

John D Barrow

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

5,860
citations

41
h-index

76
g-index

97
ext. papers

6,346
ext. citations

11.2
avg, IF

6.27
L-index

#	Paper	IF	Citations
85	Big Bang Nucleosynthesis constraints on Barrow entropy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 815, 136134	4.2	16
84	Non-Euclidean Newtonian cosmology. <i>Classical and Quantum Gravity</i> , 2020 , 37, 125007	3.3	7
83	Perturbations and linearization stability of closed Friedmann universes. <i>Physical Review D</i> , 2020 , 101,	4.9	3
82	Graduated dark energy: Observational hints of a spontaneous sign switch in the cosmological constant. <i>Physical Review D</i> , 2020 , 101,	4.9	25
81	Sudden Brans-Dicke singularities. <i>Classical and Quantum Gravity</i> , 2020 , 37, 065014	3.3	4
80	Finite action principle revisited. <i>Physical Review D</i> , 2020 , 101,	4.9	6
79	Conjecture about the general cosmological solution of Einstein's equations. <i>Physical Review D</i> , 2020 , 102,	4.9	2
78	The generic sudden singularity in Brans-Dicke theory. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	2
77	Maximum force and naked singularities in higher dimensions. <i>International Journal of Modern Physics D</i> , 2020 , 29, 2043008	2.2	3
76	Kinematical and dynamical aspects of ghost-matter cosmologies. <i>Classical and Quantum Gravity</i> , 2020 , 37, 205010	3.3	1
75	The area of a rough black hole. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 808, 135643	4.2	50
74	New anisotropic sudden singularities and dimensional reduction. <i>Physical Review D</i> , 2020 , 102,	4.9	1
73	Maximum force in modified gravity theories. <i>Physical Review D</i> , 2020 , 102,	4.9	6
72	Friedmann-like universes with weak torsion: a dynamical system approach. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	12
71	A far-UV survey of three hot, metal-polluted white dwarf stars: WD0455082, WD0621076, and WD2211095. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 487, 3470-3487	4.3	4
70	Relativistic magnetised perturbations: magnetic pressure versus magnetic tension. <i>Classical and Quantum Gravity</i> , 2018 , 35, 124001	3.3	1
69	Maximum magnetic moment to angular momentum conjecture. <i>Physical Review D</i> , 2017 , 95,	4.9	19

68	Cosmological models in energy-momentum-squared gravity. <i>Physical Review D</i> , 2017 , 96,	4.9	49
67	Cyclic mixmaster universes. <i>Physical Review D</i> , 2017 , 95,	4.9	15
66	Evolution of cyclic mixmaster universes with noncomoving radiation. <i>Physical Review D</i> , 2017 , 96,	4.9	7
65	Maximum tension: with and without a cosmological constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 446, 3874-3877	4.3	27
64	Singular inflation. <i>Physical Review D</i> , 2015 , 91,	4.9	55
63	Cosmology: The search for twenty-four (or more) functions. <i>Physical Review D</i> , 2014 , 89,	4.9	10
62	Cosmologies in Horndeski's second-order vector-tensor theory. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	36
61	Geodesics at sudden singularities. <i>Physical Review D</i> , 2013 , 88,	4.9	24
60	A general sudden cosmological singularity. <i>Classical and Quantum Gravity</i> , 2010 , 27, 165017	3.3	46
59	On the stability of static ghost cosmologies. <i>Classical and Quantum Gravity</i> , 2009 , 26, 195003	3.3	40
58	Classical stability of sudden and big rip singularities. <i>Physical Review D</i> , 2009 , 80,	4.9	59
57	Quantum particle production at sudden singularities. <i>Physical Review D</i> , 2008 , 78,	4.9	43
56	Cosmology with inhomogeneous magnetic fields. <i>Physics Reports</i> , 2007 , 449, 131-171	27.7	132
55	Cosmology in three dimensions: steps towards the general solution. <i>Classical and Quantum Gravity</i> , 2006 , 23, 5291-5321	3.3	49
54	Anisotropically inflating universes. <i>Physical Review D</i> , 2006 , 73,	4.9	103
53	Evolution of universes in quadratic theories of gravity. <i>Physical Review D</i> , 2006 , 74,	4.9	95
52	Constraints on the variation of G from primordial nucleosynthesis. <i>Physical Review D</i> , 2005 , 71,	4.9	58
51	Cosmological constraints on a dynamical electron mass. <i>Physical Review D</i> , 2005 , 72,	4.9	32

