Jean-Pierre Macquart

List of Publications by Year
in descending order

137	5,806	71102	79698
papers	citations	41 h-index	73 g-index

139	139	139	4209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid-response radio observations of short GRB 181123B with the Australia Telescope Compact Array. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4372-4386.	4.4	7
2	The fast radio burst dispersion measure distribution. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5319-5329.	4.4	18
3	The fast radio burst population evolves, consistent with the star formation rate. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 510, L18-L23.	3.3	39
4	The zâ€“DM distribution of fast radio bursts. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4775-4802.	4.4	52
5	Dissecting the Local Environment of FRB 190608 in the Spiral Arm of its Host Galaxy. Astrophysical Journal, 2021, 922, 173.	4.5	31
6	Interstellar scintillation, ISS, and intrinsic variability of radio AGN. Advances in Space Research, 2020, 65, 756-762.	2.6	5
7	High time resolution and polarization properties of ASKAP-localized fast radio bursts. Monthly Notices of the Royal Astronomical Society, 2020, 497, 3335-3350.	4.4	93
8	A search for fast-radio-burst-like emission from Fermi gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2020, 497, 125-129.	4.4	7
9	A population analysis of pulse broadening in ASKAP fast radio bursts. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1382-1390.	4.4	35
10	The Host Galaxies and Progenitors of Fast Radio Bursts Localized with the Australian Square Kilometre Array Pathfinder. Astrophysical Journal Letters, 2020, 895, L37.	8.3	113
11	A census of baryons in the Universe from localized fast radio bursts. Nature, 2020, 581, 391-395.	27.8	341
12	Measurement of the Rate Distribution of the Population of Repeating Fast Radio Bursts: Implications for Progenitor Models. Astrophysical Journal Letters, 2020, 895, L22.	8.3	8
13	Which bright fast radio bursts repeat?. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2416-2427.	4.4	33
14	Spectropolarimetric Analysis of FRB 181112 at Microsecond Resolution: Implications for Fast Radio Burst Emission Mechanism. Astrophysical Journal Letters, 2020, 891, L38.	8.3	82
15	A search for supernova-like optical counterparts to ASKAP-localised fast radio bursts. Astronomy and Astrophysics, 2020, 639, A119.	5.1	12
16	First Constraints on Compact Dark Matter from Fast Radio Burst Microstructure. Astrophysical Journal, 2020, 900, 122.	4.5	15
17	Disentangling the Cosmic Web toward FRB 190608. Astrophysical Journal, 2020, 901, 134.	4.5	26
18	Host Galaxy Properties and Offset Distributions of Fast Radio Bursts: Implications for Their Progenitors. Astrophysical Journal, 2020, 903, 152.	4.5	148

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19	Limits on Precursor and Afterglow Radio Emission from a Fast Radio Burst in a Star-forming Galaxy. Astrophysical Journal Letters, 2020, 901, L20.	8.3	40
20	A single fast radio burst localized to a massive galaxy at cosmological distance. Science, 2019, 365, 565-570.	12.6	295
21	A fast radio burst in the direction of the Virgo Cluster. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1-8.	4.4	19
22	The low density and magnetization of a massive galaxy halo exposed by a fast radio burst. Science, 2019, 366, 231-234.	12.6	204
23	Interplanetary Scintillation with the Murchison Widefield Array V: An all-sky survey of compact sources using a modern low-frequency radio telescope. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	13
24	Probing Pulsar Scattering between 120 and 280 MHz with the MWA. Astrophysical Journal, 2019, 874, 179.	4.5	12
25	The Spectral Properties of the Bright Fast Radio Burst Population. Astrophysical Journal Letters, 2019, 872, L19.	8.3	85
26	The performance and calibration of the CRAFT flyâ€™s eye fast radio burst survey. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	18
27	Faint Repetitions from a Bright Fast Radio Burst Source. Astrophysical Journal Letters, 2019, 887, L30.	8.3	94
28	Distances to molecular clouds at high galactic latitudes based on Gaia DR2. Astronomy and Astrophysics, 2019, 624, A6.	5.1	39
29	The slope of the source-count distribution for fast radio bursts. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1342-1353.	4.4	46
30	Interplanetary Scintillation with the Murchison Widefield Array I: a sub-arcsecond survey over 900 deg2 at 79 and 158ÂMHz. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2965-2983.	4.4	31
31	Interplanetary scintillation studies with the Murchison Widefield Array â€“ II. Properties of sub-arcsecond compact sources at low radio frequencies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4937-4955.	4.4	28
32	Improved selection criteria for Hâ€‰ii regions, based on IRAS sources. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3981-3990.	4.4	7
33	Interplanetary scintillation studies with the Murchison Widefield Array III: comparison of source counts and densities for radio sources and their sub-arcsecond components at 162â€‰MHz. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2318-2327.	4.4	9
34	A Search for the Host Galaxy of FRB 171020. Astrophysical Journal Letters, 2018, 867, L10.	8.3	38
35	FRB microstructure revealed by the real-time detection of FRB170827. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1209-1217.	4.4	107
36	The dispersionâ€“brightness relation for fast radio bursts from a wide-field survey. Nature, 2018, 562, 386-390.	27.8	223

