

Karen J Meech

List of Publications by Year in descending order

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61
papers

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citations

172457

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175258

52
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62
all docs

62
docs citations

62
times ranked

2053
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible Activity in 468861 (2013 LU28). Planetary Science Journal, 2022, 3, 34.	3.6	2
2	NEOWISE Observed CO and CO ₂ Production Rates of 46P/Wirtanen During the 2018â€“2019 Apparition*. Planetary Science Journal, 2021, 2, 34.	3.6	8
3	Characterizing the Manx Candidate A/2018 V3. Planetary Science Journal, 2021, 2, 33.	3.6	2
4	New Frontiers Mission Concept Study to Explore Oort Cloud Comets. , 2021, 53, .		0
5	Main Belt Comets as Clues to the Distribution of Water in the Early Solar System. , 2021, 53, .		0
6	In-Situ Exploration of Objects on Oort Cloud Comet Orbits: OCCs, Manxes and ISOs. , 2021, 53, .		4
7	Compact pebbles and the evolution of volatiles in the interstellar comet 2I/Borisov. Nature Astronomy, 2021, 5, 586-593.	10.1	17
8	On the Spin Dynamics of Elongated Minor Bodies with Applications to a Possible Solar System Analogue Composition for â€œOumuamua. Astrophysical Journal, 2021, 920, 28.	4.5	14
9	Detailed characterization of low activity comet 49P/Arendâ€“Rigaux. Icarus, 2020, 338, 113532.	2.5	6
10	Study of the physical properties of selected active objects in the main belt and surrounding regions by broadband photometry. Astronomische Nachrichten, 2020, 341, 849-859.	1.2	7
11	A search for the origin of the interstellar comet 2I/Borisov. Astronomy and Astrophysics, 2020, 634, A14.	5.1	16
12	Searching for water ice in the coma of interstellar object 2I/Borisov. Astronomy and Astrophysics, 2020, 634, L6.	5.1	11
13	Pre-discovery Activity of New Interstellar Comet 2I/Borisov beyond 5 au. Astronomical Journal, 2020, 159, 77.	4.7	27
14	The orbit and size-frequency distribution of long period comets observed by Pan-STARRS1. Icarus, 2019, 333, 252-272.	2.5	34
15	Detection of CN Gas in Interstellar Object 2I/Borisov. Astrophysical Journal Letters, 2019, 885, L9.	8.3	60
16	The Sporadic Activity of (6478) Gault: A YORP-driven Event?. Astrophysical Journal Letters, 2019, 874, L20.	8.3	33
17	2I/Borisov: A C ₂ -depleted interstellar comet. Astronomy and Astrophysics, 2019, 631, L8.	5.1	56
18	Disintegration of active asteroid P/2016 G1 (PANSTARRS). Astronomy and Astrophysics, 2019, 628, A48.	5.1	7

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19	The Excited Spin State of 1I/2017 U1 â€œOumuamua. <i>Astrophysical Journal Letters</i> , 2018, 856, L21.	8.3	41
20	Organic Molecules and Volatiles in Comets. <i>Elements</i> , 2018, 14, 101-106.	0.5	5
21	Isotopic ratios in outbursting comet C/2015 ER61. <i>Astronomy and Astrophysics</i> , 2018, 609, L4.	5.1	6
22	Spitzer Observations of Interstellar Object 1I/â€œOumuamua. <i>Astronomical Journal</i> , 2018, 156, 261.	4.7	80
23	Plausible Home Stars of the Interstellar Object â€œOumuamua Found in Gaia DR2. <i>Astronomical Journal</i> , 2018, 156, 205.	4.7	23
24	Non-gravitational acceleration in the trajectory of 1I/2017 U1 (â€œOumuamua). <i>Nature</i> , 2018, 559, 223-226.	27.8	138
25	Beginning of Activity in Long-period Comet C/2015 ER61 (PANSTARRS). <i>Astronomical Journal</i> , 2017, 153, 206.	4.7	16
26	Setting the scene: what did we know before Rosetta?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160247.	3.4	15
27	The 67P/Churyumovâ€™Gerasimenko observation campaign in support of the Rosetta mission. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160249.	3.4	29
28	Debiasing the NEOWISE Cryogenic Mission Comet Populations. <i>Astronomical Journal</i> , 2017, 154, 53.	4.7	39
29	A brief visit from a red and extremely elongated interstellar asteroid. <i>Nature</i> , 2017, 552, 378-381.	27.8	304
30	CO-driven Activity in Comet C/2017 K2 (PANSTARRS). <i>Astrophysical Journal Letters</i> , 2017, 849, L8.	8.3	35
31	FRAGMENTATION KINEMATICS IN COMET 332P/IKEYAâ€™MURAKAMI. <i>Astrophysical Journal Letters</i> , 2016, 829, L8.	8.3	25
32	THE PROGRESSIVE FRAGMENTATION OF 332P/IKEYAâ€™MURAKAMI. <i>Astrophysical Journal Letters</i> , 2016, 827, L26.	8.3	7
33	Inner solar system material discovered in the Oort cloud. <i>Science Advances</i> , 2016, 2, e1600038.	10.3	45
34	CATASTROPHIC DISRUPTION OF COMET ISON. <i>Astrophysical Journal</i> , 2016, 831, 207.	4.5	6
35	Origins of water in the Solar System leading to habitable worlds. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 400-400.	0.0	0
36	Evidence for primordial water in Earthâ€™s deep mantle. <i>Science</i> , 2015, 350, 795-797.	12.6	159