50	New isotropic and anisotropic sudden singularities. <i>Classical and Quantum Gravity</i> , 2005 , 22, 1563-1571	3.3	129
49	The power of general relativity. <i>Physical Review D</i> , 2005 , 72,	4.9	263
48	More general sudden singularities. <i>Classical and Quantum Gravity</i> , 2004 , 21, 5619-5622	3.3	164
47	Bouncing universes with varying constants. <i>Classical and Quantum Gravity</i> , 2004 , 21, 4289-4296	3.3	87
46	Sudden future singularities. <i>Classical and Quantum Gravity</i> , 2004 , 21, L79-L82	3.3	373
45	On the stability of the Einstein static universe. <i>Classical and Quantum Gravity</i> , 2003 , 20, L155-L164	3.3	118
44	A cosmological tale of two varying constants. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 541, 201-210	4.2	49
43	A simple cosmology with a varying fine structure constant. <i>Physical Review Letters</i> , 2002 , 88, 031302	7.4	224
42	The isotropy of compact universes. <i>Classical and Quantum Gravity</i> , 2001 , 18, 1753-1766	3.3	30
41	Can the Universe escape eternal acceleration?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000 , 316, L41-L44	4.3	52
40	AN ENTROPIC COSMOLOGICAL PRINCIPLE. <i>Modern Physics Letters A</i> , 1999 , 14, 1067-1071	1.3	1
39	Entropic principles. <i>New Astronomy</i> , 1999 , 4, 333-338	1.8	15
38	Search for Time Variation of the Fine Structure Constant. <i>Physical Review Letters</i> , 1999 , 82, 884-887	7.4	551
37	Gauge-invariant magnetic perturbations in perfect-fluid cosmologies. <i>Classical and Quantum Gravity</i> , 1998 , 15, 3523-3544	3.3	64
36	Chaos in the Einstein-Yang-Mills Equations. <i>Physical Review Letters</i> , 1998 , 80, 656-659	7.4	47
35	Microwave Background Signals from Tangled Magnetic Fields. <i>Physical Review Letters</i> , 1998 , 81, 3575-3578		156
34	How the universe got its spots. <i>Physical Review D</i> , 1998 , 58,	4.9	19
33	A gauge-invariant analysis of magnetic fields in general-relativistic cosmology. <i>Classical and Quantum Gravity</i> , 1997 , 14, 2539-2562	3.3	99

32	Constraints on a Primordial Magnetic Field. <i>Physical Review Letters</i> , 1997 , 78, 3610-3613	7.4	244
31	Flat Spots: Topological Signatures of an Open Universe in Cosmic Background Explorer Sky Maps. <i>Physical Review Letters</i> , 1997 , 79, 974-977	7.4	39
30	Behavior of cosmological models with varying G. <i>Physical Review D</i> , 1997 , 55, 1906-1936	4.9	95
29	Varieties of expanding universe. <i>Classical and Quantum Gravity</i> , 1996 , 13, 2965-2975	3.3	45
28	HOW ANISOTROPIC CAN A UNIVERSE BE?. <i>Annals of the New York Academy of Sciences</i> , 1995 , 759, 706-709		
27	Black hole memory. <i>General Relativity and Gravitation</i> , 1994 , 26, 1-5	2.3	10
26	Scalar-tensor cosmologies. <i>Physical Review D</i> , 1993 , 47, 5329-5335	4.9	87
25	Graduated inflationary universes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 235, 40-43	4.2	297
24	Extended inflationary universes. <i>Nuclear Physics B</i> , 1990 , 341, 294-308	2.8	189
23	NO NEW KASNER SOLUTION IN HIGHER-DERIVATIVE GRAVITY. <i>Modern Physics Letters A</i> , 1989 , 04, 519-519		
22	Not abandoned. <i>Nature</i> , 1989 , 339, 170-170	50.4	
21	Anthropic principle. <i>Nature</i> , 1989 , 338, 196-196	50.4	2
20	Action principles in nature. <i>Nature</i> , 1988 , 331, 31-34	50.4	11
19	The premature recollapse problem in closed inflationary universes. <i>Nuclear Physics B</i> , 1988 , 296, 697-709	2.8	120
18	An astrophysical primer. <i>Contemporary Physics</i> , 1987 , 28, 411-412	3.3	
17	Observational limits on the time evolution of extra spatial dimensions. <i>Physical Review D</i> , 1987 , 35, 1805-1810	4.9	115
16	Lensing of supernova neutrinos?. <i>Nature</i> , 1987 , 327, 375-375	50.4	8
15	Asymptotic stability of Bianchi type universes. <i>Physics Reports</i> , 1986 , 139, 1-49	27.7	93

14	Stability of certain spatially homogeneous cosmological models. <i>General Relativity and Gravitation</i> , 1985 , 17, 409-415	2.3	16
13	Spottiness in the large-scale structure of the microwave background (reply). <i>Nature</i> , 1985 , 316, 48-48	50.4	6
12	A bootstrap resampling analysis of galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 1984 , 210, 19P-23P	4.3	96
11	Chaos in the Mixmaster Universe. <i>Physical Review Letters</i> , 1983 , 50, 134-137	7.4	142
10	Structure of the cosmic microwave background. <i>Nature</i> , 1983 , 305, 397-402	50.4	40
9	Chaotic behaviour in general relativity. <i>Physics Reports</i> , 1982 , 85, 1-49	27.7	239
8	The inflationary Universe Birth, death and transfiguration. <i>Nature</i> , 1982 , 298, 801-805	50.4	25
7	Chaos in the Einstein Equations. <i>Physical Review Letters</i> , 1981 , 46, 963-966	7.4	76
6	Size of a bouncing mixmaster universe. <i>Physical Review D</i> , 1980 , 21, 336-340	4.9	27
5	The proton half life and the Dirac hypothesis. <i>Nature</i> , 1979 , 282, 698-699	50.4	5
4	Analysis of the generic singularity studies by Belinskii, Khalatnikov, and Lifschitz. <i>Physics Reports</i> , 1979 , 56, 371-402	27.7	77
3	Quiescent cosmology. <i>Nature</i> , 1978 , 272, 211-215	50.4	158
2	Eternity is unstable. <i>Nature</i> , 1978 , 276, 453-459	50.4	48
1	A cosmological limit on the possible variation of G. <i>Monthly Notices of the Royal Astronomical Society</i> , 1978 , 184, 677-682	4.3	41