

# Tamas Budavari

## List of Publications by Year in descending order

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97  
papers

24,511  
citations

66234

42  
h-index

46693

89  
g-index

99  
all docs

99  
docs citations

99  
times ranked

10423  
citing authors

#	ARTICLE	IF	CITATIONS
1	THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2009, 182, 543-558.	3.0	4,201
2	Cosmological parameters from SDSS and WMAP. <i>Physical Review D</i> , 2004, 69, .	1.6	3,121
3	The Threeâ€Dimensional Power Spectrum of Galaxies from the Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2004, 606, 702-740.	1.6	1,426
4	Baryon acoustic oscillations in the Sloan Digital Sky Survey Data Release 7 galaxy sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 2148-2168.	1.6	1,400
5	Color Separation of Galaxy Types in the Sloan Digital Sky Survey Imaging Data. <i>Astronomical Journal</i> , 2001, 122, 1861-1874.	1.9	1,250
6	The Sixth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2008, 175, 297-313.	3.0	1,202
7	Cosmological constraints from the SDSS luminous red galaxies. <i>Physical Review D</i> , 2006, 74, .	1.6	1,132
8	The Second Data Release of the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2004, 128, 502-512.	1.9	953
9	The Fourth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2006, 162, 38-48.	3.0	948
10	Spectral Energy Distributions and Multiwavelength Selection of Type 1 Quasars. <i>Astrophysical Journal, Supplement Series</i> , 2006, 166, 470-497.	3.0	908
11	The Calibration and Data Products of <i>GALEX</i> . <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 682-697.	3.0	873
12	The Farthest Known Supernova: Support for an Accelerating Universe and a Glimpse of the Epoch of Deceleration. <i>Astrophysical Journal</i> , 2001, 560, 49-71.	1.6	759
13	The Third Data Release of the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2005, 129, 1755-1759.	1.9	634
14	The Fifth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2007, 172, 634-644.	3.0	615
15	The Evolution of the Global Stellar Mass Density at $z \approx 3$ . <i>Astrophysical Journal</i> , 2003, 587, 25-40.		395
16	The GALEX Arecibo SDSS Survey - I. Gas fraction scaling relations of massive galaxies and first data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 403, 683-708.	1.6	355
17	The UVâ€Optical Galaxy Colorâ€Magnitude Diagram. I. Basic Properties. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 293-314.	3.0	336
18	Fitting the integrated spectral energy distributions of galaxies. <i>Astrophysics and Space Science</i> , 2011, 331, 1-51.	0.5	268

