Martin Burgdorf

List of Publications by Year
in descending order

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91	5,446	147801	91884
papers	citations	31 h-index	69 g-index

109	109	109	3596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Infrared Spectrograph (IRS) on the Spitzer Space Telescope. Astrophysical Journal, Supplement Series, 2004, 154, 18-24.	7.7	1,303
2	Discovery of a Jupiter/Saturn Analog with Gravitational Microlensing. Science, 2008, 319, 927-930.	12.6	311
3	FREQUENCY OF SOLAR-LIKE SYSTEMS AND OF ICE AND GAS GIANTS BEYOND THE SNOW LINE FROM HIGH-MAGNIFICATION MICROLENSING EVENTS IN 2005-2008. Astrophysical Journal, 2010, 720, 1073-1089.	4.5	296
4	Microlens OGLE-2005-BLG-169 Implies That Cool Neptune-like Planets Are Common. Astrophysical Journal, 2006, 644, L37-L40.	4.5	272
5	A COLD NEPTUNE-MASS PLANET OGLE-2007-BLG-368Lb: Cold neptunes are common. Astrophysical Journal, 2010, 710, 1641-1653.	4.5	204
6	High-precision photometry by telescope defocusing - I. The transiting planetary system WASP-5. Monthly Notices of the Royal Astronomical Society, 2009, 396, 1023-1031.	4.4	192
7	MASSES AND ORBITAL CONSTRAINTS FOR THE OGLE-2006-BLG-109Lb,c JUPITER/SATURN ANALOG PLANETARY SYSTEM. Astrophysical Journal, 2010, 713, 837-855.	4.5	145
8	MOA-2009-BLG-387Lb: a massive planet orbiting an M dwarf. Astronomy and Astrophysics, 2011, 529, A102.	5.1	131
9	Fire and Ice: Spitzer Infrared Spectrograph (IRS) Midâ€Infrared Spectroscopy of IRAS F00183â˜'7111. Astrophysical Journal, Supplement Series, 2004, 154, 184-187.	7.7	124
10	THE EXTREME MICROLENSING EVENT OGLE-2007-BLG-224: TERRESTRIAL PARALLAX OBSERVATION OF A THICK-DISK BROWN DWARF. Astrophysical Journal, 2009, 698, L147-L151.	4.5	124
11	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. Astrophysical Journal, Supplement Series, 2004, 154, 178-183.	7.7	119
12	DISCOVERY AND MASS MEASUREMENTS OF A COLD, 10 EARTH MASS PLANET AND ITS HOST STAR. Astrophysical Journal, 2011, 741, 22.	4.5	117
13	SPITZER PARALLAX OF OGLE-2015-BLG-0966: A COLD NEPTUNE IN THE GALACTIC DISK. Astrophysical Journal, 2016, 819, 93.	4.5	95
14	Detection of new hydrocarbons in Uranus' atmosphere by infrared spectroscopy. Icarus, 2006, 184, 634-637.	2.5	90
15	The infrared spectrograph on the Spitzer Space Telescope. , 2004, 5487, 62.		89
16	High-precision photometry by telescope defocussing - II. The transiting planetary system WASP-4. Monthly Notices of the Royal Astronomical Society, 2009, 399, 287-294.	4.4	88
17	Campaign 9 of theK2Mission: Observational Parameters, Scientific Drivers, and Community Involvement for a Simultaneous Space- and Ground-based Microlensing Survey. Publications of the Astronomical Society of the Pacific, 2016, 128, 124401.	3.1	79
18	A tale of two GRB-SNe at a common redshift of z=0.54. Monthly Notices of the Royal Astronomical Society, 2011, 413, 669-685.	4.4	72

