

Simon B Porter

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7340333/publications.pdf>

Version: 2024-02-01

41
papers

1,717
citations

430874

18
h-index

315739

38
g-index

42
all docs

42
docs citations

42
times ranked

1391
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 | The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293. | 12.6 | 219 |
| 3 | Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, . | 12.6 | 113 |
| 4 | Thermal evolution of Kuiper belt objects, with implications for cryovolcanism. <i>Icarus</i> , 2009, 202, 694-714. | 2.5 | 89 |
| 5 | The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, . | 12.6 | 79 |
| 6 | The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030. | 12.6 | 78 |
| 7 | The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, . | 12.6 | 76 |
| 8 | Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, . | 12.6 | 64 |
| 9 | KCTF evolution of trans-neptunian binaries: Connecting formation to observation. <i>Icarus</i> , 2012, 220, 947-957. | 2.5 | 63 |
| 10 | Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206. | 2.5 | 59 |
| 11 | POST-CAPTURE EVOLUTION OF POTENTIALLY HABITABLE EXOMOONS. <i>Astrophysical Journal Letters</i> , 2011, 736, L14. | 8.3 | 58 |
| 12 | The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68. | 27.8 | 44 |
| 13 | New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77. | 4.5 | 42 |
| 14 | High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU ₆₉ . <i>Astronomical Journal</i> , 2018, 156, 20. | 4.7 | 39 |
| 15 | Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8. | 8.3 | 32 |
| 16 | Micrometeorite impact annealing of ice in the outer Solar System. <i>Icarus</i> , 2010, 208, 492-498. | 2.5 | 27 |
| 17 | Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020, 159, 130. | 4.7 | 25 |
| 18 | Disk-resolved Photometric Properties of Pluto and the Coloring Materials across its Surface. <i>Astronomical Journal</i> , 2020, 159, 74. | 4.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The Geophysical Environment of (486958) Arrokoth—A Small Kuiper Belt Object Explored by <i>New Horizons</i>. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, . | 3.6 | 18 |
| 20 | THE FIRST HIGH-PHASE OBSERVATIONS OF A KBO: NEW HORIZONS IMAGING OF (15810) 1994 JR ₁ FROM THE KUIPER BELT. <i>Astrophysical Journal Letters</i> , 2016, 828, L15. | 8.3 | 14 |
| 21 | Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU ₆₉ (—Ultima Thule—). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120. | 4.0 | 14 |
| 22 | 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 |
| 23 | Detection of a Satellite of the Trojan Asteroid (3548) Eurybates—A Lucy Mission Target. <i>Planetary Science Journal</i> , 2020, 1, 44. | 3.6 | 13 |
| 24 | On the roles of escape erosion and the viscous relaxation of craters on Pluto. <i>Icarus</i> , 2015, 250, 287-293. | 2.5 | 12 |
| 25 | Ejecta transfer in the Pluto system. <i>Icarus</i> , 2015, 246, 360-368. | 2.5 | 11 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | A sortie mission to Schr—dinger Basin as reconnaissance for future exploration. , 2011, , . | | 7 |
| 30 | Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021, 2, 75. | 3.6 | 7 |
| 31 | Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , 2021, 2, 202. | 3.6 | 7 |
| 32 | Laser-Driven Mini-Thrusters. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 6 |
| 33 | Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018, 852, L35. | 8.3 | 6 |
| 34 | Time-resolved force and ICCD imaging study of TEA CO ₂ laser ablation of ice and water. , 2006, , . | | 5 |
| 35 | Ablation of Liquids for Laser Propulsion with TEA CO ₂ Laser. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 4 |
| 36 | High-resolution Search for Kuiper Belt Object Binaries from New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 46. | 3.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. Planetary Science Journal, 2022, 3, 23. | 3.6 | 3 |
| 38 | Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. Planetary Science Journal, 2022, 3, 109. | 3.6 | 3 |
| 39 | Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. Geophysical Research Letters, 2022, 49, . | 4.0 | 3 |
| 40 | Limits on a Ring System at 2014 MU69 from Recent Stellar Occultations. Research Notes of the AAS, 2018, 2, 224. | 0.7 | 2 |
| 41 | An analysis of force generation in TEA CO ₂ laser ablation of liquids. , 2006, , . | | 1 |