

Michael Collier

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2230994/michael-collier-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

2,960
citations

29
h-index

51
g-index

123
ext. papers

3,210
ext. citations

4
avg, IF

4.56
L-index

#	Paper	IF	Citations
114	Neutral Densities in the Outer Exosphere Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093383	4.9	0
113	Soft X-ray and ENA Imaging of the Earth's Dayside Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028816	2.6	5
112	Terminator Double Layer Explorer (TerDLE): Examining the Near-Moon Lunar Wake. <i>Planetary Science Journal</i> , 2021 , 2, 61	2.9	
111	The Cusp Plasma Imaging Detector (CuPID) CubeSat Observatory: Mission Overview. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA029015	2.6	1
110	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> , 2020 , 125, e2019JE006366	4.7	1
109	Magnetopause Surface Reconstruction From Tangent Vector Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 10,189	2.6	11
108	Imaging Plasma Density Structures in the Soft X-Rays Generated by Solar Wind Charge Exchange with Neutrals. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	28
107	THE STRUCTURE OF THE LOCAL HOT BUBBLE. <i>Astrophysical Journal</i> , 2017 , 834, 33	4.7	43
106	Stair-step particle flux spectra on the lunar surface: Evidence for nonmonotonic potentials?. <i>Geophysical Research Letters</i> , 2017 , 44, 79-87	4.9	1
105	Solar Wind Sputtering Rates of Small Bodies and Ion Mass Spectrometry Detection of Secondary Ions. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 1968-1983	4.1	14
104	Tethered lunar subsatellites for multipoint and low altitude measurements. <i>Acta Astronautica</i> , 2016 , 128, 464-472	2.9	2
103	Density variations in the Earth's magnetospheric cusps. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2131-2142	2.6	7
102	SOLAR WIND CHARGE EXCHANGE CONTRIBUTION TO THE ROSAT ALL SKY SURVEY MAPS. <i>Astrophysical Journal</i> , 2016 , 829, 83	4.7	8
101	Wide field-of-view soft X-ray imaging for solar wind-magnetosphere interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3353-3361	2.6	14
100	Is the electron avalanche process in a martian dust devil self-quenching?. <i>Icarus</i> , 2015 , 254, 333-337	3.8	16
99	THE SOLAR WIND CHARGE-EXCHANGE PRODUCTION FACTOR FOR HYDROGEN. <i>Astrophysical Journal</i> , 2015 , 808, 143	4.7	22
98	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> , 2015 , 86, 071301	1.7	17

97	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> , 2015 , 56, 2097-2105	2.4	5
96	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> , 2014 , 119, 1459-1478	4.1	20
95	The origin of the local 1/4-keV X-ray flux in both charge exchange and a hot bubble. <i>Nature</i> , 2014 , 512, 171-3	50.4	59
94	Effects of protons reflected by lunar crustal magnetic fields on the global lunar plasma environment. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6095-6105	2.6	29
93	Energetic particle impact on X-ray imaging with XMM-Newton. <i>Space Weather</i> , 2014 , 12, 387-394	3.7	5
92	PRESSURE EQUILIBRIUM BETWEEN THE LOCAL INTERSTELLAR CLOUDS AND THE LOCAL HOT BUBBLE. <i>Astrophysical Journal Letters</i> , 2014 , 791, L14	7.9	22
91	Dependence of lunar surface charging on solar wind plasma conditions and solar irradiation. <i>Planetary and Space Science</i> , 2014 , 90, 10-27	2	52
90	The lunar dust pendulum. <i>Advances in Space Research</i> , 2013 , 52, 251-261	2.4	2
89	Solar wind charge exchange and Earth's magnetosheath 2013 ,		1
88	The DXL and STORM sounding rocket mission 2013 ,		4
87	Prototyping a global soft X-ray imaging instrument for heliophysics, planetary science, and astrophysics science. <i>Astronomische Nachrichten</i> , 2012 , 333, 378-382	0.7	19
86	Solar wind charge exchange and local hot bubble X-ray emission with the DXL sounding rocket experiment. <i>Astronomische Nachrichten</i> , 2012 , 333, 383-387	0.7	4
85	Solar wind charge exchange during geomagnetic storms. <i>Astronomische Nachrichten</i> , 2012 , 333, 309-312	0.7	5
84	AXIOM: Advanced X-ray imaging of the magnetosheath. <i>Astronomische Nachrichten</i> , 2012 , 333, 388-392	0.7	1
83	AXIOM: advanced X-ray imaging of the magnetosphere. <i>Experimental Astronomy</i> , 2012 , 33, 403-443	1.3	21
82	Two azimuthally separated regions of cusp ion injection observed via energetic neutral atoms. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		1
81	Science of opportunity: Heliophysics on the FASTSAT mission and STP-S26 2011 ,		3
80	Lunar surface electric potential changes associated with traversals through the Earth's foreshock. <i>Planetary and Space Science</i> , 2011 , 59, 1727-1743	2	9

