

# Tamas Budavari

## List of Publications by Year in descending order

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97  
papers

24,511  
citations

66234

42  
h-index

46693

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g-index

99  
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99  
docs citations

99  
times ranked

10423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Globally Optimal and Scalable N-way Matching of Astronomy Catalogs. <i>Astronomical Journal</i> , 2022, 163, 296.	1.9	1
2	Probabilistic Association of Transients to their Hosts (PATH). <i>Astrophysical Journal</i> , 2021, 911, 95.	1.6	32
3	Wireless Sensor Network for in situ Soil Moisture Monitoring. , 2021, , .		1
4	A Machine Learning Gateway for Scientific Workflow Design. <i>Scientific Programming</i> , 2020, 2020, 1-15.	0.5	1
5	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
6	Optimal probabilistic catalogue matching for radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 565-573.	1.6	4
7	Sub-band Image Reconstruction Using Differential Chromatic Refraction. <i>Astronomical Journal</i> , 2019, 157, 182.	1.9	3
8	Probabilistic Cross-identification of Multiple Catalogs in Crowded Fields. <i>Astrophysical Journal</i> , 2019, 870, 51.	1.6	7
9	Robust Registration of Astronomy Catalogs with Applications to the Hubble Space Telescope. <i>Astronomical Journal</i> , 2019, 158, 191.	1.9	1
10	Astronomical Knowledge Discovery of Very Faint Galaxies. <i>Procedia Computer Science</i> , 2018, 140, 367-375.	1.2	0
11	The “Sixth Factor” <i>A Social Media Factor Derived Directly from Tweet Sentiments</i>. <i>Journal of Portfolio Management</i> , 2017, 43, 102-111.	0.3	16
12	Faint Object Detection in Multi-Epoch Observations via Catalog Data Fusion. <i>Astrophysical Journal</i> , 2017, 838, 52.	1.6	4
13	MAPPING THE SIMILARITIES OF SPECTRA: GLOBAL AND LOCALLY-BIASED APPROACHES TO SDSS GALAXIES. <i>Astrophysical Journal</i> , 2016, 833, 26.	1.6	6
14	GALAXY REDSHIFTS FROM DISCRETE OPTIMIZATION OF CORRELATION FUNCTIONS. <i>Astronomical Journal</i> , 2016, 152, 155.	1.9	3
15	DOT-K: A distributed online top-K elements algorithm using extreme value statistics. , 2016, , .		0
16	VERSION 1 OF THE HUBBLE SOURCE CATALOG. <i>Astronomical Journal</i> , 2016, 151, 134.	1.9	64
17	Exploring the SDSS photometric galaxies with clustering redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 163-174.	1.6	31
18	PROBABILISTIC CROSS-IDENTIFICATION IN CROWDED FIELDS AS AN ASSIGNMENT PROBLEM. <i>Astronomical Journal</i> , 2016, 152, 86.	1.9	8

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19	The Footprint Database and Web Services of the Herschel Space Observatory. <i>Experimental Astronomy</i> , 2016, 42, 139-164.	1.6	1
20	Photometric redshifts for the SDSS Data Release 12. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1371-1381.	1.6	133
21	Data integration for materials research. <i>Integrating Materials and Manufacturing Innovation</i> , 2016, 5, 143-153.	1.2	6
22	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
23	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
24	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
25	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
26	OBJECTIVE IDENTIFICATION OF INFORMATIVE WAVELENGTH REGIONS IN GALAXY SPECTRA. <i>Astronomical Journal</i> , 2014, 147, 110.	1.9	12
27	Efficient Catalog Matching with Dropout Detection. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 218-223.	1.0	6
28	Astronomy and Computing: A new journal for the astronomical computing community. <i>Astronomy and Computing</i> , 2013, 1, 1-4.	0.8	3
29	A LYMAN BREAK GALAXY IN THE EPOCH OF REIONIZATION FROM HUBBLE SPACE TELESCOPE GRISM SPECTROSCOPY. <i>Astrophysical Journal</i> , 2013, 773, 32.	1.6	14
30	Radio Continuum Surveys with Square Kilometre Array Pathfinders. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, .	1.3	72
31	SkyQuery: Federating Astronomy Archives. <i>Computing in Science and Engineering</i> , 2013, 15, 12-20.	1.2	16
32	CATALOG MATCHING WITH ASTROMETRIC CORRECTION AND ITS APPLICATION TO THE HUBBLE LEGACY ARCHIVE. <i>Astrophysical Journal</i> , 2012, 761, 188.	1.6	14
33	Incremental and Parallel Analytics on Astrophysical Data Streams. , 2012, , .		1
34	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
35	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
36	On Statistical Cross-Identification in Astronomy. <i>Lecture Notes in Statistics</i> , 2012, , 291-302.	0.1	0

