

Carlos J A P Martins

List of Publications by Year in descending order

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214
papers

6,195
citations

71102

41
h-index

95266

68
g-index

217
all docs

217
docs citations

217
times ranked

2876
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Quantitative string evolution. <i>Physical Review D</i> , 1996, 54, 2535-2556.	4.7	234
3	ESPRESSO at VLT. <i>Astronomy and Astrophysics</i> , 2021, 645, A96.	5.1	221
4	Extending the velocity-dependent one-scale string evolution model. <i>Physical Review D</i> , 2002, 65, .	4.7	192
5	Nightside condensation of iron in an ultrahot giant exoplanet. <i>Nature</i> , 2020, 580, 597-601.	27.8	178
6	Fractal properties and small-scale structure of cosmic string networks. <i>Physical Review D</i> , 2006, 73, .	4.7	155
7	Evolution of Abelian-Higgs string networks. <i>Physical Review D</i> , 2001, 65, .	4.7	142
8	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 006-006.	5.4	138
9	The status of varying constants: a review of the physics, searches and implications. <i>Reports on Progress in Physics</i> , 2017, 80, 126902.	20.1	108
10	Early-universe constraints on a time-varying fine structure constant. <i>Physical Review D</i> , 2001, 64, .	4.7	105
11	The UVES Large Program for testing fundamental physics I. Bounds on a change in α towards quasar HE 0217-2818. <i>Astronomy and Astrophysics</i> , 2013, 555, A68.	5.1	96
12	Scale-invariant string evolution with friction. <i>Physical Review D</i> , 1996, 53, R575-R579.	4.7	95
13	Six transiting planets and a chain of Laplace resonances in TOI-178. <i>Astronomy and Astrophysics</i> , 2021, 649, A26.	5.1	94
14	The UVES large program for testing fundamental physics II. Constraints on a change in α towards quasar HE 0027-1836.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 861-878.	4.4	88
15	Alternatives to quintessence model building. <i>Physical Review D</i> , 2003, 67, .	4.7	87
16	Revisiting Proxima with ESPRESSO. <i>Astronomy and Astrophysics</i> , 2020, 639, A77.	5.1	81
17	Looking for a varying α in the cosmic microwave background. <i>Physical Review D</i> , 2000, 62, .	4.7	76
18	Exploring cosmic origins with CORE: Inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 016-016.	5.4	75

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19	Atmospheric Rossiter-McLaughlin effect and transmission spectroscopy of WASP-121b with ESPRESSO. <i>Astronomy and Astrophysics</i> , 2021, 645, A24.	5.1	75
20	Role of baryons in unified dark matter models. <i>Physical Review D</i> , 2003, 67, .	4.7	73
21	Exploring cosmic origins with CORE: Cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 017-017.	5.4	73
22	Cosmological consequences of the brane/bulk interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 495, 183-192.	4.1	63
23	Measuring $\hat{\tau}$ in the early Universe: cosmic microwave background polarization, re-ionization and the Fisher matrix analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, 20-38.	4.4	63
24	ESPRESSO high-resolution transmission spectroscopy of WASP-76 b. <i>Astronomy and Astrophysics</i> , 2021, 646, A158.	5.1	62
25	WMAP constraints on varying $\hat{\tau}$ and the promise of reionization. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 585, 29-34.	4.1	61
26	Reconstructing the dark energy equation of state with varying couplings. <i>Physical Review D</i> , 2006, 74, .	4.7	59
27	One-scale model for domain wall network evolution. <i>Physical Review D</i> , 2005, 72, .	4.7	58
28	The UVES Large Program for testing fundamental physics – III. Constraints on the fine-structure constant from three telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 128-150.	4.4	57
29	Unified Model for Vortex-String Network Evolution. <i>Physical Review Letters</i> , 2004, 92, 251601.	7.8	56
30	Does a varying speed of light solve the cosmological problems?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 459, 468-472.	4.1	53
31	Cosmological evolution of domain wall networks. <i>Physical Review D</i> , 2005, 71, .	4.7	52
32	Scaling properties of domain wall networks. <i>Physical Review D</i> , 2011, 84, .	4.7	47
33	Frustrated expectations: Defect networks and dark energy. <i>Physical Review D</i> , 2006, 73, .	4.7	46
34	Warm terrestrial planet with half the mass of Venus transiting a nearby star. <i>Astronomy and Astrophysics</i> , 2021, 653, A41.	5.1	46
35	Four direct measurements of the fine-structure constant 13 billion years ago. <i>Science Advances</i> , 2020, 6, .	10.3	45
36	The Λ CDM limit of the generalized Chaplygin gas scenario. <i>Journal of Cosmology and Astroparticle Physics</i> , 2003, 2003, 002-002.	5.4	44

