

# Marc Buie

## List of Publications by Year in descending order

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57  
papers

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citations

218592

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58  
docs citations

58  
times ranked

1762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. Planetary Science Journal, 2022, 3, 23.	1.5	3
2	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. Astrophysical Journal Letters, 2022, 927, L8.	3.0	32
3	Navigation and Orbit Estimation for New Horizonsâ€™ Arrokoth Flyby: Overview, Results and Lessons Learned. Space Science Reviews, 2022, 218, 1.	3.7	0
4	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. Planetary Science Journal, 2022, 3, 95.	1.5	10
5	The Sizes and Albedos of Centaurs 2014 YY <sub>49</sub> and 2013 NL <sub>24</sub> from Stellar Occultation Measurements by RECON. Planetary Science Journal, 2021, 2, 22.	1.5	3
6	A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. Icarus, 2021, 356, 114098.	1.1	10
7	Lucy Mission to the Trojan Asteroids: Science Goals. Planetary Science Journal, 2021, 2, 171.	1.5	54
8	The Orbit and Density of the Jupiter Trojan Satellite System Eurybatesâ€™ Queta. Planetary Science Journal, 2021, 2, 170.	1.5	10
9	Size and Shape of (11351) Leucus from Five Occultations. Planetary Science Journal, 2021, 2, 202.	1.5	7
10	New Horizons Observations of the Cosmic Optical Background. Astrophysical Journal, 2021, 906, 77.	1.6	42
11	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. Astronomical Journal, 2020, 159, 130.	1.9	25
12	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	64
13	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	76
14	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, .	6.0	79
15	A Single-chord Stellar Occultation by the Extreme Trans-Neptunian Object (541132) LeleÄkÄ«honua. Astronomical Journal, 2020, 159, 230.	1.9	7
16	A multi-chord stellar occultation by the large trans-Neptunian object (174567) Varda. Astronomy and Astrophysics, 2020, 643, A125.	2.1	17
17	Detection of a Satellite of the Trojan Asteroid (3548) Eurybatesâ€™ A Lucy Mission Target. Planetary Science Journal, 2020, 1, 44.	1.5	13
18	Stellar Occultation by the Resonant Trans-Neptunian Object (523764) 2014 WC510 Reveals a Close Binary TNO. Planetary Science Journal, 2020, 1, 48.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Convex Shape and Rotation Model of Lucy Target (11351) Leucus from Lightcurves and Occultations. Planetary Science Journal, 2020, 1, 73.	1.5	11
20	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. Astronomical Journal, 2019, 158, 123.	1.9	14
21	The HST lightcurve of (486958) 2014 MU69. Icarus, 2019, 334, 11-21.	1.1	13
22	Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. Science, 2019, 364, .	6.0	113
23	Mutual orbit orientations of transneptunian binaries. Icarus, 2019, 334, 62-78.	1.1	35
24	Probing the Hill Sphere of (486958) 2014 MU <sub>69</sub> . II. Hubble Space Telescope Fine Guidance Sensors Observations during the 2018 August 4 Stellar Occultation. Astronomical Journal, 2019, 158, 168.	1.9	1
25	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. Astrophysical Journal Letters, 2018, 852, L35.	3.0	6
26	The Excited Spin State of 1I/2017 U1 ~Oumuamua. Astrophysical Journal Letters, 2018, 856, L21.	3.0	41
27	The New Horizons and Hubble Space Telescope search for rings, dust, and debris in the Pluto-Charon system. Icarus, 2018, 301, 155-172.	1.1	11
