

Abhijit Saha

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107
papers

5,834
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h-index

75
g-index

115
ext. papers

6,407
ext. citations

5.3
avg, IF

4.7
L-index

#	Paper	IF	Citations
107	DOPHOT, a CCD photometry program: Description and tests. <i>Publications of the Astronomical Society of the Pacific</i> , 1993 , 105, 1342	5	647
106	Overview of the DESI Legacy Imaging Surveys. <i>Astronomical Journal</i> , 2019 , 157, 168	4.9	363
105	Distance to the Virgo cluster galaxy M100 from Hubble Space Telescope observations of Cepheids. <i>Nature</i> , 1994 , 371, 757-762	50.4	284
104	The Hubble Space Telescope Key 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	240
103	THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 200, 18	8	215
102	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
101	The Effect of Metallicity on Cepheid-based Distances. <i>Astrophysical Journal</i> , 2004 , 608, 42-61	4.7	175
100	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
99	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
98	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
97	The Interpretation of Color-Magnitude Diagrams through Numerical Simulation and Bayesian Inference. <i>Astrophysical Journal</i> , 1996 , 462, 672	4.7	113
96	I Zw 18 Revisited with HST ACS and Cepheids: New Distance and Age. <i>Astrophysical Journal</i> , 2007 , 667, L151-L154	4.7	108
95	Deep Hubble Space Telescope Imaging of IC 1613. II. The Star Formation History. <i>Astrophysical Journal</i> , 2003 , 596, 253-272	4.7	107
94	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
93	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
92	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
91	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

90	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
89	Oscillating Blue Stragglers in the Core of 47 Tucanae. <i>Astrophysical Journal</i> , 1998 , 507, 818-845	4.7	82
88	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
87	A 500 PARSEC HALO SURROUNDING THE GALACTIC GLOBULAR NGC 1851. <i>Astronomical Journal</i> , 2009 , 138, 1570-1576	4.9	75
86	STAR FORMATION IN 30 DORADUS. <i>Astrophysical Journal</i> , 2011 , 739, 27	4.7	73
85	The Hubble Space Telescope Extragalactic 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
84	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
83	Deep Hubble Space Telescope Imaging of Sextans A. III. The Star Formation History. <i>Astronomical Journal</i> , 2003 , 126, 187-196	4.9	64
82	USING H α MORPHOLOGY AND SURFACE BRIGHTNESS FLUCTUATIONS TO AGE-DATE STAR CLUSTERS IN M83. <i>Astrophysical Journal</i> , 2011 , 729, 78	4.7	62
81	Stellar Populations at the Center of IC 1613. <i>Astronomical Journal</i> , 1999 , 118, 1657-1670	4.9	62
80	Cepheids and Long-Period Variables in IC 342. <i>Astronomical Journal</i> , 2002 , 124, 839-861	4.9	61
79	Machine-learning-based Brokers for Real-time Classification of the LSST Alert Stream. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 236, 9	8	59
78	SMASH: Survey of the Magellanic Stellar History. <i>Astronomical Journal</i> , 2017 , 154, 199	4.9	59
77	THE INFRARED LIGHT CURVE OF SN 2011fe IN M101 AND THE DISTANCE TO M101. <i>Astrophysical Journal</i> , 2012 , 754, 19	4.7	58
76	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
75	PROGRESSIVE STAR FORMATION IN THE YOUNG GALACTIC SUPER STAR CLUSTER NGC 3603. <i>Astrophysical Journal</i> , 2010 , 720, 1108-1117	4.7	57
74	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
73	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

72	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
71	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
70	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
69	Hubble Space TelescopeObservations of the Local Group Dwarf Galaxy Leo I. <i>Astrophysical Journal</i> , 1999 , 514, 665-674	4-7	48
68	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
67	Cepheids and Long-Period Variables in NGC 4395. <i>Astronomical Journal</i> , 2004 , 127, 2322-2343	4-9	43
66	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
65	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
64	The LSST operations simulator 2014 ,		36
63	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
62	MULTI-EPOCHHUBBLE SPACE TELESCOPEOBSERVATIONS OF IZw18: CHARACTERIZATION OF VARIABLE STARS AT ULTRA-LOW METALLICITIES. <i>Astrophysical Journal</i> , 2010 , 711, 808-817	4-7	33
61	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
60	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
59	VARIABLE STARS IN THE FIELD OF THE HYDRA II ULTRA-FAINT DWARF GALAXY. <i>Astronomical Journal</i> , 2016 , 151, 118	4-9	32
58	RR LYRAE VARIABLES IN M32 AND THE DISK OF M31. <i>Astrophysical Journal</i> , 2010 , 708, 817-833	4-7	32
57	An end-to-end simulation framework for the Large Synoptic Survey Telescope 2014 ,		31
56	PULSATION MODELS FOR ULTRA-LOW (Z= 0.0004) METALLICITY CLASSICAL CEPHEIDS. <i>Astrophysical Journal</i> , 2010 , 713, 615-625	4-7	31
55	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