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37	Measuring Ω_b in the early universe: CMB temperature, large-scale structure, and Fisher matrix analysis. <i>Physical Review D</i> , 2002, 66, .	4.7	43
38	Onset of the nonlinear regime in unified dark matter models. <i>Physical Review D</i> , 2004, 69, .	4.7	43
39	Extending the velocity-dependent one-scale model for domain walls. <i>Physical Review D</i> , 2016, 93, .	4.7	43
40	A precise architecture characterization of the ϵ Mensae planetary system. <i>Astronomy and Astrophysics</i> , 2020, 642, A31.	5.1	43
41	A candidate short-period sub-Earth orbiting Proxima Centauri. <i>Astronomy and Astrophysics</i> , 2022, 658, A115.	5.1	43
42	Dynamics of domain wall networks with junctions. <i>Physical Review D</i> , 2008, 78, .	4.7	42
43	A Supernova Brane Scan. <i>Astrophysical Journal</i> , 2002, 565, 661-667.	4.5	42
44	Constraints on the CMB temperature-redshift dependence from SZ and distance measurements. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 013-013.	5.4	41
45	The atmosphere of HD 209458b seen with ESPRESSO. <i>Astronomy and Astrophysics</i> , 2021, 647, A26.	5.1	41
46	ϵ Euclid: Forecast constraints on the cosmic distance duality relation with complementary external probes. <i>Astronomy and Astrophysics</i> , 2020, 644, A80.	5.1	39
47	Vorton formation. <i>Physical Review D</i> , 1998, 57, 7155-7176.	4.7	38
48	Probing dark energy with redshift drift. <i>Physical Review D</i> , 2012, 86, .	4.7	37
49	Real-time cosmography with redshift derivatives. <i>Physical Review D</i> , 2016, 94, .	4.7	37
50	WASP-127b: a misaligned planet with a partly cloudy atmosphere and tenuous sodium signature seen by ESPRESSO. <i>Astronomy and Astrophysics</i> , 2020, 644, A155.	5.1	36
51	Variation of fundamental parameters and dark energy: A principal component approach. <i>Physical Review D</i> , 2012, 86, .	4.7	35
52	New constraints on variations of the fine structure constant from CMB anisotropies. <i>Physical Review D</i> , 2009, 80, .	4.7	34
53	Constraining variations in the fine structure constant in the presence of early dark energy. <i>Physical Review D</i> , 2011, 84, .	4.7	34
54	Into the storm: diving into the winds of the ultra-hot Jupiter WASP-76 b with HARPS and ESPRESSO. <i>Astronomy and Astrophysics</i> , 2021, 653, A73.	5.1	34

