

Carlo R Contaldi

List of Publications by Year in descending order

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49
papers

1,994
citations

331670

21
h-index

233421

45
g-index

49
all docs

49
docs citations

49
times ranked

1504
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppressing the lower multipoles in the CMB anisotropies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2003, 2003, 002-002.	5.4	313
2	Instability of Anisotropic Cosmological Solutions Supported by Vector Fields. <i>Physical Review Letters</i> , 2009, 102, 111301.	7.8	172
3	Inflationary perturbations in anisotropic backgrounds and their imprint on the cosmic microwave background. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 005-005.	5.4	147
4	Ghost instabilities of cosmological models with vector fields nonminimally coupled to the curvature. <i>Physical Review D</i> , 2009, 80, .	4.7	121
5	Instability of the Ackerman-Carroll-Wise model, and problems with massive vectors during inflation. <i>Physical Review D</i> , 2009, 79, .	4.7	111
6	Joint Cosmic Microwave Background and Weak Lensing Analysis: Constraints on Cosmological Parameters. <i>Physical Review Letters</i> , 2003, 90, 221303.	7.8	94
7	Anomalous Cosmic-Microwave-Background Polarization and Gravitational Chirality. <i>Physical Review Letters</i> , 2008, 101, 141101.	7.8	86
8	Power Spectra of the Cosmic Microwave Background and Density Fluctuations Seeded by Local Cosmic Strings. <i>Physical Review Letters</i> , 1999, 82, 679-682.	7.8	79
9	Anisotropies of gravitational wave backgrounds: A line of sight approach. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 771, 9-12.	4.1	77
10	Cosmic Microwave Background and Density Fluctuations from Strings plus Inflation. <i>Physical Review Letters</i> , 1999, 82, 2034-2037.	7.8	69
11	Reconstruction of the primordial power spectrum using temperature and polarisation data from multiple experiments. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 011-011.	5.4	66
12	Inflationary perturbations in Palatini generalized gravity. <i>Physical Review D</i> , 2011, 83, .	4.7	58
13	TeV ν s gets caught on caustics. <i>Physical Review D</i> , 2008, 78, .	4.7	55
14	Suppressing the impact of a high tensor-to-scalar ratio on the temperature anisotropies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 014-014.	5.4	49
15	Reconstruction of the primordial power spectrum by direct inversion. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 016-016.	5.4	44
16	A New Limit on CMB Circular Polarization from SPIDER. <i>Astrophysical Journal</i> , 2017, 844, 151.	4.5	40
17	Noise angular power spectrum of gravitational wave background experiments. <i>Physical Review D</i> , 2020, 101, .	4.7	36
18	Holography and the scale invariance of density fluctuations. <i>Classical and Quantum Gravity</i> , 2007, 24, 3691-3699.	4.0	30

#	ARTICLE	IF	CITATIONS
19	The large scale cosmic microwave background cut-off and the tensor-to-scalar ratio. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 002.	5.4	29
20	Maximum likelihood map making with the Laser Interferometer Space Antenna. <i>Physical Review D</i> , 2020, 102, .	4.7	28
21	Photographing the wave function of the Universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 468, 189-194.	4.1	27
22	Generating non-Gaussian maps with a given power spectrum and bispectrum. <i>Physical Review D</i> , 2001, 63, .	4.7	22
23	Gravitational-Wave Background Sky Maps from Advanced LIGO O1 Data. <i>Physical Review Letters</i> , 2019, 122, 081102.	7.8	21
24	High angular resolution gravitational wave astronomy. <i>Experimental Astronomy</i> , 2021, 51, 1441-1470.	3.7	21
25	Cosmic Microwave Background and Inflation Parameters. <i>International Journal of Theoretical Physics</i> , 2004, 43, 599-622.	1.2	20
26	Rotation of Galaxies as a Signature of Cosmic Strings in Weak Lensing Surveys. <i>Physical Review Letters</i> , 2009, 103, 181301.	7.8	20
27	Modeling and characterization of the SPIDER half-wave plate. <i>Proceedings of SPIE</i> , 2010, , .	0.8	19
28	Gravitational instability of de Sitter compactifications. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 007-007.	5.4	17
29	A cryogenic rotation stage with a large clear aperture for the half-wave plates in the Spider instrument. <i>Review of Scientific Instruments</i> , 2016, 87, 014501.	1.3	16
30	Non-Gaussian foreground residuals of the WMAP first-year maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 39-45.	4.4	13
31	Testing model independent modified gravity with future large scale surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 013-013.	5.4	11
32	Phase decoherence of gravitational wave backgrounds. <i>Physical Review D</i> , 2020, 102, .	4.7	11
33	Non-gaussian signatures of general inflationary trajectories. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 001-001.	5.4	10
34	Polarization diffusion from spacetime uncertainty. <i>Classical and Quantum Gravity</i> , 2010, 27, 172001.	4.0	9
35	Cosmic microwave background observations from the Cosmic Background Imager and Very Small Array: a comparison of coincident maps and parameter estimation methods. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 1125-1135.	4.4	7
36	Comparison of maximum-likelihood mapping methods for gravitational-wave backgrounds. <i>Physical Review D</i> , 2022, 105, .	4.7	7

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37	Unsqueezing of standing waves due to inflationary domain structure. <i>Physical Review D</i> , 2018, 98, .	4.7	6
38	BICEP's acceleration. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 072-072.	5.4	5
39	Mapping weak lensing distortions in the Kerr metric. <i>Physical Review D</i> , 2017, 95, .	4.7	5
40	CMB ANOMALIES FROM RELIC ANISOTROPY. , 2008, , .		5
41	PLANCK and WMAP constraints on generalised Hubble flow inflationary trajectories. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 050-050.	5.4	4
42	Imaging cosmic polarization rotation. <i>International Journal of Modern Physics D</i> , 2016, 25, 1640014.	2.1	4
43	Structure formation with strings plus inflation: a new paradigm. , 1999, , .		2
44	The Cosmic Microwave Background & Inflation, Then & Now. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	2
45	A Simulation-based Method for Correcting Mode Coupling in CMB Angular Power Spectra. <i>Astrophysical Journal</i> , 2022, 928, 109.	4.5	2
46	The X Faster Power Spectrum and Likelihood Estimator for the Analysis of Cosmic Microwave Background Maps. <i>Astrophysical Journal</i> , 2021, 922, 132.	4.5	2
47	IMAGING PARITY-VIOLATING MODES IN THE CMB. <i>Astronomical Journal</i> , 2017, 153, 41.	4.7	1
48	All-sky analysis of astrochronometric signals induced by gravitational waves. <i>Physical Review D</i> , 2022, 105, .	4.7	1
49	Geodesic noise and gravitational wave observations by pulsar timing arrays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 818, 136381.	4.1	0