

Martin J Rees

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.

108
papers

14,648
citations

49
h-index

112
g-index

112
ext. papers

15,510
ext. citations

10.4
avg, IF

6.46
L-index

#	Paper	IF	Citations
108	Theory of extragalactic radio sources. <i>Reviews of Modern Physics</i> , 1984 , 56, 255-351	40.5	1281
107	Formation of galaxies and large-scale structure with cold dark matter. <i>Nature</i> , 1984 , 311, 517-525	50.4	1083
106	Black Hole Models for Active Galactic Nuclei. <i>Annual Review of Astronomy and Astrophysics</i> , 1984 , 22, 471-506	31.7	976
105	Tidal disruption of stars by black holes of 10 ⁶ -10 ⁸ solar masses in nearby galaxies. <i>Nature</i> , 1988 , 333, 523-528	50.4	927
104	Comptonization of diffuse ambient radiation by a relativistic jet: The source of gamma rays from blazars?. <i>Astrophysical Journal</i> , 1994 , 421, 153	4.7	865
103	Massive Black Holes as Population III Remnants. <i>Astrophysical Journal</i> , 2001 , 551, L27-L30	4.7	617
102	How Small Were the First Cosmological Objects?. <i>Astrophysical Journal</i> , 1997 , 474, 1-12	4.7	614
101	Radiative Transfer in a Clumpy Universe. III. The Nature of Cosmological Ionizing Sources. <i>Astrophysical Journal</i> , 1999 , 514, 648-659	4.7	564
100	Dynamical effects of the cosmological constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 1991 , 251, 128-136	4.3	528
99	21 Centimeter Tomography of the Intergalactic Medium at High Redshift. <i>Astrophysical Journal</i> , 1997 , 475, 429-444	4.7	521
98	Formation of supermassive black holes by direct collapse in pre-galactic haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 370, 289-298	4.3	517
97	Reionization of the Inhomogeneous Universe. <i>Astrophysical Journal</i> , 2000 , 530, 1-16	4.7	410
96	Effects of Massive Central Black Holes on Dense Stellar Systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 1976 , 176, 633-647	4.3	358
95	Destruction of Molecular Hydrogen during Cosmological Reionization. <i>Astrophysical Journal</i> , 1997 , 476, 458-463	4.7	286
94	The Radiative Feedback of the First Cosmological Objects. <i>Astrophysical Journal</i> , 2000 , 534, 11-24	4.7	283
93	Early Metal Enrichment of the Intergalactic Medium by Pregalactic Outflows. <i>Astrophysical Journal</i> , 2001 , 555, 92-105	4.7	268
92	Rapid Growth of High-Redshift Black Holes. <i>Astrophysical Journal</i> , 2005 , 633, 624-629	4.7	250

91	The Distribution and Cosmic Evolution of Massive Black Hole Spins. <i>Astrophysical Journal</i> , 2005 , 620, 69-77	4.7	249
90	Dimensionless constants, cosmology, and other dark matters. <i>Physical Review D</i> , 2006 , 73,	4.9	233
89	The Observable Effects of a Photospheric Component on GRB and XRF Prompt Emission Spectrum. <i>Astrophysical Journal</i> , 2006 , 642, 995-1003	4.7	222
88	Photoionization Feedback in Low-Mass Galaxies at High Redshift. <i>Astrophysical Journal</i> , 2004 , 601, 666-675	4.7	214
87	Radio Signatures of High Redshift: Mapping the End of the Dark Ages. <i>Astrophysical Journal</i> , 2000 , 528, 597-606	4.7	197
86	Implications of very rapid TeV variability in blazars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008 , 384, L19-L23	4.3	191
85	Events in the life of a cocoon surrounding a light, collapsar jet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 337, 1349-1356	4.3	191
84	Radio Foregrounds for the 21 Centimeter Tomography of the Neutral Intergalactic Medium at High Redshifts. <i>Astrophysical Journal</i> , 2002 , 564, 576-580	4.7	171
83	Quasars at $z = 6$: The Survival of the Fittest. <i>Astrophysical Journal</i> , 2006 , 650, 669-678	4.7	158
82	High-redshift galaxies, their active nuclei and central black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998 , 300, 817-827	4.3	154
81	Physical mechanisms for biased galaxy formation. <i>Nature</i> , 1987 , 326, 455-462	50.4	127
80	Relativistic jets and beams in radio galaxies. <i>Nature</i> , 1978 , 275, 516-517	50.4	127
79	H ₂ Cooling of Primordial Gas Triggered by UV Irradiation. <i>Astrophysical Journal</i> , 1996 , 467, 522	4.7	118
78	The large-scale smoothness of the Universe. <i>Nature</i> , 1999 , 397, 225-230	50.4	117
77	Why Is the Cosmic Microwave Background Fluctuation Level 10^{-5} ?. <i>Astrophysical Journal</i> , 1998 , 499, 526-532	4.7	115
76	Extended Ly α Emission around Young Quasars: A Constraint on Galaxy Formation. <i>Astrophysical Journal</i> , 2001 , 556, 87-92	4.7	114
75	The Earliest Luminous Sources and the Damping Wing of the Gunn-Peterson Trough. <i>Astrophysical Journal</i> , 2000 , 542, L69-L73	4.7	102
74	Extended and Compact Extragalactic Radio Sources: Interpretation and Theory. <i>Physica Scripta</i> , 1978 , 17, 265-274	2.6	99