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55	VSL theories and the Doppler peak. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 483, 210-216.	4.1	33
56	Understanding domain wall network evolution. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 610, 1-8.	4.1	32
57	Defect junctions and domain wall dynamics. <i>Physical Review D</i> , 2006, 73, .	4.7	32
58	Linearized Bekenstein varying f_{\pm} models. <i>Physical Review D</i> , 2004, 70, .	4.7	31
59	Accurate calibration of the velocity-dependent one-scale model for domain walls. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 740-744.	4.1	31
60	Cosmology with varying constants. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002, 360, 2681-2695.	3.4	30
61	Linear and nonlinear instabilities in unified dark energy models. <i>Physical Review D</i> , 2008, 77, .	4.7	30
62	Dark energy coupling with electromagnetism as seen from future low-medium redshift probes. <i>Physical Review D</i> , 2014, 89, .	4.7	30
63	Fundamental physics with ESPRESSO: Precise limit on variations in the fine-structure constant towards the bright quasar HE 0515 $\hat{\alpha}$ '4414. <i>Astronomy and Astrophysics</i> , 2022, 658, A123.	5.1	30
64	Limits on cosmic chiral vortons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 445, 43-51.	4.1	29
65	Evolution of the fine-structure constant in runaway dilaton models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 743, 377-382.	4.1	29
66	Fundamental cosmology in the E-ELT era: the status and future role of tests of fundamental coupling stability. <i>General Relativity and Gravitation</i> , 2015, 47, 1.	2.0	29
67	Scaling laws for nonintercommuting cosmic string networks. <i>Physical Review D</i> , 2004, 70, .	4.7	28
68	Contribution of domain wall networks to the CMB power spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 747, 426-432.	4.1	28
69	Primordial nucleosynthesis with varying fundamental constants. <i>Astronomy and Astrophysics</i> , 2020, 633, L11.	5.1	28
70	Cosmic strings in an open universe: Quantitative evolution and observational consequences. <i>Physical Review D</i> , 1997, 56, 4568-4577.	4.7	27
71	Constraining the evolution of the CMB temperature with SZ measurements from Planck data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 011-011.	5.4	27
72	Varying couplings in the early universe: Correlated variations of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mi> \hat{l} \pm < /mml:mi> < /mml:math>$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mi> G < /mml:mi> < /mml:math>$. <i>Physical Review D</i> , 2010, 82, .	4.7	26

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73	Fine structure constant and the CMB damping scale. <i>Physical Review D</i> , 2012, 85, .	4.7	26
74	New constraints on varying $\hat{\mu}$. <i>New Astronomy Reviews</i> , 2003, 47, 863-869.	12.8	25
75	Scaling of cosmological domain wall networks with junctions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 647, 63-66.	4.1	25
76	Evolution of local and global monopole networks. <i>Physical Review D</i> , 2008, 78, .	4.7	24
77	CONSTRAINING THE REDSHIFT EVOLUTION OF THE COSMIC MICROWAVE BACKGROUND BLACKBODY TEMPERATURE WITH <i>PLANCK</i> DATA. <i>Astrophysical Journal</i> , 2015, 808, 128.	4.5	24
78	Low redshift constraints on energy-momentum-powered gravity models. <i>Astronomy and Astrophysics</i> , 2019, 625, A127.	5.1	24
79	Extending and calibrating the velocity dependent one-scale model for cosmic strings with one thousand field theory simulations. <i>Physical Review D</i> , 2019, 100, .	4.7	24
80	Scaling properties of cosmological axion strings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 788, 147-151.	4.1	24
81	The Rossiter-McLaughlin effect revolutions: an ultra-short period planet and a warm mini-Neptune on perpendicular orbits. <i>Astronomy and Astrophysics</i> , 2021, 654, A152.	5.1	23
82	Clustering properties of dynamical dark energy models. <i>Physical Review D</i> , 2008, 77, .	4.7	22
83	Probing unification scenarios with atomic clocks. <i>Physical Review D</i> , 2012, 86, .	4.7	22
84	Fundamental constants and high-resolution spectroscopy. <i>Astronomische Nachrichten</i> , 2014, 335, 83-91.	1.2	22
85	A sub-Neptune and a non-transiting Neptune-mass companion unveiled by ESPRESSO around the bright late-F dwarf HD 5278 (TOI-130). <i>Astronomy and Astrophysics</i> , 2021, 648, A75.	5.1	22
86	K2-111: an old system with two planets in near-resonance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5004-5021.	4.4	22
87	Topological defects: Fossils of an anisotropic era?. <i>Physical Review D</i> , 2000, 62, .	4.7	21
88	Subpercent constraints on the cosmological temperature evolution. <i>Physical Review D</i> , 2016, 93, .	4.7	21
89	Forecasts of redshift drift constraints on cosmological parameters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3607-3624.	4.4	21
90	Probing dark energy beyond $z=2$ with CODEX. <i>Physical Review D</i> , 2012, 85, .	4.7	20

