

R P Breton

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.

82
papers

2,372
citations

27
h-index

47
g-index

89
ext. papers

2,828
ext. citations

5.2
avg. IF

4.65
L-index

#	Paper	IF	Citations
82	Einstein@Home discovery of the gamma-ray millisecond pulsar PSR J2039B617 confirms its predicted reback nature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 915-934	4.3	11
81	A search for radio pulsars in five nearby supernova remnants. <i>Astronomy and Astrophysics</i> , 2021 , 647, A183	5.1	0
80	Transient-optimized real-bogus classification with Bayesian convolutional neural networks lifting the GOTO candidate stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 4838-4854	4.3	3
79	Light-curve classification with recurrent neural networks for GOTO: dealing with imbalanced data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 4345-4361	4.3	2
78	Optical photometry of two transitional millisecond pulsars in the radio pulsar state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 2174-2191	4.3	2
77	Processing GOTO survey data with the Rubin Observatory LSST Science Pipelines II: Forced Photometry and lightcurves. <i>Publications of the Astronomical Society of Australia</i> , 2021 , 38,	5.5	1
76	Measuring the impact of Indonesian antennas on global geodetic VLBI network. <i>Experimental Astronomy</i> , 2021 , 52, 141	1.3	0
75	Searching for Fermi GRB optical counterparts with the prototype Gravitational-wave Optical Transient Observer (GOTO). <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 5463-5476	4.3	1
74	Processing GOTO data with the Rubin Observatory LSST Science Pipelines I: Production of coadded frames. <i>Publications of the Astronomical Society of Australia</i> , 2021 , 38,	5.5	1
73	Optical, X-ray, and Ray observations of the candidate transitional millisecond pulsar 4FGL J0427.8-6704. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 3912-3926	4.3	5
72	PSR J1012+5307: a millisecond pulsar with an extremely low-mass white dwarf companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 4031-4042	4.3	10
71	Possible periodic activity in the repeating FRB 121102. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 3551-3558	4.3	96
70	Study of spider pulsar binary eclipses and discovery of an eclipse mechanism transition. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 2948-2968	4.3	17
69	A spider timing model: accounting for quadrupole deformations and relativity in close pulsar binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 1550-1565	4.3	4
68	Understanding and improving the timing of PSR J0737B039B. <i>Astronomy and Astrophysics</i> , 2020 , 643, A143	5.1	2
67	Discovery of a Gamma-Ray Black Widow Pulsar by GPU-accelerated Einstein@Home. <i>Astrophysical Journal Letters</i> , 2020 , 902, L46	7.9	12
66	Spectrotemporal Analysis of a Sample of Bursts from FRB 121102. <i>Research Notes of the AAS</i> , 2020 , 4, 150	0.8	1

65	Constraining the redshifts of unlocalised fast radio bursts. <i>Astronomy and Astrophysics</i> , 2020 , 638, A37	5.1	8
64	Dispersion measure variability for 36 millisecond pulsars at 150 MHz with LOFAR. <i>Astronomy and Astrophysics</i> , 2020 , 644, A153	5.1	10
63	Searching for electromagnetic counterparts to gravitational-wave merger events with the prototype Gravitational-Wave Optical Transient Observer (GOTO-4). <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 726-738	4.3	41
62	Machine learning for transient recognition in difference imaging with minimum sampling effort. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 6009-6017	4.3	4
61	First measurement of the total gravitational quadrupole moment of a black widow companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 4448-4453	4.3	1
60	Optical spectra of FO Aquarii during low and high accretion rates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 4445-4462	4.3	4
59	Limits on absorption from a 332-MHz survey for fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 493, 4418-4427	4.3	7
58	A model for redistributing heat over the surface of irradiated spider companions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 1758-1768	4.3	8
57	Long-term variability of a black widow's eclipses: A decade of PSR J20515-0827. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 889-908	4.3	17
56	The FRATS project: real-time searches for fast radio bursts and other fast transients with LOFAR at 135 MHz. <i>Astronomy and Astrophysics</i> , 2019 , 621, A57	5.1	9
55	Detection and Timing of Gamma-Ray Pulsations from the 707 Hz Pulsar J09520-607. <i>Astrophysical Journal</i> , 2019 , 883, 42	4.7	12
54	LOFAR 150-MHz observations of SS 433 and W 50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 5360-5377	4.3	13
53	X-Ray and Optical Studies of the Redback System PSR J21290-429. <i>Astrophysical Journal</i> , 2018 , 861, 89	4.7	18
52	LOFAR MSSS: Flattening low-frequency radio continuum spectra of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2018 , 619, A36	5.1	10
51	The low-frequency radio eclipses of the black widow pulsar J1810+1744. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 1968-1981	4.3	30
50	Kepler K2 observations of the transitional millisecond pulsar PSR J1023+0038. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 1120-1132	4.3	22
49	The largest glitch observed in the Crab pulsar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 478, 3832-3840	4.3	39
48	LOFAR MSSS: Discovery of a 2.56 Mpc giant radio galaxy associated with a disturbed galaxy group. <i>Astronomy and Astrophysics</i> , 2017 , 601, A25	5.1	11

