

Karen J Meech

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,783
citations

172457

29
h-index

175258

52
g-index

62
all docs

62
docs citations

62
times ranked

2053
citing authors

#	ARTICLE	IF	CITATIONS
1	EPOXI at Comet Hartley 2. <i>Science</i> , 2011, 332, 1396-1400.	12.6	401
2	A brief visit from a red and extremely elongated interstellar asteroid. <i>Nature</i> , 2017, 552, 378-381.	27.8	304
3	Cometary grain scattering versus wavelength, or 'What color is comet dust?'. <i>Astrophysical Journal</i> , 1986, 310, 937.	4.5	163
4	Evidence for primordial water in Earth's deep mantle. <i>Science</i> , 2015, 350, 795-797.	12.6	159
5	Non-gravitational acceleration in the trajectory of 1I/2017 U1 (19Oumuamua). <i>Nature</i> , 2018, 559, 223-226.	27.8	138
6	COMETARY VOLATILES AND THE ORIGIN OF COMETS. <i>Astrophysical Journal</i> , 2012, 758, 29.	4.5	130
7	Shape, density, and geology of the nucleus of Comet 103P/Hartley 2. <i>Icarus</i> , 2013, 222, 550-558.	2.5	112
8	The atmosphere of 2060 Chiron. <i>Astronomical Journal</i> , 1990, 100, 1323.	4.7	100
9	CENTAURS AND SCATTERED DISK OBJECTS IN THE THERMAL INFRARED: ANALYSIS OF WISE/NEOWISE OBSERVATIONS. <i>Astrophysical Journal</i> , 2013, 773, 22.	4.5	92
10	Spitzer Observations of Interstellar Object 1I/Oumuamua. <i>Astronomical Journal</i> , 2018, 156, 261.	4.7	80
11	Photometric properties of the nucleus of Comet 103P/Hartley 2. <i>Icarus</i> , 2013, 222, 559-570.	2.5	63
12	Detection of CN Gas in Interstellar Object 2I/Borisov. <i>Astrophysical Journal Letters</i> , 2019, 885, L9.	8.3	60
13	2I/Borisov: A C ₂ -depleted interstellar comet. <i>Astronomy and Astrophysics</i> , 2019, 631, L8.	5.1	56
14	Deep Impact: Working Properties for the Target Nucleus "Comet 9P/Tempel 1. <i>Space Science Reviews</i> , 2005, 117, 137-160.	8.1	53
15	THE NEOWISE-DISCOVERED COMET POPULATION AND THE CO + CO ₂ PRODUCTION RATES. <i>Astrophysical Journal</i> , 2015, 814, 85.	4.5	51
16	Inner solar system material discovered in the Oort cloud. <i>Science Advances</i> , 2016, 2, e1600038.	10.3	45
17	Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1. <i>Icarus</i> , 2011, 213, 345-368.	2.5	44
18	The Excited Spin State of 1I/2017 U1 Oumuamua. <i>Astrophysical Journal Letters</i> , 2018, 856, L21.	8.3	41

#	ARTICLE	IF	CITATIONS
19	Early photometry of comet p/Halley: Development of the Coma. <i>Icarus</i> , 1986, 66, 561-574.	2.5	40
20	The complex spin state of 103P/Hartley 2: Kinematics and orientation in space. <i>Icarus</i> , 2013, 222, 595-609.	2.5	40
21	Debiasing the NEOWISE Cryogenic Mission Comet Populations. <i>Astronomical Journal</i> , 2017, 154, 53.	4.7	39
22	CO-driven Activity in Comet C/2017 K2 (PANSTARRS). <i>Astrophysical Journal Letters</i> , 2017, 849, L8.	8.3	35
23	The orbit and size-frequency distribution of long period comets observed by Pan-STARRS1. <i>Icarus</i> , 2019, 333, 252-272.	2.5	34
24	The Sporadic Activity of (6478) Gault: A YORP-driven Event?. <i>Astrophysical Journal Letters</i> , 2019, 874, L20.	8.3	33
25	The persistent activity of Jupiter-family comets at 3â€“7AU. <i>Icarus</i> , 2013, 225, 475-494.	2.5	32
26	Observations of Structures in the Inner Coma of Chiron with the HST Planetary Camera. <i>Astronomical Journal</i> , 1997, 113, 844.	4.7	31
27	<i>WISE</i>/NEOWISE OBSERVATIONS OF COMET 103P/HARTLEY 2. <i>Astrophysical Journal</i> , 2011, 738, 171.	4.5	30
28	<i>WISE</i>/NEOWISE OBSERVATIONS OF ACTIVE BODIES IN THE MAIN BELT. <i>Astrophysical Journal</i> , 2012, 747, 49.	4.5	30
29	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
30	Pre-discovery Activity of New Interstellar Comet 2I/Borisov beyond 5 au. <i>Astronomical Journal</i> , 2020, 159, 77.	4.7	27
31	MULTI-WAVELENGTH OBSERVATIONS OF COMET C/2011 L4 (PAN-STARRS). <i>Astrophysical Journal Letters</i> , 2014, 784, L23.	8.3	26
32	OUTGASSING BEHAVIOR OF C/2012 S1 (ISON) FROM 2011 SEPTEMBER TO 2013 JUNE. <i>Astrophysical Journal Letters</i> , 2013, 776, L20.	8.3	25
33	FRAGMENTATION KINEMATICS IN COMET 332P/IKEYAâ€™MURAKAMI. <i>Astrophysical Journal Letters</i> , 2016, 829, L8.	8.3	25
34	<i>WISE</i>/NEOWISE PRELIMINARY ANALYSIS AND HIGHLIGHTS OF THE 67P/CHURYUMOV-GERASIMENKO NEAR NUCLEUS ENVIRONS. <i>Astrophysical Journal</i> , 2012, 758, 18.	4.5	23
35	Plausible Home Stars of the Interstellar Object â€™Oumuamua Found in Gaia DR2. <i>Astronomical Journal</i> , 2018, 156, 205.	4.7	23
36	Unusual comets (?) as observed from the Hubble Space Telescope. <i>Earth, Moon and Planets</i> , 1996, 72, 119-131.	0.6	17

