

# Gautham Narayan

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

6,291  
citations

38  
h-index

79  
g-index

82  
ext. papers

7,557  
ext. citations

6.3  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
78	A hierarchical Bayesian SED model for Type Ia supernovae in the optical to near-infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2022</b> , 510, 3939-3966	4.3	2
77	Optical Rebrightening of Extragalactic Transients from the Zwicky Transient Facility. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 926, L11	7.9	0
76	AT 2020iko: A WZ Sge-type Dwarf Nova Candidate with an Anomalous Precursor Event. <i>Astronomical Journal</i> , <b>2021</b> , 161, 15	4.9	3
75	Witnessing history: sky distribution, detectability, and rates of naked-eye Milky Way supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 927-943	4.3	1
74	The ANTARES Astronomical Time-domain Event Broker. <i>Astronomical Journal</i> , <b>2021</b> , 161, 107	4.9	8
73	The Young Supernova Experiment: Survey Goals, Overview, and Operations. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 143	4.7	11
72	GHOST: Using Only Host Galaxy Information to Accurately Associate and Distinguish Supernovae. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 170	4.7	6
71	SN2017jgh: a high-cadence complete shock cooling light curve of a SN IIb with the Kepler telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 3125-3138	4.3	1
70	SN 2018agk: A Prototypical Type Ia Supernova with a Smooth Power-law Rise in Kepler (K2). <i>Astrophysical Journal</i> , <b>2021</b> , 923, 167	4.7	3
69	A Classification Algorithm for Time-domain Novelties in Preparation for LSST Alerts. Application to Variable Stars and Transients Detected with DECam in the Galactic Bulge. <i>Astrophysical Journal</i> , <b>2020</b> , 892, 112	4.7	6
68	Delay Time Distributions of Type Ia Supernovae from Galaxy and Cosmic Star Formation Histories. <i>Astrophysical Journal</i> , <b>2020</b> , 890, 140	4.7	11
67	Optical Polarimetry of the Tidal Disruption Event AT2019DSG. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 892, L1	7.9	7
66	ZTF18abhjrcf: The First R Coronae Borealis Star from the Zwicky Transient Facility Public Survey. <i>Astronomical Journal</i> , <b>2020</b> , 159, 61	4.9	2
65	The Pan-STARRS1 Database and Data Products. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 251, 7	8	121
64	Constraining Type Ia supernova progenitor systems with stellar population age dating. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 986-1002	4.3	7
63	Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh with Early Excess Emission from the Kepler 2 Observations. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 12	4.7	34
62	RAPID: Early Classification of Explosive Transients Using Deep Learning. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2019</b> , 131, 118002	5	58

61	Subpercent Photometry: Faint DA White Dwarf Spectrophotometric Standards for Astrophysical Observatories. <i>Astrophysical Journal, Supplement Series</i> , <b>2019</b> , 241, 20	8	16
60	Mapping the Interstellar Reddening and Extinction toward Baade's Window Using Minimum Light Colors of ab-type RR Lyrae Stars: Revelations from the De-reddened Color-Magnitude Diagrams. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 30	4.7	13
59	Photometry and Spectroscopy of Faint Candidate Spectrophotometric Standard DA White Dwarfs. <i>Astrophysical Journal</i> , <b>2019</b> , 872, 199	4.7	4
58	Presto-Color: A Photometric Survey Cadence for Explosive Physics and Fast Transients. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2019</b> , 131, 068002	5	9
57	Overview of the DESI Legacy Imaging Surveys. <i>Astronomical Journal</i> , <b>2019</b> , 157, 168	4.9	363
56	Seeing Double: ASASSN-18bt Exhibits a Two-component Rise in the Early-time K2 Light Curve. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 13	4.7	43
55	K2 Observations of SN 2018oh Reveal a Two-component Rising Light Curve for a Type Ia Supernova. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 870, L1	7.9	38
54	A machine learning classifier for microlensing in wide-field surveys. <i>Astronomy and Computing</i> , <b>2019</b> , 28, 100298	2.4	8
53	Models and Simulations for the Photometric LSST Astronomical Time Series Classification Challenge (PLAsTiCC). <i>Publications of the Astronomical Society of the Pacific</i> , <b>2019</b> , 131, 094501	5	47
52	The Photometric LSST Astronomical Time-series Classification Challenge PLAsTiCC: Selection of a Performance Metric for Classification Probabilities Balancing Diverse Science Goals. <i>Astronomical Journal</i> , <b>2019</b> , 158, 171	4.9	10
51	The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope. <i>Astrophysical Journal</i> , <b>2019</b> , 881, 19	4.7	35
50	ANTARES: A gateway to ZTF and LSST alerts. <i>Proceedings of the International Astronomical Union</i> , <b>2019</b> , 15, 24-27	0.1	
49	Machine-learning-based Brokers for Real-time Classification of the LSST Alert Stream. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 236, 9	8	59
48	The Complete Light-curve Sample of Spectroscopically Confirmed SNe Ia from Pan-STARRS1 and Cosmological Constraints from the Combined Pantheon Sample. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 101	4.7	946
47	PanSTARRS1 Observations of the Kepler/K2 Campaign 16 and 17 Fields. <i>Research Notes of the AAS</i> , <b>2018</b> , 2, 178	0.8	4
46	MOSFiT: Modular Open Source Fitter for Transients. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 236, 6	8	73
45	Extending Supernova Spectral Templates for Next-generation Space Telescope Observations. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2018</b> , 130, 114504	5	13
44	Hydrogen-poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey. <i>Astrophysical Journal</i> , <b>2018</b> , 852, 81	4.7	68