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19	The UVâ€œOptical Color Magnitude Diagram. II. Physical Properties and Morphological Evolution On and Off of a Starâ€œforming Sequence. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 315-341.	3.0	261
20	The Galaxy-Mass Correlation Function Measured from Weak Lensing in the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2004, 127, 2544-2564.	1.9	247
21	Cosmological constraints from the clustering of the Sloan Digital Sky Survey DR7 luminous red galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	1.6	221
22	Cosmological Parameters from Eigenmode Analysis of Sloan Digital Sky Survey Galaxy Redshifts. <i>Astrophysical Journal</i> , 2004, 607, 655-660.	1.6	211
23	The Ultraviolet Galaxy Luminosity Function in the Local Universe from GALEX Data. <i>Astrophysical Journal</i> , 2005, 619, L15-L18.	1.6	199
24	The Application of Photometric Redshifts to the SDSS Early Data Release. <i>Astronomical Journal</i> , 2003, 125, 580-592.	1.9	178
25	Galaxy-galaxy weak lensing in the Sloan Digital Sky Survey: intrinsic alignments and shear calibration errors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 353, 529-549.	1.6	139
26	Photometric redshifts for the SDSS Data Release 12. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1371-1381.	1.6	133
27	The Threeâ€œdimensional Power Spectrum from Angular Clustering of Galaxies in Early Sloan Digital Sky Survey Data. <i>Astrophysical Journal</i> , 2002, 572, 140-156.	1.6	118
28	RANDOM FORESTS FOR PHOTOMETRIC REDSHIFTS. <i>Astrophysical Journal</i> , 2010, 712, 511-515.	1.6	117
29	CANDELS/GOODS-S, CDFS, AND ECDFS: PHOTOMETRIC REDSHIFTS FOR NORMAL AND X-RAY-DETECTED GALAXIES. <i>Astrophysical Journal</i> , 2014, 796, 60.	1.6	117
30	Angular Clustering with Photometric Redshifts in the Sloan Digital Sky Survey: Bimodality in the Clustering Properties of Galaxies. <i>Astrophysical Journal</i> , 2003, 595, 59-70.	1.6	108
31	The GALEX Arcicibo SDSS Survey - II. The star formation efficiency of massive galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 919-934.	1.6	102
32	Probabilistic Crossâ€œidentification of Astronomical Sources. <i>Astrophysical Journal</i> , 2008, 679, 301-309.	1.6	101
33	Creating Spectral Templates from Multicolor Redshift Surveys. <i>Astronomical Journal</i> , 2000, 120, 1588-1598.	1.9	95
34	Ongoing Formation of Bulges and Black Holes in the Local Universe: New Insights from <i>GALEX</i>. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 357-376.	3.0	93
35	Photometric Redshifts of Quasars. <i>Astronomical Journal</i> , 2001, 122, 1151-1162.	1.9	85
36	Sloan Digital Sky Survey Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release. <i>Astronomical Journal</i> , 2004, 128, 2577-2592.	1.9	73

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37	An Empirical Algorithm for Broadband Photometric Redshifts of Quasars from the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2004, 155, 243-256.	3.0	72
38	Radio Continuum Surveys with Square Kilometre Array Pathfinders. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	1.3	72
39	Statistical Properties of the <i>GALEX</i> $\mathbb{S}$ SDSS Matched Source Catalogs, and Classification of the UV Sources. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 659-672.	3.0	67
40	VERSION 1 OF THE HUBBLE SOURCE CATALOG. <i>Astronomical Journal</i> , 2016, 151, 134.	1.9	64
41	Photometric Redshifts from Reconstructed Quasar Templates. <i>Astronomical Journal</i> , 2001, 122, 1163-1171.	1.9	57
42	The Ultraviolet Luminosity Function of <i>GALEX</i> Galaxies at Photometric Redshifts between 0.07 and 0.25. <i>Astrophysical Journal</i> , 2005, 619, L31-L34.	1.6	51
43	<i>GALEX</i> -SDSS CATALOGS FOR STATISTICAL STUDIES. <i>Astrophysical Journal</i> , 2009, 694, 1281-1292.	1.6	49
44	A UNIFIED FRAMEWORK FOR PHOTOMETRIC REDSHIFTS. <i>Astrophysical Journal</i> , 2009, 695, 747-754.	1.6	34
45	Arioc: high-throughput read alignment with GPU-accelerated exploration of the seed-and-extend search space. <i>PeerJ</i> , 2015, 3, e808.	0.9	33
46	Probabilistic Association of Transients to their Hosts (PATH). <i>Astrophysical Journal</i> , 2021, 911, 95.	1.6	32
47	Reliable eigenspectra for new generation surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 394, 1496-1502.	1.6	31
48	A high-resolution atlas of composite Sloan Digital Sky Survey galaxy spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 1217-1238.	1.6	31
49	Exploring the SDSS photometric galaxies with clustering redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 163-174.	1.6	31
50	<i>GALEX</i> Observations of the Sloan Digital Sky Survey: A Comparison. <i>Astrophysical Journal</i> , 2005, 619, L23-L26.	1.6	30
51	EXTINCTION IN STAR-FORMING DISK GALAXIES FROM INCLINATION-DEPENDENT COMPOSITE SPECTRA. <i>Astrophysical Journal</i> , 2010, 709, 780-790.	1.6	30
52	Fast Edge-corrected Measurement of the Two-Point Correlation Function and the Power Spectrum. <i>Astrophysical Journal</i> , 2005, 631, L1-L4.	1.6	28
53	Matching radio catalogues with realistic geometry: application to SWIRE and ATLAS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1299-1305.	1.6	27
54	Clustering Properties of Rest-Frame UV-selected Galaxies. II. Migration of Star Formation Sites with Cosmic Time from <i>GALEX</i> and CFHTLS. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 503-511.	3.0	26

