

# Mark R Showalter

## List of Publications by Year in descending order

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43  
papers

2,861  
citations

257450

24  
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265206

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g-index

46  
all docs

46  
docs citations

46  
times ranked

1987  
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	Exploring The Saturn System In The Thermal Infrared: The Composite Infrared Spectrometer. <i>Space Science Reviews</i> , 2004, 115, 169-297.	8.1	275
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	Structure and particle properties of Saturn's E Ring. <i>Icarus</i> , 1991, 94, 451-473.	2.5	145
6	An Evolving View of Saturn's Dynamic Rings. <i>Science</i> , 2010, 327, 1470-1475.	12.6	127
7	Voyager Photometry of Saturn's A Ring. <i>Icarus</i> , 1993, 105, 184-215.	2.5	123
8	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
9	A close look at Saturn's rings with Cassini VIMS. <i>Icarus</i> , 2008, 193, 182-212.	2.5	113
10	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
11	The Second Ring-Moon System of Uranus: Discovery and Dynamics. <i>Science</i> , 2006, 311, 973-977.	12.6	108
12	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	12.6	79
13	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
14	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	64
15	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
16	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). <i>Astronomy and Astrophysics</i> , 2006, 446, 707-716.	5.1	57
17	Uranus and Neptune missions: A study in advance of the next Planetary Science Decadal Survey. <i>Planetary and Space Science</i> , 2019, 177, 104680.	1.7	50
18	New Dust Belts of Uranus: One Ring, Two Ring, Red Ring, Blue Ring. <i>Science</i> , 2006, 312, 92-94.	12.6	47

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19	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
20	Keck near-infrared observations of Saturn's E and G rings during Earth's ring plane crossing in August 1995. <i>Icarus</i> , 2004, 172, 446-454.	2.5	43
21	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	4.5	42
22	Cassini thermal observations of Saturn's main rings: Implications for particle rotation and vertical mixing. <i>Planetary and Space Science</i> , 2006, 54, 1167-1176.	1.7	37
23	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32
24	The Dark Side of the Rings of Uranus. <i>Science</i> , 2007, 317, 1888-1890.	12.6	28
25	Cupid is doomed: An analysis of the stability of the inner uranian satellites. <i>Icarus</i> , 2012, 220, 911-921.	2.5	28
26	The Science Case for Spacecraft Exploration of the Uranian Satellites: Candidate Ocean Worlds in an Ice Giant System. <i>Planetary Science Journal</i> , 2021, 2, 120.	3.6	19
27	The Geophysical Environment of (486958) Arrokoth—A Small Kuiper Belt Object Explored by New Horizons. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	18
28	Close-range remote sensing of Saturn's rings during Cassini's ring-grazing orbits and Grand Finale. <i>Science</i> , 2019, 364, .	12.6	17
29	The seventh inner moon of Neptune. <i>Nature</i> , 2019, 566, 350-353.	27.8	17
30	RESONANCES, CHAOS, AND SHORT-TERM INTERACTIONS AMONG THE INNER URANIAN SATELLITES. <i>Astronomical Journal</i> , 2015, 149, 142.	4.7	16
31	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU <sub>69</sub> (aka Ultima Thule). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	4.0	14
32	Arcs and Clumps in the Uranian A Ring. <i>Science</i> , 1995, 267, 490-493.	12.6	12
33	The Rings of Neptune. , 0, , 112-124.		12
34	Orbits and resonances of the regular moons of Neptune. <i>Icarus</i> , 2020, 338, 113462.	2.5	12
35	The Rings of Uranus. , 0, , 93-111.		11
36	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

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37	Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 155-174.	3.6	11
38	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
39	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
40	The rings and small moons of Uranus and Neptune. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190482.	3.4	7
41	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018, 852, L35.	8.3	6
42	Thermal transport in Saturn's B ring inferred from Cassini CIRS. <i>Icarus</i> , 2015, 254, 157-177.	2.5	5
43	Cupid is not Doomed Yet: On the Stability of the Inner Moons of Uranus. <i>Astronomical Journal</i> , 2022, 164, 38.	4.7	2