## Michael Collier

## List of Publications by Citations

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114 2,960 29 51 g-index

123 3,210 4 4.56 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
114	IBEXInterstellar Boundary Explorer. Space Science Reviews, 2009, 146, 11-33	7.5	252
113	Predicting interplanetary magnetic field (IMF) propagation delay times using the minimum variance technique. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		189
112	XMM-NewtonObservation of Solar Wind Charge Exchange Emission. <i>Astrophysical Journal</i> , <b>2004</b> , 610, 1182-1190	4.7	187
111	Neon-20, oxygen-16, and helium-4 densities, temperatures, and suprathermal tails in the solar wind determined with WIND/MASS. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 1191-1194	4.9	139
110	Ionospheric mass ejection in response to a CME. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 2339-2342	4.9	124
109	On generating Kappa-like distribution functions using velocity space L\(\mathbb{U}\)y flights. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 1531-1534	4.9	119
108	The suprathermal seed population for corotating interaction region ions at 1 AU deduced from composition and spectra of H+, He++, and He+ observed on Wind. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 23107-23122		99
107	Timing accuracy for the simple planar propagation of magnetic field structures in the solar wind. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 2509-2512	4.9	97
106	Variable time delays in the propagation of the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 29-1-SMP 29-15		77
105	Overwhelming O+ contribution to the plasma sheet energy density during the October 2003 superstorm: Geotail/EPIC and IMAGE/LENA observations. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		74
104	Variability of the ring current source population. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3481-3484	4.9	62
103	The origin of the local 1/4-keV X-ray flux in both charge exchange and a hot bubble. <i>Nature</i> , <b>2014</b> , 512, 171-3	50.4	59
102	Are magnetospheric suprathermal particle distributions (Ifunctions) inconsistent with maximum entropy considerations?. <i>Advances in Space Research</i> , <b>2004</b> , 33, 2108-2112	2.4	56
101	The relationship between kappa and temperature in energetic ion spectra at Jupiter. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 303-306	4.9	56
100	Observations of neutral atoms from the solar wind. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 24893-	24906	54
99	Dependence of lunar surface charging on solar wind plasma conditions and solar irradiation. <i>Planetary and Space Science</i> , <b>2014</b> , 90, 10-27	2	52
98	Anticipated electrical environment within permanently shadowed lunar craters. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		52

97	On the role of dust in the lunar ionosphere. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1659-1664	2	49
96	Ion outflow observed by IMAGE: Implications for source regions and heating mechanisms. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1163-1166	4.9	45
95	THE STRUCTURE OF THE LOCAL HOT BUBBLE. Astrophysical Journal, 2017, 834, 33	4.7	43
94	X-ray emission from the terrestrial magnetosheath including the cusps. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		42
93	Low energy neutral atoms in the magnetosphere. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1143-1146	4.9	41
92	Multispacecraft observations of sudden impulses in the magnetotail caused by solar wind pressure discontinuities: Wind and IMP 8. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 17293-17305		36
91	Loss of solar wind plasma neutrality and affect on surface potentials near the lunar terminator and shadowed polar regions. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	35
90	The adiabatic transport of superthermal distributions modelled by Kappa Functions. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 2673-2676	4.9	35
89	Evolution of kappa distributions under velocity space diffusion: A model for the observed relationship between their spectral parameters. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 28559-2856	54	33
88	Oxygen 16 to oxygen 18 abundance ratio in the solar wind observed by Wind/MASS. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 7-13		32
87	Cluster observations of sudden impulses in the magnetotail caused by interplanetary shocks and pressure increases. <i>Annales Geophysicae</i> , <b>2005</b> , 23, 609-624	2	30
86	Effects of protons reflected by lunar crustal magnetic fields on the global lunar plasma environment. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6095-6105	2.6	29
85	OBSERVATION OF SOLAR WIND CHARGE EXCHANGE EMISSION FROM EXOSPHERIC MATERIAL IN AND OUTSIDE EARTH <b>©</b> MAGNETOSHEATH 2008 SEPTEMBER 25. <i>Astrophysical Journal</i> , <b>2009</b> , 691, 372-3	3 <del>8</del> 7	29
84	Localized ion outflow in response to a solar wind pressure pulse. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 26-1-SMP 26-9		29
83	Imaging Plasma Density Structures in the Soft X-Rays Generated by Solar Wind Charge Exchange with Neutrals. <i>Space Science Reviews</i> , <b>2018</b> , 214, 1	7.5	28
82	Concerning the dissipation of electrically charged objects in the shadowed lunar polar regions. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	27
81	Low-energy neutral atom signatures of magnetopause motion in response to southward Bz. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		27
80	An unexplained 10월0° shift in the location of some diverse neutral atom data at 1 AU. <i>Advances in Space Research</i> , <b>2004</b> , 34, 166-171	2.4	25