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91	Consistency tests of the stability of fundamental couplings and unification scenarios. <i>Physical Review D</i> , 2014, 89, .	4.7	20
92	Cosmological effects of scalar-photon couplings: dark energy and varying- $\hat{\alpha}$ Models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 062-062.	5.4	20
93	Primordial Adiabatic Fluctuations from Cosmic Defects. <i>Physical Review Letters</i> , 2000, 85, 1370-1373.	7.8	18
94	Fine-structure constant constraints on dark energy. <i>Physical Review D</i> , 2015, 91, .	4.7	18
95	Updated constraints on spatial variations of the fine-structure constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 756, 121-125.	4.1	18
96	Constraining spatial variations of the fine structure constant using clusters of galaxies and Planck data. <i>Physical Review D</i> , 2016, 94, .	4.7	18
97	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.	5.1	18
98	<i>Euclid</i> : Constraining dark energy coupled to electromagnetism using astrophysical and laboratory data. <i>Astronomy and Astrophysics</i> , 2021, 654, A148.	5.1	18
99	MEASURING THE REDSHIFT DEPENDENCE OF THE COSMIC MICROWAVE BACKGROUND MONOPOLE TEMPERATURE WITH PLANCK DATA. <i>Astrophysical Journal</i> , 2012, 757, 144.	4.5	17
100	Effects of biases in domain wall network evolution. <i>Physical Review D</i> , 2014, 90, .	4.7	17
101	Fine-structure constant constraints on dark energy. II. Extending the parameter space. <i>Physical Review D</i> , 2016, 93, .	4.7	17
102	Exploring cosmic origins with CORE: Cluster science. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 019-019.	5.4	17
103	Characterization of the K2-38 planetary system. <i>Astronomy and Astrophysics</i> , 2020, 641, A92.	5.1	17
104	Dark energy and equivalence principle constraints from astrophysical tests of the stability of the fine-structure constant. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 047-047.	5.4	16
105	Dynamics of biased domain walls and the devaluation mechanism. <i>Physical Review D</i> , 2008, 78, .	4.7	15
106	Models for small-scale structure of cosmic strings: Mathematical formalism. <i>Physical Review D</i> , 2014, 90, .	4.7	15
107	Spatial variations of the fine-structure constant in symmetron models. <i>Physical Review D</i> , 2014, 89, .	4.7	15
108	Stability of fundamental couplings: A global analysis. <i>Physical Review D</i> , 2017, 95, .	4.7	15

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109	Cosmological consequences of string-forming open inflation models. <i>Physical Review D</i> , 1999, 59, .	4.7	14
110	Alternative data reduction procedures for LIVES: Wavelength calibration and spectrum addition. <i>New Astronomy</i> , 2009, 14, 379-390.	1.8	14
111	Analytic models for the evolution of semilocal string networks. <i>Physical Review D</i> , 2011, 84, .	4.7	14
112	Cosmic string evolution with a conserved charge. <i>Physical Review D</i> , 2012, 85, .	4.7	14
113	Primordial nucleosynthesis with varying fundamental constants. <i>Astronomy and Astrophysics</i> , 2021, 653, A48.	5.1	14
114	String evolution in open universes. <i>Physical Review D</i> , 1997, 55, 5208-5211.	4.7	13
115	Constraining cosmologies with fundamental constants " I. Quintessence and K-essence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 2232-2240.	4.4	13
116	Evolution of semilocal string networks: Large-scale properties. <i>Physical Review D</i> , 2014, 89, .	4.7	13
117	Semianalytic calculation of cosmic microwave background anisotropies from wiggly and superconducting cosmic strings. <i>Physical Review D</i> , 2017, 96, .	4.7	13
118	Broadband transmission spectroscopy of HD 209458b with ESPRESSO: evidence for Na, TiO, or both. <i>Astronomy and Astrophysics</i> , 2020, 644, A51.	5.1	13
119	Fundamental cosmology from precision spectroscopy: Varying couplings. <i>Physical Review D</i> , 2014, 90, .	4.7	12
120	Stretching and Kibble scaling regimes for Hubble-damped defect networks. <i>Physical Review D</i> , 2016, 94, .	4.7	12
121	Abelian "Higgs cosmic string evolution with multiple GPUs. <i>Astronomy and Computing</i> , 2021, 34, 100438.	1.7	12
122	Averaged methods for vortex-string evolution. <i>Physical Review B</i> , 1997, 56, 10892-10906.	3.2	11
123	Topological Defects in Contracting Universes. <i>Physical Review Letters</i> , 2002, 89, 271301.	7.8	11
124	Modified Median Statistics and Type Ia Supernova Data. <i>Astrophysical Journal</i> , 2002, 575, 989-995.	4.5	11
125	Stellar test of the physics of unification. <i>Physical Review D</i> , 2012, 86, .	4.7	11
126	Fine-structure constant constraints on Bekenstein-type models. <i>Physical Review D</i> , 2014, 90, .	4.7	11