43	Absolute Magnitudes and Colors of RR Lyrae Stars in DECam Passbands from Photometry of the Globular Cluster M5. <i>Astronomical Journal</i> , <b>2017</b> , 154, 85	4.9	14
42	THEGALEXTIME DOMAIN SURVEY. II. WAVELENGTH-DEPENDENT VARIABILITY OF ACTIVE GALACTIC NUCLEI IN THE PAN-STARRS1 MEDIUM DEEP SURVEY. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 226	4.7	9
41	LIGHT CURVES OF 213 TYPE Ia SUPERNOVAE FROM THE ESSENCE SURVEY. <i>Astrophysical Journal, Supplement Series</i> , <b>2016</b> , 224, 3	8	15
40	ANTARES: progress towards building a 'broker' of time-domain alerts <b>2016</b> ,		10
39	TOWARD A NETWORK OF FAINT DA WHITE DWARFS AS HIGH-PRECISION SPECTROPHOTOMETRIC STANDARDS. <i>Astrophysical Journal</i> , <b>2016</b> , 822, 67	4.7	14
38	TOWARD CHARACTERIZATION OF THE TYPE IIP SUPERNOVA PROGENITOR POPULATION: A STATISTICAL SAMPLE OF LIGHT CURVES FROM Pan-STARRS1. <i>Astrophysical Journal</i> , <b>2015</b> , 799, 208	4.7	130
37	THE CHANGING FRACTIONS OF TYPE IA SUPERNOVA NUVOPTICAL SUBCLASSES WITH REDSHIFT. <i>Astrophysical Journal</i> , <b>2015</b> , 803, 20	4.7	31
36	SELECTION OF BURST-LIKE TRANSIENTS AND STOCHASTIC VARIABLES USING MULTI-BAND IMAGE DIFFERENCING IN THE PAN-STARRS1 MEDIUM-DEEP SURVEY. <i>Astrophysical Journal</i> , <b>2015</b> , 802, 27	4.7	6
35	ZOOMING IN ON THE PROGENITORS OF SUPERLUMINOUS SUPERNOVAE WITH THEHST. <i>Astrophysical Journal</i> , <b>2015</b> , 804, 90	4.7	72
34	PS1-10jh CONTINUES TO FOLLOW THE FALLBACK ACCRETION RATE OF A TIDALLY DISRUPTED STAR. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 815, L5	7.9	32
33	CFAIR2: NEAR-INFRARED LIGHT CURVES OF 94 TYPE Ia SUPERNOVAE. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 9	8	47
32	COSMOLOGICAL CONSTRAINTS FROM MEASUREMENTS OF TYPE Ia SUPERNOVAE DISCOVERED DURING THE FIRST 1.5 yr OF THE Pan-STARRS1 SURVEY. <i>Astrophysical Journal</i> , <b>2014</b> , 795, 44	4.7	216
31	ANTARES: a prototype transient broker system <b>2014</b> ,		11
30	SYSTEMATIC UNCERTAINTIES ASSOCIATED WITH THE COSMOLOGICAL ANALYSIS OF THE FIRST PAN-STARRS1 TYPE Ia SUPERNOVA SAMPLE. <i>Astrophysical Journal</i> , <b>2014</b> , 795, 45	4.7	118
29	RAPIDLY EVOLVING AND LUMINOUS TRANSIENTS FROM PAN-STARRS1. <i>Astrophysical Journal</i> , <b>2014</b> , 794, 23	4.7	192
28	POSSIBLE DETECTION OF THE STELLAR DONOR OR REMNANT FOR THE TYPE Ia <sub>x</sub> SUPERNOVA 2008ha. <i>Astrophysical Journal</i> , <b>2014</b> , 792, 29	4.7	51
27	HYDROGEN-POOR SUPERLUMINOUS SUPERNOVAE AND LONG-DURATION GAMMA-RAY BURSTS HAVE SIMILAR HOST GALAXIES. <i>Astrophysical Journal</i> , <b>2014</b> , 787, 138	4.7	186
26	THE ULTRAVIOLET-BRIGHT, SLOWLY DECLINING TRANSIENT PS1-11af AS A PARTIAL TIDAL DISRUPTION EVENT. <i>Astrophysical Journal</i> , <b>2014</b> , 780, 44	4.7	144

