

Abhijit Saha

List of Publications by Year in Descending Order

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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.

107
papers

5,834
citations

42
h-index

75
g-index

115
ext. papers

6,407
ext. citations

5.3
avg, IF

4.7
L-index

#	Paper	IF	Citations
107	Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 258, 1	8	9
106	Optical Rebrightening of Extragalactic Transients from the Zwicky Transient Facility. <i>Astrophysical Journal Letters</i> , 2022 , 926, L11	7.9	0
105	AT 2020iko: A WZ Sge-type Dwarf Nova Candidate with an Anomalous Precursor Event. <i>Astronomical Journal</i> , 2021 , 161, 15	4.9	3
104	The Second Data Release of the Survey of the MAgellanic Stellar History (SMASH). <i>Astronomical Journal</i> , 2021 , 161, 74	4.9	10
103	The ANTARES Astronomical Time-domain Event Broker. <i>Astronomical Journal</i> , 2021 , 161, 107	4.9	8
102	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> , 2020 , 892, 112	4.7	6
101	The Not So Simple Stellar System $\bar{\text{C}}\text{en. II}$. Evidence in Support of a Merging Scenario. <i>Astrophysical Journal</i> , 2020 , 891, 167	4.7	4
100	Optical Polarimetry of the Tidal Disruption Event AT2019DSG. <i>Astrophysical Journal Letters</i> , 2020 , 892, L1	7.9	7
99	ZTF18abhjrcf: The First R Coronae Borealis Star from the Zwicky Transient Facility Public Survey. <i>Astronomical Journal</i> , 2020 , 159, 61	4.9	2
98	Exploring the Very Extended Low-surface-brightness Stellar Populations of the Large Magellanic Cloud with SMASH. <i>Astrophysical Journal</i> , 2019 , 874, 118	4.7	27
97	Subpercent Photometry: Faint DA White Dwarf Spectrophotometric Standards for Astrophysical Observatories. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 241, 20	8	16
96	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> , 2019 , 874, 30	4.7	13
95	Photometry and Spectroscopy of Faint Candidate Spectrophotometric Standard DA White Dwarfs. <i>Astrophysical Journal</i> , 2019 , 872, 199	4.7	4
94	Overview of the DESI Legacy Imaging Surveys. <i>Astronomical Journal</i> , 2019 , 157, 168	4.9	363
93	ANTARES: A gateway to ZTF and LSST alerts. <i>Proceedings of the International Astronomical Union</i> , 2019 , 15, 24-27	0.1	
92	Variability of Red Supergiants in M31 from the Palomar Transient Factory. <i>Astrophysical Journal</i> , 2018 , 859, 73	4.7	16
91	Machine-learning-based Brokers for Real-time Classification of the LSST Alert Stream. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 236, 9	8	59

