

# Matthew J Lehner

## List of Publications by Citations

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99  
ext. papers

4,586  
ext. citations

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L-index

#	Paper	IF	Citations
90	The MACHO Project: Microlensing Results from 5.7 Years of Large Magellanic Cloud Observations. <i>Astrophysical Journal</i> , <b>2000</b> , 542, 281-307	4.7	650
89	The MACHO Project Large Magellanic Cloud Microlensing Results from the First Two Years and the Nature of the Galactic Dark Halo. <i>Astrophysical Journal</i> , <b>1997</b> , 486, 697-726	4.7	400
88	MACHO Project Limits on Black Hole Dark Matter in the 1B0 [ITAL]M[/ITAL][TINF]?[/TINF] Range. <i>Astrophysical Journal</i> , <b>2001</b> , 550, L169-L172	4.7	195
87	The MACHO Project: Microlensing Optical Depth toward the Galactic Bulge from Difference Image Analysis. <i>Astrophysical Journal</i> , <b>2000</b> , 541, 734-766	4.7	144
86	EROS and MACHO Combined Limits on Planetary-Mass Dark Matter in the Galactic Halo. <i>Astrophysical Journal</i> , <b>1998</b> , 499, L9-L12	4.7	129
85	MACHO Alert 95-30: First Real-Time Observation of Extended Source Effects in Gravitational Microlensing. <i>Astrophysical Journal</i> , <b>1997</b> , 491, 436-450	4.7	126
84	New limits on primordial black hole dark matter from an analysis of Kepler source microlensing data. <i>Physical Review Letters</i> , <b>2013</b> , 111, 181302	7.4	108
83	Microlensing Optical Depth toward the Galactic Bulge Using Clump Giants from the MACHO Survey. <i>Astrophysical Journal</i> , <b>2005</b> , 631, 879-905	4.7	105
82	Combined Analysis of the Binary Lens Caustic-crossing Event MACHO 98-SMC-1. <i>Astrophysical Journal</i> , <b>2000</b> , 532, 340-352	4.7	95
81	The MACHO Project Large Magellanic Cloud Variable Star Inventory. XI. Frequency Analysis of the Fundamental-Mode RR Lyrae Stars. <i>Astrophysical Journal</i> , <b>2003</b> , 598, 597-609	4.7	90
80	Limits on WIMP cross-sections from the NAIAD experiment at the Boulby Underground Laboratory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 616, 17-24	4.2	88
79	First limits on nuclear recoil events from the ZEPLIN I galactic dark matter detector. <i>Astroparticle Physics</i> , <b>2005</b> , 23, 444-462	2.4	88
78	Gravitational Microlensing Events Due to Stellar-Mass Black Holes. <i>Astrophysical Journal</i> , <b>2002</b> , 579, 639-659	4.7	86
77	Binary Microlensing Events from the MACHO Project. <i>Astrophysical Journal</i> , <b>2000</b> , 541, 270-297	4.7	86
76	THE OUTER SOLAR SYSTEM ORIGINS SURVEY. I. DESIGN AND FIRST-QUARTER DISCOVERIES. <i>Astronomical Journal</i> , <b>2016</b> , 152, 70	4.9	84
75	The MACHO Project 9 Million Star Color-Magnitude Diagram of the Large Magellanic Cloud. <i>Astronomical Journal</i> , <b>2000</b> , 119, 2194-2213	4.9	80
74	The MACHO Project LMC Variable Star Inventory. VII. The Discovery of RV Tauri Stars and New Type II Cepheids in the Large Magellanic Cloud. <i>Astronomical Journal</i> , <b>1998</b> , 115, 1921-1933	4.9	76

