Chris Clarkson

List of Publications by Year
in descending order

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120 papers	5,042 citations	87888 38 h-index	98798 67 g-index
120 all docs	120 docs citations	120 times ranked	2286 citing authors

#	Article	IF	Citations
1	Observing relativistic features in large-scale structure surveys â€“ II. Doppler magnification in an ensemble of relativistic simulations. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3534-3543.	4.4	10
2	Local primordial non-Gaussianity in the relativistic galaxy bispectrum. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 013.	5.4	18
3	Detecting the relativistic bispectrum in 21cm intensity maps. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 039.	5.4	16
4	Multi-scale perturbation theory II: Solutions and leading-order bispectrum in the Î›CDM universe. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 048.	5.4	1
5	Null tests of the concordance model in the era of Euclid and the SKA. Physics of the Dark Universe, 2021, 33, 100856.	4.9	5
6	The Copernican principle in light of the latest cosmologicalÂdata. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1291-1302.	4.4	17
7	Multi-tasking the growth of cosmological structures. Physics of the Dark Universe, 2021, 34, 100898.	4.9	6
8	Observing relativistic features in large-scale structure surveys â€“ I. Multipoles of the power spectrum. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2547-2561.	4.4	10
9	Anti-symmetric clustering signals in the observed power spectrum. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 003.	5.4	3
10	Magnification and evolution biases in large-scale structure surveys. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 009.	5.4	16
11	Detecting the relativistic galaxy bispectrum. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 065-065.	5.4	22
12	Weak-lensing observables in relativistic N-body simulations. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2078-2095.	4.4	28
13	The Hubble constant tension with next-generation galaxy surveys. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 053-053.	5.4	23
14	Recursion relations for gravitational lensing. General Relativity and Gravitation, 2020, 52, 1.	2.0	0
15	Probing beyond-Horndeski gravity on ultra-large scales. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 033-033.	5.4	5
16	A null test to probe the scale dependence of the growth of structure as a test of general relativity. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 492, L34-L39.	3.3	12
17	Fundamental physics with the Square Kilometre Array. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	179
18	Multi-scale perturbation theory. Part I. Methodology and leading-order bispectrum corrections in the matter-dominated era. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 011-011.	5.4	5

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19	Multipoles of the relativistic galaxy bispectrum. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 018-018.	5.4	16
20	Bias and scatter in the Hubble diagram from cosmological large-scale structure. Physical Review D, 2019, 100, .	4.7	34
21	Testing general relativity with the Doppler magnification effect. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3759-3771.	4.4	8
22	The dipole of the galaxy bispectrum. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 486, L101-L104.	3.3	32
23	Imprints of local lightcone projection effects on the galaxy bispectrum IV: second-order vector and tensor contributions. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 004-004.	5.4	12
24	Accurately computing weak lensing convergence. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 486, L41-L45.	3.3	4
25	General relativistic effects in the galaxy bias at second order. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 020-020.	5.4	14
26	Safely smoothing spacetime: backreaction in relativistic cosmological simulations. Classical and Quantum Gravity, 2019, 36, 014001.	4.0	28
27	The kinematic dipole in galaxy redshift surveys. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 013-013.	5.4	23
28	Imprints of local lightcone projection effects on the galaxy bispectrum. Part III. Relativistic corrections from nonlinear dynamical evolution on large-scales. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 036-036.	5.4	20
29	Model-independent curvature determination with 21Âcm intensity mapping experiments. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 477, L122-L127.	3.3	25
30	How does the cosmic large-scale structure bias the Hubble diagram?. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 062-062.	5.4	38
31	A general relativistic signature in the galaxy bispectrum: the local effects of observing on the lightcone. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 034-034.	5.4	38
32	Imprints of local lightcone projection effects on the galaxy bispectrum. Part II. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 040-040.	5.4	23
33	Dipolar modulation in the size of galaxies: the effect of Doppler magnification. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3936-3951.	4.4	26
34	Dodging the dark matter degeneracy while determining the dynamics of dark energy. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 008-008.	5.4	10
35	Roulettes: a weak lensing formalism for strong lensing: II. Derivation and analysis. Classical and Quantum Gravity, 2016, 33, 245003.	4.0	11
36	Roulettes: a weak lensing formalism for strong lensing: I. Overview. Classical and Quantum Gravity, 2016, 33, 16LT01.	4.0	7

