Dipanjan Mitra

List of Publications by Year
in descending order

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58 papers	1,644 citations	236925 25 h-index	315739 38 g-index
59 all docs	59 docs citations	59 times ranked	541 citing authors

#	Article	IF	Citations
1	Externally driven plasma models as candidates for pulsar radio emission. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3589-3601.	4.4	5
2	Spectral Variation across Pulsar Profile due to Coherent Curvature Radiation. Astrophysical Journal, 2022, 927, 208.	4.5	4
3	Constraining millisecond pulsar geometry using time-aligned radio and gamma-ray pulse profile. Astronomy and Astrophysics, 2021, 647, A101.	5.1	8
4	Rapid modification of neutron star surface magnetic field: a proposed mechanism for explaining radio emission state changes in pulsars. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5741-5753.	4.4	18
5	Meterwavelength Single-pulse Polarimetric Emission Survey. V. Flux Density, Component Spectral Variation, and Emission States. Astrophysical Journal, 2021, 917, 48.	4.5	6
6	A mechanism of spark motion in inner acceleration region to investigate subpulse drifting in pulsars. Monthly Notices of the Royal Astronomical Society, 2020, 496, 465-482.	4.4	21
7	Pulsar radio emission mechanism â˜’ I. On the amplification of Langmuir waves in the linear regime. Monthly Notices of the Royal Astronomical Society, 2020, 497, 3953-3967.	4.4	16
8	Joint radio and X-ray modelling of PSRÂJ1136+1551. Monthly Notices of the Royal Astronomical Society, 2020, 491, 80-91.	4.4	19
9	Periodic Modulation: Newly Emergent Emission Behavior in Pulsars. Astrophysical Journal, 2020, 889, 133.	4.5	31
10	A single spark model for PSR J2144â˜’3933. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2468-2480.	4.4	19
11	Mode changing, subpulse drifting, and nulling in four component conal pulsar PSR J2321+6024. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4139-4152.	4.4	19
12	Search for Off-pulse Emission in Long-period Pulsars. Astrophysical Journal, 2020, 905, 30.	4.5	0
13	Radio emission features in different modes of PSR J0826+2637 (B0823+26). Monthly Notices of the Royal Astronomical Society, 2019, 487, 4536-4549.	4.4	20
14	Evaluating the evidence of multipolar surface magnetic field in PSR J0108â€“1431. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4589-4605.	4.4	18
15	Arecibo 4.5/1.4/0.33-GHz polarimetric single-pulse emission survey. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1543-1555.	4.4	15
16	Subpulse drifting, nulling, and mode changing in PSR J2006Ââ˜’ 0807 with core emission. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5216-5230.	4.4	27
17	Investigation of the mode-switching phenomenon in pulsar B0329+54 through polarimetric analysis. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2725-2734.	4.4	13
18	Classification of subpulse drifting in pulsars. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3757-3788.	4.4	48

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19	Subpulse drifting, nulling, and mode changing in PSR J1822â˜2256. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1345-1355.	4.4	33
20	Meterwavelength Single-pulse Polarimetric Emission Survey. IV. The Period Dependence of Component Widths of Pulsars. Astrophysical Journal, 2018, 854, 162.	4.5	18
21	Discovery of synchronous X-ray and radio moding of PSR B0823+26. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3655-3670.	4.4	30
22	Characterizing the nature of subpulse drifting in pulsars. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5098-5107.	4.4	25
23	Relativistic charge solitons created due to non-linear Landau damping: a candidate for explaining coherent radio emission in pulsars. Monthly Notices of the Royal Astronomical Society, 2018, 480, 4526-4543.	4.4	22
24	Toward an Empirical Theory of Pulsar Emission. XII. Exploring the Physical Conditions in Millisecond Pulsar Emission Regions. Astrophysical Journal, 2017, 845, 23.	4.5	12
25	XMM-Newton Observation of the Nearby Pulsar B1133+16. Astrophysical Journal, 2017, 835, 178.	4.5	22
26	Nature of Coherent Radio Emission from Pulsars. Journal of Astrophysics and Astronomy, 2017, 38, 1.	1.0	42
27	Meterwavelength Single-pulse Polarimetric Emission Survey. III. The Phenomenon of Nulling in Pulsars. Astrophysical Journal, 2017, 846, 109.	4.5	40
28	Secondary dynamical spectra of pulsars as indicators of inhomogeneities in the interstellar plasma. Astronomy Reports, 2017, 61, 406-416.	0.9	3
29	Simultaneous X-ray and radio observations of the radio-mode-switching pulsar PSR B1822â˜09. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1688-1708.	4.4	35
30	Periodic longitude-stationary non-drift emission in core-single radio pulsar B1946+35. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4601-4609.	4.4	18
31	METERWAVELENGTH SINGLE-PULSE POLARIMETRIC EMISSION SURVEY. II. THE PHENOMENON OF DRIFTING SUBPULSES. Astrophysical Journal, 2016, 833, 29.	4.5	62
32	A DEEP CAMPAIGN TO CHARACTERIZE THE SYNCHRONOUS RADIO/X-RAY MODE SWITCHING OF PSR B0943+10. Astrophysical Journal, 2016, 831, 21.	4.5	40
33	METERWAVELENGTH SINGLE-PULSE POLARIMETRIC EMISSION SURVEY. Astrophysical Journal, 2016, 833, 28.	4.5	43
34	Core and conal component analysis of pulsar B1933+16: investigation of the segregated modes. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3063-3075.	4.4	21
35	TOWARD AN EMPIRICAL THEORY OF PULSAR EMISSION. X. ON THE PRECURSOR AND POSTCURSOR EMISSION. Astrophysical Journal, 2015, 798, 105.	4.5	21
36	POLARIZED QUASIPERIODIC STRUCTURES IN PULSAR RADIO EMISSION REFLECT TEMPORAL MODULATIONS OF NON-STATIONARY PLASMA FLOW. Astrophysical Journal, 2015, 806, 236.	4.5	36

