

# Martin Burgdorf

## List of Publications by Year in descending order

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91  
papers

5,446  
citations

147801

31  
h-index

91884

69  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3596  
citing authors

#	ARTICLE	IF	CITATIONS
1	The In-Orbit Performance of SEVIRI From Observations of Mercury and Venus. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3215-3223.	4.9	0
2	A search for transit timing variations in the HATS-18 planetary system. Monthly Notices of the Royal Astronomical Society, 2022, 515, 3212-3223.	4.4	3
3	An Isolated Stellar-mass Black Hole Detected through Astrometric Microlensing*. Astrophysical Journal, 2022, 933, 83.	4.5	60
4	The Moon at thermal infrared wavelengths: a benchmark for asteroid thermal models. Astronomy and Astrophysics, 2021, 650, A38.	5.1	5
5	Six Outbursts of Comet 46P/Wirtanen. Planetary Science Journal, 2021, 2, 131.	3.6	7
6	Calibration and Characterization of Satellite-Borne Microwave Sounders With the Moon. Earth and Space Science, 2021, 8, e2021EA001725.	2.6	2
7	A new climate data record of upper-tropospheric humidity from microwave observations. Scientific Data, 2020, 7, 218.	5.3	4
8	Characterization of the High-Resolution Infrared Radiation Sounder Using Lunar Observations. Remote Sensing, 2020, 12, 1488.	4.0	3
9	A Study of Lunar Microwave Radiation Based on Satellite Observations. Remote Sensing, 2020, 12, 1129.	4.0	10
10	Opportunistic Constant Target Matching: A New Method for Satellite Intercalibration. Earth and Space Science, 2020, 7, e2019EA000856.	2.6	1
11	Large-scale changes of the cloud coverage in the $\mu$ Indi Ba and Bb system. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3881-3899.	4.4	8
12	OGLE-2017-BLG-0406: Spitzer Microlens Parallax Reveals Saturn-mass Planet Orbiting M-dwarf Host in the Inner Galactic Disk. Astronomical Journal, 2020, 160, 74.	4.7	14
13	Disk-Integrated Lunar Brightness Temperatures between 89 and 190 GHz. Advances in Astronomy, 2019, 2019, 1-8.	1.1	8
14	Transit timing variations in the WASP-4 planetary system. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4230-4236.	4.4	28
15	OGLE-2017-BLG-1186: first application of asteroseismology and Gaussian processes to microlensing. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3308-3323.	4.4	11
16	Onboard Radio Frequency Interference as the Origin of Inter-Satellite Biases for Microwave Humidity Sounders. Remote Sensing, 2019, 11, 866.	4.0	3
17	OGLE-2018-BLG-0022: A Nearby M-dwarf Binary. Astronomical Journal, 2019, 157, 215.	4.7	5
18	Spitzer Microlensing Parallax for OGLE-2017-BLG-0896 Reveals a Counter-rotating Low-mass Brown Dwarf. Astronomical Journal, 2019, 157, 106.	4.7	20