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37	Lensing and time-delay contributions to galaxy correlations. General Relativity and Gravitation, 2016, 48, 1.	2.0	27
38	HIRAX: a probe of dark energy and radio transients. Proceedings of SPIE, 2016, , .	0.8	134
39	The general theory of secondary weak gravitational lensing. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 033-033.	5.4	1
40	Does Small Scale Structure Significantly Affect Cosmological Dynamics?. Physical Review Letters, 2015, 114, 051302.	7.8	28
41	Cosmological ensemble and directional averages of observables. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 040-040.	5.4	34
42	Do we care about the distance to the CMB? Clarifying the impact of second-order lensing. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 050-050.	5.4	35
43	Cosmological evolution of the gravitational entropy of the large-scale structure. General Relativity and Gravitation, 2015, 47, 1.	2.0	8
44	Testing foundations of modern cosmology with SKA all-sky surveys. , 2015, , .		6
45	THE EFFECT OF WEAK LENSING ON DISTANCE ESTIMATES FROM SUPERNOVAE. Astrophysical Journal, 2014, 780, 24.	4.5	35
46	Evidence for a lower value for H0 from cosmic chronometers data?. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 441, L11-L15.	3.3	75
47	Testing the Copernican principle by constraining spatial homogeneity. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 438, L6-L10.	3.3	59
48	What is the distance to the CMB?. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 036-036.	5.4	29
49	Cosmology with Doppler lensing. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1900-1915.	4.4	51
50	Observed galaxy number counts on the lightcone up to second order: I. Main result. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 037-037.	5.4	67
51	Null tests of the cosmological constant using supernovae. Physical Review D, 2014, 89, .	4.7	79
52	Publisherâ€™s Note: Observational constraints on the averaged universe [Phys. Rev. D85, 043506 (2012)]. Physical Review D, 2014, 90, .	4.7	3
53	Observed galaxy number counts on the lightcone up to second order: II. Derivation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 013-013.	5.4	47
54	Nonlinear relativistic corrections to cosmological distances, redshift and gravitational lensing magnification: II. Derivation. Classical and Quantum Gravity, 2014, 31, 205001.	4.0	42

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55	Nonlinear relativistic corrections to cosmological distances, redshift and gravitational lensing magnification: I. Key results. Classical and Quantum Gravity, 2014, 31, 202001.	4.0	39
56	Evolution of linear perturbations in spherically symmetric dust spacetimes. Classical and Quantum Gravity, 2014, 31, 175008.	4.0	10
57	Non-linear relativistic contributions to the cosmological weak-lensing convergence. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 023-023.	5.4	25
58	The Value of H₀ from Gaussian Processes. Proceedings of the International Astronomical Union, 2014, 10, 25-27.	0.0	18
59	Trouble with physics: Time to ditch Copernicus?. New Scientist, 2013, 217, 43.	0.0	0
60	Supernovae as probes of cosmic parameters: estimating the bias from under-dense lines of sight. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 020-020.	5.4	10
61	Galaxy correlations and the BAO in a void universe: structure formation as a test of the Copernican Principle. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 023-023.	5.4	18
62	Spherically symmetric cosmological spacetimes with dust and radiation â€" numerical implementation. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 010-010.	5.4	8
63	TESTING HOMOGENEITY WITH GALAXY STAR FORMATION HISTORIES. Astrophysical Journal Letters, 2013, 762, L9.	8.3	15
64	Antilensing: The Bright Side of Voids. Physical Review Letters, 2013, 110, 021302.	7.8	60
65	Reconstruction of dark energy and expansion dynamics using Gaussian processes. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 036-036.	5.4	295
66	Beyond the plane-parallel and Newtonian approach: wide-angle redshift distortions and convergence in general relativity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 025-025.	5.4	92
67	Baryon acoustic oscillations in a cosmic void. , 2012, , .		0
68	Observational constraints on the averaged universe. Physical Review D, 2012, 85, .	4.7	21
69	Isotropic Blackbody Cosmic Microwave Background Radiation as Evidence for a Homogeneous Universe. Physical Review Letters, 2012, 109, 051303.	7.8	18
70	Using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>z</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 Td (stretchy="false"><) Tj /mml:mo D, 2012, 86, .	4.7	85
71	Locally extracting scalar, vector and tensor modes in cosmological perturbation theory. Classical and Quantum Gravity, 2012, 29, 079601.	4.0	2
72	(Mis)interpreting supernovae observations in a lumpy universe. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1121-1136.	4.4	94

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73	Establishing homogeneity of the universe in the shadow of dark energy. Comptes Rendus Physique, 2012, 13, 682-718.	0.9	79
74	Do primordial lithium abundances imply thereâ€™s no dark energy?. General Relativity and Gravitation, 2012, 44, 567-579.	2.0	21
75	Does the growth of structure affect our dynamical models of the Universe? The averaging, backreaction, and fitting problems in cosmology. Reports on Progress in Physics, 2011, 74, 112901.	20.1	161
76	The cosmic microwave background in an inhomogeneous universe. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 013-013.	5.4	57
77	Is backreaction really small within concordance cosmology?. Classical and Quantum Gravity, 2011, 28, 164010.	4.0	59
78	Locally extracting scalar, vector and tensor modes in cosmological perturbation theory. Classical and Quantum Gravity, 2011, 28, 225002.	4.0	3
79	The Hubble rate in averaged cosmology. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 029-029.	5.4	23
80	DETERMINING DARK ENERGY. , 2011, , .		0
81	On the determination of dark energy. AIP Conference Proceedings, 2010, , .	0.4	6
82	Inhomogeneity and the foundations of concordance cosmology. Classical and Quantum Gravity, 2010, 27, 124008.	4.0	120
83	Direct Reconstruction of Dark Energy. Physical Review Letters, 2010, 104, 211301.	7.8	68
84	Model independent tests of the standard cosmological model. Physical Review D, 2010, 81, .	4.7	104
85	Perturbation theory in LemaÈ‹tre-Tolman-Bondi cosmology. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 025-025.	5.4	71
86	Model independent constraints on the cosmological expansion rate. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 044-044.	5.4	41
87	Gravitational waves in the black string braneworld. Classical and Quantum Gravity, 2009, 26, 245004.	4.0	5
88	Influence of structure formation on the cosmic expansion. Physical Review D, 2009, 80, .	4.7	52
89	The cosmological background of vector modes. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 023-023.	5.4	42
90	Dark energy degeneracies in the background dynamics. General Relativity and Gravitation, 2008, 40, 285-300.	2.0	23