90	SMASHing the LMC: A Tidally Induced Warp in the Outer LMC and a Large-scale Reddening Map. <i>Astrophysical Journal</i> , 2018 , 866, 90	4.7	42
89	The star formation history in the M31 bulge. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 478, 5379-5403	4.3	9
88	Absolute Magnitudes and Colors of RR Lyrae Stars in DECam Passbands from Photometry of the Globular Cluster M5. <i>Astronomical Journal</i> , 2017 , 154, 85	4.9	14
87	SMASH: Survey of the MAGellanic Stellar History. <i>Astronomical Journal</i> , 2017 , 154, 199	4.9	59
86	A Hybrid Algorithm for Period Analysis from Multiband Data with Sparse and Irregular Sampling for Arbitrary Light-curve Shapes. <i>Astronomical Journal</i> , 2017 , 154, 231	4.9	12
85	The Hubble Constant from Supernovae 2017 , 2577-2592		0
84	VARIABLE STARS IN THE FIELD OF THE HYDRA II ULTRA-FAINT DWARF GALAXY. <i>Astronomical Journal</i> , 2016 , 151, 118	4.9	32
83	High-resolution mapping of dust via extinction in the M31 bulge. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 2262-2273	4.3	13
82	ANTARES: progress towards building a 'broker' of time-domain alerts 2016 ,		10
81	The NOAO data lab: science-driven development 2016 ,		6
80	The Hubble Constant from Supernovae 2016 , 1-16		2
79	METALLICITY DISTRIBUTION FUNCTIONS OF FOUR LOCAL GROUP DWARF GALAXIES. <i>Astronomical Journal</i> , 2015 , 149, 198	4.9	8
78	HYDRA II: A FAINT AND COMPACT MILKY WAY DWARF GALAXY FOUND IN THE SURVEY OF THE MAGELLANIC STELLAR HISTORY. <i>Astrophysical Journal Letters</i> , 2015 , 804, L5	7.9	119
77	Photometric evidence of an intermediate-age stellar population in the inner bulge of M31. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 451, 4126-4138	4.3	12
76	MEASURING METALLICITIES WITH HUBBLE SPACE TELESCOPE/WIDE-FIELD CAMERA 3 PHOTOMETRY. <i>Astronomical Journal</i> , 2014 , 147, 4	4.9	6
75	THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY. VII. THE STEEP MID-ULTRAVIOLET TO NEAR-INFRARED EXTINCTION CURVE IN THE CENTRAL 200 pc OF THE M31 BULGE. <i>Astrophysical Journal</i> , 2014 , 785, 136	4.7	26
74	The LSST operations simulator 2014 ,		36
73	An end-to-end simulation framework for the Large Synoptic Survey Telescope 2014 ,		31

72	ANTARES: a prototype transient broker system 2014 ,		11
71	ALL-WEATHER CALIBRATION OF WIDE-FIELD OPTICAL AND NIR SURVEYS. <i>Astronomical Journal</i> , 2014 , 147, 19	4.9	9
70	STELLAR POPULATIONS OF LYMAN BREAK GALAXIES ATz? 1-3 IN THE HST/WFC3 EARLY RELEASE SCIENCE OBSERVATIONS. <i>Astrophysical Journal</i> , 2013 , 765, 88	4.7	29
69	THE RESOLVED STELLAR POPULATION IN 50 REGIONS OF M83 FROM HST/WFC3 EARLY RELEASE SCIENCE OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 753, 26	4.7	18
68	THE SIZE EVOLUTION OF PASSIVE GALAXIES: OBSERVATIONS FROM THE WIDE-FIELD CAMERA 3 EARLY RELEASE SCIENCE PROGRAM. <i>Astrophysical Journal</i> , 2012 , 749, 53	4.7	35
67	Long-term photometric monitoring of RR Lyrae stars in Messier 3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 419, 2173-2194	4.3	30
66	THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 200, 18	8	215
65	THE INFRARED LIGHT CURVE OF SN 2011fe IN M101 AND THE DISTANCE TO M101. <i>Astrophysical Journal</i> , 2012 , 754, 19	4.7	58
64	Calibration of BVRIPhotometry for the Wide Field Channel of the HST Advanced Camera for Surveys. <i>Publications of the Astronomical Society of the Pacific</i> , 2011 , 123, 481-496	5	18
63	ANATOMY OF A POST-STARBURST MINOR MERGER: A MULTI-WAVELENGTH WFC3 STUDY OF NGC 4150. <i>Astrophysical Journal</i> , 2011 , 727, 115	4.7	28
62	STAR FORMATION IN 30 DORADUS. <i>Astrophysical Journal</i> , 2011 , 739, 27	4.7	73
61	DETECTION OF BROWN DWARF LIKE OBJECTS IN THE CORE OF NGC 3603. <i>Astrophysical Journal</i> , 2011 , 731, 1	4.7	13
60	USING HEMORPHOLOGY AND SURFACE BRIGHTNESS FLUCTUATIONS TO AGE-DATE STAR CLUSTERS IN M83. <i>Astrophysical Journal</i> , 2011 , 729, 78	4.7	62
59	LARGE-SCALE SHOCK-IONIZED AND PHOTOIONIZED GAS IN M83: THE IMPACT OF STAR FORMATION. <i>Astrophysical Journal</i> , 2011 , 731, 45	4.7	12
58	HUBBLE SPACE TELESCOPE IMAGING OF Ly α EMISSION ATz \approx 1.4. <i>Astrophysical Journal</i> , 2011 , 735, 5	4.7	30
57	PROBING THE M33 HALO USING RR LYRAE STARS. <i>Astronomical Journal</i> , 2011 , 142, 198	4.9	5
56	HUBBLE SPACE TELESCOPE WFC3 EARLY RELEASE SCIENCE: EMISSION-LINE GALAXIES FROM INFRARED GRISM OBSERVATIONS. <i>Astronomical Journal</i> , 2011 , 141, 14	4.9	27
55	PULSATION MODELS FOR ULTRA-LOW (Z= 0.0004) METALLICITY CLASSICAL CEPHEIDS. <i>Astrophysical Journal</i> , 2010 , 713, 615-625	4.7	31

