Marc J Kuchner

List of Publications by Year
in descending order

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53	1,829	257450 24	289244 40
papers	citations	h-index	g-index

53	53	53	1446
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	THE SPITZER INFRARED SPECTROGRAPH DEBRIS DISK CATALOG. I. CONTINUUM ANALYSIS OF UNRESOLVED TARGETS. Astrophysical Journal, Supplement Series, 2014, 211, 25.	7.7	196
2	PROBING FOR EXOPLANETS HIDING IN DUSTY DEBRIS DISKS: DISK IMAGING, CHARACTERIZATION, AND EXPLORATION WITHHST/STIS MULTI-ROLL CORONAGRAPHY. Astronomical Journal, 2014, 148, 59.	4.7	169
3	The Geometry of Resonant Signatures in Debris Disks with Planets. Astrophysical Journal, 2003, 588, 1110-1120.	4.5	134
4	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A CLOSE SUBSTELLAR COMPANION TO THE YOUNG DEBRIS DISK STAR PZ Tel. Astrophysical Journal Letters, 2010, 720, L82-L87.	8.3	112
5	The Field Substellar Mass Function Based on the Full-sky 20 pc Census of 525 L, T, and Y Dwarfs. Astrophysical Journal, Supplement Series, 2021, 253, 7.	7.7	87
6	REVEALING ASYMMETRIES IN THE HD 181327 DEBRIS DISK: A RECENT MASSIVE COLLISION OR INTERSTELLAR MEDIUM WARPING. Astrophysical Journal, 2014, 789, 58.	4.5	81
7	The Detectability of Exoâ€Earths and Superâ€Earths Via Resonant Signatures in Exozodiacal Clouds. Astrophysical Journal, 2008, 686, 637-648.	4.5	75
8	APOCENTER GLOW IN ECCENTRIC DEBRIS DISKS: IMPLICATIONS FOR FOMALHAUT AND Ïµ ERIDANI. Astrophysical Journal, 2016, 832, 81.	4.5	69
9	COLLISIONAL GROOMING MODELS OF THE KUIPER BELT DUST CLOUD. Astronomical Journal, 2010, 140, 1007-1019.	4.7	64
10	The First Brown Dwarf Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal Letters, 2017, 841, L19.	8.3	59
11	SMACK: A NEW ALGORITHM FOR MODELING COLLISIONS AND DYNAMICS OF PLANETESIMALS IN DEBRIS DISKS. Astrophysical Journal, 2013, 777, 144.	4.5	52
12	A SMACK MODEL OF COLLIDING PLANETESIMALS IN THEÎ²PICTORIS DEBRIS DISK. Astrophysical Journal, 2015, 815, 61.	4.5	50
13	Meteoroids at the Moon: Orbital Properties, Surface Vaporization, and Impact Ejecta Production. Journal of Geophysical Research E: Planets, 2019, 124, 752-778.	3.6	49
14	DIRECT IMAGING AND SPECTROSCOPY OF A YOUNG EXTRASOLAR KUIPER BELT IN THE NEAREST OB ASSOCIATION. Astrophysical Journal Letters, 2015, 807, L7.	8.3	47
15	THE INNER DISK STRUCTURE, DISK-PLANET INTERACTIONS, AND TEMPORAL EVOLUTION IN THE Î² PICTORIS SYSTEM: A TWO-EPOCHHST/STIS CORONAGRAPHIC STUDY. Astrophysical Journal, 2015, 800, 136.	4.5	47
16	The HR 4796A Debris System: Discovery of Extensive Exo-ring Dust Material. Astronomical Journal, 2018, 155, 77.	4.7	47
17	Peter Pan Disks: Long-lived Accretion Disks Around Young M Stars. Astrophysical Journal, 2020, 890, 106.	4.5	38
18	DISCOVERY OF AN INNER DISK COMPONENT AROUND HD 141569 A*. Astrophysical Journal Letters, 2016, 818, L23.	8.3	31

