

# Kelsi N Singer

## List of Publications by Year in descending order

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67  
papers

3,037  
citations

201674

27  
h-index

161849

54  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2210  
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 NASA Roadmap to Ocean Worlds. <i>Astrobiology</i> , 2019, 19, 1-27.	3.0	209
5	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
6	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
7	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
8	Enceladus' extreme heat flux as revealed by its relaxed craters. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	85
9	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	12.6	79
10	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	12.6	78
11	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
12	Massive ice avalanches on Iapetus mobilized by friction reduction during flash heating. <i>Nature Geoscience</i> , 2012, 5, 574-578.	12.9	67
13	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	64
14	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
15	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
16	Density of Neutral Hydrogen in the Sun's Interstellar Neighborhood. <i>Astrophysical Journal</i> , 2020, 903, 48.	4.5	56
17	Revised recommended methods for analyzing crater size-frequency distributions. <i>Meteoritics and Planetary Science</i> , 2018, 53, 891-931.	1.6	55
18	Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017, 287, 261-286.	2.5	52

#	ARTICLE	IF	CITATIONS
19	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	10.3	49
20	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
21	Recent cryovolcanism in Virgil Fossae on Pluto. <i>Icarus</i> , 2019, 330, 155-168.	2.5	45
22	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
23	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	4.5	42
24	Secondary craters from large impacts on Europa and Ganymede: Ejecta size-velocity distributions on icy worlds, and the scaling of ejected blocks. <i>Icarus</i> , 2013, 226, 865-884.	2.5	37
25	Secondary craters and ejecta across the solar system: Populations and effects on impact-crater-based chronologies. <i>Meteoritics and Planetary Science</i> , 2018, 53, 638-671.	1.6	35
26	Boulder Distributions Around Young, Small Lunar Impact Craters and Implications for Regolith Production Rates and Landing Site Safety. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2754-2771.	3.6	34
27	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32
28	Tectonics on Iapetus: Despinning, respinning, or something completely different?. <i>Icarus</i> , 2011, 216, 198-211.	2.5	29
29	Crater Density Predictions for New Horizons Flyby Target 2014 MU69. <i>Astrophysical Journal Letters</i> , 2019, 872, L5.	8.3	26
30	The Global Color of Pluto from New Horizons. <i>Astronomical Journal</i> , 2017, 154, 258.	4.7	25
31	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020, 159, 130.	4.7	25
32	Viscous relaxation of Ganymede's impact craters: Constraints on heat flux. <i>Icarus</i> , 2017, 296, 275-288.	2.5	22
33	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
34	Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars. <i>Icarus</i> , 2021, 356, 113866.	2.5	15
35	Influence of Solar Disturbances on Galactic Cosmic Rays in the Solar Wind, Heliosheath, and Local Interstellar Medium: Advanced Composition Explorer, New Horizons, and Voyager Observations. <i>Astrophysical Journal</i> , 2020, 905, 69.	4.5	15
36	Large-scale cryovolcanic resurfacing on Pluto. <i>Nature Communications</i> , 2022, 13, 1542.	12.8	15

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37	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.	4.0	14
38	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. Astronomical Journal, 2019, 158, 123.	4.7	14
39	Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. Icarus, 2021, 356, 113723.	2.5	13
40	ON THE PROVENANCE OF PLUTOâ€™S NITROGEN (N <sub>2</sub> ). Astrophysical Journal Letters, 2015, 808, L50.	8.3	12
41	Landslides on Charon. Icarus, 2020, 335, 113383.	2.5	12
42	Lunar Secondary Craters and Estimated Ejecta Block Sizes Reveal a Scaleâ€Dependent Fragmentation Trend. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006313.	3.6	12
43	Pits, uplifts and small chaos features on Europa: Morphologic and morphometric evidence for intrusive upwelling and lower limits to ice shell thickness. Icarus, 2021, 364, 114465.	2.5	12
44	Evidence for Possible Clouds in Plutoâ€™s Present-day Atmosphere. Astronomical Journal, 2017, 154, 43.	4.7	11
45	Relaxed impact craters on Ganymede: Regional variation and high heat flows. Icarus, 2018, 306, 214-224.	2.5	11
46	Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. Journal of Geophysical Research E: Planets, 2019, 124, 155-174.	3.6	11
47	Washboard and fluted terrains on Pluto as evidence for ancient glaciation. Nature Astronomy, 2019, 3, 62-68.	10.1	10
48	A statistical review of light curves and the prevalence of contact binaries in the Kuiper Belt. Icarus, 2021, 356, 114098.	2.5	10
49	Pluto and Charon Impact Crater Populations: Reconciling Different Results. Planetary Science Journal, 2021, 2, 192.	3.6	10
50	Student Dust Counter Status Report: The First 50 au. Planetary Science Journal, 2022, 3, 69.	3.6	10
51	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. Planetary Science Journal, 2022, 3, 95.	3.6	10
52	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.	3.6	9
53	A Near-surface Temperature Model of Arrokoth. Planetary Science Journal, 2022, 3, 110.	3.6	9
54	Some New Results and Perspectives Regarding the Kuiper Belt Object Arrokothâ€™s Remarkable, Bright Neck. Planetary Science Journal, 2021, 2, 87.	3.6	8

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55	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021, 2, 75.	3.6	7
56	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. <i>Remote Sensing</i> , 2021, 13, 3476.	4.0	7
57	New Horizons Detection of the Local Galactic Lyman- $\alpha$ Background. <i>Astronomical Journal</i> , 2021, 162, 241.	4.7	7
58	Impact Craters on Pluto and Charon and Terrain Age Estimates. , 2020, , 1-1.		4
59	Collisions of Small Kuiper Belt Objects With (486958) Arrokoth: Implications for Its Spin Evolution and Bulk Density. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006961.	3.6	3
60	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 23.	3.6	3
61	Ice Shell Structure of Ganymede and Callisto Based on Impact Crater Morphology. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	3
62	Upper Limits on the Escape of Volatiles from (486958) Arrokoth Using New Horizons Alice Ultraviolet Spectrograph Observations. <i>Planetary Science Journal</i> , 2022, 3, 111.	3.6	3
63	Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. <i>Planetary Science Journal</i> , 2022, 3, 109.	3.6	3
64	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
65	Charon's Far Side Geomorphology. <i>Planetary Science Journal</i> , 2021, 2, 141.	3.6	2
66	A new spacecraft mission concept combining the first exploration of the Centaurs and an astrophysical space telescope for the outer solar system. <i>Planetary and Space Science</i> , 2021, 205, 105290.	1.7	0
67	The Search for MeV Electrons 2-45 au from the Sun with the Alice Instrument Microchannel Plate Detector Aboard New Horizons. <i>Research Notes of the AAS</i> , 2020, 4, 61.	0.7	0