54	FIRST RESULTS FROM THE NOAO SURVEY OF THE OUTER LIMITS OF THE MAGELLANIC CLOUDS. <i>Astronomical Journal</i> , 2010 , 140, 1719-1738	4.9	75
53	PRECISION DETERMINATION OF ATMOSPHERIC EXTINCTION AT OPTICAL AND NEAR-INFRARED WAVELENGTHS. <i>Astrophysical Journal</i> , 2010 , 720, 811-823	4.7	28
52	UV-DROPOUT GALAXIES IN THE GOODS-SOUTH FIELD FROM WFC3 EARLY RELEASE SCIENCE OBSERVATIONS. <i>Astrophysical Journal</i> , 2010 , 720, 1708-1716	4.7	65
51	SUPERNOVA REMNANTS AND THE INTERSTELLAR MEDIUM OF M83: IMAGING AND PHOTOMETRY WITH THE WIDE FIELD CAMERA 3 ON THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2010 , 710, 964-978	4.7	50
50	PROGRESSIVE STAR FORMATION IN THE YOUNG GALACTIC SUPER STAR CLUSTER NGC 3603. <i>Astrophysical Journal</i> , 2010 , 720, 1108-1117	4.7	57
49	THE LUMINOSITY, MASS, AND AGE DISTRIBUTIONS OF COMPACT STAR CLUSTERS IN M83 BASED ON HUBBLE SPACE TELESCOPE/WIDE FIELD CAMERA 3 OBSERVATIONS. <i>Astrophysical Journal</i> , 2010 , 719, 966-978	4.7	99
48	MULTI-EPOCH HUBBLE SPACE TELESCOPE OBSERVATIONS OF IZw18: CHARACTERIZATION OF VARIABLE STARS AT ULTRA-LOW METALLICITIES. <i>Astrophysical Journal</i> , 2010 , 711, 808-817	4.7	33
47	RR LYRAE VARIABLES IN M32 AND THE DISK OF M31. <i>Astrophysical Journal</i> , 2010 , 708, 817-833	4.7	32
46	Supernova remnants, planetary nebulae and the distance to NGC 4214. <i>Astrophysics and Space Science</i> , 2010 , 330, 123-131	1.6	12
45	A 500 PARSEC HALO SURROUNDING THE GALACTIC GLOBULAR NGC 1851. <i>Astronomical Journal</i> , 2009 , 138, 1570-1576	4.9	75
44	M32: Is there an Ancient and Metal-poor Stellar Population?. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 333-334	0.1	
43	I Zw 18 Revisited with HST ACS and Cepheids: New Distance and Age. <i>Astrophysical Journal</i> , 2007 , 667, L151-L154	4.7	108
42	Leo A: A Late-blooming Survivor of the Epoch of Reionization in the Local Group. <i>Astrophysical Journal</i> , 2007 , 659, L17-L20	4.7	147
41	The Hubble Constant: A Summary of the Hubble Space Telescope Program for the Luminosity Calibration of Type Ia Supernovae by Means of Cepheids. <i>Astrophysical Journal</i> , 2006 , 653, 843-860	4.7	202
40	HS 1216+5032: a physical quasar pair with one radio-loud broad absorption line quasar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 349, 1261-1266	4.3	1
39	The Period-Luminosity Relation for Long-Period Variables in M31. <i>Astrophysical Journal, Supplement Series</i> , 2004 , 154, 623-631	8	10
38	Cepheids and Long-Period Variables in NGC 4395. <i>Astronomical Journal</i> , 2004 , 127, 2322-2343	4.9	43
37	The Effect of Metallicity on Cepheid-based Distances. <i>Astrophysical Journal</i> , 2004 , 608, 42-61	4.7	175

