

# Marc Buie

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,756  
citations

218677

26  
h-index

182427

51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1762  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
2	Surface compositions across Pluto and Charon. <i>Science</i> , 2016, 351, aad9189.	12.6	242
3	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
4	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
5	Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
6	Mean radius and shape of Pluto and Charon from New Horizons images. <i>Icarus</i> , 2017, 287, 12-29.	2.5	105
7	High albedos of low inclination Classical Kuiper belt objects. <i>Icarus</i> , 2009, 201, 284-294.	2.5	101
8	The correlated colors of transneptunian binaries. <i>Icarus</i> , 2009, 200, 292-303.	2.5	82
9	The orbits and masses of satellites of Pluto. <i>Icarus</i> , 2015, 246, 317-329.	2.5	79
10	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	12.6	79
11	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
12	MASSES OF NIX AND HYDRA. <i>Astronomical Journal</i> , 2008, 135, 777-784.	4.7	75
13	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	64
14	Water frost on Charon. <i>Nature</i> , 1987, 329, 522-523.	27.8	61
15	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
16	Physical observations of (5145) Pholus. <i>Icarus</i> , 1992, 100, 288-294.	2.5	54
17	Lucy Mission to the Trojan Asteroids: Science Goals. <i>Planetary Science Journal</i> , 2021, 2, 171.	3.6	54
18	DISCOVERY OF A MAKEMAKEAN MOON. <i>Astrophysical Journal Letters</i> , 2016, 825, L9.	8.3	51

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19	Pluto's haze as a surface material. <i>Icarus</i> , 2018, 314, 232-245.	2.5	50
20	PLUTO AND CHARON WITH THE HUBBLE SPACE TELESCOPE. MONITORING GLOBAL CHANGE AND IMPROVED SURFACE PROPERTIES FROM LIGHT CURVES. <i>Astronomical Journal</i> , 2010, 139, 1117-1127.	4.7	49
21	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	4.5	42
22	The Excited Spin State of 1I/2017 U1 "Oumuamua. <i>Astrophysical Journal Letters</i> , 2018, 856, L21.	8.3	41
23	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. <i>Astronomical Journal</i> , 2018, 156, 20.	4.7	39
24	Mutual orbit orientations of transneptunian binaries. <i>Icarus</i> , 2019, 334, 62-78.	2.5	35
25	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32
26	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.	4.7	30
27	The Global Color of Pluto from New Horizons. <i>Astronomical Journal</i> , 2017, 154, 258.	4.7	25
28	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020, 159, 130.	4.7	25
29	Plausible Home Stars of the Interstellar Object "Oumuamua Found in Gaia DR2. <i>Astronomical Journal</i> , 2018, 156, 205.	4.7	23
30	A multi-chord stellar occultation by the large trans-Neptunian object (174567) Varda. <i>Astronomy and Astrophysics</i> , 2020, 643, A125.	5.1	17
31	Measuring temperature and ammonia hydrate ice on Charon in 2015 from Keck/OSIRIS spectra. <i>Icarus</i> , 2017, 284, 394-406.	2.5	15
32	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.	8.3	14
33	Inflight radiometric calibration of New Horizons™ Multispectral Visible Imaging Camera (MVIC). <i>Icarus</i> , 2017, 287, 140-151.	2.5	14
34	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU <sub>69</sub> ("Ultima Thule"). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	4.0	14
35	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. <i>Astronomical Journal</i> , 2019, 158, 123.	4.7	14
36	Light Curves of Lucy Targets: Leucus and Polymele. <i>Astronomical Journal</i> , 2018, 155, 245.	4.7	13

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37	The HST lightcurve of (486958) 2014 MU69. <i>Icarus</i> , 2019, 334, 11-21.	2.5	13
38	Detection of a Satellite of the Trojan Asteroid (3548) Eurybatesâ€”A Lucy Mission Target. <i>Planetary Science Journal</i> , 2020, 1, 44.	3.6	13
39	The New Horizons and Hubble Space Telescope search for rings, dust, and debris in the Pluto-Charon system. <i>Icarus</i> , 2018, 301, 155-172.	2.5	11
40	Convex Shape and Rotation Model of Lucy Target (11351) Leucus from Lightcurves and Occultations. <i>Planetary Science Journal</i> , 2020, 1, 73.	3.6	11
41	A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. <i>Icarus</i> , 2021, 356, 114098.	2.5	10
42	The Orbit and Density of the Jupiter Trojan Satellite System Eurybatesâ€”Queta. <i>Planetary Science Journal</i> , 2021, 2, 170.	3.6	10
43	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 95.	3.6	10
44	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 20-36.	3.6	9
45	Probing the Hill Sphere of (486958) 2014 MU <sub>69</sub> : HST FGS Observations during the 2017 July 17 Stellar Occultation. <i>Astronomical Journal</i> , 2018, 156, 72.	4.7	9
46	ASTROMETRY OF PLUTO FROM 1930â€”1951 OBSERVATIONS: THE LAMPLAND PLATE COLLECTION. <i>Astronomical Journal</i> , 2015, 149, 22.	4.7	7
47	A Single-chord Stellar Occultation by the Extreme Trans-Neptunian Object (541132) LeleÄkÅ«honua. <i>Astronomical Journal</i> , 2020, 159, 230.	4.7	7
48	Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , 2021, 2, 202.	3.6	7
49	Stellar Occultation by the Resonant Trans-Neptunian Object (523764) 2014 WC510 Reveals a Close Binary TNO. <i>Planetary Science Journal</i> , 2020, 1, 48.	3.6	7
50	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018, 852, L35.	8.3	6
51	The Sizes and Albedos of Centaurs 2014 YY <sub>49</sub> and 2013 NL <sub>24</sub> from Stellar Occultation Measurements by RECON. <i>Planetary Science Journal</i> , 2021, 2, 22.	3.6	3
52	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 23.	3.6	3
53	Limits on a Ring System at 2014 MU69 from Recent Stellar Occultations. <i>Research Notes of the AAS</i> , 2018, 2, 224.	0.7	2
54	SURVEYING THE INNER SOLAR SYSTEM WITH AN INFRARED SPACE TELESCOPE. <i>Astronomical Journal</i> , 2016, 152, 122.	4.7	1

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55	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. <i>Astronomical Journal</i> , 2019, 158, 168.	4.7	1
56	Opportunities for the Large Synoptic Survey Telescope to Find New L <sub>5</sub> Trojan and Hilda Lucy Encounter Targets. <i>Research Notes of the AAS</i> , 2018, 2, 159.	0.7	1
57	Navigation and Orbit Estimation for New Horizons <sup>™</sup> Arrokoth Flyby: Overview, Results and Lessons Learned. <i>Space Science Reviews</i> , 2022, 218, 1.	8.1	0