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19	An anomaly detector with immediate feedback to hunt for planets of Earth mass and below by microlensing. Monthly Notices of the Royal Astronomical Society, 2007, 380, 792-804.	4.4	68
20	MOA 2010-BLG-477Lb: CONSTRAINING THE MASS OF A MICROLENSING PLANET FROM MICROLENSING PARALLAX, ORBITAL MOTION, AND DETECTION OF BLENDED LIGHT. Astrophysical Journal, 2012, 754, 73.	4.5	64
21	An Isolated Stellar-mass Black Hole Detected through Astrometric Microlensing*. Astrophysical Journal, 2022, 933, 83.	4.5	60
22	A SUB-SATURN MASS PLANET, MOA-2009-BLG-319Lb. Astrophysical Journal, 2011, 728, 120.	4.5	58
23	The transiting system GJ1214: high-precision defocused transit observations and a search for evidence of transit timing variation. Astronomy and Astrophysics, 2013, 549, A10.	5.1	58
24	MICROLENSING DISCOVERY OF A POPULATION OF VERY TIGHT, VERY LOW MASS BINARY BROWN DWARFS. Astrophysical Journal, 2013, 768, 129.	4.5	57
25	Mid-infrared spectroscopy of Uranus from the Spitzer Infrared Spectrometer: 1. Determination of the mean temperature structure of the upper troposphere and stratosphere. Icarus, 2014, 243, 494-513.	2.5	56
26	MOA-2010-BLG-073L: AN M-DWARF WITH A SUBSTELLAR COMPANION AT THE PLANET/BROWN DWARF BOUNDARY. Astrophysical Journal, 2013, 763, 67.	4.5	54
27	Mid-infrared spectroscopy of Uranus from the Spitzer infrared spectrometer: 2. Determination of the mean composition of the upper troposphere and stratosphere. Icarus, 2014, 243, 471-493.	2.5	53
28	OGLE-2016-BLG-1190Lb: The First Spitzer Bulge Planet Lies Near the Planet/Brown-dwarf Boundary. Astronomical Journal, 2018, 155, 40.	4.7	53
29	MOA-2010-BLG-328Lb: A SUB-NEPTUNE ORBITING VERY LATE M DWARF?. Astrophysical Journal, 2013, 779, 91.	4.5	45
30	OGLE-2011-BLG-0265Lb: A JOVIAN MICROLENSING PLANET ORBITING AN M DWARF. Astrophysical Journal, 2015, 804, 33.	4.5	45
31	High-resolution Imaging of Transiting Extrasolar Planetary systems (HITEP). Astronomy and Astrophysics, 2016, 589, A58.	5.1	45
32	Revised ab initio models for H2â€“H2 collision-induced absorption at low temperatures. Icarus, 2007, 189, 544-549.	2.5	41
33	MICROLENSING BINARIES WITH CANDIDATE BROWN DWARF COMPANIONS. Astrophysical Journal, 2012, 760, 116.	4.5	39
34	THE SPITZER MICROLENSING PROGRAM AS A PROBE FOR GLOBULAR CLUSTER PLANETS: ANALYSIS OF OGLE-2015-BLG-0448. Astrophysical Journal, 2016, 823, 63.	4.5	39
35	MASS MEASUREMENTS OF ISOLATED OBJECTS FROM SPACE-BASED MICROLENSING. Astrophysical Journal, 2016, 825, 60.	4.5	39
36	Neptune's far-infrared spectrum from the ISO long-wavelength and short-wavelength spectrometers. Icarus, 2003, 164, 244-253.	2.5	36

