

John D Barrow

List of Publications by Citations

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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	Search for Time Variation of the Fine Structure Constant. <i>Physical Review Letters</i> , 1999 , 82, 884-887	7.4	551
84	Sudden future singularities. <i>Classical and Quantum Gravity</i> , 2004 , 21, L79-L82	3.3	373
83	Graduated inflationary universes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 235, 40-43	4.2	297
82	The power of general relativity. <i>Physical Review D</i> , 2005 , 72,	4.9	263
81	Constraints on a Primordial Magnetic Field. <i>Physical Review Letters</i> , 1997 , 78, 3610-3613	7.4	244
80	Chaotic behaviour in general relativity. <i>Physics Reports</i> , 1982 , 85, 1-49	27.7	239
79	A simple cosmology with a varying fine structure constant. <i>Physical Review Letters</i> , 2002 , 88, 031302	7.4	224
78	Extended inflationary universes. <i>Nuclear Physics B</i> , 1990 , 341, 294-308	2.8	189
77	More general sudden singularities. <i>Classical and Quantum Gravity</i> , 2004 , 21, 5619-5622	3.3	164
76	Quiescent cosmology. <i>Nature</i> , 1978 , 272, 211-215	50.4	158
75	Microwave Background Signals from Tangled Magnetic Fields. <i>Physical Review Letters</i> , 1998 , 81, 3575-3578	7.4	156
74	Chaos in the Mixmaster Universe. <i>Physical Review Letters</i> , 1983 , 50, 134-137	7.4	142
73	Cosmology with inhomogeneous magnetic fields. <i>Physics Reports</i> , 2007 , 449, 131-171	27.7	132
72	New isotropic and anisotropic sudden singularities. <i>Classical and Quantum Gravity</i> , 2005 , 22, 1563-1571	3.3	129
71	The premature recollapse problem in closed inflationary universes. <i>Nuclear Physics B</i> , 1988 , 296, 697-709	2.8	120
70	On the stability of the Einstein static universe. <i>Classical and Quantum Gravity</i> , 2003 , 20, L155-L164	3.3	118
69	Observational limits on the time evolution of extra spatial dimensions. <i>Physical Review D</i> , 1987 , 35, 1805-1810	4.9	115

68	Anisotropically inflating universes. <i>Physical Review D</i> , 2006 , 73,	4.9	103
67	A gauge-invariant analysis of magnetic fields in general-relativistic cosmology. <i>Classical and Quantum Gravity</i> , 1997 , 14, 2539-2562	3.3	99
66	A bootstrap resampling analysis of galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 1984 , 210, 19P-23P	4.3	96
65	Behavior of cosmological models with varying G. <i>Physical Review D</i> , 1997 , 55, 1906-1936	4.9	95
64	Evolution of universes in quadratic theories of gravity. <i>Physical Review D</i> , 2006 , 74,	4.9	95
63	Asymptotic stability of Bianchi type universes. <i>Physics Reports</i> , 1986 , 139, 1-49	27.7	93
62	Bouncing universes with varying constants. <i>Classical and Quantum Gravity</i> , 2004 , 21, 4289-4296	3.3	87
61	Scalar-tensor cosmologies. <i>Physical Review D</i> , 1993 , 47, 5329-5335	4.9	87
60	Analysis of the generic singularity studies by Belinskii, Khalatnikov, and Lifschitz. <i>Physics Reports</i> , 1979 , 56, 371-402	27.7	77
59	Chaos in the Einstein Equations. <i>Physical Review Letters</i> , 1981 , 46, 963-966	7.4	76
58	Gauge-invariant magnetic perturbations in perfect-fluid cosmologies. <i>Classical and Quantum Gravity</i> , 1998 , 15, 3523-3544	3.3	64
57	Classical stability of sudden and big rip singularities. <i>Physical Review D</i> , 2009 , 80,	4.9	59
56	Constraints on the variation of G from primordial nucleosynthesis. <i>Physical Review D</i> , 2005 , 71,	4.9	58
55	Singular inflation. <i>Physical Review D</i> , 2015 , 91,	4.9	55
54	Can the Universe escape eternal acceleration?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000 , 316, L41-L44	4.3	52
53	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
52	Cosmological models in energy-momentum-squared gravity. <i>Physical Review D</i> , 2017 , 96,	4.9	49
51	Cosmology in three dimensions: steps towards the general solution. <i>Classical and Quantum Gravity</i> , 2006 , 23, 5291-5321	3.3	49