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55	The Ultraviolet Galaxy Luminosity Function from GALEX Data: Color-Dependent Evolution at Low Redshift. <i>Astrophysical Journal</i> , 2005, 619, L19-L22.	1.6	25
56	REDSHIFT-SPACE ENHANCEMENT OF LINE-OF-SIGHT BARYON ACOUSTIC OSCILLATIONS IN THE SLOAN DIGITAL SKY SURVEY MAIN-GALAXY SAMPLE. <i>Astrophysical Journal</i> , 2011, 728, 34.	1.6	25
57	Searchable Sky Coverage of Astronomical Observations: Footprints and Exposures. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 1375-1388.	1.0	24
58	DETERMINING THE ABSOLUTE ASTROMETRIC ERROR IN <i>CHANDRA</i> SOURCE CATALOG POSITIONS. <i>Astrophysical Journal</i> , Supplement Series, 2011, 192, 8.	3.0	23
59	SPATIAL CLUSTERING FROM <i>GALEX</i> -SDSS SAMPLES: STAR FORMATION HISTORY AND LARGE-SCALE CLUSTERING. <i>Astrophysical Journal</i> , 2009, 698, 1838-1851.	1.6	19
60	Probabilistic Record Linkage in Astronomy: Directional Cross-Identification and Beyond. <i>Annual Review of Statistics and Its Application</i> , 2015, 2, 113-139.	4.1	18
61	SkyQuery: Federating Astronomy Archives. <i>Computing in Science and Engineering</i> , 2013, 15, 12-20.	1.2	16
62	The “Sixth Factor” A Social Media Factor Derived Directly from Tweet Sentiments. <i>Journal of Portfolio Management</i> , 2017, 43, 102-111.	0.3	16
63	Clustering Properties of Rest-Frame UV Selected Galaxies. I. the Correlation Length Derived from <i>GALEX</i> Data in the Local Universe. <i>Astrophysical Journal</i> , Supplement Series, 2007, 173, 494-502.	3.0	15
64	CROSS IDENTIFICATION OF STARS WITH UNKNOWN PROPER MOTIONS. <i>Astrophysical Journal</i> , 2010, 719, 59-66.	1.6	14
65	CATALOG MATCHING WITH ASTROMETRIC CORRECTION AND ITS APPLICATION TO THE HUBBLE LEGACY ARCHIVE. <i>Astrophysical Journal</i> , 2012, 761, 188.	1.6	14
66	A LYMAN BREAK GALAXY IN THE EPOCH OF REIONIZATION FROM <i>HUBBLE</i> SPACE TELESCOPE GRISM SPECTROSCOPY. <i>Astrophysical Journal</i> , 2013, 773, 32.	1.6	14
67	CROSS-IDENTIFICATION PERFORMANCE FROM SIMULATED DETECTIONS: <i>GALEX</i> AND SDSS. <i>Astrophysical Journal</i> , 2009, 705, 739-745.	1.6	13
68	Computational tools for the spectroscopic analysis of white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2688-2698.	1.6	13
69	OBJECTIVE IDENTIFICATION OF INFORMATIVE WAVELENGTH REGIONS IN GALAXY SPECTRA. <i>Astronomical Journal</i> , 2014, 147, 110.	1.9	12
70	An Optimal Multihump Filter for Photometric Redshifts. <i>Astronomical Journal</i> , 2001, 121, 3266-3269.	1.9	11
71	EFFECT OF INCLINATION OF GALAXIES ON PHOTOMETRIC REDSHIFT. <i>Astrophysical Journal</i> , 2011, 730, 54.	1.6	11
72	PROBABILISTIC CROSS-IDENTIFICATION OF COSMIC EVENTS. <i>Astrophysical Journal</i> , 2011, 736, 155.	1.6	10