73	Col-OSSOS: Colors of the Interstellar Planetesimal 11/Dumumua. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 851, L38	7.9	75
72	EXPERIMENTAL LIMITS ON PRIMORDIAL BLACK HOLE DARK MATTER FROM THE FIRST 2 YR OF KEPLER DATA. <i>Astrophysical Journal</i> , <b>2014</b> , 786, 158	4.7	74
71	Variability-selected Quasars in MACHO Project Magellanic Cloud Fields. <i>Astronomical Journal</i> , <b>2003</b> , 125, 1-12	4.9	73
70	OSSOS. VII. 800+ Trans-Neptunian Objects—The Complete Data Release. <i>Astrophysical Journal Supplement Series</i> , <b>2018</b> , 236, 18	8	71
69	The MACHO Project LMC Variable Star Inventory. V. Classification and Orbits of 611 Eclipsing Binary Stars. <i>Astronomical Journal</i> , <b>1997</b> , 114, 326	4.9	67
68	The MACHO Project LMC Variable Star Inventory. X. The R Coronae Borealis Stars. <i>Astrophysical Journal</i> , <b>2001</b> , 554, 298-315	4.7	65
67	DISCOVERY OF A NEW RETROGRADE TRANS-NEPTUNIAN OBJECT: HINT OF A COMMON ORBITAL PLANE FOR LOW SEMI-MAJOR AXIS, HIGH-INCLINATION TNOs AND CENTAURS. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 827, L24	7.9	61
66	Repetitive patterns in rapid optical variations in the nearby black-hole binary V404 Cygni. <i>Nature</i> , <b>2016</b> , 529, 54-8	50.4	58
65	The MACHO Project Large Magellanic Cloud Variable Star Inventory. III. Multimode RR Lyrae Stars, Distance to the Large Magellanic Cloud, and Age of the Oldest Stars. <i>Astrophysical Journal</i> , <b>1997</b> , 482, 89-97	4.7	58
64	First Detection of a Gravitational Microlensing Candidate toward the Small Magellanic Cloud. <i>Astrophysical Journal</i> , <b>1997</b> , 491, L11-L13	4.7	55
63	The RR Lyrae Population of the Galactic Bulge from the MACHO Database: Mean Colors and Magnitudes. <i>Astrophysical Journal</i> , <b>1998</b> , 492, 190-199	4.7	53
62	The MACHO Project: Microlensing Detection Efficiency. <i>Astrophysical Journal Supplement Series</i> , <b>2001</b> , 136, 439-462	8	50
61	Mass-losing Semiregular Variable Stars in Baade's Windows. <i>Astrophysical Journal</i> , <b>2001</b> , 552, 289-308	4.7	49
60	All planetesimals born near the Kuiper belt formed as binaries. <i>Nature Astronomy</i> , <b>2017</b> , 1,	12.1	47
59	Difference Image Analysis of Galactic Microlensing. I. Data Analysis. <i>Astrophysical Journal</i> , <b>1999</b> , 521, 602-612	4.7	45
58	Detectability of Occultations of Stars by Objects in the Kuiper Belt and Oort Cloud. <i>Astronomical Journal</i> , <b>2007</b> , 134, 1596-1612	4.9	41
57	Discovery and Characterization of a Caustic Crossing Microlensing Event in the Small Magellanic Cloud. <i>Astrophysical Journal</i> , <b>1999</b> , 518, 44-49	4.7	38
56	Col-OSSOS: z-Band Photometry Reveals Three Distinct TNO Surface Types. <i>Astronomical Journal</i> , <b>2017</b> , 154, 101	4.9	37