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91	Photon gas dynamics in the early universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 54-57.	4.1	0
92	Consistency Tests for the Cosmological Constant. Physical Review Letters, 2008, 101, 181301.	7.8	105
93	Vector modes generated by primordial density fluctuations. Physical Review D, 2008, 77, .	4.7	36
94	A General Test of the Copernican Principle. Physical Review Letters, 2008, 101, 011301.	7.8	202
95	Time Drift of Cosmological Redshifts as a Test of the Copernican Principle. Physical Review Letters, 2008, 100, 191303.	7.8	145
96	Gravitational waves generated by second order effects during inflation. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 003-003.	5.4	41
97	Cosmological gravitational wave background from primordial density perturbations. Physical Review D, 2007, 75, .	4.7	390
98	A gravitational wave window on extra dimensions. Classical and Quantum Gravity, 2007, 24, F33-F40.	4.0	51
99	Covariant approach for perturbations of rotationally symmetric spacetimes. Physical Review D, 2007, 76, .	4.7	93
100	Dynamical dark energy or simply cosmic curvature?. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 011-011.	5.4	161
101	The general relativistic magnetohydrodynamic dynamo equation. Monthly Notices of the Royal Astronomical Society, 2005, 358, 892-900.	4.4	24
102	Gravity-wave detectors as probes of extra dimensions. General Relativity and Gravitation, 2005, 37, 1681-1687.	2.0	7
103	Delocalization of brane gravity by a bulk black hole. Classical and Quantum Gravity, 2005, 22, L91-L101.	4.0	22
104	Braneworld resonances. Classical and Quantum Gravity, 2005, 22, 3653-3687.	4.0	28
105	Detecting Extra Dimensions with Gravity-Wave Spectroscopy: The Black-String Brane World. Physical Review Letters, 2005, 94, 121302.	7.8	87
106	GRAVITY-WAVE DETECTORS AS PROBES OF EXTRA DIMENSIONS. International Journal of Modern Physics D, 2005, 14, 2347-2353.	2.1	1
107	Scalar field and electromagnetic perturbations on locally rotationally symmetric spacetimes. Classical and Quantum Gravity, 2004, 21, 5587-5607.	4.0	58
108	Publisher's Note: Cosmological density fluctuations and gravity waves: A covariant approach to gauge-invariant nonlinear perturbation theory [Phys. Rev. D70, 103524 (2004)]. Physical Review D, 2004, 70, .	4.7	5

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109	Cosmological density fluctuations and gravity waves: A covariant approach to gauge-invariant nonlinear perturbation theory. Physical Review D, 2004, 70, .	4.7	15
110	The Electromagnetic Signature of Black Hole Ringâ€Down. Astrophysical Journal, 2004, 613, 492-505.	4.5	36
111	Inhomogeneous Cosmologies, the Copernican Principle and the Cosmic Microwave Background: More on the EGS Theorem. General Relativity and Gravitation, 2003, 35, 969-990.	2.0	17
112	Reply to Comment on ÂOn scaling solutions with a dissipative fluidÂ. Classical and Quantum Gravity, 2003, 20, 1017-1018.	4.0	1
113	CMB limits on large-scale magnetic fields in an inhomogeneous universe. Classical and Quantum Gravity, 2003, 20, 1519-1528.	4.0	19
114	Covariant perturbations of Schwarzschild black holes. Classical and Quantum Gravity, 2003, 20, 3855-3884.	4.0	108
115	On scaling solutions with a dissipative fluid. Classical and Quantum Gravity, 2002, 19, 3067-3076.	4.0	3
116	Magnetic fields and the cosmic microwave background. Classical and Quantum Gravity, 2001, 18, 1305-1310.	4.0	7
117	Cosmic microwave background and scalar-tensor theories of gravity. Physical Review D, 2001, 64, .	4.7	10
118	Undermining the cosmological principle: almost isotropic observations in inhomogeneous cosmologies. Classical and Quantum Gravity, 2000, 17, 5047-5078.	4.0	42
119	Does the isotropy of the CMB imply a homogeneous universe? Some generalized EGS theorems. Classical and Quantum Gravity, 1999, 16, 3781-3794.	4.0	43
120	Rendering dark energy void. Monthly Notices of the Royal Astronomical Society, 0, , no-no.	4.4	35