

Matthew M Knight

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,436
citations

361388

20
h-index

345203

36
g-index

66
all docs

66
docs citations

66
times ranked

1380
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	12.6	182
2	<i>EPOXI</i> : COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2011, 734, L1.	8.3	96
3	PHOTOMETRIC STUDY OF THE KREUTZ COMETS OBSERVED BY <i>SOHO</i> FROM 1996 TO 2005. <i>Astronomical Journal</i> , 2010, 139, 926-949.	4.7	83
4	The Main Belt Comets and ice in the Solar System. <i>Astronomy and Astrophysics Review</i> , 2017, 25, 1.	25.5	60
5	The Science of Sungrazers, Sunskirters, and Other Near-Sun Comets. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	60
6	The highly unusual outgassing of Comet 103P/Hartley 2 from narrowband photometry and imaging of the coma. <i>Icarus</i> , 2013, 222, 691-706.	2.5	59
7	On the Rotation Period and Shape of the Hyperbolic Asteroid 1/ã~Oumuamua (2017 U1) from Its Lightcurve. <i>Astrophysical Journal Letters</i> , 2017, 851, L31.	8.3	55
8	The Peculiar Volatile Composition of CO-dominated Comet C/2016 R2 (PanSTARRS). <i>Astronomical Journal</i> , 2019, 158, 128.	4.7	55
9	OBSERVATIONAL AND DYNAMICAL CHARACTERIZATION OF MAIN-BELT COMET P/2010 R2 (La Sagra). <i>Astronomical Journal</i> , 2012, 143, 104.	4.7	46
10	Comet C/2012 S1 (ISON) coma composition at -4au from HST observations. <i>Planetary and Space Science</i> , 2015, 118, 138-163.	1.7	42
11	PRELIMINARY ANALYSIS OF <i>SOHO/STEREO</i> OBSERVATIONS OF SUNGRAZING COMET ISON (C/2012 S1) AROUND PERIHELION. <i>Astrophysical Journal Letters</i> , 2014, 782, L37.	8.3	32
12	A rapid decrease in the rotation rate of comet 41P/Tuttleâ€“Giacobiniâ€“Kresãk. <i>Nature</i> , 2018, 553, 186-188.	27.8	32
13	SOHO comets: 20 years and 3000 objects later. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160257.	3.4	30
14	CN MORPHOLOGY STUDIES OF COMET 103P/HARTLEY 2. <i>Astronomical Journal</i> , 2011, 141, 183.	4.7	28
15	CHARACTERIZING THE DUST COMA OF COMET C/2012 S1 (ISON) AT 4.15 AU FROM THE SUN. <i>Astrophysical Journal Letters</i> , 2013, 779, L3.	8.3	28
16	Distant activity of 67P/Churyumov-Gerasimenko in 2014: Ground-based results during the Rosetta pre-landing phase. <i>Astronomy and Astrophysics</i> , 2016, 588, A80.	5.1	26
17	<i>HUBBLE SPACE TELESCOPE</i> PRE-PERIELION ACS/WFC IMAGING POLARIMETRY OF COMET ISON (C/2012 S1) AT 3.81 AU. <i>Astrophysical Journal Letters</i> , 2014, 780, L32.	8.3	25
18	WILL COMET ISON (C/2012 S1) SURVIVE PERIHELION?. <i>Astrophysical Journal Letters</i> , 2013, 776, L5.	8.3	24

