

# Ramesh Karuppusamy

## List of Publications by Year in descending order

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107  
papers

13,749  
citations

41339

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28296

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107  
docs citations

107  
times ranked

5756  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
2	Submillimeter Pulsations from the Magnetar XTE J1810-197. <i>Astrophysical Journal Letters</i> , 2022, 925, L17.	8.3	5
3	Burst timescales and luminosities as links between young pulsars and fast radio bursts. <i>Nature Astronomy</i> , 2022, 6, 393-401.	10.1	46
4	A repeating fast radio burst source in a globular cluster. <i>Nature</i> , 2022, 602, 585-589.	27.8	110
5	Two New Black Widow Millisecond Pulsars in M28. <i>Astrophysical Journal</i> , 2022, 927, 126.	4.5	8
6	Milliarcsecond Localization of the Repeating FRB 20201124A. <i>Astrophysical Journal Letters</i> , 2022, 927, L3.	8.3	28
7	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
8	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
9	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
10	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
11	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
12	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
13	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
14	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
15	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
16	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
17	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
18	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215

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19	Multifrequency observations of SGR J1935+2154. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5367-5384.	4.4	22
20	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
21	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
22	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
23	Highly polarized microstructure from the repeating FRB 20180916B. Nature Astronomy, 2021, 5, 594-603.	10.1	66
24	LOFAR Detection of 110 MHz Emission and Frequency-dependent Activity from FRB 20180916B. Astrophysical Journal Letters, 2021, 911, L3.	8.3	99
25	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
26	Constraints on black-hole charges with the 2017 EHT observations of M87*. Physical Review D, 2021, 103, .	4.7	126
27	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
28	An 86 GHz Search for Pulsars in the Galactic Center with the Atacama Large Millimeter / submillimeter Array. Astrophysical Journal, 2021, 914, 30.	4.5	13
29	Searching for pulsars in the Galactic centre at 3 and 2 mm. Astronomy and Astrophysics, 2021, 650, A95.	5.1	16
30	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
31	Multi-epoch searches for relativistic binary pulsars and fast transients in the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5053-5068.	4.4	11
32	Wide Field Beamformed Observation with MeerKAT. Journal of Astronomical Instrumentation, 2021, 10, .	1.5	16
33	Strong-Field Gravity Tests with the Double Pulsar. Physical Review X, 2021, 11, .	8.9	97
34	A repeating fast radio burst source localized to a nearby spiral galaxy. Nature, 2020, 577, 190-194.	27.8	297
35	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. Physical Review Letters, 2020, 125, 141104.	7.8	190
36	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

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37	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
38	Measuring interstellar delays of PSR J0613+0200 over 7Åyr, using the Large European Array for Pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1468-1479.	4.4	27
39	High-cadence observations and variable spin behaviour of magnetar Swift J1818.0+1607 after its outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 6044-6056.	4.4	20
40	Timing stability of three black widow pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2591-2599.	4.4	7
41	Periodic activity from a fast radio burst source. <i>Nature</i> , 2020, 582, 351-355.	27.8	231
42	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
43	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
44	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020, 636, A5.	5.1	18
45	Detection of the magnetar XTE J1810+197 at 150 and 260GHz with the NIKA2 kinetic inductance detector camera. <i>Astronomy and Astrophysics</i> , 2020, 640, L2.	5.1	14
46	Revisiting profile instability of PSR J1022+1001. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1178-1187.	4.4	9
47	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
48	Simultaneous X-Ray and Radio Observations of the Repeating Fast Radio Burst FRB 180916.J0158+65. <i>Astrophysical Journal</i> , 2020, 901, 165.	4.5	38
49	Discovery of a Gamma-Ray Black Widow Pulsar by GPU-accelerated Einstein@Home. <i>Astrophysical Journal Letters</i> , 2020, 902, L46.	8.3	42
50	Spin frequency evolution and pulse profile variations of the recently re-activated radio magnetar XTE J1810+197. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5251-5258.	4.4	30
51	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
52	Resolving the Decades-long Transient FIRST J141918.9+394036: An Orphan Long Gamma-Ray Burst or a Young Magnetar Nebula?. <i>Astrophysical Journal Letters</i> , 2019, 876, L14.	8.3	19
53	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4666-4687.	4.4	191
54	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519

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55	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
56	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
57	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
58	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
59	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
60	Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA. <i>Astrophysical Journal Letters</i> , 2019, 885, L10.	8.3	9
61	Tests of gravitational symmetries with pulsar binary J1713+0747. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3249-3260.	4.4	73
62	Large Magneto-ionic Variations toward the Galactic Center Magnetar, PSR J1745-2900. <i>Astrophysical Journal Letters</i> , 2018, 852, L12.	8.3	50
63	Improving timing sensitivity in the microhertz frequency regime: limits from PSR J1713+0747 on gravitational waves produced by supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 218-227.	4.4	22
64	The Enigmatic Compact Radio Source Coincident with the Energetic X-Ray Pulsar PSR J1813-1749 and HESS J1813-178. <i>Astrophysical Journal</i> , 2018, 866, 100.	4.5	9
65	Revival of the Magnetar PSR J1622-4950: Observations with MeerKAT, Parkes, XMM-Newton, Swift, Chandra, and NuSTAR. <i>Astrophysical Journal</i> , 2018, 856, 180.	4.5	108
66	Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5501-5516.	4.4	36
67	The beamformer and correlator for the Large European Array for Pulsars. <i>Astronomy and Computing</i> , 2017, 19, 66-74.	1.7	10
68	A transient, flat spectrum radio pulsar near the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 1486-1492.	4.4	7
69	The discovery of two mildly recycled binary pulsars in the Northern High Time Resolution Universe pulsar survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4421-4433.	4.4	15
70	Detection of the magnetar SGR J1745-2900 up to 291 GHz with evidence of polarized millimetre emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 242-247.	4.4	35
71	PSR B0329+54: substructure in the scatter-broadened image discovered with RadioAstron on baselines up to 330,000 km. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 978-985.	4.4	39
72	Pulsar Searches with the SKA. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 171-174.	0.0	18

