

# Nelson J Nunes

## List of Publications by Year in descending order

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73  
papers

4,089  
citations

136740

32  
h-index

110170

64  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	8.2	683
2	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
3	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	0.7	198
4	Nightside condensation of iron in an ultrahot giant exoplanet. Nature, 2020, 580, 597-601.	13.7	178
5	Coupled variations of fundamental couplings and primordial nucleosynthesis. Physical Review D, 2007, 76, .	1.6	131
6	Applications of scalar attractor solutions to cosmology. Physical Review D, 2001, 64, .	1.6	120
7	Structure formation in inhomogeneous dark energy models. Monthly Notices of the Royal Astronomical Society, 2006, 368, 751-758.	1.6	120
8	Oscillatory universes in loop quantum cosmology and initial conditions for inflation. Physical Review D, 2004, 70, .	1.6	95
9	Dynamics of $\epsilon$ -inflation. Physical Review D, 2007, 76, .	1.6	95
10	Testing gravity with redshift space distortions. Physics of the Dark Universe, 2020, 30, 100616.	1.6	95
11	Quintessence models in supergravity. Physical Review D, 2000, 62, .	1.6	94
12	Models of quintessence coupled to the electromagnetic field and the cosmological evolution of $\alpha$ . Physical Review D, 2004, 69, .	1.6	84
13	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	8.2	82
14	Revisiting Proxima with ESPRESSO. Astronomy and Astrophysics, 2020, 639, A77.	2.1	81
15	Chameleons with field-dependent couplings. Physical Review D, 2010, 82, .	1.6	75
16	Inflation and dark energy from three-forms. Physical Review D, 2009, 80, .	1.6	73
17	Horndeski theories self-tuning to a de Sitter vacuum. Physical Review D, 2015, 91, .	1.6	65
18	Superinflation in loop quantum cosmology. Physical Review D, 2008, 77, .	1.6	63

#	ARTICLE	IF	CITATIONS
19	Coupled quintessence with a $\Lambda$ CDM background: removing the $\Omega_b h^2$ tension. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 007-007.	1.9	62
20	Reconstructing the dark energy equation of state with varying couplings. Physical Review D, 2006, 74, .	1.6	59
21	Three-form cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 105-109.	1.5	55
22	Gravitational wave background from superinflation in loop quantum cosmology. Physical Review D, 2009, 79, .	1.6	48
23	Tracking quintessential inflation from brane worlds. Physical Review D, 2002, 66, .	1.6	46
24	Inflation: A graceful entrance from loop quantum cosmology. Physical Review D, 2005, 72, .	1.6	43
25	Unveiling the Dynamics of the Universe. Symmetry, 2016, 8, 70.	1.1	40
26	Diffusing nonlocal inflation: Solving the field equations as an initial value problem. Physical Review D, 2008, 78, .	1.6	39
27	Number counts in homogeneous and inhomogeneous dark energy models. Astronomy and Astrophysics, 2006, 450, 899-907.	2.1	35
28	Variation of fundamental parameters and dark energy: A principal component approach. Physical Review D, 2012, 86, .	1.6	35
29	Coupled three-form dark energy. Physical Review D, 2013, 88, .	1.6	34
30	EELT-HIRES the high-resolution spectrograph for the E-ELT. Proceedings of SPIE, 2016, , .	0.8	34
31	INFLATIONARY COSMOLOGY AND OSCILLATING UNIVERSES IN LOOP QUANTUM COSMOLOGY. International Journal of Modern Physics A, 2005, 20, 2347-2357.	0.5	33
32	Constraints on the mass spectrum of primordial black holes and braneworld parameters from the high-energy diffuse photon background. Physical Review D, 2003, 68, .	1.6	32
33	Constraints on a scale invariant power spectrum from superinflation in loop quantum cosmology. Physical Review D, 2006, 74, .	1.6	32
34	Fundamental physics with ESPRESSO: Precise limit on variations in the fine-structure constant towards the bright quasar HE 0515 $\hat{a}$ 4414. Astronomy and Astrophysics, 2022, 658, A123.	2.1	30
35	Cluster scaling relations from cosmological hydrodynamic simulations in a dark-energy dominated universe. Astronomy and Astrophysics, 2009, 496, 637-644.	2.1	29
36	Kahler moduli inflation revisited. Journal of High Energy Physics, 2010, 2010, 1.	1.6	28