28	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. Journal of Geophysical Research E: Planets, 2018, 123, 20-36.	1.5	9
29	Probing the Hill Sphere of (486958) 2014 MU <sub>69</sub> : HST FGS Observations during the 2017 July 17 Stellar Occultation. Astronomical Journal, 2018, 156, 72.	1.9	9
30	Plausible Home Stars of the Interstellar Object ~Oumuamua Found in Gaia DR2. Astronomical Journal, 2018, 156, 205.	1.9	23
31	Light Curves of Lucy Targets: Leucus and Polymele. Astronomical Journal, 2018, 155, 245.	1.9	13
32	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU <sub>69</sub> (~œUltima Thule~œ). Geophysical Research Letters, 2018, 45, 8111-8120.	1.5	14
33	Pluto's haze as a surface material. Icarus, 2018, 314, 232-245.	1.1	50
34	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. Astronomical Journal, 2018, 156, 20.	1.9	39
35	Opportunities for the Large Synoptic Survey Telescope to Find New L <sub>5</sub> Trojan and Hilda Lucy Encounter Targets. Research Notes of the AAS, 2018, 2, 159.	0.3	1
36	Limits on a Ring System at 2014 MU69 from Recent Stellar Occultations. Research Notes of the AAS, 2018, 2, 224.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Inflight radiometric calibration of New Horizons's™ Multispectral Visible Imaging Camera (MVIC). <i>Icarus</i> , 2017, 287, 140-151.	1.1	14
38	Measuring temperature and ammonia hydrate ice on Charon in 2015 from Keck/OSIRIS spectra. <i>Icarus</i> , 2017, 284, 394-406.	1.1	15
39	The Global Color of Pluto from New Horizons. <i>Astronomical Journal</i> , 2017, 154, 258.	1.9	25
40	Mean radius and shape of Pluto and Charon from New Horizons images. <i>Icarus</i> , 2017, 287, 12-29.	1.1	105
41	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	1.1	59
42	RESULTS FROM THE 2014 NOVEMBER 15TH MULTI-CHORD STELLAR OCCULTATION BY THE TNO (229762) 2007 UK <sub>126</sub> . <i>Astronomical Journal</i> , 2016, 152, 156.	1.9	30
43	THE FIRST HIGH-PHASE OBSERVATIONS OF A KBO: NEW HORIZONS IMAGING OF (15810) 1994 JR <sub>1</sub> FROM THE KUIPER BELT. <i>Astrophysical Journal Letters</i> , 2016, 828, L15.	3.0	14
44	SURVEYING THE INNER SOLAR SYSTEM WITH AN INFRARED SPACE TELESCOPE. <i>Astronomical Journal</i> , 2016, 152, 122.	1.9	1
45	DISCOVERY OF A MAKEMAKEAN MOON. <i>Astrophysical Journal Letters</i> , 2016, 825, L9.	3.0	51
46	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	6.0	201
47	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	6.0	219
48	Surface compositions across Pluto and Charon. <i>Science</i> , 2016, 351, aad9189.	6.0	242
49	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	6.0	407
50	ASTROMETRY OF PLUTO FROM 1930-1951 OBSERVATIONS: THE LAMPLAND PLATE COLLECTION. <i>Astronomical Journal</i> , 2015, 149, 22.	1.9	7
51	The orbits and masses of satellites of Pluto. <i>Icarus</i> , 2015, 246, 317-329.	1.1	79
52	PLUTO AND CHARON WITH THE HUBBLE SPACE TELESCOPE. I. MONITORING GLOBAL CHANGE AND IMPROVED SURFACE PROPERTIES FROM LIGHT CURVES. <i>Astronomical Journal</i> , 2010, 139, 1117-1127.	1.9	49
53	The correlated colors of transneptunian binaries. <i>Icarus</i> , 2009, 200, 292-303.	1.1	82
54	High albedos of low inclination Classical Kuiper belt objects. <i>Icarus</i> , 2009, 201, 284-294.	1.1	101

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55	MASSES OF NIX AND HYDRA. <i>Astronomical Journal</i> , 2008, 135, 777-784.	1.9	75
56	Physical observations of (5145) Pholus. <i>Icarus</i> , 1992, 100, 288-294.	1.1	54
57	Water frost on Charon. <i>Nature</i> , 1987, 329, 522-523.	13.7	61