Nelson J Nunes

List of Publications by Year
in descending order

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73 papers	4,089 citations	136950 32 h-index	110387 64 g-index
74 all docs	74 docs citations	74 times ranked	3290 citing authors

#	Article	IF	Citations
1	A simple parametrisation for coupled dark energy. Physics of the Dark Universe, 2022, 35, 100940.	4.9	6
2	Fundamental physics with ESPRESSO: Precise limit on variations in the fine-structure constant towards the bright quasar HE 0515â^'4414. Astronomy and Astrophysics, 2022, 658, A123.	5.1	30
3	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
4	Forecasting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>F</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>Q</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> cosmology with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î›</mml:mi><mml:mi>CDM</mml:mi></mml:math> background using standard sirens. Physical Review D, 2022, 105, .	4.7	22
5	Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant. Astronomy and Astrophysics, 2021, 646, A144.	5.1	18
6	Disformal couplings in a Î›CDM background cosmology. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 002.	5.4	8
7	HD 22496 b: The first ESPRESSO stand-alone planet discovery. Astronomy and Astrophysics, 2021, 654, A60.	5.1	6
8	Spherical collapse in coupled quintessence with a Î›CDM background. Physical Review D, 2020, 101, .	4.7	5
9	Disformally coupled quintessence. Physical Review D, 2020, 101, .	4.7	11
10	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
11	Testing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e742" altimg="si3.svg"><mml:mrow><mml:mi>F</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mi>Q</mml:mi><mml:mo>)</mml:mo></mml:mrow></mml:mrow></mml:math> gravity with redshift space distortions. Physics of the Dark Universe, 2020, 30, 100616.	4.9	95
12	Nightside condensation of iron in an ultrahot giant exoplanet. Nature, 2020, 580, 597-601.	27.8	178
13	ESPRESSO highlights the binary nature of the ultra-metal-poor giant HE 0107â^'5240. Astronomy and Astrophysics, 2020, 633, A129.	5.1	5
14	Revisiting Proxima with ESPRESSO. Astronomy and Astrophysics, 2020, 639, A77.	5.1	81
15	Conformally coupled tachyonic dark energy. Physical Review D, 2019, 100, .	4.7	14
16	What if Newtonâ€™s Gravitational Constant Was Negative?. Galaxies, 2019, 7, 38.	3.0	6
17	Coupled quintessence with a Î›CDM background: removing the Ïƒ₈ tension. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 007-007.	5.4	62
18	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	26.7	602

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19	Most general cubic-order Horndeski Lagrangian allowing for scaling solutions and the application to dark energy. Physical Review D, 2018, 98, .	4.7	16
20	New scaling solutions in cubic Horndeski theories. Physical Review D, 2018, 98, .	4.7	19
21	Screening three-form fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 417-421.	4.1	2
22	Linear density perturbations in multifield coupled quintessence. Physical Review D, 2017, 95, .	4.7	8
23	A Review on the Cosmology of the de Sitter Horndeski Models. Universe, 2017, 3, 33.	2.5	6
24	Cosmology of the de Sitter Horndeski models. , 2017, , .		0
25	Accelerating Horndeski cosmologies screening the vacuum energy. , 2017, , .		0
26	Unveiling the Dynamics of the Universe. Symmetry, 2016, 8, 70.	2.2	40
27	Generalized dark energy interactions with multiple fluids. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 031-031.	5.4	25
28	EELT-HIRES the high-resolution spectrograph for the E-ELT. Proceedings of SPIE, 2016, , .	0.8	34
29	Three-form inflation in type II Randall-Sundrum. Physical Review D, 2016, 93, .	4.7	13
30	Non-Gaussianity in multiple three-form field inflation. Physical Review D, 2016, 94, .	4.7	11
31	Horndeski theories self-tuning to a de Sitter vacuum. Physical Review D, 2015, 91, .	4.7	65
32	Attracted to de Sitter II: cosmology of the shift-symmetric Horndeski models. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 056-056.	5.4	17
33	Accelerating universe as a result of an adjustment mechanism. International Journal of Modern Physics D, 2015, 24, 1544018.	2.1	4
34	The variation of the fine-structure constant from disformal couplings. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 018-018.	5.4	25
35	Attracted to de Sitter: cosmology of the linear Horndeski models. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 033-033.	5.4	15
36	Multifield coupled quintessence. Physical Review D, 2014, 90, .	4.7	28