25	Slowly fading super-luminous supernovae that are not pair-instability explosions. <i>Nature</i> , <b>2013</b> , 502, 346-354	9.4	197
24	PS1-10bjz: A FAST, HYDROGEN-POOR SUPERLUMINOUS SUPERNOVA IN A METAL-POOR HOST GALAXY. <i>Astrophysical Journal</i> , <b>2013</b> , 771, 97	4.7	70
23	PS1-10afx ATz= 1.388: PAN-STARRS1 DISCOVERY OF A NEW TYPE OF SUPERLUMINOUS SUPERNOVA. <i>Astrophysical Journal</i> , <b>2013</b> , 767, 162	4.7	51
22	SN 2010ay IS A LUMINOUS AND BROAD-LINED TYPE Ic SUPERNOVA WITHIN A LOW-METALLICITY HOST GALAXY. <i>Astrophysical Journal</i> , <b>2012</b> , 756, 184	4.7	41
21	ULTRALUMINOUS SUPERNOVAE AS A NEW PROBE OF THE INTERSTELLAR MEDIUM IN DISTANT GALAXIES. <i>Astrophysical Journal Letters</i> , <b>2012</b> , 755, L29	7.9	55
20	An ultraviolet-optical flare from the tidal disruption of a helium-rich stellar core. <i>Nature</i> , <b>2012</b> , 485, 217-204	9.4	313
19	CfA4: LIGHT CURVES FOR 94 TYPE Ia SUPERNOVAE. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 200, 12	8	121
18	TYPE Ia SUPERNOVA LIGHT CURVE INFERENCE: HIERARCHICAL MODELS IN THE OPTICAL AND NEAR-INFRARED. <i>Astrophysical Journal</i> , <b>2011</b> , 731, 120	4.7	140
17	DISPLAYING THE HETEROGENEITY OF THE SN 2002cx-LIKE SUBCLASS OF TYPE Ia SUPERNOVAE WITH OBSERVATIONS OF THE Pan-STARRS-1 DISCOVERED SN 2009ku. <i>Astrophysical Journal Letters</i> , <b>2011</b> , 731, L11	7.9	47
16	PUSHING THE BOUNDARIES OF CONVENTIONAL CORE-COLLAPSE SUPERNOVAE: THE EXTREMELY ENERGETIC SUPERNOVA SN 2003ma. <i>Astrophysical Journal</i> , <b>2011</b> , 729, 88	4.7	69
15	ON THE INTERPRETATION OF SUPERNOVA LIGHT ECHO PROFILES AND SPECTRA. <i>Astrophysical Journal</i> , <b>2011</b> , 732, 2	4.7	15
14	Pan-STARRS1 DISCOVERY OF TWO ULTRALUMINOUS SUPERNOVAE ATz=0.9. <i>Astrophysical Journal</i> , <b>2011</b> , 743, 114	4.7	150
13	DIRECT CONFIRMATION OF THE ASYMMETRY OF THE CAS A SUPERNOVA WITH LIGHT ECHOES. <i>Astrophysical Journal</i> , <b>2011</b> , 732, 3	4.7	79
12	SN 2006bt: A PERPLEXING, TROUBLESOME, AND POSSIBLY MISLEADING TYPE Ia SUPERNOVA. <i>Astrophysical Journal</i> , <b>2010</b> , 708, 1748-1759	4.7	75
11	PRECISE THROUGHPUT DETERMINATION OF THE PanSTARRS TELESCOPE AND THE GIGAPIXEL IMAGER USING A CALIBRATED SILICON PHOTODIODE AND A TUNABLE LASER: INITIAL RESULTS. <i>Astrophysical Journal, Supplement Series</i> , <b>2010</b> , 191, 376-388	8	92
10	GALEX AND PAN-STARRS1 DISCOVERY OF SN IIP 2010aq: THE FIRST FEW DAYS AFTER SHOCK BREAKOUT IN A RED SUPERGIANT STAR. <i>Astrophysical Journal Letters</i> , <b>2010</b> , 720, L77-L81	7.9	36
9	SUPERNOVA 2009kf: AN ULTRAVIOLET BRIGHT TYPE IIP SUPERNOVA DISCOVERED WITH PAN-STARRS 1 AND GALEX. <i>Astrophysical Journal Letters</i> , <b>2010</b> , 717, L52-L56	7.9	50
8	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. <i>Astrophysical Journal</i> , <b>2009</b> , 700, 331-354	4.7	333

7	Time Dilation in Type Ia Supernova Spectra at High Redshift*. <i>Astrophysical Journal</i> , <b>2008</b> , 682, 724-736	4.7	42
6	Exploring the Outer Solar System with the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , <b>2008</b> , 682, L53-L56	4.7	12
5	Survey requirements for accurate and precise photometric redshifts for Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2007</b> , 382, 377-381	4.3	13
4	Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , <b>2007</b> , 666, 694-715	4.7	688
3	The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry. <i>Astrophysical Journal</i> , <b>2007</b> , 666, 674-693	4.7	223
2	Physical characteristics of Comet Nucleus C/2001 OG108 (LONEOS). <i>Icarus</i> , <b>2005</b> , 179, 174-194	3.8	36
1	Testing the consistency of dust laws in SN Ia host galaxies: a BayeSN examination of Foundation DR1. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	7