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19	Sunskirting comets discovered with the LASCO coronagraphs over the decade 1996â€“2008. <i>Icarus</i> , 2013, 226, 1350-1398.	2.5	21
20	OBSERVATIONS OF COMET ISON (C/2012 S1) FROM LOWELL OBSERVATORY. <i>Astronomical Journal</i> , 2015, 149, 19.	4.7	21
21	FUV Spectral Signatures of Molecules and the Evolution of the Gaseous Coma of Comet 67P/Churyumovâ€™Gerasimenko. <i>Astronomical Journal</i> , 2018, 155, 9.	4.7	20
22	THE INCREASING ROTATION PERIOD OF COMET 10P/TEMPEL 2. <i>Astronomical Journal</i> , 2011, 141, 2.	4.7	19
23	A QUARTER-CENTURY OF OBSERVATIONS OF COMET 10P/TEMPEL 2 AT LOWELL OBSERVATORY: CONTINUED SPIN-DOWN, COMA MORPHOLOGY, PRODUCTION RATES, AND NUMERICAL MODELING. <i>Astronomical Journal</i> , 2012, 144, 153.	4.7	19
24	Cometary Science with the James Webb Space Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018009.	3.1	19
25	Cyanogen Jets and the Rotation State of Comet Machholz (C/2004 Q2). <i>Astronomical Journal</i> , 2007, 133, 2001-2007.	4.7	18
26	COMET 322P/SOHO 1: AN ASTEROID WITH THE SMALLEST PERIHELION DISTANCE?*. <i>Astrophysical Journal Letters</i> , 2016, 823, L6.	8.3	18
27	Parker Solar Probe Observations of a Dust Trail in the Orbit of (3200) Phaethon. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 64.	7.7	17
28	The Rotation and Other Properties of Comet 49P/Arendâ€™Rigaux, 1984â€“2012. <i>Astronomical Journal</i> , 2017, 154, 196.	4.7	16
29	Exocomets from a Solar System Perspective. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 101001.	3.1	16
30	Ground-based visible and near-IR observations of Comet 9P/Tempel 1 during the Deep Impact encounter. <i>Icarus</i> , 2007, 187, 199-207.	2.5	15
31	Ultraviolet Observations of Coronal Mass Ejection Impact on Comet 67P/Churyumovâ€™Gerasimenko by Rosetta Alice. <i>Astronomical Journal</i> , 2018, 156, 16.	4.7	15
32	Narrowband Observations of Comet 46P/Wirtanen during Its Exceptional Apparition of 2018/19. I. Apparent Rotation Period and Outbursts. <i>Planetary Science Journal</i> , 2021, 2, 7.	3.6	15
33	GONE IN A BLAZE OF GLORY: THE DEMISE OF COMET C/2015 D1 (SOHO). <i>Astrophysical Journal</i> , 2015, 813, 73.	4.5	14
34	The 2016 Reactivations of the Main-belt Comets 238P/Read and 288P/(300163) 2006 VW ₁₃₉ *. <i>Astronomical Journal</i> , 2018, 156, 223.	4.7	14
35	First Results from TESS Observations of Comet 46P/Wirtanen. <i>Astrophysical Journal Letters</i> , 2019, 886, L24.	8.3	14
36	Comet C/2011 W3 (Lovejoy) between 2 and 10 Solar Radii: Physical Parameters of the Comet and the Corona. <i>Astrophysical Journal</i> , 2018, 858, 19.	4.5	12