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73	PROBABILISTIC CROSS-IDENTIFICATION IN CROWDED FIELDS AS AN ASSIGNMENT PROBLEM. <i>Astronomical Journal</i> , 2016, 152, 86.	1.9	8
74	Probabilistic Cross-identification of Multiple Catalogs in Crowded Fields. <i>Astrophysical Journal</i> , 2019, 870, 51.	1.6	7
75	CORRELATIONS BETWEEN NEBULAR EMISSION AND THE CONTINUUM SPECTRAL SHAPE IN SDSS GALAXIES. <i>Astronomical Journal</i> , 2011, 141, 133.	1.9	6
76	Efficient Catalog Matching with Dropout Detection. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 218-223.	1.0	6
77	MAPPING THE SIMILARITIES OF SPECTRA: GLOBAL AND LOCALLY-BIASED APPROACHES TO SDSS GALAXIES. <i>Astrophysical Journal</i> , 2016, 833, 26.	1.6	6
78	Data integration for materials research. <i>Integrating Materials and Manufacturing Innovation</i> , 2016, 5, 143-153.	1.2	6
79	<title>Web services for the Virtual Observatory</title>. , 2002, , .		5
80	Faint Object Detection in Multi-Epoch Observations via Catalog Data Fusion. <i>Astrophysical Journal</i> , 2017, 838, 52.	1.6	4
81	Optimal probabilistic catalogue matching for radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 565-573.	1.6	4
82	SkyQuery: An Implementation of a Parallel Probabilistic Join Engine for Cross-Identification of Multiple Astronomical Databases. <i>Lecture Notes in Computer Science</i> , 2012, , 159-167.	1.0	4
83	Spatial Clustering of Galaxies in Large Datasets. , 2002, 4847, 1.		3
84	Astronomy and Computing: A new journal for the astronomical computing community. <i>Astronomy and Computing</i> , 2013, 1, 1-4.	0.8	3
85	GALAXY REDSHIFTS FROM DISCRETE OPTIMIZATION OF CORRELATION FUNCTIONS. <i>Astronomical Journal</i> , 2016, 152, 155.	1.9	3
86	Sub-band Image Reconstruction Using Differential Chromatic Refraction. <i>Astronomical Journal</i> , 2019, 157, 182.	1.9	3
87	Incremental and Parallel Analytics on Astrophysical Data Streams. , 2012, , .		1
88	The Footprint Database and Web Services of the Herschel Space Observatory. <i>Experimental Astronomy</i> , 2016, 42, 139-164.	1.6	1
89	Robust Registration of Astronomy Catalogs with Applications to the Hubble Space Telescope. <i>Astronomical Journal</i> , 2019, 158, 191.	1.9	1
90	A Machine Learning Gateway for Scientific Workflow Design. <i>Scientific Programming</i> , 2020, 2020, 1-15.	0.5	1

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91	Wireless Sensor Network for in situ Soil Moisture Monitoring. , 2021, , .		1
92	Globally Optimal and Scalable N-way Matching of Astronomy Catalogs. Astronomical Journal, 2022, 163, 296.	1.9	1
93	Separating Physical Components from Galaxy Spectra by Subspace Methods. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
94	Bayesian approach for matching multiple stellar observations. Journal of Physics: Conference Series, 2010, 218, 012012.	0.3	0
95	DOT-K: A distributed online top-K elements algorithm using extreme value statistics. , 2016, , .		0
96	Astronomical Knowledge Discovery of Very Faint Galaxies. Procedia Computer Science, 2018, 140, 367-375.	1.2	0
97	On Statistical Cross-Identification in Astronomy. Lecture Notes in Statistics, 2012, , 291-302.	0.1	0