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37	ON THE ADIABATIC WALKING OF PLASMA WAVES IN A PULSAR MAGNETOSPHERE. Astrophysical Journal, 2014, 794, 105.	4.5	30
38	AN EMISSION MECHANISM EXPLAINING OFF-PULSE EMISSION ORIGINATING IN THE OUTER MAGNETOSPHERE OF PULSARS. Astrophysical Journal, 2013, 772, 86.	4.5	4
39	Synchronous X-ray and Radio Mode Switches: A Rapid Global Transformation of the Pulsar Magnetosphere. Science, 2013, 339, 436-439.	12.6	116
40	Core and conal component analysis of pulsar B1237+25 â€“ II. Investigation of the segregated modesâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1984-2002.	4.4	26
41	A combined GMRT/CLFST image of IC443 at 150 MHz. Proceedings of the International Astronomical Union, 2013, 9, 376-377.	0.0	0
42	ON THE NATURE OF OFF-PULSE EMISSION FROM PULSARS. Astrophysical Journal, 2012, 758, 91.	4.5	11
43	Modal sequencing and dynamic emission properties of an 8-h Giant Metrewave Radio Telescope observation of pulsar B1822â˜'09. Monthly Notices of the Royal Astronomical Society, 2012, 427, 180-189.	4.4	23
44	DETECTION OF OFF-PULSE EMISSION FROM PSR B0525+21 AND PSR B2045-16. Astrophysical Journal, 2011, 728, 157.	4.5	16
45	TOWARD AN EMPIRICAL THEORY OF PULSAR EMISSION. IX. ON THE PECULIAR PROPERTIES AND GEOMETRIC REGULARITY OF LYNE AND MANCHESTER'S â€œPARTIAL CONEâ€•PULSARS. Astrophysical Journal, 2011, 727, 92.	4.5	52
46	The topology and polarization of subbeams associated with the â€˜driftingâ€™ subpulse emission of pulsar B0943+10 - VI. Analysis of an 8-h Giant Metrewave Radio Telescope observation. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1736-1745.	4.4	21
47	Gated interferometric imaging of pulsars to detect off-pulse emission. , 2011, , .		0
48	Dynamic emission properties of pulsars B0943+10 and B1822-09 - I. Comparison, and the discovery of a â€˜Qâ€™-mode precursor. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	15
49	UNRAVELING THE NATURE OF COHERENT PULSAR RADIO EMISSION. Astrophysical Journal, 2009, 696, L141-L145.	4.5	56
50	On the aberration-retardation effects in pulsars. Monthly Notices of the Royal Astronomical Society, 2009, 393, 1617-1624.	4.4	28
51	Absolute broad-band polarization behaviour of PSR B0329+54: a glimpse of the core emission process. Monthly Notices of the Royal Astronomical Society, 2007, 379, 932-944.	4.4	36
52	Frequency dependence of the drifting subpulses of PSRÂB0031-07. Astronomy and Astrophysics, 2005, 440, 683-692.	5.1	48
53	Comparing geometrical and delay radio emission heightsÂinÂpulsars. Astronomy and Astrophysics, 2004, 421, 215-228.	5.1	69
54	Toward an Empirical Theory of Pulsar Emission. VII. On the Spectral Behavior of Conal Beam Radii and Emission Heights. Astrophysical Journal, 2002, 577, 322-336.	4.5	113

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55	Modelling of the surface magnetic field in neutron stars: Application to radio pulsars. Astronomy and Astrophysics, 2002, 388, 235-245.	5.1	56
56	Vacuum Gaps in Pulsars and PSR J2144â˜3933. Astrophysical Journal, 2001, 550, 383-391.	4.5	58
57	Evolution of the multipolar magnetic field in isolated neutron stars. Monthly Notices of the Royal Astronomical Society, 1999, 307, 459-462.	4.4	27
58	Young radio-loud gamma-ray pulsar light curve fitting. Astronomy and Astrophysics, 0, , .	5.1	6