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37	OGLE-2009-BLG-092/MOA-2009-BLG-137: A DRAMATIC REPEATING EVENT WITH THE SECOND PERTURBATION PREDICTED BY REAL-TIME ANALYSIS. Astrophysical Journal, 2010, 723, 81-88.	4.5	36
38	First Spitzer observations of Neptune: Detection of new hydrocarbons. Icarus, 2008, 197, 585-589.	2.5	31
39	Retrieval of an ice water path over the ocean from ISMAR and MARSS millimeter and submillimeter brightness temperatures. Atmospheric Measurement Techniques, 2018, 11, 611-632.	3.1	31
40	In-orbit performance of the ISO long-wavelength spectrometer. , 1998, 3354, 888.		30
41	A giant planet beyond the snow line in microlensing event OGLE-2011-BLG-0251. Astronomy and Astrophysics, 2013, 552, A70.	5.1	30
42	The Early Multicolor Afterglow of GRB 050502a: Possible Evidence for a Uniform Medium with Density Clumps. Astrophysical Journal, 2005, 630, L121-L124.	4.5	28
43	Transit timing variations in the WASP-4 planetary system. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4230-4236.	4.4	28
44	CHARACTERIZING LENSES AND LENSED STARS OF HIGH-MAGNIFICATION SINGLE-LENS GRAVITATIONAL MICROLENSING EVENTS WITH LENSES PASSING OVER SOURCE STARS. Astrophysical Journal, 2012, 751, 41.	4.5	27
45	CHARACTERIZING LOW-MASS BINARIES FROM OBSERVATION OF LONG-TIMESCALE CAUSTIC-CROSSING GRAVITATIONAL MICROLENSING EVENTS. Astrophysical Journal, 2012, 755, 91.	4.5	25
46	Structure and Colors of Diffuse Emission in the Spitzer Galactic First Look Survey. Astrophysical Journal, Supplement Series, 2004, 154, 281-285.	7.7	23
47	Spitzer Infrared Spectrograph (IRS) Observations of the Redshift 3.91 Quasar APM 08279+5255. Astrophysical Journal, Supplement Series, 2004, 154, 151-154.	7.7	22
48	OGLE-2008-BLG-510: first automated real-time detection of a weak microlensing anomaly - brown dwarf or stellar binary?â˜.... Monthly Notices of the Royal Astronomical Society, 2012, 424, 902-918.	4.4	21
49	THE FIRST SIMULTANEOUS MICROLENSING OBSERVATIONS BY TWO SPACE TELESCOPES: SPITZER AND SWIFT REVEAL A BROWN DWARF IN EVENT OGLE-2015-BLG-1319. Astrophysical Journal, 2016, 831, 183.	4.5	21
50	A NEW TYPE OF AMBIGUITY IN THE PLANET AND BINARY INTERPRETATIONS OF CENTRAL PERTURBATIONS OF HIGH-MAGNIFICATION GRAVITATIONAL MICROLENSING EVENTS. Astrophysical Journal, 2012, 756, 48.	4.5	20
51	Spitzer Microlensing Parallax for OGLE-2017-BLG-0896 Reveals a Counter-rotating Low-mass Brown Dwarf. Astronomical Journal, 2019, 157, 106.	4.7	20
52	SPITZER OBSERVATIONS OF OGLE-2015-BLG-1212 REVEAL A NEW PATH TOWARD BREAKING STRONG MICROLENS DEGENERACIES. Astrophysical Journal, 2016, 820, 79.	4.5	19
53	High-resolution Imaging of Transiting Extrasolar Planetary systems (HITEP). Astronomy and Astrophysics, 2018, 610, A20.	5.1	19
54	Noise performance of microwave humidity sounders over their lifetime. Atmospheric Measurement Techniques, 2017, 10, 4927-4945.	3.1	18