47	The eclipses of the black widow pulsar J1810+1744 at low radio frequencies. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 396-397	0.1	
46	X-Ray and Optical Properties of Black Widows and Redbacks. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 43-46	0.1	4
45	Formation of Double Neutron Star Systems. <i>Astrophysical Journal</i> , 2017 , 846, 170	4.7	288
44	LOFAR MSSS: The scaling relation between AGN cavity power and radio luminosity at low radio frequencies. <i>Astronomy and Astrophysics</i> , 2017 , 605, A48	5.1	8
43	LOFAR Discovery of the Fastest-spinning Millisecond Pulsar in the Galactic Field. <i>Astrophysical Journal Letters</i> , 2017 , 846, L20	7.9	30
42	Measuring the expansion velocity of the outflows of LS I +61 303 through low-frequency radio observations 2017 ,		1
41	Properties of the redback millisecond pulsar binary 3FGL J0212.1+5320. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 472, 4287-4296	4.3	11
40	Pulsar Observations at the Ghana Radio Astronomy Observatory. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 410-411	0.1	0
39	LOFT-e: Localisation Of Fast Transients with e-MERLIN. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 422-423	0.1	
38	Imaging Jupiter's radiation belts down to 127 MHz with LOFAR. <i>Astronomy and Astrophysics</i> , 2016 , 587, A3	5.1	12
37	LOFAR MSSS: detection of a low-frequency radio transient in 400h of monitoring of the North Celestial Pole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 2321-2342	4.3	45
36	PROPERTIES AND EVOLUTION OF THE REDBACK MILLISECOND PULSAR BINARY PSR J2129-0429. <i>Astrophysical Journal</i> , 2016 , 816, 74	4.7	34
35	Orbital and superorbital variability of LS I +61 303 at low radio frequencies with GMRT and LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 1791-1802	4.3	4
34	A LOFAR census of non-recycled pulsars: average profiles, dispersion measures, flux densities, and spectra. <i>Astronomy and Astrophysics</i> , 2016 , 591, A134	5.1	61
33	A LOFAR census of millisecond pulsars. <i>Astronomy and Astrophysics</i> , 2016 , 585, A128	5.1	61
32	Wide-band, low-frequency pulse profiles of 100 radio pulsars with LOFAR. <i>Astronomy and Astrophysics</i> , 2016 , 586, A92	5.1	43
31	LONG-TERM STUDY OF THE DOUBLE PULSAR J0737-3039 WITH XMM-NEWTON: PULSAR TIMING. <i>Astrophysical Journal</i> , 2016 , 824, 87	4.7	3
30	An irradiated brown-dwarf companion to an accreting white dwarf. <i>Nature</i> , 2016 , 533, 366-8	50.4	31