#	ARTICLE	IF	CITATIONS
37	Multifield coupled quintessence. <i>Physical Review D</i> , 2014, 90, .	1.6	28
38	The variation of the fine-structure constant from disformal couplings. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 018-018.	1.9	25
39	Generalized dark energy interactions with multiple fluids. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 031-031.	1.9	25
40	Forecasting $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle F \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ cosmology with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="normal"} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{CDM} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ background using standard sirens. <i>Physical Review D</i> , 2022, 105, .	1.6	22
41	Three-form inflation and non-Gaussianity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 016-016.	1.9	20
42	Inflation in a two 3-form fields scenario. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 064-064.	1.9	20
43	Moduli evolution in heterotic scenarios. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 497, 136-144.	1.5	19
44	Mass freezing in growing neutrino quintessence. <i>Physical Review D</i> , 2011, 83, .	1.6	19
45	New scaling solutions in cubic Horndeski theories. <i>Physical Review D</i> , 2018, 98, .	1.6	19
46	Dynamics and stability of light-like tachyon condensation. <i>Journal of High Energy Physics</i> , 2009, 2009, 018-018.	1.6	18
47	Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant. <i>Astronomy and Astrophysics</i> , 2021, 646, A144.	2.1	18
48	Attracted to de Sitter II: cosmology of the shift-symmetric Horndeski models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 056-056.	1.9	17
49	Most general cubic-order Horndeski Lagrangian allowing for scaling solutions and the application to dark energy. <i>Physical Review D</i> , 2018, 98, .	1.6	16
50	Attracted to de Sitter: cosmology of the linear Horndeski models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 033-033.	1.9	15
51	Moduli evolution in the presence of flux compactifications. <i>Physical Review D</i> , 2005, 72, .	1.6	14
52	Conformally coupled tachyonic dark energy. <i>Physical Review D</i> , 2019, 100, .	1.6	14
53	Non-linear non-local Cosmology. , 2009, , .		13
54	Three-form inflation in type II Randall-Sundrum. <i>Physical Review D</i> , 2016, 93, .	1.6	13

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55	Fundamental cosmology from precision spectroscopy: Varying couplings. <i>Physical Review D</i> , 2014, 90, .	1.6	12
56	Non-Gaussianity in multiple three-form field inflation. <i>Physical Review D</i> , 2016, 94, .	1.6	11
57	Disformally coupled quintessence. <i>Physical Review D</i> , 2020, 101, .	1.6	11
58	Linear density perturbations in multifield coupled quintessence. <i>Physical Review D</i> , 2017, 95, .	1.6	8
59	Disformal couplings in a $\Lambda$ CDM background cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 002.	1.9	8
60	On the stability of field-theoretical regularizations of negative tension branes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 623, 147-154.	1.5	7
61	A Review on the Cosmology of the de Sitter Horndeski Models. <i>Universe</i> , 2017, 3, 33.	0.9	6
62	What if Newton's Gravitational Constant Was Negative?. <i>Galaxies</i> , 2019, 7, 38.	1.1	6
63	HD 22496 b: The first ESPRESSO stand-alone planet discovery. <i>Astronomy and Astrophysics</i> , 2021, 654, A60.	2.1	6
64	A simple parametrisation for coupled dark energy. <i>Physics of the Dark Universe</i> , 2022, 35, 100940.	1.8	6
65	Moduli evolution in the presence of thermal corrections. <i>Physical Review D</i> , 2008, 78, .	1.6	5
66	Spherical collapse in coupled quintessence with a $\Lambda$ CDM background. <i>Physical Review D</i> , 2020, 101, .	1.6	5
67	ESPRESSO highlights the binary nature of the ultra-metal-poor giant HE 0107-5240. <i>Astronomy and Astrophysics</i> , 2020, 633, A129.	2.1	5
68	Accelerating universe as a result of an adjustment mechanism. <i>International Journal of Modern Physics D</i> , 2015, 24, 1544018.	0.9	4
69	Reconstructing the Dark Energy Equation of State with Varying Alpha. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	3
70	Screening three-form fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 773, 417-421.	1.5	2
71	Brane isotropization in an extra-dimensional Tolman-Bondi universe. <i>Physical Review D</i> , 2012, 85, .	1.6	1
72	Cosmology of the de Sitter Horndeski models. , 2017, , .		0

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73	Accelerating Horndeski cosmologies screening the vacuum energy. , 2017, , .		0