

# Andrew Poppe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1503325/publications.pdf>

Version: 2024-02-01

100  
papers

2,349  
citations

212478

28  
h-index

325983

40  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1919  
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved model for interplanetary dust fluxes in the outer Solar System. <i>Icarus</i> , 2016, 264, 369-386.	1.1	121
2	Simulations of the photoelectron sheath and dust levitation on the lunar surface. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	114
3	The effect of surface topography on the lunar photoelectron sheath and electrostatic dust transport. <i>Icarus</i> , 2012, 221, 135-146.	1.1	85
4	Dust ablation on the giant planets: Consequences for stratospheric photochemistry. <i>Icarus</i> , 2017, 297, 33-58.	1.1	82
5	Lunar Dust Levitation. <i>Journal of Aerospace Engineering</i> , 2009, 22, 2-9.	0.8	69
6	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	6.0	60
7	Negative potentials above the day-side lunar surface in the terrestrial plasma sheet: Evidence of non-monotonic potentials. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	50
8	Interplanetary Dust, Meteoroids, Meteors and Meteorites. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	49
9	Thermal and Energetic Ion Dynamics in Ganymede's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4614-4637.	0.8	46
10	Lunar pickup ions observed by ARTEMIS: Spatial and temporal distribution and constraints on species and source locations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	45
11	Impacts of Cosmic Dust on Planetary Atmospheres and Surfaces. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	43
12	Detections of lunar exospheric ions by the LADEE neutral mass spectrometer. <i>Geophysical Research Letters</i> , 2015, 42, 5162-5169.	1.5	42
13	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	1.6	42
14	ARTEMIS observations of lunar pickup ions in the terrestrial magnetotail lobes. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	40
15	First results from the Venetia Burney Student Dust Counter on the New Horizons mission. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	38
16	On the formation of Ganymede's surface brightness asymmetries: Kinetic simulations of Ganymede's magnetosphere. <i>Geophysical Research Letters</i> , 2016, 43, 4745-4754.	1.5	38
17	Measurement of the cosmic optical background using the long range reconnaissance imager on New Horizons. <i>Nature Communications</i> , 2017, 8, 15003.	5.8	38
18	Particle-in-cell simulations of the solar wind interaction with lunar crustal magnetic anomalies: Magnetic cusp regions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	34

#	ARTICLE	IF	CITATIONS
19	ARTEMIS observations of extreme diamagnetic fields in the lunar wake. <i>Geophysical Research Letters</i> , 2014, 41, 3766-3773.	1.5	34
20	Interplanetary dust influx to the Pluto–Charon system. <i>Icarus</i> , 2015, 246, 352-359.	1.1	34
21	AMITIS: A 3D GPU-Based Hybrid-PIC Model for Space and Plasma Physics. <i>Journal of Physics: Conference Series</i> , 2017, 837, 012017.	0.3	34
22	Formation Timescales of Amorphous Rims on Lunar Grains Derived From ARTEMIS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 37-46.	1.5	34
23	Evidence for small-scale collisionless shocks at the Moon from ARTEMIS. <i>Geophysical Research Letters</i> , 2014, 41, 7436-7443.	1.5	33
24	Using ARTEMIS pickup ion observations to place constraints on the lunar atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 81-88.	1.5	32
25	Solar wind interaction with the Reiner Gamma crustal magnetic anomaly: Connecting source magnetization to surface weathering. <i>Icarus</i> , 2016, 266, 261-266.	1.1	32
26	Lunar precursor effects in the solar wind and terrestrial magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
27	Kinetic simulations of kilometer-scale mini-magnetosphere formation on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1893-1903.	1.5	30
28	The effects of reflected protons on the plasma environment of the moon for parallel interplanetary magnetic fields. <i>Geophysical Research Letters</i> , 2013, 40, 4544-4548.	1.5	29
29	Solar wind plasma interaction with Gerasimovich lunar magnetic anomaly. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4719-4735.	0.8	29
30	Statistical characterization of the forenoon particle and wave morphology: ARTEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4907-4921.	0.8	29
31	Constraining the Solar System's Debris Disk with In Situ New Horizons Measurements from the Edgeworth–Kuiper Belt. <i>Astrophysical Journal Letters</i> , 2019, 881, L12.	3.0	29
32	Widespread hematite at high latitudes of the Moon. <i>Science Advances</i> , 2020, 6, .	4.7	28
33	The effects of solar wind velocity distributions on the refilling of the lunar wake: ARTEMIS observations and comparisons to one-dimensional theory. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5133-5149.	0.8	27
34	ARTEMIS observations of terrestrial ionospheric molecular ion outflow at the Moon. <i>Geophysical Research Letters</i> , 2016, 43, 6749-6758.	1.5	26
35	Hybrid Simulations of Solar Wind Proton Precipitation to the Surface of Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027706.	0.8	26
36	A comparison of ARTEMIS observations and particle-in-cell modeling of the lunar photoelectron sheath in the terrestrial magnetotail. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	24