73	A twin-jet model for radio trails. <i>Nature</i> , 1979 , 279, 770-773	50.4	94
72	Origin of pregalactic microwave background. <i>Nature</i> , 1978 , 275, 35-37	50.4	87
71	Peak Energy Clustering and Efficiency in Compact Objects. <i>Astrophysical Journal</i> , 2005 , 635, 476-480	4.7	86
70	Accretion and the Quasar Phenomenon. <i>Physica Scripta</i> , 1978 , 17, 193-200	2.6	86
69	High-Redshift Supernovae and the Metal-Poor Halo Stars: Signatures of the First Generation of Galaxies. <i>Astrophysical Journal</i> , 1997 , 478, L57-L61	4.7	80
68	Searching for the Earliest Galaxies Using the Gunn-Peterson Trough and the Ly α Emission Line. <i>Astrophysical Journal</i> , 1998 , 497, 21-27	4.7	79
67	Compton drag as a mechanism for very high linear polarization in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 347, L1-L5	4.3	73
66	Energetic and radiative constraints on highly relativistic jets. <i>Astrophysical Journal</i> , 1994 , 429, L57	4.7	72
65	Core-Collapse Very Massive Stars: Evolution, Explosion, and Nucleosynthesis of Population III 500 \times 1000M \odot Stars. <i>Astrophysical Journal</i> , 2006 , 645, 1352-1372	4.7	66
64	Feeding black holes at galactic centres by capture from isothermal cusps. <i>New Astronomy</i> , 2002 , 7, 385-398	4.7	64
63	Radiation from an Expanding Cocoon as an Explanation of the Steep Decay Observed in GRB Early Afterglow Light Curves. <i>Astrophysical Journal</i> , 2006 , 652, 482-489	4.7	59
62	Quiescent times in gamma-ray bursts - II. Dormant periods in the central engine?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 324, 1147-1158	4.3	58
61	He II Recombination Lines from the First Luminous Objects. <i>Astrophysical Journal</i> , 2001 , 553, 73-77	4.7	57
60	Compton-dragged Gamma-Ray Bursts Associated with Supernovae. <i>Astrophysical Journal</i> , 2000 , 529, L17-L20	4.7	52
59	Titans of the early Universe: The Prato statement on the origin of the first supermassive black holes. <i>Publications of the Astronomical Society of Australia</i> , 2019 , 36,	5.5	49
58	Cyclotron Maser Emission from Blazar Jets?. <i>Astrophysical Journal</i> , 2005 , 625, 51-59	4.7	36
57	QUASAR THEORIES. <i>Annals of the New York Academy of Sciences</i> , 1977 , 302, 613-635	6.5	33
56	Cosmological Implications of the Diffuse X-Ray Background. <i>Nature</i> , 1969 , 221, 924-926	50.4	29

55	Gamma-ray bursts and the structure of the Galactic halo. <i>Monthly Notices of the Royal Astronomical Society</i> , 1995 , 273, 755-771	4.3	28
54	Quasars as probes of gas in extended protogalaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 1988 , 231, 91P-95P	4.3	23
53	Cosmology. Anthropic reasoning. <i>Science</i> , 2005 , 309, 1022-3	33.3	21
52	Compton Echoes from Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2000 , 541, 712-719	4.7	18
51	Have we detected one of the sources responsible for an early reionization of the Universe?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 352, L21-L26	4.3	16
50	The Inhomogeneity and Entropy of the Universe: Some Puzzles. <i>Physica Scripta</i> , 1980 , 21, 614-618	2.6	13
49	Nuclei of Galaxies: The Origin of Plasma Beams 1981 , 139-164		11
48	The end of the Dark age 1999 ,		10
47	Mechanisms for Jets 1982 , 211-222		10
46	Introduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 2427-34	3	9
45	Physical processes for X-ray emission in galactic nuclei. <i>Space Science Reviews</i> , 1981 , 30, 87-99	7.5	8
44	The Origin of Globular Clusters 1988 , 323-330		8
43	Massive black holes: formation and evolution. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 51-58	0.1	5
42	First light in the universe: what ended the Dark age? <i>Physics Reports</i> , 2000 , 333-334, 203-214	27.7	5
41	Dissipative Processes, Galaxy Formation and "Early" Star Formation. <i>Physica Scripta</i> , 1978 , 17, 371-376	2.6	5
40	Gamma-ray bursts prompt emission spectrum: an analysis of a photosphere model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 1171-5	3	4
39	Phenomena at the Galactic Centre – A Massive Black Hole? 1985 , 379-384		4
38	Anthropic reasoning. <i>Complexity</i> , 1997 , 3, 17-21	1.6	3

