

# Simon B Porter

## List of Publications by Year in descending order

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41  
papers

1,717  
citations

430754

18  
h-index

315616

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.	6.0	407
2	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	6.0	219
3	Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	6.0	113
4	Thermal evolution of Kuiper belt objects, with implications for cryovolcanism. <i>Icarus</i> , 2009, 202, 694-714.	1.1	89
5	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	6.0	79
6	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	6.0	78
7	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	76
8	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	64
9	KCTF evolution of trans-neptunian binaries: Connecting formation to observation. <i>Icarus</i> , 2012, 220, 947-957.	1.1	63
10	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	1.1	59
11	POST-CAPTURE EVOLUTION OF POTENTIALLY HABITABLE EXOMOONS. <i>Astrophysical Journal Letters</i> , 2011, 736, L14.	3.0	58
12	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	13.7	44
13	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	1.6	42
14	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU <sub>69</sub> . <i>Astronomical Journal</i> , 2018, 156, 20.	1.9	39
15	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	3.0	32
16	Micrometeorite impact annealing of ice in the outer Solar System. <i>Icarus</i> , 2010, 208, 492-498.	1.1	27
17	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020, 159, 130.	1.9	25
18	Disk-resolved Photometric Properties of Pluto and the Coloring Materials across its Surface. <i>Astronomical Journal</i> , 2020, 159, 74.	1.9	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, .	1.5	18
20	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
21	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.	1.5	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.	1.9	14
23	Detection of a Satellite of the Trojan Asteroid (3548) Eurybates—A Lucy Mission Target. <i>Planetary Science Journal</i> , 2020, 1, 44.	1.5	13
24	On the roles of escape erosion and the viscous relaxation of craters on Pluto. <i>Icarus</i> , 2015, 250, 287-293.	1.1	12
25	Ejecta transfer in the Pluto system. <i>Icarus</i> , 2015, 246, 360-368.	1.1	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.	1.1	11
27	A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. <i>Icarus</i> , 2021, 356, 114098.	1.1	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.	1.5	10
29	A sortie mission to Schrödinger 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.	1.5	7
31	Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , 2021, 2, 202.	1.5	7
32	Laser-Driven Mini-Thrusters. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	6
33	Phase Curves of Nix and Hydra from the New Horizons Imaging Cameras. <i>Astrophysical Journal Letters</i> , 2018, 852, L35.	3.0	6
34	Time-resolved force and ICCD imaging study of TEA CO <sub>2</sub> laser ablation of ice and water. , 2006, , .		5
35	Ablation of Liquids for Laser Propulsion with TEA CO <sub>2</sub> Laser. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	4
36	High-resolution Search for Kuiper Belt Object Binaries from New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 46.	1.5	4

#	ARTICLE	IF	CITATIONS
37	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. Planetary Science Journal, 2022, 3, 23.	1.5	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.	1.5	3
39	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. Geophysical Research Letters, 2022, 49, .	1.5	3
40	Limits on a Ring System at 2014 MU69 from Recent Stellar Occultations. Research Notes of the AAS, 2018, 2, 224.	0.3	2
41	An analysis of force generation in TEA CO <sub>2</sub> laser ablation of liquids. , 2006, , .		1