50	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
49	Eternity is unstable. <i>Nature</i> , 1978 , 276, 453-459	50.4	48
48	Chaos in the Einstein-Yang-Mills Equations. <i>Physical Review Letters</i> , 1998 , 80, 656-659	7.4	47
47	A general sudden cosmological singularity. <i>Classical and Quantum Gravity</i> , 2010 , 27, 165017	3.3	46
46	Varieties of expanding universe. <i>Classical and Quantum Gravity</i> , 1996 , 13, 2965-2975	3.3	45
45	Quantum particle production at sudden singularities. <i>Physical Review D</i> , 2008 , 78,	4.9	43
44	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
43	On the stability of static ghost cosmologies. <i>Classical and Quantum Gravity</i> , 2009 , 26, 195003	3.3	40
42	Structure of the cosmic microwave background. <i>Nature</i> , 1983 , 305, 397-402	50.4	40
41	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
40	Cosmologies in Horndeski's second-order vector-tensor theory. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	36
39	Cosmological constraints on a dynamical electron mass. <i>Physical Review D</i> , 2005 , 72,	4.9	32
38	The isotropy of compact universes. <i>Classical and Quantum Gravity</i> , 2001 , 18, 1753-1766	3.3	30
37	Maximum tension: with and without a cosmological constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 446, 3874-3877	4.3	27
36	Size of a bouncing mixmaster universe. <i>Physical Review D</i> , 1980 , 21, 336-340	4.9	27
35	Graduated dark energy: Observational hints of a spontaneous sign switch in the cosmological constant. <i>Physical Review D</i> , 2020 , 101,	4.9	25
34	The inflationary Universe—Birth, death and transfiguration. <i>Nature</i> , 1982 , 298, 801-805	50.4	25
33	Geodesics at sudden singularities. <i>Physical Review D</i> , 2013 , 88,	4.9	24

32	Maximum magnetic moment to angular momentum conjecture. <i>Physical Review D</i> , 2017 , 95,	4.9	19
31	How the universe got its spots. <i>Physical Review D</i> , 1998 , 58,	4.9	19
30	Stability of certain spatially homogeneous cosmological models. <i>General Relativity and Gravitation</i> , 1985 , 17, 409-415	2.3	16
29	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
28	Cyclic mixmaster universes. <i>Physical Review D</i> , 2017 , 95,	4.9	15
27	Entropic principles. <i>New Astronomy</i> , 1999 , 4, 333-338	1.8	15
26	Friedmann-like universes with weak torsion: a dynamical system approach. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	12
25	Action principles in nature. <i>Nature</i> , 1988 , 331, 31-34	50.4	11
24	Cosmology: The search for twenty-four (or more) functions. <i>Physical Review D</i> , 2014 , 89,	4.9	10
23	Black hole memory. <i>General Relativity and Gravitation</i> , 1994 , 26, 1-5	2.3	10
22	Lensing of supernova neutrinos?. <i>Nature</i> , 1987 , 327, 375-375	50.4	8
21	Non-Euclidean Newtonian cosmology. <i>Classical and Quantum Gravity</i> , 2020 , 37, 125007	3.3	7
20	Evolution of cyclic mixmaster universes with noncomoving radiation. <i>Physical Review D</i> , 2017 , 96,	4.9	7
19	Spottiness in the large-scale structure of the microwave background (reply). <i>Nature</i> , 1985 , 316, 48-48	50.4	6
18	Finite action principle revisited. <i>Physical Review D</i> , 2020 , 101,	4.9	6
17	Maximum force in modified gravity theories. <i>Physical Review D</i> , 2020 , 102,	4.9	6
16	The proton half life and the Dirac hypothesis. <i>Nature</i> , 1979 , 282, 698-699	50.4	5
15	Sudden BransDicke singularities. <i>Classical and Quantum Gravity</i> , 2020 , 37, 065014	3.3	4

14	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
13	Perturbations and linearization stability of closed Friedmann universes. <i>Physical Review D</i> , 2020 , 101,	4.9	3
12	Maximum force and naked singularities in higher dimensions. <i>International Journal of Modern Physics D</i> , 2020 , 29, 2043008	2.2	3
11	Anthropic principle. <i>Nature</i> , 1989 , 338, 196-196	50.4	2
10	Conjecture about the general cosmological solution of Einstein's equations. <i>Physical Review D</i> , 2020 , 102,	4.9	2
9	The generic sudden singularity in Brans-Dicke theory. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	2
8	AN ENTROPIC COSMOLOGICAL PRINCIPLE. <i>Modern Physics Letters A</i> , 1999 , 14, 1067-1071	1.3	1
7	Kinematical and dynamical aspects of ghost-matter cosmologies. <i>Classical and Quantum Gravity</i> , 2020 , 37, 205010	3.3	1
6	New anisotropic sudden singularities and dimensional reduction. <i>Physical Review D</i> , 2020 , 102,	4.9	1
5	Relativistic magnetised perturbations: magnetic pressure versus magnetic tension. <i>Classical and Quantum Gravity</i> , 2018 , 35, 124001	3.3	1
4	HOW ANISOTROPIC CAN A UNIVERSE BE?. <i>Annals of the New York Academy of Sciences</i> , 1995 , 759, 706-709		
3	NO NEW KASNER SOLUTION IN HIGHER-DERIVATIVE GRAVITY. <i>Modern Physics Letters A</i> , 1989 , 04, 519-519		
2	Not abandoned. <i>Nature</i> , 1989 , 339, 170-170	50.4	
1	An astrophysical primer. <i>Contemporary Physics</i> , 1987 , 28, 411-412	3.3	