29	New methods to constrain the radio transient rate: results from a survey of four fields with LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 3161-3174	4.3	19
28	Low-radio-frequency eclipses of the redback pulsar J2215+5135 observed in the image plane with LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 2681-2689	4.3	22
27	LOFAR discovery of a quiet emission mode in PSR B0823+26. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 451, 2493-2506	4.3	32
26	The LOFAR Transients Pipeline. <i>Astronomy and Computing</i> , 2015 , 11, 25-48	2.4	47
25	Limits on fast radio bursts at 145 MHz with artemis, a real-time software backend. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 452, 1254-1262	4.3	69
24	The ASKAP/EMU Source Finding Data Challenge. <i>Publications of the Astronomical Society of Australia</i> , 2015 , 32,	5.5	30
23	The LOFAR Multifrequency Snapshot Sky Survey (MSSS). <i>Astronomy and Astrophysics</i> , 2015 , 582, A123	5.1	78
22	Pulsar polarisation below 200 MHz: Average profiles and propagation effects. <i>Astronomy and Astrophysics</i> , 2015 , 576, A62	5.1	52
21	Understanding pulsar magnetospheres with the SKA 2015 ,		2
20	Understanding the Neutron Star Population with the SKA 2015 ,		10
19	Pulsar Wind Nebulae in the SKA era 2015 ,		2
18	Fast Transients at Cosmological Distances with the SKA 2015 ,		13
17	The LOFAR pilot surveys for pulsars and fast radio transients. <i>Astronomy and Astrophysics</i> , 2014 , 570, A60	5.1	76
16	IDENTIFICATION OF THE OPTICAL COUNTERPART OF FERMI BLACK WIDOW MILLISECOND PULSAR PSR J1544+4937. <i>Astrophysical Journal Letters</i> , 2014 , 791, L5	7.9	18
15	The future for radio astronomy. <i>Astronomy and Geophysics</i> , 2013 , 54, 6.36-6.39	0.2	1
14	DISCOVERY OF THE OPTICAL COUNTERPARTS TO FOUR ENERGETICFERMIMILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2013 , 769, 108	4.7	99
13	THE DOUBLE PULSAR: EVIDENCE FOR NEUTRON STAR FORMATION WITHOUT AN IRON CORE-COLLAPSE SUPERNOVA. <i>Astrophysical Journal</i> , 2013 , 767, 85	4.7	57
12	MULTIBAND STUDIES OF THE OPTICAL PERIODIC MODULATION IN THE X-RAY BINARY SAX J1808.4B658 DURING ITS QUIESCENCE AND 2008 OUTBURST. <i>Astrophysical Journal</i> , 2013 , 765, 151	4.7	38

11	The long-term evolution of the X-ray pulsar XTE J1814-338: A receding jet contribution to the quiescent optical emission?. <i>Astronomy and Astrophysics</i> , 2013 , 559, A42	5.1	13
10	KOI 1224: A FOURTH BLOATED HOT WHITE DWARF COMPANION FOUND WITH KEPLER. <i>Astrophysical Journal</i> , 2012 , 748, 115	4.7	77
9	THE DOUBLE PULSAR ECLIPSES. I. PHENOMENOLOGY AND MULTI-FREQUENCY ANALYSIS. <i>Astrophysical Journal</i> , 2012 , 747, 89	4.7	13
8	EVIDENCE FOR A MASSIVE NEUTRON STAR FROM A RADIAL-VELOCITY STUDY OF THE COMPANION TO THE BLACK-WIDOW PULSAR PSR B1957+20. <i>Astrophysical Journal</i> , 2011 , 728, 95	4.7	199
7	OBSERVATIONS OF DOPPLER BOOSTING IN KEPLER LIGHT CURVES. <i>Astrophysical Journal</i> , 2010 , 715, 51-58	4.7	113
6	THE EVOLUTION OF PSR J0737B039B AND A MODEL FOR RELATIVISTIC SPIN PRECESSION. <i>Astrophysical Journal</i> , 2010 , 721, 1193-1205	4.7	60
5	Relativistic spin precession in the double pulsar. <i>Science</i> , 2008 , 321, 104-7	33.3	130
4	The double pulsar: evolutionary constraints from the system geometry. <i>AIP Conference Proceedings</i> , 2008 ,	0	18
3	Using the Double Pulsar Eclipses to Probe Fundamental Physics. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
2	The Unusual Binary Pulsar PSR J1744B922: Radio Flux Variability, Near-Infrared Observation, and Evolution. <i>Astrophysical Journal</i> , 2007 , 661, 1073-1083	4.7	7
1	The Gravitational-wave Optical Transient Observer (GOTO): Prototype performance and prospects for transient science. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	4