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73	PSR B0329+54: STATISTICS OF SUBSTRUCTURE DISCOVERED WITHIN THE SCATTERING DISK ON RADIOASTRON BASELINES OF UP TO 235,000 km. <i>Astrophysical Journal</i> , 2016, 822, 96.	4.5	22
74	21 $\hat{A}$ year timing of the black-widow pulsar J2051 $\hat{a}$ ~0827. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 1029-1038.	4.4	36
75	High-precision timing of 42 millisecond pulsars with the European Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3341-3380.	4.4	351
76	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	4.4	332
77	Variability, polarimetry, and timing properties of single pulses from PSR J1713+0747 using the Large European Array for Pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3239-3248.	4.4	21
78	A glitch in the millisecond pulsar J0613 $\hat{a}$ ~0200. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 2809-2817.	4.4	60
79	Studies of cosmic plasma using radioastron VLBI observations of giant pulses of the pulsar B0531+21. <i>Astronomy Reports</i> , 2016, 60, 211-219.	0.9	12
80	A millisecond pulsar in an extremely wide binary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 2207-2222.	4.4	41
81	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2161-2187.	4.4	82
82	The noise properties of 42 millisecond pulsars from the European Pulsar Timing Array and their impact on gravitational-wave searches. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4421-4440.	4.4	48
83	Prospects for high-precision pulsar timing with the new Effelsberg PSRIX backend. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 868-880.	4.4	96
84	LEAP: the Large European Array for Pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2196-2209.	4.4	72
85	European Pulsar Timing Array limits on continuous gravitational waves from individual supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1665-1679.	4.4	149
86	Simultaneous multifrequency radio observations of the Galactic Centre magnetar SGR J1745 $\hat{a}$ ~2900. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 451, L50-L54.	3.3	46
87	Single-pulse and profile-variability study of PSR J1022+1001. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1158-1169.	4.4	20
88	FREQUENCY INDEPENDENT QUENCHING OF PULSED EMISSION. <i>Astrophysical Journal</i> , 2014, 797, 18.	4.5	28
89	Measuring pulse times of arrival from broad-band pulsar observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 3752-3760.	4.4	56
90	<i>RADIOASTRON</i> STUDIES OF THE NEARBY, TURBULENT INTERSTELLAR PLASMA WITH THE LONGEST SPACE-GROUND INTERFEROMETER BASELINE. <i>Astrophysical Journal</i> , 2014, 786, 115.	4.5	24

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91	Model-based asymptotically optimal dispersion measure correction for pulsar timing. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2831-2844.	4.4	43
92	PULSE BROADENING MEASUREMENTS FROM THE GALACTIC CENTER PULSAR J1745-2900. Astrophysical Journal Letters, 2014, 780, L3.	8.3	75
93	A 24 HR GLOBAL CAMPAIGN TO ASSESS PRECISION TIMING OF THE MILLISECOND PULSAR J1713+0747. Astrophysical Journal, 2014, 794, 21.	4.5	37
94	Summary of session C1: pulsar timing arrays. General Relativity and Gravitation, 2014, 46, 1.	2.0	0
95	A strong magnetic field around the supermassive black hole at the centre of the Galaxy. Nature, 2013, 501, 391-394.	27.8	340
96	EINSTEIN@HOME DISCOVERY OF FOUR YOUNG GAMMA-RAY PULSARS IN <i>FERMI</i> LAT DATA. Astrophysical Journal Letters, 2013, 779, L11.	8.3	34
97	The Northern High Time Resolution Universe pulsar survey â€œ I. Setup and initial discoveries. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2234-2245.	4.4	91
98	peace: pulsar evaluation algorithm for candidate extraction â€œ a software package for post-analysis processing of pulsar survey candidates. Monthly Notices of the Royal Astronomical Society, 2013, 433, 688-694.	4.4	48
99	Can we see pulsars around Sgr Aâ†? The latest searches with the Effelsberg telescope.. Proceedings of the International Astronomical Union, 2012, 8, 382-384.	0.0	2
100	Crab giant pulses at low frequencies. Astronomy and Astrophysics, 2012, 538, A7.	5.1	26
101	The optimal schedule for pulsar timing array observations. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2642-2655.	4.4	39
102	A low frequency study of PSRs B1133+16, B1112+50, and B0031+07. Astronomy and Astrophysics, 2011, 525, A55.	5.1	30
103	Gravitational wave astronomy of single sources with a pulsar timing array. Monthly Notices of the Royal Astronomical Society, 2011, 414, 3251-3264.	4.4	120
104	Giant pulses from the Crab pulsar. Astronomy and Astrophysics, 2010, 515, A36.	5.1	74
105	The European Pulsar Timing Array: current efforts and a LEAP toward the future. Classical and Quantum Gravity, 2010, 27, 084014.	4.0	101
106	PuMa-II: A Wide Band Pulsar Machine for the Westerbork Synthesis Radio Telescope. Publications of the Astronomical Society of the Pacific, 2008, 120, 191-202.	3.1	73
107	Giant Pulses in Crab and B1133+16. AIP Conference Proceedings, 2008, , .	0.4	0