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55	MOA-2010-BLG-311: A PLANETARY CANDIDATE BELOW THE THRESHOLD OF RELIABLE DETECTION. Astrophysical Journal, 2013, 769, 77.	4.5	17
56	A brown dwarf orbiting an M-dwarf: MOAÂ2009â€“BLGâ€“411L. Astronomy and Astrophysics, 2012, 547, A55.	5.1	16
57	The Moon as a photometric calibration standard for microwave sensors. Atmospheric Measurement Techniques, 2016, 9, 3467-3475.	3.1	16
58	OGLEÂ2008â€“BLGâ€“290: an accurate measurement of the limb darkening of a galactic bulge K Giant spatially resolved by microlensing. Astronomy and Astrophysics, 2010, 518, A51.	5.1	14
59	MICROLENSING BINARIES DISCOVERED THROUGH HIGH-MAGNIFICATION CHANNEL. Astrophysical Journal, 2012, 746, 127.	4.5	14
60	MOA-2010-BLG-523: â€œFAILED PLANETâ€• RS CVn STAR. Astrophysical Journal, 2013, 763, 141.	4.5	14
61	An Uncertainty Quantified Fundamental Climate Data Record for Microwave Humidity Sounders. Remote Sensing, 2019, 11, 548.	4.0	14
62	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
63	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
64	A Study of Lunar Microwave Radiation Based on Satellite Observations. Remote Sensing, 2020, 12, 1129.	4.0	10
65	An Aggregate of Young Stellar Disks in Lynds 1228 South. Astrophysical Journal, Supplement Series, 2004, 154, 433-438.	7.7	10
66	Disk-Integrated Lunar Brightness Temperatures between 89 and 190 GHz. Advances in Astronomy, 2019, 2019, 1-8.	1.1	8
67	Large-scale changes of the cloud coverage in the Ïµ Indi Ba and Bb system. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3881-3899.	4.4	8
68	Six Outbursts of Comet 46P/Wirtanen. Planetary Science Journal, 2021, 2, 131.	3.6	7
69	<title>ISOPHOT far-infrared serendipity sky survey</title>. , 1998, 3349, 115.		5
70	Title is missing!. Experimental Astronomy, 2000, 10, 157-176.	3.7	5
71	OGLE-2018-BLG-0022: A Nearby M-dwarf Binary. Astronomical Journal, 2019, 157, 215.	4.7	5
72	The Moon at thermal infrared wavelengths: a benchmark for asteroid thermal models. Astronomy and Astrophysics, 2021, 650, A38.	5.1	5

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73	<title>Automatic data processing and quality control: experiences from ISO-LWS</title>. , 1998, , .		4
74	Long-term performance of doped Ge:Ga photoconductors in the space environment. , 1998, 3354, 347.		4
75	Inter-channel uniformity of a microwave sounder in space. Atmospheric Measurement Techniques, 2018, 11, 4005-4014.	3.1	4
76	A new climate data record of upper-tropospheric humidity from microwave observations. Scientific Data, 2020, 7, 218.	5.3	4
77	Operating a heterogeneous telescope network. , 2006, , .		3
78	ARTEMiS (Automated Robotic Terrestrial Exoplanet Microlensing Search) â€“ Hunting for planets of Earth mass and below. Proceedings of the International Astronomical Union, 2007, 3, 35-41.	0.0	3
79	Many new variable stars discovered in the core of the globular cluster NGC 6715 (Mâ€‰54) with EMCCD observations. Astronomy and Astrophysics, 2016, 592, A120.	5.1	3
80	Onboard Radio Frequency Interference as the Origin of Inter-Satellite Biases for Microwave Humidity Sounders. Remote Sensing, 2019, 11, 866.	4.0	3
81	OGLE-2015-BLG-1649Lb: A Gas Giant Planet around a Low-mass Dwarf. Astronomical Journal, 2019, 158, 212.	4.7	3
82	Characterization of the High-Resolution Infrared Radiation Sounder Using Lunar Observations. Remote Sensing, 2020, 12, 1488.	4.0	3
83	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
84	Calibration and Characterization of Satelliteâ€Borne Microwave Sounders With the Moon. Earth and Space Science, 2021, 8, e2021EA001725.	2.6	2
85	Physical properties of near-Earth asteroid (2102) Tantalus from multi-wavelength observations. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2
86	Opportunistic Constant Target Matchingâ€”A New Method for Satellite Intercalibration. Earth and Space Science, 2020, 7, e2019EA000856.	2.6	1
87	ISOPHOT 170 Î¼m Serendipity Sky Survey: The First Galaxy Catalogue. Lecture Notes in Physics, 2000, , 251-258.	0.7	1
88	The galactic first-look survey with the Spitzer space telescope. Advances in Space Research, 2005, 36, 1050-1056.	2.6	0
89	The Early (<1 hr) Multiâ€“Colour Afterglow of GRB 050502a with the 2-m Liverpool Telescope. Research in Astronomy and Astrophysics, 2006, 6, 330-334.	1.1	0
90	A new backup secondary mirror for SOFIA. Proceedings of SPIE, 2012, , .	0.8	0

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91	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