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37	Physical Characterization of Main-belt Comet (248370) 2005 QN ₁₇₃ . <i>Astrophysical Journal Letters</i> , 2021, 922, L9.	8.3	12
38	THE EXTREMELY LOW ACTIVITY COMET 209P/LINEAR DURING ITS EXTRAORDINARY CLOSE APPROACH IN 2014. <i>Astronomical Journal</i> , 2016, 152, 89.	4.7	11
39	Gas Jet Morphology and the Very Rapidly Increasing Rotation Period of Comet 41P/Tuttle–Giacobini–Kresák. <i>Astronomical Journal</i> , 2019, 157, 108.	4.7	11
40	Potential Backup Targets for Comet Interceptor. <i>Research Notes of the AAS</i> , 2020, 4, 21.	0.7	11
41	Chandra ACIS-S imaging spectroscopy of anomalously faint X-ray emission from Comet 103P/Hartley 2 during the EPOXI encounter. <i>Icarus</i> , 2013, 222, 752-765.	2.5	10
42	A FURTHER INVESTIGATION OF APPARENT PERIODICITIES AND THE ROTATIONAL STATE OF COMET 103P/HARTLEY 2 FROM COMBINED COMA MORPHOLOGY AND LIGHT CURVE DATA SETS. <i>Astronomical Journal</i> , 2015, 150, 22.	4.7	10
43	Gemini and Lowell observations of 67P/Churyumov–Gerasimenko during the Rosetta mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S661-S674.	4.4	10
44	A Deep Search for Emission from “Rock Comet” (3200) Phaethon at 1 au. <i>Planetary Science Journal</i> , 2021, 2, 23.	3.6	10
45	Properties of the Bare Nucleus of Comet 96P/Machholz 1*. <i>Astronomical Journal</i> , 2019, 157, 186.	4.7	9
46	New Insights into Interstellar Object 1I/2017 U1 (“Oumuamua) from SOHO/STEREO Nondetections. <i>Astronomical Journal</i> , 2019, 158, 256.	4.7	9
47	Narrowband Observations of Comet 46P/Wirtanen during Its Exceptional Apparition of 2018/19. II. Photometry, Jet Morphology, and Modeling Results. <i>Planetary Science Journal</i> , 2021, 2, 104.	3.6	9
48	Recurrent Cometary Activity in Near-Earth Object (3552) Don Quixote. <i>Planetary Science Journal</i> , 2020, 1, 12.	3.6	9
49	THE NUCLEUS OF COMET 10P/TEMPEL 2 IN 2013 AND CONSEQUENCES REGARDING ITS ROTATIONAL STATE: EARLY SCIENCE FROM THE DISCOVERY CHANNEL TELESCOPE. <i>Astronomical Journal</i> , 2013, 146, 137.	4.7	7
50	The Reactivation and Nucleus Characterization of Main-belt Comet 358P/PANSTARRS (P/2012 T1). <i>Astronomical Journal</i> , 2018, 156, 39.	4.7	7
51	Systematic Characterization of and Search for Activity in Potentially Active Asteroids. <i>Planetary Science Journal</i> , 2020, 1, 10.	3.6	7
52	Results from the worldwide coma morphology campaign for comet ISON (C/2012 S1). <i>Planetary and Space Science</i> , 2015, 118, 127-137.	1.7	5
53	Coma Morphology, Numerical Modeling, and Production Rates for Comet C/Lulin (2007 N3). <i>Astronomical Journal</i> , 2018, 156, 159.	4.7	5
54	Stellar Occultation by Comet 67P/Churyumov–Gerasimenko Observed with Rosetta's Alice Far-ultraviolet Spectrograph. <i>Astronomical Journal</i> , 2019, 157, 173.	4.7	5

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55	The Reactivation of Main-belt Comet 259P/Garradd (P/2008 R1). Planetary Science Journal, 2021, 2, 62.	3.6	3
56	Analysis of Hybrid Gas+Dust Outbursts Observed at 67P/Churyumov+Gerasimenko. Astronomical Journal, 2021, 162, 4.	4.7	2
57	Year 1 of the Legacy Survey of Space and Time (LSST): Recommendations for Template Production to Enable Solar System Small Body Transient and Time Domain Science. Research Notes of the AAS, 2021, 5, 143.	0.7	2
58	Preview of Comet C/2021 A1 (Leonard) and Its Encounter with Venus. Astronomical Journal, 2021, 162, 194.	4.7	2
59	A Look at Outbursts of Comet C/2014 UN ₂₇₁ (Bernardinelli+Bernstein) near 20 au. Astrophysical Journal Letters, 2022, 933, L44.	8.3	2
60	Ground-based visible and near-IR observations of Comet 9P/Tempel 1 during the Deep Impact encounter. Icarus, 2007, 191, 403-411.	2.5	1
61	Upper Limits for Emissions in the Coma of Comet 67P/Churyumov+Gerasimenko near Perihelion as Measured by Rosetta's Alice Far-UV Spectrograph. Astronomical Journal, 2019, 158, 252.	4.7	1
62	Spatial Distribution of Ultraviolet Emission from Cometary Activity at 67P/Churyumov-Gerasimenko. Astronomical Journal, 2021, 162, 5.	4.7	0
63	Recovery of Returning Halley-type Comet 12P/Pons-Brooks with the Lowell Discovery Telescope. Research Notes of the AAS, 2020, 4, 101.	0.7	0
64	Polarimetric analysis of STEREO observations of sungrazing Kreutz comet C/2010 E6 (STEREO). Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	0