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37	No Low-frequency Emission from Extremely Bright Fast Radio Bursts. Astrophysical Journal Letters, 2018, 867, L12.	8.3	42
38	Galactic synchrotron distribution derived from 152 Hâ€‰ii region absorption features in the full GLEAM survey. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4041-4055.	4.4	13
39	Probing the Universeâ€™s baryons with fast radio bursts. Nature Astronomy, 2018, 2, 836-838.	10.1	10
40	FRB event rate counts â€“ II. Fluence, redshift, and dispersion measure distributions. Monthly Notices of the Royal Astronomical Society, 2018, 480, 4211-4230.	4.4	56
41	Fast radio burst event rate counts â€“ I. Interpreting the observations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 1900-1908.	4.4	61
42	The SUrvey for Pulsars and Extragalactic Radio Bursts â€“ III. Polarization properties of FRBs 160102 and 151230. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2046-2055.	4.4	48
43	The MASIV Survey â€“ IV. Relationship between intra-day scintillation and intrinsic variability of radio AGNs. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4396-4411.	4.4	10
44	The Detection of an Extremely Bright Fast Radio Burst in a Phased Array Feed Survey. Astrophysical Journal Letters, 2017, 841, L12.	8.3	133
45	A Dense Plasma Globule in the Solar Neighborhood. Astrophysical Journal Letters, 2017, 849, L3.	8.3	4
46	Radio light curve of the galaxy possibly associated with FRBÂ150418. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2143-2150.	4.4	19
47	Illuminating the past 8Âbillion years of cold gas towards two gravitationally lensed quasars. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4450-4467.	4.4	31
48	Interstellar Scintillation and Scattering of Micro-arc-second AGN. Galaxies, 2016, 4, 62.	3.0	7
49	EXTREME BRIGHTNESS TEMPERATURES AND REFRACTIVE SUBSTRUCTURE IN 3C 273 WITH RADIOASTRON. Astrophysical Journal Letters, 2016, 820, L10.	8.3	30
50	Absorption variability as a probe of the multiphase interstellar media surrounding active galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2322-2336.	4.4	1
51	Pulsar lensing geometry. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1289-1299.	4.4	27
52	MURCHISON WIDEFIELD ARRAY OBSERVATIONS OF ANOMALOUS VARIABILITY: A SERENDIPITOUS NIGHT-TIME DETECTION OF INTERPLANETARY SCINTILLATION. Astrophysical Journal Letters, 2015, 809, L12.	8.3	19
53	The intra-hour variable quasar J1819+3845: 13-year evolution, jet polarization structure, and interstellar scattering screen properties. Astronomy and Astrophysics, 2015, 574, A125.	5.1	16
54	ALMA detection of a disc-dominated [Câ€‰ii] emission line at z=4.6 in the luminous QSOÂJ1554+1937. Monthly Notices of the Royal Astronomical Society, 2015, 452, 88-98.	4.4	19

