

Kelsi N Singer

List of Publications by Year in descending order

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67
papers

3,037
citations

201674

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times ranked

2210
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#	ARTICLE	IF	CITATIONS
1	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022, 3, 23.	3.6	3
2	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32
3	Large-scale cryovolcanic resurfacing on Pluto. <i>Nature Communications</i> , 2022, 13, 1542.	12.8	15
4	Student Dust Counter Status Report: The First 50 au. <i>Planetary Science Journal</i> , 2022, 3, 69.	3.6	10
5	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
6	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
7	A Near-surface Temperature Model of Arrokoth. <i>Planetary Science Journal</i> , 2022, 3, 110.	3.6	9
8	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
9	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
10	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
11	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
12	Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. <i>Icarus</i> , 2021, 356, 113723.	2.5	13
13	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
14	Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars. <i>Icarus</i> , 2021, 356, 113866.	2.5	15
15	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021, 2, 75.	3.6	7
16	Some New Results and Perspectives Regarding the Kuiper Belt Object Arrokoth—™s Remarkable, Bright Neck. <i>Planetary Science Journal</i> , 2021, 2, 87.	3.6	8
17	Charon—™s Far Side Geomorphology. <i>Planetary Science Journal</i> , 2021, 2, 141.	3.6	2
18	Pits, uplifts and small chaos features on Europa: Morphologic and morphometric evidence for intrusive upwelling and lower limits to ice shell thickness. <i>Icarus</i> , 2021, 364, 114465.	2.5	12

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19	Pluto and Charon Impact Crater Populations: Reconciling Different Results. Planetary Science Journal, 2021, 2, 192.	3.6	10
20	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. Remote Sensing, 2021, 13, 3476.	4.0	7
21	A new spacecraft mission concept combining the first exploration of the Centaurs and an astrophysical space telescope for the outer solar system. Planetary and Space Science, 2021, 205, 105290.	1.7	0
22	New Horizons Observations of the Cosmic Optical Background. Astrophysical Journal, 2021, 906, 77.	4.5	42
23	Collisions of Small Kuiper Belt Objects With (486958) Arrokoth: Implications for Its Spin Evolution and Bulk Density. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006961.	3.6	3
24	New Horizons Detection of the Local Galactic Lyman- α Background. Astronomical Journal, 2021, 162, 241.	4.7	7
25	Landslides on Charon. Icarus, 2020, 335, 113383.	2.5	12
26	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. Astronomical Journal, 2020, 159, 130.	4.7	25
27	Lunar Secondary Craters and Estimated Ejecta Block Sizes Reveal a Scale-Dependent Fragmentation Trend. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006313.	3.6	12
28	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	12.6	64
29	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	12.6	76
30	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, .	12.6	79
31	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. Astrophysical Journal, 2020, 905, 69.	4.5	15
32	Density of Neutral Hydrogen in the Sun's Interstellar Neighborhood. Astrophysical Journal, 2020, 903, 48.	4.5	56
33	The Search for MeV Electrons 2-45 au from the Sun with the Alice Instrument Microchannel Plate Detector Aboard New Horizons. Research Notes of the AAS, 2020, 4, 61.	0.7	0
34	Impact Craters on Pluto and Charon and Terrain Age Estimates. , 2020, , 1-1.		4
35	Boulder Distributions Around Young, Small Lunar Impact Craters and Implications for Regolith Production Rates and Landing Site Safety. Journal of Geophysical Research E: Planets, 2019, 124, 2754-2771.	3.6	34
36	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

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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	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	10.3	49
39	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
40	Recent cryovolcanism in Virgil Fossae on Pluto. <i>Icarus</i> , 2019, 330, 155-168.	2.5	45
41	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
42	Crater Density Predictions for New Horizons Flyby Target 2014 MU69. <i>Astrophysical Journal Letters</i> , 2019, 872, L5.	8.3	26
43	Washboard and fluted terrains on Pluto as evidence for ancient glaciation. <i>Nature Astronomy</i> , 2019, 3, 62-68.	10.1	10
44	The NASA Roadmap to Ocean Worlds. <i>Astrobiology</i> , 2019, 19, 1-27.	3.0	209
45	Relaxed impact craters on Ganymede: Regional variation and high heat flows. <i>Icarus</i> , 2018, 306, 214-224.	2.5	11
46	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
47	Revised recommended methods for analyzing crater size-frequency distributions. <i>Meteoritics and Planetary Science</i> , 2018, 53, 891-931.	1.6	55
48	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
49	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
50	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU ₆₉ (aka Ultima Thule). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	4.0	14
51	Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017, 287, 261-286.	2.5	52
52	Viscous relaxation of Ganymede's impact craters: Constraints on heat flux. <i>Icarus</i> , 2017, 296, 275-288.	2.5	22
53	Evidence for Possible Clouds in Pluto's Present-day Atmosphere. <i>Astronomical Journal</i> , 2017, 154, 43.	4.7	11
54	The Global Color of Pluto from New Horizons. <i>Astronomical Journal</i> , 2017, 154, 258.	4.7	25

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55	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
56	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
57	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
58	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
59	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	12.6	78
60	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
61	Surface compositions across Pluto and Charon. <i>Science</i> , 2016, 351, aad9189.	12.6	242
62	ON THE PROVENANCE OF PLUTO'S NITROGEN (N_2). <i>Astrophysical Journal Letters</i> , 2015, 808, L50.	8.3	12
63	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
64	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
65	Massive ice avalanches on Iapetus mobilized by friction reduction during flash heating. <i>Nature Geoscience</i> , 2012, 5, 574-578.	12.9	67
66	Enceladus' extreme heat flux as revealed by its relaxed craters. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	85
67	Tectonics on Iapetus: Despinning, respinning, or something completely different?. <i>Icarus</i> , 2011, 216, 198-211.	2.5	29