#	ARTICLE	IF	CITATIONS
37	Model-based constraints on the lunar exosphere derived from ARTEMIS pickup ion observations in the terrestrial magnetotail. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1135-1147.	1.5	24
38	ARTEMIS observations of lunar dayside plasma in the terrestrial magnetotail lobe. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3042-3054.	0.8	23
39	Anisotropic solar wind sputtering of the lunar surface induced by crustal magnetic anomalies. <i>Geophysical Research Letters</i> , 2014, 41, 4865-4872.	1.5	23
40	Solar Wind Plasma Interaction with Asteroid 16 Psyche: Implication for Formation Theories. <i>Geophysical Research Letters</i> , 2018, 45, 39-48.	1.5	22
41	Variability in the Energetic Electron Bombardment of Ganymede. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028347.	0.8	22
42	The effect of Nix and Hydra on the putative Pluto-Charon dust cloud. <i>Planetary and Space Science</i> , 2011, 59, 1647-1653.	0.9	21
43	ARTEMIS observations of the solar wind proton scattering function from lunar crustal magnetic anomalies. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 771-783.	1.5	21
44	Dust Phenomena Relating to Airless Bodies. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	21
45	ARTEMIS observations of lunar pickup ions: Mass constraints on ion species. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1766-1774.	1.5	20
46	Experimental study of a photoelectron sheath. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	19
47	The lunar photoelectron sheath: A change in trapping efficiency during a solar storm. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1114-1122.	1.5	19
48	The Lunar Paleo-Magnetosphere: Implications for the Accumulation of Polar Volatile Deposits. <i>Geophysical Research Letters</i> , 2019, 46, 5778-5787.	1.5	19
49	Impact Ejecta and Gardening in the Lunar Polar Regions. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 143-154.	1.5	19
50	Constraints on dust production in the Edgeworth-Kuiper Belt from Pioneer 10 and New Horizons measurements. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	18
51	On the Edgeworth-Kuiper Belt dust flux to Saturn. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	18
52	LADEE/LDEX observations of lunar pickup ion distribution and variability. <i>Geophysical Research Letters</i> , 2016, 43, 3069-3077.	1.5	18
53	ARTEMIS Observations of Solar Wind Proton Scattering off the Lunar Surface. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5289-5299.	0.8	18
54	Measurements of the terrestrial dust influx variability by the Cosmic Dust Experiment. <i>Planetary and Space Science</i> , 2011, 59, 319-326.	0.9	17

#	ARTICLE	IF	CITATIONS
55	On the Effect of Magnetospheric Shielding on the Lunar Hydrogen Cycle. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006552.	1.5	17
56	The self-sputtered contribution to the lunar exosphere. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1934-1944.	1.5	16
57	Water-Group Pickup Ions From Europa-Genic Neutrals Orbiting Jupiter. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	16
58	Martian planetary heavy ion sputtering of Phobos. <i>Geophysical Research Letters</i> , 2014, 41, 6335-6341.	1.5	15
59	Extended lunar precursor regions: Electron-wave interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9160-9173.	0.8	15
60	Mapping the Lunar Wake Potential Structure With ARTEMIS Data. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3360-3377.	0.8	15
61	Simulating the Reiner Gamma Swirl: The Long-Term Effect of Solar Wind Standoff. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006219.	1.5	15
62	Uptake of acetylene on cosmic dust and production of benzene in Titan's atmosphere. <i>Icarus</i> , 2016, 278, 88-99.	1.1	14
63	Field-Aligned Electrostatic Potentials Above the Martian Exobase From MGS Electron Reflectometry: Structure and Variability. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 67-92.	1.5	14
64	Photoemission and electrostatic potentials on the dayside lunar surface in the terrestrial magnetotail lobes. <i>Geophysical Research Letters</i> , 2017, 44, 5276-5282.	1.5	13
65	Time-Dependent Hybrid Plasma Simulations of Lunar Electromagnetic Induction in the Solar Wind. <i>Geophysical Research Letters</i> , 2019, 46, 4151-4160.	1.5	13
66	3D Monte-Carlo simulation of Ganymede's water exosphere. <i>Icarus</i> , 2022, 375, 114810.	1.1	13
67	A Tenuous Lunar Ionosphere in the Geomagnetic Tail. <i>Geophysical Research Letters</i> , 2018, 45, 9450-9459.	1.5	12
68	Phobos Surface Sputtering as Inferred From MAVEN Ion Observations. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3385-3401.	1.5	12
69	Coronagraphic observations of the lunar sodium exosphere 2018-2019. <i>Icarus</i> , 2021, 355, 114155.	1.1	12
70	Simulation of polyvinylidene fluoride detector response to hypervelocity particle impact. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 622, 583-587.	0.7	11
71	Astrophysics with New Horizons: Making the Most of a Generational Opportunity. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 115001.	1.0	10
72	Comment on "The Dominant Role of Energetic Ions in Solar Wind Interaction With the Moon" by Omidi et al.. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6927-6932.	0.8	10