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37	THE <i>NEOWISE</i> -DISCOVERED COMET POPULATION AND THE CO + CO ₂ PRODUCTION RATES. <i>Astrophysical Journal</i> , 2015, 814, 85.	4.5	51
38	MULTI-WAVELENGTH OBSERVATIONS OF COMET C/2011 L4 (PAN-STARRS). <i>Astrophysical Journal Letters</i> , 2014, 784, L23.	8.3	26
39	CENTAURS AND SCATTERED DISK OBJECTS IN THE THERMAL INFRARED: ANALYSIS OF <i>WISE</i> / <i>NEOWISE</i> OBSERVATIONS. <i>Astrophysical Journal</i> , 2013, 773, 22.	4.5	92
40	The complex spin state of 103P/Hartley 2: Kinematics and orientation in space. <i>Icarus</i> , 2013, 222, 595-609.	2.5	40
41	Photometric properties of the nucleus of Comet 103P/Hartley 2. <i>Icarus</i> , 2013, 222, 559-570.	2.5	63
42	Shape, density, and geology of the nucleus of Comet 103P/Hartley 2. <i>Icarus</i> , 2013, 222, 550-558.	2.5	112
43	The persistent activity of Jupiter-family comets at 3-7AU. <i>Icarus</i> , 2013, 225, 475-494.	2.5	32
44	OUTGASSING BEHAVIOR OF C/2012 S1 (ISON) FROM 2011 SEPTEMBER TO 2013 JUNE. <i>Astrophysical Journal Letters</i> , 2013, 776, L20.	8.3	25
45	Puzzling Snowballs: Main Belt Comets. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 139-139.	0.0	0
46	Results from the EPOXI and StardustNExT Missions – A Changing View of Comet Volatiles and Activity. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 146-146.	0.0	0
47	<i>WISE</i> / <i>NEOWISE</i> OBSERVATIONS OF ACTIVE BODIES IN THE MAIN BELT. <i>Astrophysical Journal</i> , 2012, 747, 49.	4.5	30
48	<i>WISE</i> / <i>NEOWISE</i> PRELIMINARY ANALYSIS AND HIGHLIGHTS OF THE 67P/CHURYUMOV-GERASIMENKO NEAR NUCLEUS ENVIRONS. <i>Astrophysical Journal</i> , 2012, 758, 18.	4.5	23
49	COMETARY VOLATILES AND THE ORIGIN OF COMETS. <i>Astrophysical Journal</i> , 2012, 758, 29.	4.5	130
50	EPOXI at Comet Hartley 2. <i>Science</i> , 2011, 332, 1396-1400.	12.6	401
51	Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1. <i>Icarus</i> , 2011, 213, 345-368.	2.5	44
52	<i>WISE</i> / <i>NEOWISE</i> OBSERVATIONS OF COMET 103P/HARTLEY 2. <i>Astrophysical Journal</i> , 2011, 738, 171.	4.5	30
53	Message from the Executive Council of the Astrobiology Society: The First Year. <i>Astrobiology</i> , 2011, 11, 75-75.	3.0	0
54	Deep Impact: Working Properties for the Target Nucleus – Comet 9P/Tempel 1. <i>Space Science Reviews</i> , 2005, 117, 137-160.	8.1	53

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55	Ground-based Support of Comet Nuclei Space Missions. Symposium - International Astronomical Union, 2004, 213, 213-217.	0.1	0
56	Pluto's Planetary Status. Science, 1999, 283, 937-937.	12.6	2
57	Observations of Structures in the Inner Coma of Chiron with the HST Planetary Camera. Astronomical Journal, 1997, 113, 844.	4.7	31
58	Unusual comets (?) as observed from the Hubble Space Telescope. Earth, Moon and Planets, 1996, 72, 119-131.	0.6	17
59	The atmosphere of 2060 Chiron. Astronomical Journal, 1990, 100, 1323.	4.7	100
60	Early photometry of comet p/Halley: Development of the Coma. Icarus, 1986, 66, 561-574.	2.5	40
61	Cometary grain scattering versus wavelength, or 'What color is comet dust?'. Astrophysical Journal, 1986, 310, 937.	4.5	163