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127	Further consistency tests of the stability of fundamental couplings. Physical Review D, 2015, 91, .	4.7	11
128	Dark energy constraints from ESPRESSO tests of the stability of fundamental couplings. Physical Review D, 2016, 94, .	4.7	11
129	Quantifying the effect of cooled initial conditions on cosmic string network evolution. Physical Review D, 2020, 102, .	4.7	11
130	Current and future constraints on Bekenstein-type models for varying couplings. Physical Review D, 2016, 94, .	4.7	10
131	Models for small-scale structure on cosmic strings. II. Scaling and its stability. Physical Review D, 2016, 94, .	4.7	10
132	Current and future white dwarf mass-radius constraints on varying fundamental couplings and unification scenarios. Physical Review D, 2017, 96, .	4.7	10
133	Generalized velocity-dependent one-scale model for current-carrying strings. Physical Review D, 2021, 103, .	4.7	10
134	Cosmological impact of redshift drift measurements. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 508, L53-L57.	3.3	10
135	Can we predict the fate of the Universe?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 501, 257-263.	4.1	9
136	Can our Universe be inhomogeneous on large sub-horizon scales?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 515, 148-154.	4.1	9
137	Supernova constraints on spatial variations of the vacuum energy density. Physical Review D, 2001, 64, .	4.7	9
138	Evolution of hybrid defect networks. Physical Review D, 2009, 80, .	4.7	9
139	A test of unification towards the radio source PKS1413+135. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 1-4.	4.1	9
140	Variations of the fine-structure constant in exotic singularity models. Physical Review D, 2014, 89, .	4.7	9
141	Redshift drift test of exotic singularity universes. Physical Review D, 2014, 89, .	4.7	9
142	New Constraints on Spatial Variations of the Fine Structure Constant from Clusters of Galaxies. Universe, 2016, 2, 34.	2.5	9
143	Cosmological and astrophysical constraints on tachyon dark energy models. Physical Review D, 2016, 93, .	4.7	9
144	Cosmic strings and other topological defects in nonscaling regimes. Physical Review D, 2017, 95, .	4.7	9