37	A review of gamma ray bursts. <i>Nuclear Physics A</i> , 2000 , 663-664, 42c-55c	1.3	3
36	Is the Universe flat?. <i>Journal of Astrophysics and Astronomy</i> , 1984 , 5, 331-348	1.4	3
35	Introductory Lecture. <i>Symposium - International Astronomical Union</i> , 1986 , 119, 1-13		3
34	Nuclei of Galaxies: The Origin of Plasma Beams. <i>Symposium - International Astronomical Union</i> , 1981 , 94, 139-164		3
33	The X-Ray Background: Origin and Implications 1980 , 207-225		3
32	Physics of Relativistic Jets on Sub-Milliarcsecond Scales 1984 , 207-214		3
31	Mechanisms for Jets 1982 , 211-222		3
30	Numerical Coincidences and Tuning In Cosmology 2003 , 95-108		3
29	Cosmology and the multiverse 57-76		2
28	Biased Galaxy Formation and Dark Matter 1988 , 437-446		2
27	Evolution and Emergence: An Introductory Perspective. <i>European Review</i> , 2010 , 18, 279-286	0.3	1
26	Cosmology. How the cosmic dark age ended. <i>Science</i> , 2002 , 295, 51-3	33.3	1
25	Models for Variability in AGNs. <i>Symposium - International Astronomical Union</i> , 1994 , 159, 239-248		1
24	Black Holes, Galactic Evolution and Cosmic Coincidence. <i>Interdisciplinary Science Reviews</i> , 1989 , 14, 148-164		1
23	Mechanisms for Jets. <i>Symposium - International Astronomical Union</i> , 1982 , 97, 211-222		1
22	Black Holes, Galactic Evolution and Cosmic Coincidence		1
21	Black Holes in our Galaxy 1987 , 279-296		1
20	AGNs: Demography and Remnants 1995 , 559-563		1

19	Models for Variability in AGNs 1994 , 239-248		1
18	Physical Processes for X-Ray Emission in Galactic Nuclei 1981 , 87-99		1
17	Observable Effects of Tidally-Disrupted Stars 1994 , 453-459		1
16	Some Theoretical Aspects of AGNs. <i>Astrophysics and Space Science Library</i> , 1986 , 447-457	0.3	1
15	Perspectives on our cosmic habitat. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 16-21	0.1	
14	Explosion of very massive stars and the origin of intermediate mass black holes. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 241-246	0.1	
13	Gamma-ray bursts. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000 , 358, 853-867		3
12	The first light. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000 , 358, 1989-1999		3
11	Gamma-ray bursts and the structure of the Galactic halo. <i>Annals of the New York Academy of Sciences</i> , 1995 , 759, 283-286		6.5
10	AGNs: Demography and Remnants. <i>Highlights of Astronomy</i> , 1995 , 10, 559-563		
9	Possible Constituents of Halos. <i>Symposium - International Astronomical Union</i> , 1987 , 117, 395-409		
8	Biased Galaxy Formation and Dark Matter. <i>Symposium - International Astronomical Union</i> , 1988 , 130, 437-446		
7	The Origin of Globular Clusters. <i>Symposium - International Astronomical Union</i> , 1988 , 126, 323-332		
6	Unseen Mass. <i>Symposium - International Astronomical Union</i> , 1983 , 104, 299-305		
5	Physics of Relativistic Jets on Sub-Milliarcsecond Scales. <i>Symposium - International Astronomical Union</i> , 1984 , 110, 207-214		
4	Biasing and Suppression of Galaxy Formation 1987 , 255-262		
3	Are There Massive Black Holes in Galactic Nuclei? 1990 , 179-194		
2	Stars and Stellar Systems at $z > 5$: Implications for Structure Formation and Nucleosynthesis. <i>Space Sciences Series of ISSI</i> , 1998 , 43-53	0.1	

1 Possible Constituents of Halos **1987**, 395-409