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19	An Uncertainty Quantified Fundamental Climate Data Record for Microwave Humidity Sounders. <i>Remote Sensing</i> , 2019, 11, 548.	4.0	14
20	OGLE-2015-BLG-1649Lb: A Gas Giant Planet around a Low-mass Dwarf. <i>Astronomical Journal</i> , 2019, 158, 212.	4.7	3
21	Inter-channel uniformity of a microwave sounder in space. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4005-4014.	3.1	4
22	High-resolution Imaging of Transiting Extrasolar Planetary systems (HITEP). <i>Astronomy and Astrophysics</i> , 2018, 610, A20.	5.1	19
23	OGLE-2016-BLG-1190Lb: The First Spitzer Bulge Planet Lies Near the Planet/Brown-dwarf Boundary. <i>Astronomical Journal</i> , 2018, 155, 40.	4.7	53
24	Retrieval of an ice water path over the ocean from ISMAR and MARSS millimeter and submillimeter brightness temperatures. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 611-632.	3.1	31
25	Noise performance of microwave humidity sounders over their lifetime. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4927-4945.	3.1	18
26	Many new variable stars discovered in the core of the globular cluster NGC 6715 (Mâ€™54) with EMCCD observations. <i>Astronomy and Astrophysics</i> , 2016, 592, A120.	5.1	3
27	High-resolution Imaging of Transiting Extrasolar Planetary systems (HITEP). <i>Astronomy and Astrophysics</i> , 2016, 589, A58.	5.1	45
28	Campaign 9 of the K2 Mission: Observational Parameters, Scientific Drivers, and Community Involvement for a Simultaneous Space- and Ground-based Microlensing Survey. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 124401.	3.1	79
29	THE SPITZER MICROLENSING PROGRAM AS A PROBE FOR GLOBULAR CLUSTER PLANETS: ANALYSIS OF OGLE-2015-BLG-0448. <i>Astrophysical Journal</i> , 2016, 823, 63.	4.5	39
30	SPITZER PARALLAX OF OGLE-2015-BLG-0966: A COLD NEPTUNE IN THE GALACTIC DISK. <i>Astrophysical Journal</i> , 2016, 819, 93.	4.5	95
31	THE FIRST SIMULTANEOUS MICROLENSING OBSERVATIONS BY TWO SPACE TELESCOPES: SPITZER AND SWIFT REVEAL A BROWN DWARF IN EVENT OGLE-2015-BLG-1319. <i>Astrophysical Journal</i> , 2016, 831, 183.	4.5	21
32	SPITZER OBSERVATIONS OF OGLE-2015-BLG-1212 REVEAL A NEW PATH TOWARD BREAKING STRONG MICROLENS DEGENERACIES. <i>Astrophysical Journal</i> , 2016, 820, 79.	4.5	19
33	MASS MEASUREMENTS OF ISOLATED OBJECTS FROM SPACE-BASED MICROLENSING. <i>Astrophysical Journal</i> , 2016, 825, 60.	4.5	39
34	The Moon as a photometric calibration standard for microwave sensors. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3467-3475.	3.1	16
35	OGLE-2011-BLG-0265Lb: A JOVIAN MICROLENSING PLANET ORBITING AN M DWARF. <i>Astrophysical Journal</i> , 2015, 804, 33.	4.5	45
36	Mid-infrared spectroscopy of Uranus from the Spitzer Infrared Spectrometer: 1. Determination of the mean temperature structure of the upper troposphere and stratosphere. <i>Icarus</i> , 2014, 243, 494-513.	2.5	56

