Aditya Parthasarathy

List of Publications by Year
in descending order

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45 papers	3,646 citations	236925 25 h-index	243625 44 g-index
46 all docs	46 docs citations	46 times ranked	2266 citing authors

#	Article	IF	Citations
1	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4873-4887.	4.4	174
2	High-precision search for dark photon dark matter with the Parkes Pulsar Timing Array. Physical Review Research, 2022, 4, .	3.6	16
3	A Detection of Red Noise in PSR J1824â€“2452A and Projections for PSR B1937+21 Using NICER X-Ray Timing Data. Astrophysical Journal, 2022, 928, 67.	4.5	3
4	A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background. Science, 2022, 376, 521-523.	12.6	14
5	Discoveries and timing of pulsars in NGC 6440. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1386-1399.	4.4	7
6	The MeerTime Pulsar Timing Array: A census of emission properties and timing potential. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	24
7	Identifying and mitigating noise sources in precision pulsar timing data sets. Monthly Notices of the Royal Astronomical Society, 2021, 502, 478-493.	4.4	47
8	Measurements of pulse jitter and single-pulse variability in millisecond pulsars using MeerKAT. Monthly Notices of the Royal Astronomical Society, 2021, 502, 407-422.	4.4	25
9	Common-red-signal analysis with 24-yr high-precision timing of the European Pulsar Timing Array: inferences in the stochastic gravitational-wave background search. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4970-4993.	4.4	184
10	The relativistic binary programme on MeerKAT: science objectives and first results. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2094-2114.	4.4	27
11	Multifrequency observations of SGRâ€‰J1935+2154. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5367-5384.	4.4	22
12	A polarization census of bright pulsars using the ultrawideband receiver on the Parkes radio telescope. Monthly Notices of the Royal Astronomical Society, 2021, 504, 228-247.	4.4	12
13	Eight new millisecond pulsars from the first MeerKAT globular cluster census. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1407-1426.	4.4	47
14	The Thousand-Pulsar-Array programme on MeerKAT â€“ V. Scattering analysis of single-component pulsars. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1115-1128.	4.4	19
15	The Thousand-Pulsar-Array programme on MeerKAT â€“ II. Observing strategy for pulsar monitoring with subarrays. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4456-4467.	4.4	6
16	The thousand-pulsar-array programme on MeerKAT IV: Polarization properties of young, energetic pulsars. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4483-4495.	4.4	20
17	Refined Mass and Geometric Measurements of the High-mass PSR J0740+6620. Astrophysical Journal Letters, 2021, 915, L12.	8.3	416
18	On the Evidence for a Common-spectrum Process in the Search for the Nanohertz Gravitational-wave Background with the Parkes Pulsar Timing Array. Astrophysical Journal Letters, 2021, 917, L19.	8.3	217

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19	The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. Astrophysical Journal Letters, 2021, 918, L28.	8.3	556
20	The impact of glitches on young pulsar rotational evolution. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3251-3274.	4.4	34
21	A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. Astrophysical Journal Letters, 2021, 918, L27.	8.3	544
22	Two years of pulsar observations with the ultra-wide-band receiver on the Parkes radio telescope. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1253-1262.	4.4	21
23	Noise analysis in the European Pulsar Timing Array data release 2 and its implications on the gravitational-wave background search. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5538-5558.	4.4	28
24	The thousand-pulsar-array programme on MeerKAT VII: polarisation properties of pulsars in the Magellanic Clouds. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5209-5217.	4.4	4
25	The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	108
26	High-cadence observations and variable spin behaviour of magnetar Swift J1818.0â˜1607 after its outburst. Monthly Notices of the Royal Astronomical Society, 2020, 498, 6044-6056.	4.4	20
27	The Thousand-Pulsar-Array programme on MeerKAT â€“ I. Science objectives and first results. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3608-3615.	4.4	30
28	The Parkes Pulsar Timing Array project: second data release. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	107
29	The UTMOST pulsar timing programme â€“ II. Timing noise across the pulsar population. Monthly Notices of the Royal Astronomical Society, 2020, 494, 228-245.	4.4	46
30	Timing of young radio pulsars â€“ II. Braking indices and their interpretation. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2012-2026.	4.4	33
31	Probing the extragalactic fast transient sky at minute time-scales with DECam. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5852-5866.	4.4	22
32	The UTMOST survey for magnetars, intermittent pulsars, RRATs, and FRBs â€“ I. System description and overview. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4752-4767.	4.4	6
33	Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437â€“4715. Astrophysical Journal, 2020, 904, 104.	4.5	39
34	Five new real-time detections of fast radio bursts with UTMOST. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2989-3002.	4.4	49
35	Commensal discovery of four fast radio bursts during Parkes Pulsar Timing Array observations. Monthly Notices of the Royal Astronomical Society, 2019, 488, 868-875.	4.4	31
36	The International Pulsar Timing Array: second data release. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4666-4687.	4.4	191

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37	Timing of young radio pulsars â€“ I. Timing noise, periodic modulation, and proper motion. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3810-3826.	4.4	63
38	The UTMOST pulsar timing programme I: Overview and first results. Monthly Notices of the Royal Astronomical Society, 2019, 484, 3691-3712.	4.4	52
39	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. Physical Review D, 2018, 98, .	4.7	72
40	FRB microstructure revealed by the real-time detection of FRB170827. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1209-1217.	4.4	107
41	Detection of a Glitch in the Pulsar J1709â˜’4429. Research Notes of the AAS, 2018, 2, 139.	0.7	9
42	The UTMOST: A Hybrid Digital Signal Processor Transforms the Molonglo Observatory Synthesis Telescope. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	59
43	The first interferometric detections of fast radio bursts. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3746-3756.	4.4	115
44	First interferometric detections of Fast Radio Bursts. Proceedings of the International Astronomical Union, 2017, 13, 322-323.	0.0	0
45	The Thousand-Pulsar-Array programme on MeerKAT â€“ VI. Pulse widths of a large and diverse sample of radio pulsars. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19