

Narsireddy Anugu

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,492
citations

840776

11
h-index

477307

29
g-index

49
all docs

49
docs citations

49
times ranked

2219
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of the gravitational redshift in the orbit of the star S2 near the Galactic centre massive black hole. <i>Astronomy and Astrophysics</i> , 2018, 615, L15.	5.1	593
2	First light for GRAVITY: Phase referencing optical interferometry for the Very Large Telescope Interferometer. <i>Astronomy and Astrophysics</i> , 2017, 602, A94.	5.1	333
3	First direct detection of an exoplanet by optical interferometry. <i>Astronomy and Astrophysics</i> , 2019, 623, L11.	5.1	95
4	A triple-star system with a misaligned and warped circumstellar disk shaped by disk tearing. <i>Science</i> , 2020, 369, 1233-1238.	12.6	63
5	A dusty veil shading Betelgeuse during its Great Dimming. <i>Nature</i> , 2021, 594, 365-368.	27.8	55
6	MIRC-X: A Highly Sensitive Six-telescope Interferometric Imager at the CHARA Array. <i>Astronomical Journal</i> , 2020, 160, 158.	4.7	44
7	A High-mass Protobinary System with Spatially Resolved Circumstellar Accretion Disks and Circumbinary Disk*. <i>Astrophysical Journal Letters</i> , 2017, 835, L5.	8.3	33
8	Methods for multiple-telescope beam imaging and guiding in the near-infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 459-469.	4.4	30
9	Multiple star systems in the Orion nebula. <i>Astronomy and Astrophysics</i> , 2018, 620, A116.	5.1	23
10	The orbit and stellar masses of the archetype colliding-wind binary WR 140. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 5221-5230.	4.4	19
11	Interferometric Detections of sdO Companions Orbiting Three Classical Be Stars. <i>Astrophysical Journal</i> , 2022, 926, 213.	4.5	19
12	Submilliarcsecond Optical Interferometry of the High-mass X-Ray Binary BP Cru with VLTI/GRAVITY. <i>Astrophysical Journal</i> , 2017, 844, 72.	4.5	18
13	Peak-locking centroid bias in Shack-Hartmann wavefront sensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 300-306.	4.4	13
14	Viscous heating in the disk of the outbursting star FU Orionis. <i>Astronomy and Astrophysics</i> , 2021, 646, A102.	5.1	13
15	The MIRC-X 6-telescope imager: Key science drivers, instrument design and operation. , 2018, , .		12
16	½ Gem: A Hierarchical Triple System with an Outer Be Star. <i>Astrophysical Journal</i> , 2021, 916, 24.	4.5	11
17	MIRC-X/CHARA: sensitivity improvements with an ultra-low noise SAPHIRA detector. , 2018, , .		11
18	Accretion-ejection morphology of the microquasar SS 433 resolved at sub-au scale. <i>Astronomy and Astrophysics</i> , 2017, 602, L11.	5.1	10

#	ARTICLE	IF	CITATIONS
19	ARMADA. I. Triple Companions Detected in B-type Binaries $\hat{\iota}$ Del and $\hat{\iota}$ Gem. <i>Astronomical Journal</i> , 2021, 161, 40.	4.7	10
20	EXPRES. III. Revealing the Stellar Activity Radial Velocity Signature of $\hat{\iota}$ Eridani with Photometry and Interferometry. <i>Astronomical Journal</i> , 2022, 163, 19.	4.7	10
21	MYSTIC: Michigan Young STar Imager at CHARA. , 2018, , .		9
22	Optical interferometry and <i>Gaia</i> measurement uncertainties reveal the physics of asymptotic giant branch stars. <i>Astronomy and Astrophysics</i> , 2020, 640, A23.	5.1	9
23	The First Dynamical Mass Determination of a Nitrogen-rich Wolf-Rayet Star Using a Combined Visual and Spectroscopic Orbit. <i>Astrophysical Journal Letters</i> , 2021, 908, L3.	8.3	8
24	GRAVITY chromatic imaging of $\hat{\iota}$ Car's core. <i>Astronomy and Astrophysics</i> , 2018, 618, A125.	5.1	6
25	Astronomical interferometry with near-IR e-APD at CHARA: characterization, optimization and on-sky operation. , 2018, , .		6
26	The final design of the GRAVITY acquisition camera and associated VLTI beam monitoring strategy. <i>Proceedings of SPIE</i> , 2012, , .	0.8	5
27	CHARA array adaptive optics: complex operational software and performance. , 2020, , .		5
28	Modeling the e-APD SAPHIRA/C-RED ONE camera at low flux level. <i>Astronomy and Astrophysics</i> , 2019, 625, A38.	5.1	4
29	Study of atmospheric turbulence with Shack Hartmann wavefront sensor. <i>Journal of Optics (India)</i> , 2013, 42, 128-140.	1.7	3
30	The Interferometric Binary $\hat{\iota}$ Cnc in Praesepe: Precise Masses and Age. <i>Astronomical Journal</i> , 2022, 164, 34.	4.7	3
31	The wind and the magnetospheric accretion onto the T Tauri star S Coronae Australis at sub-au resolution. <i>Astronomy and Astrophysics</i> , 2017, 608, A78.	5.1	2
32	Overview and prospects of the LBTI beyond the completed HOSTS survey. , 2020, , .		2
33	Development and status of MAPS, the MMT AO exoPlanet characterization system. , 2020, , .		2
34	Laboratory testing and calibration of the upgraded MMT adaptive secondary mirror. , 2020, , .		2
35	VLTI images of circumbinary disks around evolved stars. , 2020, , .		2
36	Scattering and sublimation: a multiscale view of $\hat{\mu}$ m-sized dust in the inclined disc of HD 145718. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2434-2452.	4.4	2

#	ARTICLE	IF	CITATIONS
37	The GRAVITY/VLTI acquisition camera software. Proceedings of SPIE, 2014, , .	0.8	1
38	Integration and testing of the GRAVITY infrared camera for multiple telescope optical beam analysis. Proceedings of SPIE, 2014, , .	0.8	1
39	GRAVITY acquisition camera: characterization results. , 2016, , .		1
40	Progress of the CHARA/SPICA project. , 2020, , .		1
41	Betelgeuse scope: single-mode-fibers-assisted optical interferometer design for dedicated stellar activity monitoring. , 2020, , .		1
42	MIRC-X polarinterferometry at CHARA. , 2020, , .		1
43	CHARA/MIRC-X: a high-sensitive six telescope interferometric imager concept, commissioning and early science. , 2020, , .		1
44	The GRAVITY instrument software/high-level software. , 2014, , .		0
45	The GRAVITY instrument software/hardware related aspects. Proceedings of SPIE, 2014, , .	0.8	0
46	Near-infrared aberration tracking using a correlation algorithm on the Galactic Center. , 2014, , .		0
47	A Low Cost Auto-filling and Refrigeration Rate Regulated Liquid Nitrogen Controller for Near Infrared Instruments. U Porto Journal of Engineering, 2015, 1, 45-51.	0.4	0
48	A new frontier for J-band interferometry: dual-band NIR interferometry with MIRC-X. , 2020, , .		0
49	Design and development of a high-speed visible pyramid wavefront sensor for the MMT AO system. , 2020, , .		0