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37	Mid-infrared spectroscopy of Uranus from the Spitzer infrared spectrometer: 2. Determination of the mean composition of the upper troposphere and stratosphere. <i>Icarus</i> , 2014, 243, 471-493.	2.5	53
38	MICROLENSING DISCOVERY OF A POPULATION OF VERY TIGHT, VERY LOW MASS BINARY BROWN DWARFS. <i>Astrophysical Journal</i> , 2013, 768, 129.	4.5	57
39	MOA-2010-BLG-311: A PLANETARY CANDIDATE BELOW THE THRESHOLD OF RELIABLE DETECTION. <i>Astrophysical Journal</i> , 2013, 769, 77.	4.5	17
40	MOA-2010-BLG-328Lb: A SUB-NEPTUNE ORBITING VERY LATE M DWARF?. <i>Astrophysical Journal</i> , 2013, 779, 91.	4.5	45
41	MOA-2010-BLG-523: "FAILED PLANET" RS CVn STAR. <i>Astrophysical Journal</i> , 2013, 763, 141.	4.5	14
42	MOA-2010-BLG-073L: AN M-DWARF WITH A SUBSTELLAR COMPANION AT THE PLANET/BROWN DWARF BOUNDARY. <i>Astrophysical Journal</i> , 2013, 763, 67.	4.5	54
43	The transiting system CJ1214: high-precision defocused transit observations and a search for evidence of transit timing variation. <i>Astronomy and Astrophysics</i> , 2013, 549, A10.	5.1	58
44	A giant planet beyond the snow line in microlensing event OGLE-2011-BLG-0251. <i>Astronomy and Astrophysics</i> , 2013, 552, A70.	5.1	30
45	CHARACTERIZING LOW-MASS BINARIES FROM OBSERVATION OF LONG-TIMESCALE CAUSTIC-CROSSING GRAVITATIONAL MICROLENSING EVENTS. <i>Astrophysical Journal</i> , 2012, 755, 91.	4.5	25
46	A NEW TYPE OF AMBIGUITY IN THE PLANET AND BINARY INTERPRETATIONS OF CENTRAL PERTURBATIONS OF HIGH-MAGNIFICATION GRAVITATIONAL MICROLENSING EVENTS. <i>Astrophysical Journal</i> , 2012, 756, 48.	4.5	20
47	A brown dwarf orbiting an M-dwarf: MOA-2009-BLG-411L. <i>Astronomy and Astrophysics</i> , 2012, 547, A55.	5.1	16
48	MICROLENSING BINARIES DISCOVERED THROUGH HIGH-MAGNIFICATION CHANNEL. <i>Astrophysical Journal</i> , 2012, 746, 127.	4.5	14
49	MOA 2010-BLG-477Lb: CONSTRAINING THE MASS OF A MICROLENSING PLANET FROM MICROLENSING PARALLAX, ORBITAL MOTION, AND DETECTION OF BLENDED LIGHT. <i>Astrophysical Journal</i> , 2012, 754, 73.	4.5	64
50	MICROLENSING BINARIES WITH CANDIDATE BROWN DWARF COMPANIONS. <i>Astrophysical Journal</i> , 2012, 760, 116.	4.5	39
51	A new backup secondary mirror for SOFIA. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
52	CHARACTERIZING LENSES AND LENSED STARS OF HIGH-MAGNIFICATION SINGLE-LENS GRAVITATIONAL MICROLENSING EVENTS WITH LENSES PASSING OVER SOURCE STARS. <i>Astrophysical Journal</i> , 2012, 751, 41.	4.5	27
53	OGLE-2008-BLG-510: first automated real-time detection of a weak microlensing anomaly - brown dwarf or stellar binary?.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 902-918.	4.4	21
54	A SUB-SATURN MASS PLANET, MOA-2009-BLG-319Lb. <i>Astrophysical Journal</i> , 2011, 728, 120.	4.5	58

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55	DISCOVERY AND MASS MEASUREMENTS OF A COLD, 10 EARTH MASS PLANET AND ITS HOST STAR. <i>Astrophysical Journal</i> , 2011, 741, 22.	4.5	117
56	A tale of two GRB-SNe at a common redshift of $z=0.54$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 669-685.	4.4	72
57	MOA-2009-BLG-387Lb: a massive planet orbiting an M dwarf. <i>Astronomy and Astrophysics</i> , 2011, 529, A102.	5.1	131
58	OGLE-2008-BLG-290: an accurate measurement of the limb darkening of a galactic bulge K Giant spatially resolved by microlensing. <i>Astronomy and Astrophysics</i> , 2010, 518, A51.	5.1	14
59	OGLE-2009-BLG-092/MOA-2009-BLG-137: A DRAMATIC REPEATING EVENT WITH THE SECOND PERTURBATION PREDICTED BY REAL-TIME ANALYSIS. <i>Astrophysical Journal</i> , 2010, 723, 81-88.	4.5	36
60	A COLD NEPTUNE-MASS PLANET OGLE-2007-BLG-368Lb: Cold neptunes are common. <i>Astrophysical Journal</i> , 2010, 710, 1641-1653.	4.5	204
61	MASSES AND ORBITAL CONSTRAINTS FOR THE OGLE-2006-BLG-109Lb,c JUPITER/SATURN ANALOG PLANETARY SYSTEM. <i>Astrophysical Journal</i> , 2010, 713, 837-855.	4.5	145
62	FREQUENCY OF SOLAR-LIKE SYSTEMS AND OF ICE AND GAS GIANTS BEYOND THE SNOW LINE FROM HIGH-MAGNIFICATION MICROLENSING EVENTS IN 2005-2008. <i>Astrophysical Journal</i> , 2010, 720, 1073-1089.	4.5	296
63	THE EXTREME MICROLENSING EVENT OGLE-2007-BLG-224: TERRESTRIAL PARALLAX OBSERVATION OF A THICK-DISK BROWN DWARF. <i>Astrophysical Journal</i> , 2009, 698, L147-L151.	4.5	124
64	High-precision photometry by telescope defocusing - I. The transiting planetary system WASP-5. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 1023-1031.	4.4	192
65	High-precision photometry by telescope defocussing - II. The transiting planetary system WASP-4. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 287-294.	4.4	88
66	First Spitzer observations of Neptune: Detection of new hydrocarbons. <i>Icarus</i> , 2008, 197, 585-589.	2.5	31
67	Discovery of a Jupiter/Saturn Analog with Gravitational Microlensing. <i>Science</i> , 2008, 319, 927-930.	12.6	311
68	ARTEMiS (Automated Robotic Terrestrial Exoplanet Microlensing Search) â€“ Hunting for planets of Earth mass and below. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 35-41.	0.0	3
69	An anomaly detector with immediate feedback to hunt for planets of Earth mass and below by microlensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 380, 792-804.	4.4	68
70	Revised ab initio models for H <sub>2</sub> â€“H <sub>2</sub> collision-induced absorption at low temperatures. <i>Icarus</i> , 2007, 189, 544-549.	2.5	41
71	Operating a heterogeneous telescope network. , 2006, , .		3
72	Detection of new hydrocarbons in Uranus' atmosphere by infrared spectroscopy. <i>Icarus</i> , 2006, 184, 634-637.	2.5	90