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37	PROBABILISTIC CROSS-IDENTIFICATION OF COSMIC EVENTS. <i>Astrophysical Journal</i> , 2011, 736, 155.	1.6	10
38	EFFECT OF INCLINATION OF GALAXIES ON PHOTOMETRIC REDSHIFT. <i>Astrophysical Journal</i> , 2011, 730, 54.	1.6	11
39	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
40	Fitting the integrated spectral energy distributions of galaxies. <i>Astrophysics and Space Science</i> , 2011, 331, 1-51.	0.5	268
41	CORRELATIONS BETWEEN NEBULAR EMISSION AND THE CONTINUUM SPECTRAL SHAPE IN SDSS GALAXIES. <i>Astronomical Journal</i> , 2011, 141, 133.	1.9	6
42	DETERMINING THE ABSOLUTE ASTROMETRIC ERROR IN <i>CHANDRA</i> SOURCE CATALOG POSITIONS. <i>Astrophysical Journal</i> , Supplement Series, 2011, 192, 8.	3.0	23
43	Bayesian approach for matching multiple stellar observations. <i>Journal of Physics: Conference Series</i> , 2010, 218, 012012.	0.3	0
44	RANDOM FORESTS FOR PHOTOMETRIC REDSHIFTS. <i>Astrophysical Journal</i> , 2010, 712, 511-515.	1.6	117
45	CROSS IDENTIFICATION OF STARS WITH UNKNOWN PROPER MOTIONS. <i>Astrophysical Journal</i> , 2010, 719, 59-66.	1.6	14
46	EXTINCTION IN STAR-FORMING DISK GALAXIES FROM INCLINATION-DEPENDENT COMPOSITE SPECTRA. <i>Astrophysical Journal</i> , 2010, 709, 780-790.	1.6	30
47	The GALEX Arecibo 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
48	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
49	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
50	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
51	<i>GALEX</i> -SDSS CATALOGS FOR STATISTICAL STUDIES. <i>Astrophysical Journal</i> , 2009, 694, 1281-1292.	1.6	49
52	A UNIFIED FRAMEWORK FOR PHOTOMETRIC REDSHIFTS. <i>Astrophysical Journal</i> , 2009, 695, 747-754.	1.6	34
53	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
54	CROSS-IDENTIFICATION PERFORMANCE FROM SIMULATED DETECTIONS: <i>GALEX</i> AND SDSS. <i>Astrophysical Journal</i> , 2009, 705, 739-745.	1.6	13