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55	Scatter broadening of compact radio sources by the ionized intergalactic medium: prospects for detection with Space VLBI and the Square Kilometre Array. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2370-2379.	4.4	9
56	ON DETECTING MILLISECOND PULSARS AT THE GALACTIC CENTER. Astrophysical Journal, 2015, 805, 172.	4.5	38
57	On the paucity of fast radio bursts at low Galactic latitudes. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3278-3286.	4.4	45
58	THE SPECTRAL VARIABILITY OF THE GHZ-PEAKED SPECTRUM RADIO SOURCE PKS 1718-649 AND A COMPARISON OF ABSORPTION MODELS. Astronomical Journal, 2015, 149, 74.	4.7	36
59	Understanding pulsar magnetospheres with the SKA. , 2015, , .		4
60	Optimization of Survey Strategies for Detecting Slow Radio Transients. Publications of the Astronomical Society of Australia, 2014, 31, .	3.4	6
61	50 picoarcsec astrometry of pulsar emission. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 440, L36-L40.	3.3	32
62	A survey for transients and variables with the Murchison Widefield Array 32-tile prototype at 154 MHz. Monthly Notices of the Royal Astronomical Society, 2014, 438, 352-367.	4.4	54
63	Microarcsecond structure of an AGN Jet via Interstellar Scintillation. Proceedings of the International Astronomical Union, 2014, 10, 143-144.	0.0	0
64	Bright radio emission from an ultraluminous stellar-mass microquasar in M 31. Nature, 2013, 493, 187-190.	27.8	108
65	A FRAMEWORK FOR INTERPRETING FAST RADIO TRANSIENTS SEARCH EXPERIMENTS: APPLICATION TO THE V-FASTR EXPERIMENT. Astrophysical Journal, 2013, 767, 4.	4.5	12
66	WIDE-FIELD VLBI OBSERVATIONS OF M31: A UNIQUE PROBE OF THE IONIZED INTERSTELLAR MEDIUM OF A NEARBY GALAXY. Astrophysical Journal, 2013, 768, 12.	4.5	10
67	TEMPORAL SMEARING OF TRANSIENT RADIO SOURCES BY THE INTERGALACTIC MEDIUM. Astrophysical Journal, 2013, 776, 125.	4.5	94
68	THE MICRO-ARCSECOND SCINTILLATION-INDUCED VARIABILITY (MASIV) SURVEY. III. OPTICAL IDENTIFICATIONS AND NEW REDSHIFTS. Astrophysical Journal, 2013, 767, 14.	4.5	20
69	PERFORMANCE OF A NOVEL FAST TRANSIENTS DETECTION SYSTEM. Astrophysical Journal, Supplement Series, 2013, 205, 4.	7.7	5
70	VAST: An ASKAP Survey for Variables and Slow Transients. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	88
71	THE MICROARCSECOND STRUCTURE OF AN ACTIVE GALACTIC NUCLEUS JET VIA INTERSTELLAR SCINTILLATION. Astrophysical Journal, 2013, 765, 142.	4.5	10
72	The MASIV survey: spectroscopic identifications of compact radio sources. Proceedings of the International Astronomical Union, 2013, 9, 110-111.	0.0	0

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73	The MASIV Legacy: Surveying AGN Intra-day Variability at Radio Wavelengths. Proceedings of the International Astronomical Union, 2013, 9, 415-416.	0.0	0
74	ON THE RELIABILITY OF POLARIZATION ESTIMATION USING ROTATION MEASURE SYNTHESIS. Astrophysical Journal, 2012, 750, 139.	4.5	36
75	THE STRUCTURE AND EMISSION MODEL OF THE RELATIVISTIC JET IN THE QUASAR 3C 279 INFERRED FROM RADIO TO HIGH-ENERGY Î³-RAY OBSERVATIONS IN 2008-2010. Astrophysical Journal, 2012, 754, 114.	4.5	152
76	Interstellar scattering â€" New diagnostics of pulsars and the ISM. Proceedings of the International Astronomical Union, 2012, 8, 217-222.	0.0	0
77	WHY DO COMPACT ACTIVE GALACTIC NUCLEI AT HIGH REDSHIFT SCINTILLATE LESS?. Astrophysical Journal, 2012, 756, 29.	4.5	12
78	Detection of six rapidly scintillating active galactic nuclei and the diminished variability of J1819+3845. Astronomy and Astrophysics, 2011, 534, L1.	5.1	11
79	DETECTION RATES FOR SURVEYS FOR FAST TRANSIENTS WITH NEXT GENERATION RADIO ARRAYS. Astrophysical Journal, 2011, 734, 20.	4.5	14
80	Interstellar Scintillation as a Cosmological Probe: Prospects and Challenges. Proceedings of the International Astronomical Union, 2011, 7, 347-348.	0.0	0
81	Source Detection with Interferometric Datasets. Proceedings of the International Astronomical Union, 2011, 7, 414-416.	0.0	0
82	RADIO BURSTS WITH EXTRAGALACTIC SPECTRAL CHARACTERISTICS SHOW TERRESTRIAL ORIGINS. Astrophysical Journal, 2011, 727, 18.	4.5	102
83	SOURCE DETECTION IN INTERFEROMETRIC VISIBILITY DATA. I. FUNDAMENTAL ESTIMATION LIMITS. Astrophysical Journal, 2011, 731, 81.	4.5	12
84	Atmospheric interpretation of anomalous terrestrial emission serendipitously discovered in radioastronomy data at 1 Gigahertz. , 2011, , .		0
85	DUAL-FREQUENCY OBSERVATIONS OF 140 COMPACT, FLAT-SPECTRUM ACTIVE GALACTIC NUCLEI FOR SCINTILLATION-INDUCED VARIABILITY. Astronomical Journal, 2011, 142, 108.	4.7	19
86	Interstellar scattering as a cosmological probe. , 2011, , .		0
87	The Commensal Real-Time ASKAP Fast-Transients (CRAFT) Survey. Publications of the Astronomical Society of Australia, 2010, 27, 272-282.	3.4	93
88	A HIGH-FREQUENCY SEARCH FOR PULSARS WITHIN THE CENTRAL PARSEC OF Sgr A*. Astrophysical Journal, 2010, 715, 939-946.	4.5	70
89	100 Î¼as RESOLUTION VLBI IMAGING OF ANISOTROPIC INTERSTELLAR SCATTERING TOWARD PULSAR B0834+06. Astrophysical Journal, 2010, 708, 232-243.	4.5	115
90	EVOLUTION OF THE PARSEC-SCALE STRUCTURE OF PKS 1934â€"638 REVISITED: FIRST SCIENCE WITH THE ASKAP AND NEW ZEALAND TELESCOPES. Astronomical Journal, 2010, 140, 1506-1510.	4.7	12