54	HUBBLE SPACE TELESCOPEIMAGING OF Ly α EMISSION ATz \approx 1.4. <i>Astrophysical Journal</i> , 2011 , 735, 5	4-7	30
53	STELLAR POPULATIONS OF LYMAN BREAK GALAXIES ATz? 1-3 IN THEHST/WFC3 EARLY RELEASE SCIENCE OBSERVATIONS. <i>Astrophysical Journal</i> , 2013 , 765, 88	4-7	29
52	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
51	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
50	PRECISION DETERMINATION OF ATMOSPHERIC EXTINCTION AT OPTICAL AND NEAR-INFRARED WAVELENGTHS. <i>Astrophysical Journal</i> , 2010 , 720, 811-823	4-7	28
49	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
48	HUBBLE SPACE TELESCOPEWFC3 EARLY RELEASE SCIENCE: EMISSION-LINE GALAXIES FROM INFRARED GRISM OBSERVATIONS. <i>Astronomical Journal</i> , 2011 , 141, 14	4-9	27
47	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
46	Variable Stars in the Dwarf Galaxy IC 10. <i>Astronomical Journal</i> , 1996 , 111, 197	4-9	26
45	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
44	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
43	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
42	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
41	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
40	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
39	THE RESOLVED STELLAR POPULATION IN 50 REGIONS OF M83 FROMHST/WFC3 EARLY RELEASE SCIENCE OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 753, 26	4-7	18
38	Calibration ofBVRIPhotometry for the Wide Field Channel of theHSTAdvanced Camera for Surveys. <i>Publications of the Astronomical Society of the Pacific</i> , 2011 , 123, 481-496	5	18
37	Subpercent Photometry: Faint DA White Dwarf Spectrophotometric Standards for Astrophysical Observatories. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 241, 20	8	16

36	Variability of Red Supergiants in M31 from the Palomar Transient Factory. <i>Astrophysical Journal</i> , 2018 , 859, 73	4.7	16
35	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
34	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
33	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
32	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
31	DETECTION OF BROWN DWARF LIKE OBJECTS IN THE CORE OF NGC 3603. <i>Astrophysical Journal</i> , 2011 , 731, 1	4.7	13
30	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
29	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
28	LARGE-SCALE SHOCK-IONIZED AND PHOTOIONIZED GAS IN M83: THE IMPACT OF STAR FORMATION. <i>Astrophysical Journal</i> , 2011 , 731, 45	4.7	12
27	Supernova remnants, planetary nebulae and the distance to NGC 4214. <i>Astrophysics and Space Science</i> , 2010 , 330, 123-131	1.6	12
26	ANTARES: a prototype transient broker system 2014 ,		11
25	The Period-Luminosity Relation for Long-Period Variables in M31. <i>Astrophysical Journal, Supplement Series</i> , 2004 , 154, 623-631	8	10
24	ANTARES: progress towards building a 'broker' of time-domain alerts 2016 ,		10
23	The Second Data Release of the Survey of the MAgellanic Stellar History (SMASH). <i>Astronomical Journal</i> , 2021 , 161, 74	4.9	10
22	ALL-WEATHER CALIBRATION OF WIDE-FIELD OPTICAL AND NIR SURVEYS. <i>Astronomical Journal</i> , 2014 , 147, 19	4.9	9
21	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
20	The star formation history in the M31 bulge. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 478, 5379-5403	4.3	9
19	METALLICITY DISTRIBUTION FUNCTIONS OF FOUR LOCAL GROUP DWARF GALAXIES. <i>Astronomical Journal</i> , 2015 , 149, 198	4.9	8

18	The ANTARES Astronomical Time-domain Event Broker. <i>Astronomical Journal</i> , 2021 , 161, 107	4.9	8
17	Optical Polarimetry of the Tidal Disruption Event AT2019DSG. <i>Astrophysical Journal Letters</i> , 2020 , 892, L1	7.9	7
16	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
15	MEASURING METALLICITIES WITH HUBBLE SPACE TELESCOPE/WIDE-FIELD CAMERA 3 PHOTOMETRY. <i>Astronomical Journal</i> , 2014 , 147, 4	4.9	6
14	The NOAO data lab: science-driven development 2016 ,		6
13	PROBING THE M33 HALO USING RR LYRAE STARS. <i>Astronomical Journal</i> , 2011 , 142, 198	4.9	5
12	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> , 1997 , 475, 853-853	4.7	5
11	Photometry and Spectroscopy of Faint Candidate Spectrophotometric Standard DA White Dwarfs. <i>Astrophysical Journal</i> , 2019 , 872, 199	4.7	4
10	The Not So Simple Stellar System [Cen. II. Evidence in Support of a Merging Scenario. <i>Astrophysical Journal</i> , 2020 , 891, 167	4.7	4
9	AT 2020iko: A WZ Sge-type Dwarf Nova Candidate with an Anomalous Precursor Event. <i>Astronomical Journal</i> , 2021 , 161, 15	4.9	3
8	The Brightest Stars in Nearby Galaxies IX: Comparison of Ground-Based and HST Photometry of the Brightest Stars in IC 4182. <i>Astronomical Journal</i> , 1996 , 111, 1872	4.9	3
7	ZTF18abhjrcf: The First R Coronae Borealis Star from the Zwicky Transient Facility Public Survey. <i>Astronomical Journal</i> , 2020 , 159, 61	4.9	2
6	The Hubble Constant from Supernovae 2016 , 1-16		2
5	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
4	The Hubble Constant from Supernovae 2017 , 2577-2592		0
3	Optical Rebrightening of Extragalactic Transients from the Zwicky Transient Facility. <i>Astrophysical Journal Letters</i> , 2022 , 926, L11	7.9	0
2	M32: Is there an Ancient and Metal-poor Stellar Population?. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 333-334	0.1	
1	ANTARES: A gateway to ZTF and LSST alerts. <i>Proceedings of the International Astronomical Union</i> , 2019 , 15, 24-27	0.1	

