

# S A Stern

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

812  
citations

687220

13  
h-index

501076

28  
g-index

35  
all docs

35  
docs citations

35  
times ranked

822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	6.0	116
2	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
3	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	6.0	79
4	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	76
5	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	64
6	Density of Neutral Hydrogen in the Sun's Interstellar Neighborhood. <i>Astrophysical Journal</i> , 2020, 903, 48.	1.6	56
7	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	4.7	49
8	Interstellar Pickup Ion Observations Halfway to the Termination Shock. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 19.	3.0	33
9	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	3.0	32
10	The Lyman- $\alpha$ Sky Background as Observed by New Horizons. <i>Geophysical Research Letters</i> , 2018, 45, 8022-8028.	1.5	19
11	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
12	Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. <i>Planetary Science Journal</i> , 2021, 2, 137.	1.5	15
13	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022, 3, 112.	1.5	15
14	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU <sub>69</sub> (aka Ultima Thule). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	1.5	14
15	Pluto's Ultraviolet Spectrum, Surface Reflectance, and Airglow Emissions. <i>Astronomical Journal</i> , 2020, 159, 274.	1.9	12
16	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.	1.5	11
17	Neptune Odyssey: A Flagship Concept for the Exploration of the Neptune–Triton System. <i>Planetary Science Journal</i> , 2021, 2, 184.	1.5	11
18	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

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19	Pluto's Antipodal Terrains Imply a Thick Subsurface Ocean and Hydrated Core. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091596.	1.5	9
20	A Near-surface Temperature Model of Arrokoth. <i>Planetary Science Journal</i> , 2022, 3, 110.	1.5	9
21	Some New Results and Perspectives Regarding the Kuiper Belt Object Arrokoth's Remarkable, Bright Neck. <i>Planetary Science Journal</i> , 2021, 2, 87.	1.5	8
22	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021, 2, 75.	1.5	7
23	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. <i>Remote Sensing</i> , 2021, 13, 3476.	1.8	7
24	LRO/LAMP observations of the lunar helium exosphere: constraints on thermal accommodation and outgassing rate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4438-4451.	1.6	5
25	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7413-7424.	0.8	4
26	Charon: A Brief History of Tides. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006449.	1.5	4
27	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.	1.5	3
28	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.	1.5	3
29	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.	1.5	3
30	Constraining the IMF at Pluto Using New Horizons SWAP Data and Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1568-1581.	0.8	2
31	Analysis of Hybrid Gas-Dust Outbursts Observed at 67P/Churyumov-Gerasimenko. <i>Astronomical Journal</i> , 2021, 162, 4.	1.9	2
32	New Investigations of Dark-floored Pits In the Volatile Ice of Sputnik Planitia on Pluto. <i>Astronomical Journal</i> , 2021, 162, 207.	1.9	2
33	Tracing seasonal trends across Pluto's craters: New Horizons Ralph/MVIC results. <i>Icarus</i> , 2022, 373, 114771.	1.1	1
34	Spatial Distribution of Ultraviolet Emission from Cometary Activity at 67P/Churyumov-Gerasimenko. <i>Astronomical Journal</i> , 2021, 162, 5.	1.9	0
35	On Charon's Far-ultraviolet Surface Reflectance. <i>Planetary Science Journal</i> , 2021, 2, 164.	1.5	0