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37	Fundamental cosmology from precision spectroscopy: Varying couplings. Physical Review D, 2014, 90, .	4.7	12
38	Inflation in a two 3-form fields scenario. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 064-064.	5.4	20
39	Coupled three-form dark energy. Physical Review D, 2013, 88, .	4.7	34
40	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	26.7	683
41	Three-form inflation and non-Gaussianity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 016-016.	5.4	20
42	Brane isotropization in an extra-dimensional Tolman-Bondi universe. Physical Review D, 2012, 85, .	4.7	1
43	Variation of fundamental parameters and dark energy: A principal component approach. Physical Review D, 2012, 86, .	4.7	35
44	Mass freezing in growing neutrino quintessence. Physical Review D, 2011, 83, .	4.7	19
45	Kahler moduli inflation revisited. Journal of High Energy Physics, 2010, 2010, 1.	4.7	28
46	Three-form cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 105-109.	4.1	55
47	Chameleons with field-dependent couplings. Physical Review D, 2010, 82, .	4.7	75
48	Non-linear non-local Cosmology. , 2009, , .		13
49	Dynamics and stability of light-like tachyon condensation. Journal of High Energy Physics, 2009, 2009, 018-018.	4.7	18
50	Gravitational wave background from superinflation in loop quantum cosmology. Physical Review D, 2009, 79, .	4.7	48
51	Inflation and dark energy from three-forms. Physical Review D, 2009, 80, .	4.7	73
52	Cluster scaling relations from cosmological hydrodynamic simulations in a dark-energy dominated universe. Astronomy and Astrophysics, 2009, 496, 637-644.	5.1	29
53	Diffusing nonlocal inflation: Solving the field equations as an initial value problem. Physical Review D, 2008, 78, .	4.7	39
54	Superinflation in loop quantum cosmology. Physical Review D, 2008, 77, .	4.7	63

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55	Moduli evolution in the presence of thermal corrections. Physical Review D, 2008, 78, .	4.7	5
56	Coupled variations of fundamental couplings and primordial nucleosynthesis. Physical Review D, 2007, 76, .	4.7	131
57	Dynamics of â€œlogamediateâ€•inflation. Physical Review D, 2007, 76, .	4.7	95
58	Constraints on a scale invariant power spectrum from superinflation in loop quantum cosmology. Physical Review D, 2006, 74, .	4.7	32
59	Number counts in homogeneous and inhomogeneous dark energy models. Astronomy and Astrophysics, 2006, 450, 899-907.	5.1	35
60	Structure formation in inhomogeneous dark energy models. Monthly Notices of the Royal Astronomical Society, 2006, 368, 751-758.	4.4	120
61	Reconstructing the dark energy equation of state with varying couplings. Physical Review D, 2006, 74, .	4.7	59
62	On the stability of field-theoretical regularizations of negative tension branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 623, 147-154.	4.1	7
63	Moduli evolution in the presence of flux compactifications. Physical Review D, 2005, 72, .	4.7	14
64	INFLATIONARY COSMOLOGY AND OSCILLATING UNIVERSES IN LOOP QUANTUM COSMOLOGY. International Journal of Modern Physics A, 2005, 20, 2347-2357.	1.5	33
65	Inflation: A graceful entrance from loop quantum cosmology. Physical Review D, 2005, 72, .	4.7	43
66	Models of quintessence coupled to the electromagnetic field and the cosmological evolution of alpha. Physical Review D, 2004, 69, .	4.7	84
67	Reconstructing the Dark Energy Equation of State with Varying Alpha. AIP Conference Proceedings, 2004, , .	0.4	3
68	Oscillatory universes in loop quantum cosmology and initial conditions for inflation. Physical Review D, 2004, 70, .	4.7	95
69	Constraints on the mass spectrum of primordial black holes and braneworld parameters from the high-energy diffuse photon background. Physical Review D, 2003, 68, .	4.7	32
70	Tracking quintessential inflation from brane worlds. Physical Review D, 2002, 66, .	4.7	46
71	Moduli evolution in heterotic scenarios. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 136-144.	4.1	19
72	Applications of scalar attractor solutions to cosmology. Physical Review D, 2001, 64, .	4.7	120

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73	Quintessence models in supergravity. Physical Review D, 2000, 62, .	4.7	94