36	DeepHubble Space TelescopelImaging of Sextans A. III. The Star Formation History. <i>Astronomical Journal</i> , 2003 , 126, 187-196	4.9	64
35	Deep [ITAL]Hubble Space Telescope[/ITAL] Imaging of Sextans A. II. Cepheids and Distance. <i>Astronomical Journal</i> , 2003 , 125, 1261-1290	4.9	52
34	DeepHubble Space TelescopelImaging of IC 1613. II. The Star Formation History. <i>Astrophysical Journal</i> , 2003 , 596, 253-272	4.7	107
33	Variable Stars in Leo A: RR Lyrae Stars, Short-Period Cepheids, and Implications for Stellar Content. <i>Astronomical Journal</i> , 2002 , 123, 3154-3198	4.9	89
32	Cepheids and Long-Period Variables in IC 342. <i>Astronomical Journal</i> , 2002 , 124, 839-861	4.9	61
31	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XXI. The Cepheid Distance to NGC 1425. <i>Astrophysical Journal</i> , 2000 , 528, 655-676	4.7	33
30	Photometric Recovery of Crowded Stellar Fields Observed withHST/WFPC2 and the Effects of Confusion Noise on the Extragalactic Distance Scale. <i>Publications of the Astronomical Society of the Pacific</i> , 2000 , 112, 177-201	5	29
29	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XIX. The Discovery of Cepheids in and a New Distance to NGC 3198. <i>Astrophysical Journal</i> , 1999 , 514, 614-636	4.7	25
28	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XX. The Discovery of Cepheids in the Virgo Cluster Galaxy NGC 4548. <i>Astrophysical Journal</i> , 1999 , 516, 626-646	4.7	47
27	Stellar Populations at the Center of IC 1613. <i>Astronomical Journal</i> , 1999 , 118, 1657-1670	4.9	62
26	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XVII. The Cepheid Distance to NGC 4725. <i>Astrophysical Journal</i> , 1999 , 512, 48-64	4.7	22
25	Hubble Space TelescopeObservations of the Local Group Dwarf Galaxy Leo I. <i>Astrophysical Journal</i> , 1999 , 514, 665-674	4.7	48
24	TheHubble Space TelescopeExtragalactic Distance Scale Key Project. XXIII. The Discovery of Cepheids in NGC 3319. <i>Astrophysical Journal</i> , 1999 , 523, 540-558	4.7	22
23	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XXII. The Discovery of Cepheids in NGC 1326A. <i>Astrophysical Journal</i> , 1999 , 525, 80-104	4.7	22
22	The Extragalactic Distance Scale Key Project. XVI. Cepheid Variables in an Inner Field of M101. <i>Astrophysical Journal</i> , 1998 , 508, 491-517	4.7	99
21	TheHubbleSpaceTelescopeKey Project on the Extragalactic Distance Scale. XIII. The Metallicity Dependence of the Cepheid Distance Scale. <i>Astrophysical Journal</i> , 1998 , 498, 181-194	4.7	24 ⁰
20	The Extragalactic Distance Scale Key Project. V. Photometry of the Brightest Stars in M100 and the Calibration of WFPC2. <i>Astrophysical Journal</i> , 1998 , 496, 648-660	4.7	58
19	TheHubble Space TelescopeExtragalactic Distance Scale Key Project. IX. The Discovery of Cepheids in NGC 2090. <i>Astrophysical Journal</i> , 1998 , 500, 763-788	4.7	24

