

Aditya Parthasarathy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4378310/publications.pdf>

Version: 2024-02-01

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 Radius of PSR J0740+6620 from NICER and XMM-Newton Data. <i>Astrophysical Journal Letters</i> , 2021, 918, L28.	8.3	556
2	A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. <i>Astrophysical Journal Letters</i> , 2021, 918, L27.	8.3	544
3	Refined Mass and Geometric Measurements of the High-mass PSR J0740+6620. <i>Astrophysical Journal Letters</i> , 2021, 915, L12.	8.3	416
4	On the Evidence for a Common-spectrum Process in the Search for the Nanohertz Gravitational-wave Background with the Parkes Pulsar Timing Array. <i>Astrophysical Journal Letters</i> , 2021, 917, L19.	8.3	217
5	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4666-4687.	4.4	191
6	Common-red-signal analysis with 24-yr high-precision timing of the European Pulsar Timing Array: inferences in the stochastic gravitational-wave background search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4970-4993.	4.4	184
7	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4873-4887.	4.4	174
8	The first interferometric detections of fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3746-3756.	4.4	115
9	The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	108
10	FRB microstructure revealed by the real-time detection of FRB170827. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 1209-1217.	4.4	107
11	The Parkes Pulsar Timing Array project: second data release. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	107
12	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. <i>Physical Review D</i> , 2018, 98, .	4.7	72
13	Timing of young radio pulsars “ I. Timing noise, periodic modulation, and proper motion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 3810-3826.	4.4	63
14	The UTMOST: A Hybrid Digital Signal Processor Transforms the Molonglo Observatory Synthesis Telescope. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	3.4	59
15	The UTMOST pulsar timing programme I: Overview and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3691-3712.	4.4	52
16	Five new real-time detections of fast radio bursts with UTMOST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2989-3002.	4.4	49
17	Identifying and mitigating noise sources in precision pulsar timing data sets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 478-493.	4.4	47
18	Eight new millisecond pulsars from the first MeerKAT globular cluster census. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1407-1426.	4.4	47

#	ARTICLE	IF	CITATIONS
19	The UTMOST pulsar timing programme – II. Timing noise across the pulsar population. Monthly Notices of the Royal Astronomical Society, 2020, 494, 228-245.	4.4	46
20	Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437–4715. Astrophysical Journal, 2020, 904, 104.	4.5	39
21	The impact of glitches on young pulsar rotational evolution. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3251-3274.	4.4	34
22	Timing of young radio pulsars – II. Braking indices and their interpretation. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2012-2026.	4.4	33
23	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
24	The Thousand-Pulsar-Array programme on MeerKAT – I. Science objectives and first results. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3608-3615.	4.4	30
25	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
26	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
27	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
28	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
29	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
30	Multifrequency observations of SGR J1935+2154. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5367-5384.	4.4	22
31	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
32	High-cadence observations and variable spin behaviour of magnetar Swift J1818.0–1607 after its outburst. Monthly Notices of the Royal Astronomical Society, 2020, 498, 6044-6056.	4.4	20
33	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
34	The Thousand-Pulsar-Array programme on MeerKAT – VI. Pulse widths of a large and diverse sample of radio pulsars. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19
35	The Thousand-Pulsar-Array programme on MeerKAT – V. Scattering analysis of single-component pulsars. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1115-1128.	4.4	19
36	High-precision search for dark photon dark matter with the Parkes Pulsar Timing Array. Physical Review Research, 2022, 4, .	3.6	16

#	ARTICLE	IF	CITATIONS
37	A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background. <i>Science</i> , 2022, 376, 521-523.	12.6	14
38	A polarization census of bright pulsars using the ultrawideband receiver on the Parkes radio telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 228-247.	4.4	12
39	Detection of a Glitch in the Pulsar J1709 ⁺ 4429. <i>Research Notes of the AAS</i> , 2018, 2, 139.	0.7	9
40	Discoveries and timing of pulsars in NGC 6440. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1386-1399.	4.4	7
41	The UTMOST survey for magnetars, intermittent pulsars, RRATs, and FRBs – I. System description and overview. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 4752-4767.	4.4	6
42	The Thousand-Pulsar-Array programme on MeerKAT – II. Observing strategy for pulsar monitoring with subarrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4456-4467.	4.4	6
43	The thousand-pulsar-array programme on MeerKAT VII: polarisation properties of pulsars in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 5209-5217.	4.4	4
44	A Detection of Red Noise in PSR J1824 ⁺ 2452A and Projections for PSR B1937+21 Using NICER X-Ray Timing Data. <i>Astrophysical Journal</i> , 2022, 928, 67.	4.5	3
45	First interferometric detections of Fast Radio Bursts. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 322-323.	0.0	0