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73	The Early (<1 hr) Multi-Colour Afterglow of GRB 050502a with the 2-m Liverpool Telescope. <i>Research in Astronomy and Astrophysics</i> , 2006, 6, 330-334.	1.1	0
74	Microlens OGLE-2005-BLG-169 Implies That Cool Neptune-like Planets Are Common. <i>Astrophysical Journal</i> , 2006, 644, L37-L40.	4.5	272
75	The Early Multicolor Afterglow of GRB 050502a: Possible Evidence for a Uniform Medium with Density Clumps. <i>Astrophysical Journal</i> , 2005, 630, L121-L124.	4.5	28
76	The galactic first-look survey with the Spitzer space telescope. <i>Advances in Space Research</i> , 2005, 36, 1050-1056.	2.6	0
77	The infrared spectrograph on the Spitzer Space Telescope. , 2004, 5487, 62.		89
78	The Infrared Spectrograph (IRS) on the Spitzer Space Telescope. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 18-24.	7.7	1,303
79	Spitzer Infrared Spectrograph (IRS) Observations of the Redshift 3.91 Quasar APM 08279+5255. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 151-154.	7.7	22
80	Fire and Ice: Spitzer Infrared Spectrograph (IRS) Mid-Infrared Spectroscopy of IRAS F00183+7111. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 184-187.	7.7	124
81	Observations of Ultraluminous Infrared Galaxies with the Infrared Spectrograph (IRS) on the Spitzer Space Telescope : Early Results on Markarian 1014, Markarian 463, and UGC 5101. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 178-183.	7.7	119
82	Structure and Colors of Diffuse Emission in the Spitzer Galactic First Look Survey. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 281-285.	7.7	23
83	An Aggregate of Young Stellar Disks in Lynds 1228 South. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 433-438.	7.7	10
84	Neptune's far-infrared spectrum from the ISO long-wavelength and short-wavelength spectrometers. <i>Icarus</i> , 2003, 164, 244-253.	2.5	36
85	Title is missing!. <i>Experimental Astronomy</i> , 2000, 10, 157-176.	3.7	5
86	ISOPHOT 170 $\mu$ m Serendipity Sky Survey: The First Galaxy Catalogue. <i>Lecture Notes in Physics</i> , 2000, , 251-258.	0.7	1
87	<title>Automatic data processing and quality control: experiences from ISO-LWS</title>. , 1998, , .		4
88	In-orbit performance of the ISO long-wavelength spectrometer. , 1998, 3354, 888.		30
89	Long-term performance of doped Ge:Ga photoconductors in the space environment. , 1998, 3354, 347.		4
90	<title>ISOPHOT far-infrared serendipity sky survey</title>. , 1998, 3349, 115.		5

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91	Physical properties of near-Earth asteroid (2102) Tantalus from multi-wavelength observations. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2