55	The MACHO Project Large Magellanic Cloud Variable-Star Inventory. XIII. Fourier Parameters for the First-Overtone RR Lyrae Variables and the LMC Distance. <i>Astronomical Journal</i> , <b>2004</b> , 127, 334-354	4-9	35
54	The MACHO Project LMC Variable Star Inventory. VI. The Second Overtone Mode of Cepheid Pulsation from First/Second Overtone Beat Cepheids. <i>Astrophysical Journal</i> , <b>1999</b> , 511, 185-192	4-7	35
53	Is the Large Magellanic Cloud Microlensing Due to an Intervening Dwarf Galaxy?. <i>Astrophysical Journal</i> , <b>1997</b> , 490, L59-L63	4-7	35
52	The MACHO Project Hubble Space Telescope Follow-Up: Preliminary Results on the Location of the Large Magellanic Cloud Microlensing Source Stars. <i>Astrophysical Journal</i> , <b>2001</b> , 552, 582-590	4-7	34
51	THE TAOS PROJECT: RESULTS FROM SEVEN YEARS OF SURVEY DATA. <i>Astronomical Journal</i> , <b>2013</b> , 146, 14	4-9	33
50	THE TAOS PROJECT: UPPER BOUNDS ON THE POPULATION OF SMALL KUIPER BELT OBJECTS AND TESTS OF MODELS OF FORMATION AND EVOLUTION OF THE OUTER SOLAR SYSTEM. <i>Astronomical Journal</i> , <b>2010</b> , 139, 1499-1514	4-9	30
49	MACHO 96-LMC-2: Lensing of a Binary Source in the Large Magellanic Cloud and Constraints on the Lensing Object. <i>Astrophysical Journal</i> , <b>2001</b> , 552, 259-267	4-7	30
48	A SEARCH FOR OCCULTATIONS OF BRIGHT STARS BY SMALL KUIPER BELT OBJECTS USING MEGACAM ON THE MMT. <i>Astronomical Journal</i> , <b>2009</b> , 138, 568-578	4-9	26
47	The MACHO Project Large Magellanic Cloud Variable Star Inventory. XII. Three Cepheid Variables in Eclipsing Binaries. <i>Astrophysical Journal</i> , <b>2002</b> , 573, 338-350	4-7	26
46	Galactic Bulge Microlensing Events from the MACHO Collaboration. <i>Astrophysical Journal</i> , <b>2005</b> , 631, 906-934	4-7	24
45	Microlensing of Kepler stars as a method of detecting primordial black hole dark matter. <i>Physical Review Letters</i> , <b>2011</b> , 107, 231101	7-4	23
44	The Taiwanese-American Occultation Survey: The Multi-Telescope Robotic Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2009</b> , 121, 138-152	5	23
43	Col-OSSOS: The Colors of the Outer Solar System Origins Survey. <i>Astrophysical Journal, Supplement Series</i> , <b>2019</b> , 243, 12	8	22
42	First Results from the Taiwanese-American Occultation Survey (TAOS). <i>Astrophysical Journal</i> , <b>2008</b> , 685, L157-L160	4-7	21
41	The MACHO Project Sample of Galactic Bulge High-Amplitude $\delta$ Scuti Stars: Pulsation Behavior and Stellar Properties. <i>Astrophysical Journal</i> , <b>2000</b> , 536, 798-815	4-7	20
40	Difference Image Analysis of Galactic Microlensing. II. Microlensing Events. <i>Astrophysical Journal, Supplement Series</i> , <b>1999</b> , 124, 171-179	8	20
39	The Zero Point of Extinction toward Baade's Window from RR Lyrae Stars. <i>Astrophysical Journal</i> , <b>1998</b> , 494, 396-399	4-7	19
38	Col-OSSOS: Color and Inclination Are Correlated throughout the Kuiper Belt. <i>Astronomical Journal</i> , <b>2019</b> , 157, 94	4-9	18

37	OSSOS. IV. DISCOVERY OF A DWARF PLANET CANDIDATE IN THE 9:2 RESONANCE WITH NEPTUNE. <i>Astronomical Journal</i> , <b>2016</b> , 152, 212	4.9	16
36	TAOS: The Taiwanese-American Occultation Survey. <i>Earth, Moon and Planets</i> , <b>2003</b> , 92, 459-464	0.6	15
35	UPPER LIMITS ON THE NUMBER OF SMALL BODIES IN SEDNA-LIKE ORBITS BY THE TAOS PROJECT. <i>Astronomical Journal</i> , <b>2009</b> , 138, 1893-1901	4.9	13
34	Astrometry with the MACHO Data Archive. I. High Proper Motion Stars toward the Galactic Bulge and Magellanic Clouds. <i>Astrophysical Journal</i> , <b>2001</b> , 562, 337-347	4.7	12
33	GRB 071112C: A CASE STUDY OF DIFFERENT MECHANISMS IN X-RAY AND OPTICAL TEMPORAL EVOLUTION. <i>Astrophysical Journal</i> , <b>2012</b> , 748, 44	4.7	11
32	Early Optical Brightening in GRB 071010B. <i>Astrophysical Journal</i> , <b>2008</b> , 679, L5-L8	4.7	11
31	Searching for moving objects in HSC-SSP: Pipeline and preliminary results. <i>Publication of the Astronomical Society of Japan</i> , <b>2018</b> , 70,	3.2	10
30	The Transneptunian Automated Occultation Survey (TAOS II) <b>2012</b> ,		8
29	Status of the Transneptunian Automated Occultation Survey (TAOS II) <b>2016</b> ,		7
28	The TAOS Project: Statistical Analysis of Multi-Telescope Time Series Data. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2010</b> , 122, 959-975	5	7
27	Status of the Transneptunian Automated Occultation Survey (TAOS II) <b>2014</b> ,		6
26	THE TAIWANESE-AMERICAN OCCULTATION SURVEY PROJECT STELLAR VARIABILITY. II. DETECTION OF 15 VARIABLE STARS. <i>Astronomical Journal</i> , <b>2010</b> , 139, 2026-2033	4.9	6
25	THE TAIWAN-AMERICAN OCCULTATION SURVEY PROJECT STELLAR VARIABILITY. I. DETECTION OF LOW-AMPLITUDE OSCILLATING STARS. <i>Astronomical Journal</i> , <b>2010</b> , 139, 757-764	4.9	6
24	The TAOS Project: High-Speed Crowded Field Aperture Photometry. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2009</b> , 121, 1429-1439	5	6
23	OSSOS. XVIII. Constraining Migration Models with the 2:1 Resonance Using the Outer Solar System Origins Survey. <i>Astronomical Journal</i> , <b>2019</b> , 158, 214	4.9	5
22	The Contribution of Dwarf Planets to the Origin of Jupiter Family Comets. <i>Astronomical Journal</i> , <b>2019</b> , 158, 184	4.9	5
21	TAOS I The Taiwanese-American Occultation Survey. <i>Astronomische Nachrichten</i> , <b>2006</b> , 327, 814-817	0.7	5
20	OSSOS. XII. Variability Studies of 65 Trans-Neptunian Objects Using the Hyper Suprime-Cam. <i>Astrophysical Journal, Supplement Series</i> , <b>2019</b> , 244, 19	8	3

