28	Constraining the interaction between dark sectors with future HI intensity mapping observations. <i>Physical Review D</i> , 2018, 97, .	4.7	16
29	Current observations with a decaying cosmological constant allow for chaotic cyclic cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 026-026.	5.4	15
30	Point particle motion in double field theory and a singularity-free cosmological solution. <i>Physical Review D</i> , 2018, 97, .	4.7	14
31	How to avoid a swift kick in the chameleons. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 058-058.	5.4	13
32	Using Quasars as Standard Clocks for Measuring Cosmological Redshift. <i>Physical Review Letters</i> , 2012, 108, 231302.	7.8	12
33	An effect of $\hat{1}\hat{\pm}\hat{\epsilon}^2$ corrections on racetrack inflation. <i>Journal of High Energy Physics</i> , 2006, 2006, 035-035.	4.7	11
34	The Next Generation of Axion Helioscopes: The International Axion Observatory (IAXO). <i>Physics Procedia</i> , 2015, 61, 193-200.	1.2	11
35	Chameleons on the racetrack. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	9
36	Amplitudes for astrophysicists: known knowns. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	6

#	ARTICLE	IF	CITATIONS
37	Conformal inflation with chameleon coupling. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 027-027.	5.4	5
38	An update on the Axion Helioscopes front: current activities at CAST and the IAXO project. Nuclear and Particle Physics Proceedings, 2016, 273-275, 244-249.	0.5	4
39	The IAXO Helioscope. Journal of Physics: Conference Series, 2015, 650, 012009.	0.4	2
40	A natural cosmological constant from chameleons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 200-204.	4.1	1
41	The problem with quantum gravity. , 0, , 1-7.		0
42	Conversations in string theory. , 0, , 419-434.		0
43	Primordial ^4He constraints on inelastic macro dark matter revisited. Physical Review D, 2016, 94, .	4.7	0
44	Chameleon Cosmology Near and Far. , 2016, , .		0
45	Cosmic backgrounds from the radio to the far-infrared: recent results and perspectives from cosmological and astrophysical surveys. International Journal of Modern Physics D, 0, , .	2.1	0