79	SOLAR WIND CHARGE EXCHANGE EMISSION FROM THE HELIUM FOCUSING CONE: MODEL TO DATA COMPARISON. <i>Astrophysical Journal</i> , <b>2009</b> , 697, 1214-1225	4.7	23
78	THE SOLAR WIND CHARGE-EXCHANGE PRODUCTION FACTOR FOR HYDROGEN. <i>Astrophysical Journal</i> , <b>2015</b> , 808, 143	4.7	22
77	PRESSURE EQUILIBRIUM BETWEEN THE LOCAL INTERSTELLAR CLOUDS AND THE LOCAL HOT BUBBLE. <i>Astrophysical Journal Letters</i> , <b>2014</b> , 791, L14	7.9	22
76	AXIOM: advanced X-ray imaging of the magnetosphere. <i>Experimental Astronomy</i> , <b>2012</b> , 33, 403-443	1.3	21
75	On lunar exospheric column densities and solar wind access beyond the terminator from ROSAT soft X-ray observations of solar wind charge exchange. <i>Journal of Geophysical Research E: Planets</i> , <b>2014</b> , 119, 1459-1478	4.1	20
74	Prototyping a global soft X-ray imaging instrument for heliophysics, planetary science, and astrophysics science. <i>Astronomische Nachrichten</i> , <b>2012</b> , 333, 378-382	0.7	19
73	Reconnection remnants in the magnetic cloud of October 18¶9, 1995: A shock, monochromatic wave, heat flux dropout, and energetic ion beam. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 15985-16	000	18
7 <sup>2</sup>	Invited Article: First flight in space of a wide-field-of-view soft x-ray imager using lobster-eye optics: Instrument description and initial flight results. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 071301	1.7	17
71	Is the electron avalanche process in a martian dust devil self-quenching?. <i>Icarus</i> , <b>2015</b> , 254, 333-337	3.8	16
70	Neutral atom imaging of solar wind interaction with the Earth and Venus. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		16
69	Response of neutral atom emissions in the low-latitude and high-latitude magnetosheath direction to the magnetopause motion under extreme solar wind conditions. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		16
68	Response of ions of ionospheric origin to storm time substorms: Coordinated observations over the ionosphere and in the plasma sheet. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		15
67	Solar Wind Sputtering Rates of Small Bodies and Ion Mass Spectrometry Detection of Secondary Ions. <i>Journal of Geophysical Research E: Planets</i> , <b>2017</b> , 122, 1968-1983	4.1	14
66	Oscillations of magnetospheric boundaries driven by IMF rotations. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3007-3010	4.9	14
65	Wide field-of-view soft X-ray imaging for solar wind-magnetosphere interactions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 3353-3361	2.6	14
64	DXL: a sounding rocket mission for the study of solar wind charge exchange and local hot bubble X-ray emission. <i>Experimental Astronomy</i> , <b>2011</b> , 32, 83-99	1.3	12
63	Astrophysics Noise: A Space Weather Signal. <i>Eos</i> , <b>2010</b> , 91, 213-214	1.5	12
62	A statistical study of interplanetary shocks and pressure pulses internal to magnetic clouds. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		12