18	TheHubble Space TelescopeExtragalactic Distance Scale Key Project. X. The Cepheid Distance to NGC 7331. <i>Astrophysical Journal</i> , 1998 , 501, 32-53	4-7	50
17	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XI. The Cepheids in NGC 4414. <i>Astrophysical Journal</i> , 1998 , 505, 207-229	4-7	48
16	Oscillating Blue Stragglers in the Core of 47 Tucanae. <i>Astrophysical Journal</i> , 1998 , 507, 818-845	4-7	82
15	TheHubble Space TelescopeKey Project on the Extragalactic Distance Scale. XII. The Discovery of Cepheids and a New Distance to NGC 2541. <i>Astrophysical Journal</i> , 1998 , 507, 655-690	4-7	26
14	The Extragalactic Distance Scale Key Project. VIII. The Discovery of Cepheids and a New Distance to NGC 3621 Using theHubbleSpaceTelescope. <i>Astrophysical Journal</i> , 1997 , 490, 517-556	4-7	38
13	The Extragalactic Distance Scale Key Project. IV. The Discovery of Cepheids and a New Distance to M100 Using theHubble Space Telescope. <i>Astrophysical Journal</i> , 1997 , 475, 853-853	4-7	5
12	TheHubble Space TelescopeExtragalactic Distance Scale Key Project. VII. The Discovery of Cepheids in the Leo I Group Galaxy NGC 3351. <i>Astrophysical Journal</i> , 1997 , 477, 535-559	4-7	72
11	Variable Stars in the Dwarf Galaxy IC 10. <i>Astronomical Journal</i> , 1996 , 111, 197	4-9	26
10	The Brightest Stars in Nearby Galaxies IX: Comparison of Ground-Based and HST Phtotmetry of the Brightest Stars in IC 4182. <i>Astronomical Journal</i> , 1996 , 111, 1872	4-9	3
9	The Interpretation of Color-Magnitude Diagrams through Numerical Simulation and Bayesian Inference. <i>Astrophysical Journal</i> , 1996 , 462, 672	4-7	113
8	The Extragalactic Distance Scale Key Project. III. The Discovery of Cepheids and a New Distance to M101 Using the Hubble Space Telescope. <i>Astrophysical Journal</i> , 1996 , 463, 26	4-7	96
7	The Extragalactic Distance Scale Key Project. IV. The Discovery of Cepheids and a New Distance to M100 Using the Hubble Space Telescope. <i>Astrophysical Journal</i> , 1996 , 464, 568	4-7	153
6	Stellar Variability in the Central Populations of 47 Tucanae from WF/PC Observations with the Hubble Space Telescope. II. Binary Systems. <i>Astrophysical Journal</i> , 1996 , 468, 241	4-7	33
5	The Hubble Space Telescope Key Project on the Extragalactic Distance Scale. VI. The Cepheids in NGC 925. <i>Astrophysical Journal</i> , 1996 , 470, 1	4-7	86
4	Cataclysmic and Close Binaries in Star Clusters. IV. The Unexpectedly Low Number of Erupting Dwarf Novae Detected by theHubble Space Telescopein the Core of 47 Tucanae. <i>Astrophysical Journal</i> , 1996 , 471, 804-815	4-7	49
3	Stellar Variability in the Central Populations of 47 Tucanae from WF/PC Observations with the Hubble Space Telescope. I. Project Overview, Reduction Techniques, and First Results. <i>Astrophysical Journal</i> , 1995 , 447, 191	4-7	15
2	Distance to the Virgo cluster galaxy M100 from Hubble Space Telescope observations of Cepheids. <i>Nature</i> , 1994 , 371, 757-762	50-4	284
1	DOPHOT, a CCD photometry program: Description and tests. <i>Publications of the Astronomical Society of the Pacific</i> , 1993 , 105, 1342	5	647