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145	Current and future constraints on extended Bekenstein-type models for a varying fine-structure constant. <i>Physical Review D</i> , 2018, 97, .	4.7	9
146	Low-redshift constraints on homogeneous and isotropic universes with torsion. <i>Physics of the Dark Universe</i> , 2020, 27, 100416.	4.9	9
147	Abelian-Higgs cosmic string evolution with CUDA. <i>Astronomy and Computing</i> , 2020, 32, 100388.	1.7	9
148	Evolution of superconducting string currents. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 432, 58-64.	4.1	8
149	Evolution of the fine-structure constant in the non-linear regime. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006, 2006, 018-018.	5.4	8
150	Evolution of cosmic necklaces and lattices. <i>Physical Review D</i> , 2010, 82, .	4.7	8
151	Constraints of the variation of fundamental couplings and sensitivity of the equation of state of dense matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 718, 241-247.	4.1	8
152	Effects of biases in domain wall network evolution. II. Quantitative analysis. <i>Physical Review D</i> , 2018, 97, .	4.7	8
153	Charge-velocity-dependent one-scale linear model. <i>Physical Review D</i> , 2021, 104, .	4.7	8
154	Varying fine-structure constant cosmography. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 827, 137002.	4.1	8
155	Effects of inflation on a cosmic string loop population. <i>Physical Review D</i> , 2007, 76, .	4.7	7
156	Dark matter from cosmic defects on galactic scales?. <i>Physical Review D</i> , 2008, 78, .	4.7	7
157	Fundamental cosmology from precision spectroscopy. II. Synergies with supernovae. <i>Physical Review D</i> , 2015, 91, .	4.7	7
158	Consistency of local and astrophysical tests of the stability of fundamental constants. <i>Physics of the Dark Universe</i> , 2019, 25, 100301.	4.9	7
159	Astrophysical and local constraints on string theory: Runaway dilaton models. <i>Physical Review D</i> , 2019, 100, .	4.7	7
160	The Cosmology of Extra Dimensions and Varying Fundamental Constants. <i>Astrophysics and Space Science</i> , 2003, 283, 439-444.	1.4	6
161	Cosmic numbers: A physical classification for cosmological models. <i>Physical Review D</i> , 2003, 67, .	4.7	6
162	General purpose graphics-processing-unit implementation of cosmological domain wall network evolution. <i>Physical Review E</i> , 2017, 96, 043310.	2.1	6

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163	Editorial Note: Stretching and Kibble scaling regimes for Hubble-damped defect networks [Phys. Rev. D 10.1103/PhysRevD.94.116017 (2016)]. Physical Review D, 2017, 95, .	4.7	6
164	Dynamics of junctions and the multitension velocity-dependent one-scale model. Physical Review D, 2019, 99, .	4.7	6
165	Scaling solutions of wiggly cosmic strings. Physical Review D, 2021, 104, .	4.7	6
166	HD 22496 b: The first ESPRESSO stand-alone planet discovery. Astronomy and Astrophysics, 2021, 654, A60.	5.1	6
167	Topological defects: A problem for cyclic universes?. Physical Review D, 2003, 68, .	4.7	5
168	Fisher matrix forecasts for astrophysical tests of the stability of the fine-structure constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 93-100.	4.1	5
169	Evolution of semilocal string networks. II. Velocity estimators. Physical Review D, 2017, 96, .	4.7	5
170	Constraining late-time transitions in the dark energy equation of state. Astronomy and Astrophysics, 2018, 616, A32.	5.1	5
171	Primordial nucleosynthesis with varying fundamental constants. Astronomy and Astrophysics, 2021, 646, A47.	5.1	5
172	Wiggly Cosmic Strings. Astrophysics and Space Science, 1998, 261, 311-314.	1.4	4
173	Primordial Gaussian fluctuations from cosmic defects. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 516, 191-196.	4.1	4
174	On the stability of fundamental couplings in the Galaxy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 389-392.	4.1	4
175	E-ELT constraints on runaway dilaton scenarios. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 030-030.	5.4	4
176	Physical and invariant models for defect network evolution. Physical Review D, 2016, 93, .	4.7	4
177	Collisions of cosmic strings with chiral currents. Physical Review D, 2018, 98, .	4.7	4
178	High resolution calibration of the cosmic strings velocity dependent one-scale model. Physical Review D, 2021, 104, .	4.7	4
179	Constraining alternatives to a cosmological constant: Generalized couplings and scale invariance. Physics of the Dark Universe, 2021, 31, 100761.	4.9	4
180	The Cosmology of Extra Dimensions and Varying Fundamental Constants. , 2003, , 1-6.		4

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181	Fundamental physics with ESPRESSO: Constraints on Bekenstein and dark energy models from astrophysical and local probes. <i>Physical Review D</i> , 2022, 105, .	4.7	4
182	Analytic and numerical methods for cosmic string evolution. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2000, 81, 361-365.	0.4	3
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