#	ARTICLE	IF	CITATIONS
73	Student Dust Counter Status Report: The First 50 au. <i>Planetary Science Journal</i> , 2022, 3, 69.	1.5	10
74	On the confinement of lunar induced magnetic fields. <i>Geophysical Research Letters</i> , 2015, 42, 6931-6938.	1.5	9
75	The Phobos neutral and ionized torus. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 770-783.	1.5	9
76	Distribution and solar wind control of compressional solar wind-magnetic anomaly interactions observed at the Moon by ARTEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6240-6254.	0.8	9
77	Implantation of Martian atmospheric ions within the regolith of Phobos. <i>Nature Geoscience</i> , 2021, 14, 61-66.	5.4	9
78	Triton's Variable Interaction With Neptune's Magnetospheric Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029740.	0.8	9
79	The Acceleration of Lunar Ions by Magnetic Forces in the Terrestrial Magnetotail Lobes. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027829.	0.8	8
80	Ion Dynamics at the Magnetopause of Ganymede. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	8
81	Reflected Protons in the Lunar Wake and Their Effects on Wake Potentials. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028154.	0.8	7
82	Particle-in-Cell Modeling of Martian Magnetic Cusps and Their Role in Enhancing Nightside Ionospheric Ion Escape. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	7
83	Investigating the Moon's Interaction With the Terrestrial Magnetotail Lobe Plasma. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093566.	1.5	7
84	Bombardment of Lunar Polar Crater Interiors by Out-of-ecliptic Ions: ARTEMIS Observations. <i>Planetary Science Journal</i> , 2021, 2, 116.	1.5	7
85	On the Long-term Weathering of Airless Body Surfaces by the Heavy Minor Ions of the Solar Wind: Inputs from Ion Observations and SRIM Simulations. <i>Planetary Science Journal</i> , 2020, 1, 69.	1.5	7
86	The contribution of Centaur-emitted dust to the interplanetary dust distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2421-2429.	1.6	6
87	Plasma Convection in the Terrestrial Magnetotail Lobes Measured Near the Moon's Orbit. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090217.	1.5	6
88	Structure and composition of the distant lunar exosphere: Constraints from ARTEMIS observations of ion acceleration in time-varying fields. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1102-1115.	1.5	5
89	Interplanetary dust delivery of water to the atmospheres of Pluto and Triton. <i>Astronomy and Astrophysics</i> , 2018, 617, L5.	2.1	5
90	Fractionation of Solar Wind Minor Ion Precipitation by the Lunar Paleomagnetosphere. <i>Planetary Science Journal</i> , 2021, 2, 60.	1.5	5

#	ARTICLE	IF	CITATIONS
91	A Double Disturbed Lunar Plasma Wake. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028789.	0.8	5
92	A Statistical Study of the Moon's Magnetotail Plasma Environment. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	5
93	Stairâ€step particle flux spectra on the lunar surface: Evidence for nonmonotonic potentials?. Geophysical Research Letters, 2017, 44, 79-87.	1.5	4
94	Lunar Photoemission Yields Inferred From ARTEMIS Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006790.	1.5	4
95	The Plasma Environment Surrounding the Reiner Gamma Magnetic Anomaly. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029180.	0.8	4
96	Simulations of Energetic Neutral Atom Sputtering From Ganymede in Preparation for the JUICE Mission. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
97	The electrostatic plasma environment of a small airless body under non-aligned plasma flow and UV conditions. Planetary and Space Science, 2015, 119, 111-120.	0.9	3
98	The Effects of Solar Wind Structure on Nanodust Dynamics in the Inner Heliosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028463.	0.8	3
99	ARTEMIS Observations of Lunar Nightside Surface Potentials in the Magnetotail Lobes: Evidence for Micrometeoroid Impact Charging. Geophysical Research Letters, 2021, 48, e2021GL094585.	1.5	1
100	The Effects of Solar Cycle Variability on Nanodust Dynamics in the Inner Heliosphere: Predictions for Future STEREO A/WAVES Measurements. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0