## (1996-2008)

61	Acoustic Elensity fluctuation waves in suprathermal Function fluids. <i>Advances in Space Research</i> , <b>2008</b> , 41, 1704-1709	2.4	12	
60	Monitoring the high-altitude cusp with the Low Energy Neutral Atom imager: Simultaneous observations from IMAGE and Polar. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		12	
59	The Low-Energy Neutral Atom Imager for Image <b>2000</b> , 155-195		12	
58	Magnetopause Surface Reconstruction From Tangent Vector Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 10,189	2.6	11	
57	Latitude-associated differences in the Low Energy Charged Particle activity at Voyagers 1 and 2 during 1991 to early 1994. <i>Space Science Reviews</i> , <b>1995</b> , 72, 347-352	7.5	10	
56	Lunar surface electric potential changes associated with traversals through the Earth@foreshock. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1727-1743	2	9	
55	Estimation of magnetopause motion from low-energy neutral atom emission. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		9	
54	Dust in the wind: The dust geometric cross section at 1 AU based on neutral solar wind observations. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	Ο	9	
53	Case study of solar wind pressure variations and neutral atom emissions observed by IMAGE/LENA. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		9	
52	One-up on L1: Can X-rays provide longer advanced warning of solar wind flux enhancements than upstream monitors?. <i>Advances in Space Research</i> , <b>2005</b> , 35, 2157-2161	2.4	9	
51	SOLAR WIND CHARGE EXCHANGE CONTRIBUTION TO THEROSATALL SKY SURVEY MAPS. Astrophysical Journal, <b>2016</b> , 829, 83	4.7	8	
50	Neutral solar wind generated by lunar exospheric dust at the terminator. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		8	
49	Extended solar wind helium distribution functions in high-speed streams. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 17441-17445		8	
48	Density variations in the Earth@magnetospheric cusps. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 2131-2142	2.6	7	
47	Conjugate observations of ENA signals in the high-altitude cusp and proton auroral spot in the low-altitude cusp with IMAGE spacecraft. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	7	
46	Neutral atom emission in the direction of the high-latitude magnetopause for northward IMF: Simultaneous observations from IMAGE spacecraft and SuperDARN radar. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	7	
45	Possible Origin of the Secondary Stream of Neutral Fluxes at 1 AU. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	О	7	
44	Kinetic temperature ratios of O6+ and He2+: Observations from Wind/MASS and Ulysses/SWICS. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 1187-1190	4.9	7	

43	The Feynman inverse sprinkler problem: A demonstration and quantitative analysis. <i>American Journal of Physics</i> , <b>1989</b> , 57, 654-657	0.7	7
42	The Isotopic Composition of Iron in the Solar Wind: First Measurements with the MASS Sensor on the [ITAL]Wind[/ITAL] Spacecraft. <i>Astrophysical Journal</i> , <b>1997</b> , 474, L69-L72	4.7	7
41	Moving mesoscale plasma precipitation in the cusp. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		6
40	The Heliospheric Contribution to the Soft X-ray Background Emission 2009,		6
39	Correlative variations of the neutral atom emission in the high-altitude cusp and the fast anti-sunward convection in the low-altitude cusp. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		6
38	On the origin of reverse polarity TCRs. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1925-1928	4.9	6
37	Energetic particle impact on X-ray imaging with XMM-Newton. Space Weather, 2014, 12, 387-394	3.7	5
36	VISIONS remote observations of a spatially-structured filamentary source of energetic neutral atoms near the polar cap boundary during an auroral substorm. <i>Advances in Space Research</i> , <b>2015</b> , 56, 2097-2105	2.4	5
35	Solar wind charge exchange during geomagnetic storms. <i>Astronomische Nachrichten</i> , <b>2012</b> , 333, 309-312	<b>2</b> 0.7	5
34	Solar wind charge exchange observed through the lunar exosphere. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	5
33	HF radar polar patch and its relation with the cusp during BY-dominated IMF: Simultaneous observations at two altitudes. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		5
32	Storm phase dependence of ion outflow: Statistical signatures obtained by IMAGE/LENA. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	5
31	The Feynman inverse sprinkler problem: A detailed kinematic study. <i>American Journal of Physics</i> , <b>1991</b> , 59, 349-355	0.7	5
30	Soft X-ray and ENA Imaging of the Earth@ Dayside Magnetosphere. <i>Journal of Geophysical Research:</i> Space Physics, <b>2021</b> , 126, e2020JA028816	2.6	5
29	Solar wind charge exchange and local hot bubble X-ray emission with the DXL sounding rocket experiment. <i>Astronomische Nachrichten</i> , <b>2012</b> , 333, 383-387	0.7	4
28	The DXL and STORM sounding rocket mission <b>2013</b> ,		4
27	Scattering of neutral hydrogen at energies less than 1 keV from tungsten and diamondlike carbon surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2009</b> , 27, 1188-1195	2.9	4
26	The Lunar X-ray Observatory (LXO) <b>2008</b> ,		4