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91	FARADAY ROTATION STRUCTURE ON KILOPARSEC SCALES IN THE RADIO LOBES OF CENTAURUS A. Astrophysical Journal, 2009, 707, 114-125.	4.5	65
92	Annual cycles in the interstellar scintillation time-scales of PKSâ€ƒB1519-273 and PKSâ€ƒB1622-253. Monthly Notices of the Royal Astronomical Society, 2009, 396, 1222-1230.	4.4	8
93	Science with ASKAP. Experimental Astronomy, 2008, 22, 151-273.	3.7	332
94	Multiwaveband analysis of brightest GRB070125. AIP Conference Proceedings, 2008, , .	0.4	0
95	A Compact Extreme Scattering Event Cloud toward AO 0235+164. Astrophysical Journal, 2008, 672, L95-L98.	4.5	14
96	A Comprehensive Study of GRB 070125, A Most Energetic Gammaâ€Ray Burst. Astrophysical Journal, 2008, 683, 924-942.	4.5	70
97	The Microâ€Arcsecond Scintillationâ€Induced Variability (MASIV) Survey. II. The First Four Epochs. Astrophysical Journal, 2008, 689, 108-126.	4.5	98
98	Science with the Australian Square Kilometre Array Pathfinder. Publications of the Astronomical Society of Australia, 2007, 24, 174-188.	3.4	231
99	Observations of intrahour variable quasars: scattering in our Galactic neighbourhood. Astronomical and Astrophysical Transactions, 2007, 26, 567-573.	0.2	1
100	Microarcsecond scintillation-induced variability (MASIV) survey of the northern sky. Astronomical and Astrophysical Transactions, 2007, 26, 575-583.	0.2	0
101	On the Detectability of Prompt Coherent Gamma-Ray Burst Radio Emission. Astrophysical Journal, 2007, 658, L1-L4.	4.5	16
102	Scattering of gravitational radiation. Astronomy and Astrophysics, 2007, 463, 31-49.	5.1	1
103	Emergence and disappearance of microarcsecond structure in the scintillating quasar J1819+3845. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 380, L20-L24.	3.3	26
104	Diffractive interstellar scintillation of the quasar J1819+3845 at ${vec{lambda}}$21Âcm. Astronomy and Astrophysics, 2006, 446, 185-200.	5.1	20
105	Rapid Interstellar Scintillation of PKS 1257â˜'326: Twoâ€Station Pattern Time Delays and Constraints on Scattering and Microarcsecond Source Structure. Astrophysical Journal, 2006, 652, 1050-1058.	4.5	60
106	The Rotation Measure and 3.5 Millimeter Polarization of Sagittarius A*. Astrophysical Journal, 2006, 646, L111-L114.	4.5	73
107	Understanding the Radio Variability of Sagittarius A*. Astrophysical Journal, 2006, 641, 302-318.	4.5	32
108	Rapid Interstellar Scintillation of Quasar PKS 1257-326. Highlights of Astronomy, 2005, 13, 703-708.	0.0	0