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19	Utilizing Small Telescopes Operated by Citizen Scientists for Transiting Exoplanet Follow-up. Publications of the Astronomical Society of the Pacific, 2020, 132, 054401.	3.1	31
20	DEEP HST/STIS VISIBLE-LIGHT IMAGING OF DEBRIS SYSTEMS AROUND SOLAR ANALOG HOSTS. Astronomical Journal, 2016, 152, 64.	4.7	29
21	THE PSEUDO-ZODI PROBLEM FOR EDGE-ON PLANETARY SYSTEMS. Astrophysical Journal, 2015, 801, 128.	4.5	28
22	A 3 Gyr White Dwarf with Warm Dust Discovered via the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal Letters, 2019, 872, L25.	8.3	28
23	Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal, 2020, 899, 123.	4.5	28
24	DISK DETECTIVE: DISCOVERY OF NEW CIRCUMSTELLAR DISK CANDIDATES THROUGH CITIZEN SCIENCE. Astrophysical Journal, 2016, 830, 84.	4.5	26
25	Co-orbital Asteroids as the Source of Venus's Zodiacal Dust Ring. Astrophysical Journal Letters, 2019, 873, L16.	8.3	26
26	A NEW M DWARF DEBRIS DISK CANDIDATE IN A YOUNG MOVING GROUP DISCOVERED WITH DISK DETECTIVE. Astrophysical Journal Letters, 2016, 830, L28.	8.3	25
27	WISEA J041451.67â€“585456.7 and WISEA J181006.18â€“101000.5: The First Extreme T-type Subdwarfs?. Astrophysical Journal, 2020, 898, 77.	4.5	24
28	WISE 2150-7520AB: A Very Low-mass, Wide Comoving Brown Dwarf System Discovered through the Citizen Science Project Backyard Worlds: Planet 9*. Astrophysical Journal, 2020, 889, 176.	4.5	22
29	The Interplay between Radiation Pressure and the Photoelectric Instability in Optically Thin Disks of Gas and Dust. Astrophysical Journal, 2018, 856, 41.	4.5	18
30	WISEA J083011.95+283716.0: A Missing Link Planetary-mass Object. Astrophysical Journal, 2020, 895, 145.	4.5	18
31	New Candidate Extreme T Subdwarfs from the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal, 2021, 915, 120.	4.5	17
32	Follow-up Imaging of Disk Candidates from the Disk Detective Citizen Science Project: New Discoveries and False Positives in WISE Circumstellar Disk Surveys. Astrophysical Journal, 2018, 868, 43.	4.5	16
33	The Enigmatic Brown Dwarf WISEA J153429.75-104303.3 (a.k.a. â€œThe Accidentâ€). Astrophysical Journal Letters, 2021, 915, L6.	8.3	11
34	Ross 19B: An Extremely Cold Companion Discovered via the Backyard Worlds: Planet 9 Citizen Science Project. Astrophysical Journal, 2021, 921, 140.	4.5	9
35	A Wide Planetary Mass Companion Discovered through the Citizen Science Project Backyard Worlds: Planet 9. Astrophysical Journal, 2021, 923, 48.	4.5	9
36	A Deep Search for Stable Venus Co-orbital Asteroids: Limits on the Population. Planetary Science Journal, 2020, 1, 47.	3.6	8

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37	CWISE J014611.20â€“050850.0AB: The Widest Known Brown Dwarf Binary in the Field. Astrophysical Journal Letters, 2022, 926, L12.	8.3	5
38	Discovery of 34 Low-mass Comoving Systems Using NOIRLab Source Catalog DR2. Astronomical Journal, 2022, 164, 3.	4.7	5
39	Disks in Nearby Young Stellar Associations Found Via Virtual Reality. Astrophysical Journal, 2022, 933, 13.	4.5	5
40	Identification of a Low-mass Companion to the White Dwarf SDSS J131730.84+483332.7. Research Notes of the AAS, 2021, 5, 76.	0.7	4
41	Backyard Worlds: Planet 9 Discovery of an Unusual Low-mass Companion to an M Dwarf at 80 pc. Research Notes of the AAS, 2021, 5, 18.	0.7	4
42	Discovery of CWISE J052306.42â^'015355.4, an Extreme T Subdwarf Candidate. Astronomical Journal, 2022, 163, 47.	4.7	4
43	Modeling Meteoroid Impacts on the Juno Spacecraft. Planetary Science Journal, 2022, 3, 14.	3.6	4
44	Discovery of 16 New Members of the Solar Neighborhood Using Proper Motions from CatWISE2020. Astronomical Journal, 2022, 163, 116.	4.7	4
45	Threat from Within: Excitation of Venusâ€™s Co-orbital Asteroids to Earth-crossing Orbits. Planetary Science Journal, 2021, 2, 193.	3.6	3
46	Discovery of a Nearby Young Brown Dwarf Disk. Astronomical Journal, 2020, 160, 156.	4.7	3
47	EarthShine: Observing our world as an exoplanet from the surface of the Moon. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.8	3
48	Discovery of a Low-mass Comoving System Using NOIRLab Source Catalog DR2. Research Notes of the AAS, 2021, 5, 196.	0.7	2
49	Planet Patrol: Vetting Transiting Exoplanet Candidates with Citizen Science. Publications of the Astronomical Society of the Pacific, 2022, 134, 044401.	3.1	2
50	WDJ220838.73+454434.04: a White Dwarf Companion in the AR Lacertae System. Research Notes of the AAS, 2022, 6, 127.	0.7	1
51	Collisional Grooming of Debris Disks. , 2009, , .		0
52	Identification of a White Dwarf Companion in the V* HP Dra System. Research Notes of the AAS, 2021, 5, 170.	0.7	0
53	Disentangling Planets from Photoelectric Instability in Gas-rich Optically Thin Dusty Disks. Astrophysical Journal, 2019, 887, 6.	4.5	0