# Mark R Showalter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6501565/publications.pdf

Version: 2024-02-01

| 43 | 2,861 | 257357 | 265120 |
|---|---|---|---|
| papers | citations | 24 h-index | 42 g-index |

| 46 | 46 | 46 | 1987 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. Astrophysical Journal Letters, 2022, 927, L8. | 3.0 | 32 |
| 2 | The Geophysical Environment of (486958) Arrokothâ€"A Small Kuiper Belt Object Explored by New Horizons. Journal of Geophysical Research E: Planets, 2022, 127, . | 1.5 | 18 |
| 3 | Cupid is not Doomed Yet: On the Stability of the Inner Moons of Uranus. Astronomical Journal, 2022, 164, 38. | 1.9 | 2 |
| 4 | A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. Icarus, 2021, 356, 114098. | 1.1 | 10 |
| 5 | The Science Case for Spacecraft Exploration of the Uranian Satellites: Candidate Ocean Worlds in an Ice Giant System. Planetary Science Journal, 2021, 2, 120. | 1.5 | 19 |
| 6 | New Horizons Observations of the Cosmic Optical Background. Astrophysical Journal, 2021, 906, 77. | 1.6 | 42 |
| 7 | Orbits and resonances of the regular moons of Neptune. Icarus, 2020, 338, 113462. | 1.1 | 12 |
| 8 | The rings and small moons of Uranus and Neptune. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190482. | 1.6 | 7 |
| 9 | Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, . | 6.0 | 64 |
| 10 | The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, . | 6.0 | 76 |
| 11 | The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, . | 6.0 | 79 |
| 12 | Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. Journal of Geophysical Research E: Planets, 2019, 124, 155-174. | 1.5 | 11 |
| 13 | Uranus and Neptune missions: A study in advance of the next Planetary Science Decadal Survey. Planetary and Space Science, 2019, 177, 104680. | 0.9 | 50 |
| 14 | Close-range remote sensing of Saturnâ€™s rings during Cassiniâ€™s ring-grazing orbits and Grand Finale. Science, 2019, 364, . | 6.0 | 17 |
| 15 | Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. Science, 2019, 364, . | 6.0 | 113 |
| 16 | Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. Science, 2019, 363, 955-959. | 6.0 | 116 |
| 17 | The seventh inner moon of Neptune. Nature, 2019, 566, 350-353. | 13.7 | 17 |
| 18 | Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. Astrophysical Journal Letters, 2018, 852, L35. | 3.0 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU<sub>69</sub> (â€œUltima Thuleâ€). Geophysical Research Letters, 2018, 45, 8111-8120. | 1.5 | 14 |
| 22 | Craters of the Pluto-Charon system. Icarus, 2017, 287, 187-206. | 1.1 | 59 |
| 23 | The formation of Charonâ€™s red poles from seasonally cold-trapped volatiles. Nature, 2016, 539, 65-68. | 13.7 | 44 |
| 24 | The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866. | 6.0 | 201 |
| 25 | The geology of Pluto and Charon through the eyes of New Horizons. Science, 2016, 351, 1284-1293. | 6.0 | 219 |
| 26 | RESONANCES, CHAOS, AND SHORT-TERM INTERACTIONS AMONG THE INNER URANIAN SATELLITES. Astronomical Journal, 2015, 149, 142. | 1.9 | 16 |
| 27 | Thermal transport in Saturnâ€™s B ring inferred from Cassini CIRS. Icarus, 2015, 254, 157-177. | 1.1 | 5 |
| 28 | The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815. | 6.0 | 407 |
| 29 | Cupid is doomed: An analysis of the stability of the inner uranian satellites. Icarus, 2012, 220, 911-921. | 1.1 | 28 |
| 30 | An Evolving View of Saturnâ€™s Dynamic Rings. Science, 2010, 327, 1470-1475. | 6.0 | 127 |
| 31 | A close look at Saturn's rings with Cassini VIMS. Icarus, 2008, 193, 182-212. | 1.1 | 113 |
| 32 | The Dark Side of the Rings of Uranus. Science, 2007, 317, 1888-1890. | 6.0 | 28 |
| 33 | Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). Astronomy and Astrophysics, 2006, 446, 707-716. | 2.1 | 57 |
| 34 | Cassini thermal observations of Saturn's main rings: Implications for particle rotation and vertical mixing. Planetary and Space Science, 2006, 54, 1167-1176. | 0.9 | 37 |
| 35 | The Second Ring-Moon System of Uranus: Discovery and Dynamics. Science, 2006, 311, 973-977. | 6.0 | 108 |
| 36 | New Dust Belts of Uranus: One Ring, Two Ring, Red Ring, Blue Ring. Science, 2006, 312, 92-94. | 6.0 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Exploring The Saturn System In The Thermal Infrared: The Composite Infrared Spectrometer. Space Science Reviews, 2004, 115, 169-297. | 3.7 | 275 |
| 38 | Keck near-infrared observations of Saturn's E and G rings during Earth's ring plane crossing in August 1995. Icarus, 2004, 172, 446-454. | 1.1 | 43 |
| 39 | Arcs and Clumps in the Uranian Â Ring. Science, 1995, 267, 490-493. | 6.0 | 12 |
| 40 | Voyager Photometry of Saturn's A Ring. Icarus, 1993, 105, 184-215. | 1.1 | 123 |
| 41 | Structure and particle properties of Saturn's E Ring. Icarus, 1991, 94, 451-473. | 1.1 | 145 |
| 42 | The Rings of Uranus. , 0, , 93-111. | | 11 |
| 43 | The Rings of Neptune. , 0, , 112-124. | | 12 |