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109	Scintillation-induced variability in radio absorption spectra against extragalactic sources. Astronomy and Astrophysics, 2005, 433, 827-840.	5.1	5
110	Outburst and Post-Outburst Active Phase of the Black Hole X-Ray Binary V4641 Sagittarii in 2002. Publication of the Astronomical Society of Japan, 2004, 56, S61-S75.	2.5	15
111	The microarcsecond sky and cosmic turbulence. New Astronomy Reviews, 2004, 48, 1439-1457.	12.8	16
112	Scattering of gravitational radiation. Astronomy and Astrophysics, 2004, 422, 761-775.	5.1	28
113	Interstellar Scintillation and Annual Cycles in the BL Lac Source PKS 1519-273. Astrophysics and Space Science, 2003, 288, 63-68.	1.4	26
114	Similarities between Circular Polarization in Galactic Jet Sources and AGN. Astrophysics and Space Science, 2003, 288, 105-119.	1.4	1
115	Circular polarization in relativistic jets. New Astronomy Reviews, 2003, 47, 609-612.	12.8	5
116	Variability in GPS Sources. Publications of the Astronomical Society of Australia, 2003, 20, 151-155.	3.4	14
117	First Results from MASIV: The Microarcsecond Scintillation-induced Variability Survey. Astronomical Journal, 2003, 126, 1699-1706.	4.7	84
118	On the search for coherent radiation from radio pulsars. Astronomy and Astrophysics, 2003, 405, 795-801.	5.1	11
119	Rapid Variability and Annual Cycles in the Characteristic Timescale of the Scintillating Source PKS 1257â˜326. Astrophysical Journal, 2003, 585, 653-664.	4.5	105
120	New Results from an ATCA Study of Intraday Variable Radio Sources. Publications of the Astronomical Society of Australia, 2002, 19, 29-33.	3.4	12
121	Circular Polarisation in AGN. Publications of the Astronomical Society of Australia, 2002, 19, 43-48.	3.4	12
122	Rapidly evolving circularly polarized emission during the 1994 outburst of GROÂJ1655â€“40. Astronomy and Astrophysics, 2002, 396, 615-621.	5.1	9
123	Microarcsecond Radio Imaging using Earthâ€Orbit Synthesis. Astrophysical Journal, 2002, 572, 786-795.	4.5	22
124	Circular Polarization in Scintillating Sources. Symposium - International Astronomical Union, 2001, 205, 92-93.	0.1	0
125	Intraday Variability and Microarcsecond Structure in Blazar Cores. Symposium - International Astronomical Union, 2001, 205, 84-87.	0.1	2
126	Extreme Examples of Intraday Variability - Search for Diffractive Scintillation in the Smallest Quasar, PKS 0405-385. Symposium - International Astronomical Union, 2001, 205, 90-91.	0.1	2

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127	Strong, Variable Circular Polarization in PKS 1519â€“273. International Astronomical Union Colloquium, 2001, 182, 135-138.	0.1	0
128	Radio Intra-Day Variability: Answers and Questions. International Astronomical Union Colloquium, 2001, 182, 86-92.	0.1	0
129	Strong, Variable Circular Polarization in PKS 1519â€“273. Astrophysics and Space Science, 2001, 278, 135-138.	1.4	0
130	Radio Intra-Day Variability: Answers and Questions. Astrophysics and Space Science, 2001, 278, 87-92.	1.4	6
131	Intra-day variability and the interstellar medium towards 0917+624. Astronomy and Astrophysics, 2001, 370, L9-L12.	5.1	58
132	Nanoarcsecond Single-Dish Imaging of the Vela Pulsar. International Astronomical Union Colloquium, 2000, 177, 215-218.	0.1	2
133	Circular polarization induced by scintillation in a magnetized medium. Physical Review E, 2000, 62, 4177-4188.	2.1	13
134	Strong, Variable Circular Polarization in PKS 1519â˜273. Astrophysical Journal, 2000, 538, 623-627.	4.5	62
135	Scintillationâ€induced Circular Polarization in Pulsars and Quasars. Astrophysical Journal, 2000, 545, 798-806.	4.5	47
136	Confirmation and Analysis of Circular Polarization from Sagittarius A*. Astrophysical Journal, 1999, 526, L85-L88.	4.5	44
137	Stochastic Faraday Rotation. Astrophysical Journal, 1998, 505, 921-927.	4.5	19