

Gopal Narayanan

List of Publications by Year in descending order

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47
papers

9,446
citations

136950

32
h-index

233421

45
g-index

47
all docs

47
docs citations

47
times ranked

4470
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
6	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
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
8	Large-scale Structure of the Molecular Gas in Taurus Revealed by High Linear Dynamic Range Spectral Line Mapping. <i>Astrophysical Journal</i> , 2008, 680, 428-445.	4.5	364
9	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
10	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
11	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
12	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	7.8	190
13	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
14	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
15	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
16	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
17	The Five College Radio Astronomy Observatory CO Mapping Survey of the Taurus Molecular Cloud. <i>Astrophysical Journal, Supplement Series</i> , 2008, 177, 341-361.	7.7	96
18	A dusty star-forming galaxy at $z = 6$ revealed by strong gravitational lensing. <i>Nature Astronomy</i> , 2018, 2, 56-62.	10.1	74

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19	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
20	Spectroscopic signatures of infall in young protostellar systems. <i>Astrophysical Journal</i> , 1994, 431, 767.	4.5	66
21	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
22	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
23	Evidence for Multiple Outbursts from the Cepheus A Molecular Outflow. <i>Astrophysical Journal</i> , 1996, 466, 844.	4.5	54
24	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
25	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
26	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
27	THE REDSHIFT SEARCH RECEIVER OBSERVATIONS OF $z \approx 1$ CO IN 29 ULTRALUMINOUS INFRARED GALAXIES. <i>Astronomical Journal</i> , 2009, 138, 858-872.	4.7	40
28	Star Formation in Bright-rimmed Clouds. I. Millimeter and Submillimeter Molecular Line Surveys. <i>Astrophysical Journal</i> , 2002, 577, 798-825.	4.5	39
29	The “Blue-Bulge” Infall Signature toward IRAS 16293–2422. <i>Astrophysical Journal</i> , 1998, 496, 292-310.	4.5	38
30	First-Overtone CO Variability in Young Stellar Objects. <i>Astrophysical Journal</i> , 1997, 491, 359-365.	4.5	37
31	Entrainment Mechanisms for Outflows in the L1551 Star-forming Region. <i>Astrophysical Journal</i> , 2006, 649, 280-298.	4.5	37
32	Molecular outflows identified in the FCRAO CO survey of the Taurus Molecular Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2641-2667.	4.4	35
33	Early Science with the Large Millimeter Telescope: COOL BUDHIES I – a pilot study of molecular and atomic gas at $z \approx 0.2$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3287-3306.	4.4	33
34	THE INTRINSIC SHAPE OF SAGITTARIUS A* AT 3.5 mm WAVELENGTH. <i>Astrophysical Journal</i> , 2016, 824, 40.	4.5	31
35	The Large Millimeter Telescope. <i>Proceedings of SPIE</i> , 2010, , .	0.8	23
36	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Multiple Parsec-Scale Outflows in the NGC 2071 Cluster. <i>Astrophysical Journal</i> , 2008, 679, 557-569.	4.5	14
40	EARLY SCIENCE WITH THE LARGE MILLIMETER TELESCOPE: EXPLORING THE EFFECT OF AGN ACTIVITY ON THE RELATIONSHIPS BETWEEN MOLECULAR GAS, DUST, AND STAR FORMATION. <i>Astrophysical Journal</i> , 2014, 796, 135.	4.5	13
41	A Parameterized Study of the Detection of Infall in Protostellar Systems. <i>Astrophysical Journal</i> , 1998, 508, 780-790.	4.5	9
42	The Detection of [C i] in Molecular Outflows Associated with Young Stellar Objects. <i>Astrophysical Journal</i> , 1993, 415, 672.	4.5	7
43	Kinematics of Protostellar Objects in the ρ -Ophiuchus A Region. <i>Astrophysical Journal</i> , 2006, 647, 1170-1179.	4.5	6
44	Discovery of a Molecular Outflow in the Haro 6 Star-forming Region. <i>Astrophysical Journal</i> , 2007, 660, 418-425.	4.5	5
45	The Dense Gas Mass Fraction and the Relationship to Star Formation in M51. <i>Astrophysical Journal</i> , 2022, 930, 170.	4.5	5
46	Spectra of nearby galaxies measured with a new very broadband receiver. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 251-256.	0.0	0
47	Errata The α -Blue Bulge Infall Signature Toward IRAS 16293-2422. <i>Astrophysical Journal</i> , 2000, 530, 1105-1105.	4.5	0