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37	Compact pebbles and the evolution of volatiles in the interstellar comet 2I/Borisov. <i>Nature Astronomy</i> , 2021, 5, 586-593.	10.1	17
38	Beginning of Activity in Long-period Comet C/2015 ER61 (PANSTARRS). <i>Astronomical Journal</i> , 2017, 153, 206.	4.7	16
39	A search for the origin of the interstellar comet 2I/Borisov. <i>Astronomy and Astrophysics</i> , 2020, 634, A14.	5.1	16
40	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
41	On the Spin Dynamics of Elongated Minor Bodies with Applications to a Possible Solar System Analogue Composition for 1999 Oumuamua. <i>Astrophysical Journal</i> , 2021, 920, 28.	4.5	14
42	Searching for water ice in the coma of interstellar object 2I/Borisov. <i>Astronomy and Astrophysics</i> , 2020, 634, L6.	5.1	11
43	NEOWISE Observed CO and CO ₂ Production Rates of 46P/Wirtanen During the 2018–2019 Apparition*. <i>Planetary Science Journal</i> , 2021, 2, 34.	3.6	8
44	THE PROGRESSIVE FRAGMENTATION OF 332P/IKEYA-MURAKAMI. <i>Astrophysical Journal Letters</i> , 2016, 827, L26.	8.3	7
45	Disintegration of active asteroid P/2016 G1 (PANSTARRS). <i>Astronomy and Astrophysics</i> , 2019, 628, A48.	5.1	7
46	Study of the physical properties of selected active objects in the main belt and surrounding regions by broadband photometry. <i>Astronomische Nachrichten</i> , 2020, 341, 849-859.	1.2	7
47	CATASTROPHIC DISRUPTION OF COMET ISON. <i>Astrophysical Journal</i> , 2016, 831, 207.	4.5	6
48	Isotopic ratios in outbursting comet C/2015 ER61. <i>Astronomy and Astrophysics</i> , 2018, 609, L4.	5.1	6
49	Detailed characterization of low activity comet 49P/Arend-Rigaux. <i>Icarus</i> , 2020, 338, 113532.	2.5	6
50	Organic Molecules and Volatiles in Comets. <i>Elements</i> , 2018, 14, 101-106.	0.5	5
51	In-Situ Exploration of Objects on Oort Cloud Comet Orbits: OCCs, Manxes and ISOs. , 2021, 53, .		4
52	Characterizing the Manx Candidate A/2018 V3. <i>Planetary Science Journal</i> , 2021, 2, 33.	3.6	2
53	Pluto's Planetary Status. <i>Science</i> , 1999, 283, 937-937.	12.6	2
54	Possible Activity in 468861 (2013 LU28). <i>Planetary Science Journal</i> , 2022, 3, 34.	3.6	2

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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	Message from the Executive Council of the Astrobiology Society: The First Year. Astrobiology, 2011, 11, 75-75.	3.0	0
57	Puzzling Snowballs: Main Belt Comets. Proceedings of the International Astronomical Union, 2012, 10, 139-139.	0.0	0
58	Results from the EPOXI and StardustNExT Missions – A Changing View of Comet Volatiles and Activity. Proceedings of the International Astronomical Union, 2012, 10, 146-146.	0.0	0
59	Origins of water in the Solar System leading to habitable worlds. Proceedings of the International Astronomical Union, 2015, 11, 400-400.	0.0	0
60	New Frontiers Mission Concept Study to Explore Oort Cloud Comets. , 2021, 53, .		0
61	Main Belt Comets as Clues to the Distribution of Water in the Early Solar System. , 2021, 53, .		0