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25	Abundance of solar wind magnesium isotopes determined with WIND/MASS. <i>AIP Conference Proceedings</i> , <b>1996</b> ,	О	4
24	Jovian magnetopause breathing. <i>Planetary and Space Science</i> , <b>1996</b> , 44, 187-197	2	4
23	Helioradius Dependence of Interplanetary Carbon and Oxygen Abundances during 1991 Solar Activity. <i>Astrophysical Journal</i> , <b>1996</b> , 468, L123-L126	4.7	4
22	Science of opportunity: Heliophysics on the FASTSAT mission and STP-S26 <b>2011</b> ,		3
21	Evidence of different magnetotail responses to small solar wind pressure pulses depending on IMF Bz polarity. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 4163-4166	4.9	3
20	Tethered lunar subsatellites for multipoint and low altitude measurements. <i>Acta Astronautica</i> , <b>2016</b> , 128, 464-472	2.9	2
19	The lunar dust pendulum. Advances in Space Research, 2013, 52, 251-261	2.4	2
18	Regarding the possible generation of a lunar nightside exo-ionosphere. <i>Icarus</i> , <b>2011</b> , 216, 169-172	3.8	2
17	A mathematical model of habituation and addiction. Substance Use and Misuse, 1993, 28, 175-85		2
16	New Device Lets You Un-Water Your Lawn!. <i>Physics Today</i> , <b>1990</b> , 43, 13-13	0.9	2
15	Stair-step particle flux spectra on the lunar surface: Evidence for nonmonotonic potentials?. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 79-87	4.9	1
14	AXIOM: Advanced X-ray imaging of the magnetosheath. <i>Astronomische Nachrichten</i> , <b>2012</b> , 333, 388-392	0.7	1
13	Solar wind charge exchange and Earth@ magnetosheath <b>2013</b> ,		1
12	Two azimuthally separated regions of cusp ion injection observed via energetic neutral atoms. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		1
11	The Lunar X-ray Observatory (LXO)Magnetosheath Explorer in X-rays (MagEX) 2009,		1
10	SWCX Emission from the Helium Focusing Cone <b>P</b> reliminary Results <b>2009</b> ,		1
9	Mars Express/ASPERA-3/NPI and IMAGE/LENA observations of energetic neutral atoms in Earth and Mars orbit. <i>Advances in Space Research</i> , <b>2008</b> , 41, 343-350	2.4	1
8	Correlations between neutral and ionized solar wind. <i>Advances in Space Research</i> , <b>2005</b> , 35, 2152-2156	2.4	1

7	netiosphere-deosphere interactions using Low Energy Neutral Atom imaging <b>2003</b> , 351-371		1
6	A K-Means Clustering Analysis of the Jovian and Terrestrial Magnetopauses: A Technique to Classify Global Magnetospheric Behavior. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2019.	1E <del>0</del> 063	6 <del>6</del>
5	The Cusp Plasma Imaging Detector (CuPID) CubeSat Observatory: Mission Overview. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA029015	2.6	1
4	Neutral Densities in the Outer Exosphere Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093383	4.9	O
3	Tomographic imaging of electron distributions: Leveraging computing power advances to produce inexpensive, low-power, lightweight, and robust instrumentation. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 1002-1007	1.7	
2	Cusp Dynamics and Ionospheric Outflow <b>2003</b> , 285-312		
1	Terminator Double Layer Explorer (TerDLE): Examining the Near-Moon Lunar Wake. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 61	2.9	