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55	Reliable eigenspectra for new generation surveys. Monthly Notices of the Royal Astronomical Society, 2009, 394, 1496-1502.	1.6	31
56	THE SEVENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY. Astrophysical Journal, Supplement Series, 2009, 182, 543-558.	3.0	4,201
57	The Sixth Data Release of the Sloan Digital Sky Survey. Astrophysical Journal, Supplement Series, 2008, 175, 297-313.	3.0	1,202
58	Probabilistic Cross-Identification of Astronomical Sources. Astrophysical Journal, 2008, 679, 301-309.	1.6	101
59	Clustering Properties of Rest-Frame UV-Selected Galaxies. II. Migration of Star Formation Sites with Cosmic Time from <i>GALEX</i> and CFHTLS. Astrophysical Journal, Supplement Series, 2007, 173, 503-511.	3.0	26
60	Ongoing Formation of Bulges and Black Holes in the Local Universe: New Insights from <i>GALEX</i> . Astrophysical Journal, Supplement Series, 2007, 173, 357-376.	3.0	93
61	The Calibration and Data Products of <i>GALEX</i> . Astrophysical Journal, Supplement Series, 2007, 173, 682-697.	3.0	873
62	Clustering Properties of Rest-Frame UV-Selected Galaxies. I. the Correlation Length Derived from <i>GALEX</i> Data in the Local Universe. Astrophysical Journal, Supplement Series, 2007, 173, 494-502.	3.0	15
63	The UV-Optical Color Magnitude Diagram. II. Physical Properties and Morphological Evolution On and Off of a Star-forming Sequence. Astrophysical Journal, Supplement Series, 2007, 173, 315-341.	3.0	261
64	The UV-Optical Galaxy Color-Magnitude Diagram. I. Basic Properties. Astrophysical Journal, Supplement Series, 2007, 173, 293-314.	3.0	336
65	Statistical Properties of the <i>GALEX</i> -SDSS Matched Source Catalogs, and Classification of the UV Sources. Astrophysical Journal, Supplement Series, 2007, 173, 659-672.	3.0	67
66	The Fifth Data Release of the Sloan Digital Sky Survey. Astrophysical Journal, Supplement Series, 2007, 172, 634-644.	3.0	615
67	Cosmological constraints from the SDSS luminous red galaxies. Physical Review D, 2006, 74, .	1.6	1,132
68	Separating Physical Components from Galaxy Spectra by Subspace Methods. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
69	The Fourth Data Release of the Sloan Digital Sky Survey. Astrophysical Journal, Supplement Series, 2006, 162, 38-48.	3.0	948
70	Spectral Energy Distributions and Multiwavelength Selection of Type 1 Quasars. Astrophysical Journal, Supplement Series, 2006, 166, 470-497.	3.0	908
71	The Ultraviolet Galaxy Luminosity Function from GALEX Data: Color-Dependent Evolution at Low Redshift. Astrophysical Journal, 2005, 619, L19-L22.	1.6	25
72	Fast Edge-corrected Measurement of the Two-Point Correlation Function and the Power Spectrum. Astrophysical Journal, 2005, 631, L1-L4.	1.6	28

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73	GALEX Observations of the Sloan Digital Sky Survey: A Comparison. <i>Astrophysical Journal</i> , 2005, 619, L23-L26.	1.6	30
74	The Ultraviolet Galaxy Luminosity Function in the Local Universe from GALEX Data. <i>Astrophysical Journal</i> , 2005, 619, L15-L18.	1.6	199
75	The Ultraviolet Luminosity Function of GALEX Galaxies at Photometric Redshifts between 0.07 and 0.25. <i>Astrophysical Journal</i> , 2005, 619, L31-L34.	1.6	51
76	The Third Data Release of the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2005, 129, 1755-1759.	1.9	634
77	The Three-dimensional Power Spectrum of Galaxies from the Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2004, 606, 702-740.	1.6	1,426
78	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
79	Cosmological parameters from SDSS and WMAP. <i>Physical Review D</i> , 2004, 69, .	1.6	3,121
80	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
81	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
82	The Second Data Release of the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2004, 128, 502-512.	1.9	953
83	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
84	Cosmological Parameters from Eigenmode Analysis of Sloan Digital Sky Survey Galaxy Redshifts. <i>Astrophysical Journal</i> , 2004, 607, 655-660.	1.6	211
85	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
86	The Application of Photometric Redshifts to the SDSS Early Data Release. <i>Astronomical Journal</i> , 2003, 125, 580-592.	1.9	178
87	The Evolution of the Global Stellar Mass Density at $0 \leq z \leq 3$ . <i>Astrophysical Journal</i> , 2003, 587, 25-40.		395
88	Spatial Clustering of Galaxies in Large Datasets. , 2002, 4847, 1.		3
89	<title>Web services for the Virtual Observatory</title>. , 2002, , .		5
90	The Three-dimensional 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

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91	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
92	An Optimal Multihump Filter for Photometric Redshifts. <i>Astronomical Journal</i> , 2001, 121, 3266-3269.	1.9	11
93	Photometric Redshifts from Reconstructed Quasar Templates. <i>Astronomical Journal</i> , 2001, 122, 1163-1171.	1.9	57
94	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
95	Photometric Redshifts of Quasars. <i>Astronomical Journal</i> , 2001, 122, 1151-1162.	1.9	85
96	Creating Spectral Templates from Multicolor Redshift Surveys. <i>Astronomical Journal</i> , 2000, 120, 1588-1598.	1.9	95
97	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