19	Nuclear recoil limits from the ZEPLIN I liquid xenon WIMP dark matter detector. <i>New Astronomy Reviews</i> , <b>2005</b> , 49, 245-249	7.9	3
18	Characteristic of e2v CMOS sensors for astronomical applications <b>2014</b> ,		2
17	The prototype cameras for trans-Neptunian automatic occultation survey <b>2016</b> ,		2
16	The MACHO Project: Microlensing Optical Depth toward the Galactic Bulge from Difference Image Analysis. <i>Astrophysical Journal</i> , <b>2001</b> , 557, 1035-1035	4.7	2
15	High speed wide field CMOS camera for Transneptunian Automatic Occultation Survey <b>2014</b> ,		1
14	THE TAIWANESE-AMERICAN OCCULTATION SURVEY PROJECT STELLAR VARIABILITY. III. DETECTION OF 58 NEW VARIABLE STARS. <i>Astronomical Journal</i> , <b>2014</b> , 147, 70	4.9	1
13	Status of the Transneptunian Automated Occultation Survey (TAOS II) <b>2018</b> ,		1
12	STATUS OF THE TAOS PROJECT AND A SIMULATOR FOR TNO OCCULTATION <b>2006</b> , 345-358		1
11	OSSOS. XXIII. 2013 VZ70 and the Temporary Coorbitals of the Giant Planets. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 212	2.9	1
10	Col-OSSOS: The Distinct Color Distribution of Single and Binary Cold Classical KBOs. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 90	2.9	1
9	A 9 megapixel large-area back-thinned CMOS sensor with high sensitivity and high frame-rate for the TAOS II program <b>2016</b> ,		1
8	The TAOS II Survey: Real-time Detection and Characterization of Occultation Events. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2021</b> , 133, 034503	5	1
7	FOSSIL. I. The Spin Rate Limit of Jupiter Trojans. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 191	2.9	1
6	FOSSIL. II. The Rotation Periods of Small-sized Hilda Asteroids. <i>Astrophysical Journal, Supplement Series</i> , <b>2022</b> , 259, 7	8	1
5	Simultaneous Detection of Optical Flares of the Magnetically Active M-dwarf Wolf359. <i>Astronomical Journal</i> , <b>2022</b> , 163, 164	4.9	0
4	Recent results of the dark matter search with NaI(Tl) detectors at Boulby mine. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2003</b> , 124, 193-196		
3	Col-OSSOS: Probing Ice Line/Color Transitions within the Kuiper Belt's Progenitor Populations. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 9	2.9	
2	Long-term Dynamical Stability in the Outer Solar System. I. The Regular and Chaotic Evolution of the 34 Largest Trans-Neptunian Objects. <i>Astronomical Journal</i> , <b>2021</b> , 162, 164	4.9	

- 1 2018 August 15 stellar occultation by minor planet (134340) Pluto. *Monthly Notices of the Royal Astronomical Society*, **2022**, 511, 5550-5559 43