79	On the role of dust in the lunar ionosphere. <i>Planetary and Space Science</i> , 2011 , 59, 1659-1664	2	49
78	Regarding the possible generation of a lunar nightside exo-ionosphere. <i>Icarus</i> , 2011 , 216, 169-172	3.8	2
77	DXL: a sounding rocket mission for the study of solar wind charge exchange and local hot bubble X-ray emission. <i>Experimental Astronomy</i> , 2011 , 32, 83-99	1.3	12
76	Anticipated electrical environment within permanently shadowed lunar craters. <i>Journal of Geophysical Research</i> , 2010 , 115,		52
75	Astrophysics Noise: A Space Weather Signal. <i>Eos</i> , 2010 , 91, 213-214	1.5	12
74	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> , 2009 , 27, 1188-1195	2.9	4
73	IBEX Interstellar Boundary Explorer. <i>Space Science Reviews</i> , 2009 , 146, 11-33	7.5	252
72	Solar wind charge exchange observed through the lunar exosphere. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	5
71	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> , 2009 , 114, n/a-n/a		15
70	Moving mesoscale plasma precipitation in the cusp. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		6
69	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> , 2009 , 114, n/a-n/a		5
68	Neutral solar wind generated by lunar exospheric dust at the terminator. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		8
67	The Lunar X-ray Observatory (LXO) Magnetosheath Explorer in X-rays (MagEX) 2009 ,		1
66	The Heliospheric Contribution to the Soft X-ray Background Emission 2009 ,		6
65	SWCX Emission from the Helium Focusing Cone Preliminary Results 2009 ,		1
64	SOLAR WIND CHARGE EXCHANGE EMISSION FROM THE HELIUM FOCUSING CONE: MODEL TO DATA COMPARISON. <i>Astrophysical Journal</i> , 2009 , 697, 1214-1225	4.7	23
63	OBSERVATION OF SOLAR WIND CHARGE EXCHANGE EMISSION FROM EXOSPHERIC MATERIAL IN AND OUTSIDE EARTH'S MAGNETOSHEATH 2008 SEPTEMBER 25. <i>Astrophysical Journal</i> , 2009 , 691, 372-381	4.7	29
62	Loss of solar wind plasma neutrality and affect on surface potentials near the lunar terminator and shadowed polar regions. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	35

61	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> , 2008 , 35,	4.9	7
60	Concerning the dissipation of electrically charged objects in the shadowed lunar polar regions. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	27
59	Estimation of magnetopause motion from low-energy neutral atom emission. <i>Journal of Geophysical Research</i> , 2008 , 113,		9
58	The Lunar X-ray Observatory (LXO) 2008 ,		4
57	Mars Express/ASPERA-3/NPI and IMAGE/LENA observations of energetic neutral atoms in Earth and Mars orbit. <i>Advances in Space Research</i> , 2008 , 41, 343-350	2.4	1
56	Acoustic density fluctuation waves in suprathermal function fluids. <i>Advances in Space Research</i> , 2008 , 41, 1704-1709	2.4	12
55	A statistical study of interplanetary shocks and pressure pulses internal to magnetic clouds. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		12
54	Storm phase dependence of ion outflow: Statistical signatures obtained by IMAGE/LENA. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	5
53	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> , 2007 , 112, n/a-n/a		6
52	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> , 2006 , 33,	4.9	7
51	X-ray emission from the terrestrial magnetosheath including the cusps. <i>Journal of Geophysical Research</i> , 2006 , 111,		42
50	Low-energy neutral atom signatures of magnetopause motion in response to southward Bz. <i>Journal of Geophysical Research</i> , 2005 , 110,		27
49	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> , 2005 , 110,		74
48	Monitoring the high-altitude cusp with the Low Energy Neutral Atom imager: Simultaneous observations from IMAGE and Polar. <i>Journal of Geophysical Research</i> , 2005 , 110,		12
47	Correlations between neutral and ionized solar wind. <i>Advances in Space Research</i> , 2005 , 35, 2152-2156	2.4	1
46	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> , 2005 , 35, 2157-2161	2.4	9
45	Cluster observations of sudden impulses in the magnetotail caused by interplanetary shocks and pressure increases. <i>Annales Geophysicae</i> , 2005 , 23, 609-624	2	30
44	Possible Origin of the Secondary Stream of Neutral Fluxes at 1 AU. <i>AIP Conference Proceedings</i> , 2004 ,	0	7

43	Are magnetospheric suprathermal particle distributions (Functions) inconsistent with maximum entropy considerations?. <i>Advances in Space Research</i> , 2004 , 33, 2108-2112	2.4	56
42	An unexplained 10 \pm 0° shift in the location of some diverse neutral atom data at 1 AU. <i>Advances in Space Research</i> , 2004 , 34, 166-171	2.4	25
41	Neutral atom imaging of solar wind interaction with the Earth and Venus. <i>Journal of Geophysical Research</i> , 2004 , 109,		16
40	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> , 2004 , 109,		16
39	XMM-Newton Observation of Solar Wind Charge Exchange Emission. <i>Astrophysical Journal</i> , 2004 , 610, 1182-1190	4.7	187
38	Dust in the wind: The dust geometric cross section at 1 AU based on neutral solar wind observations. <i>AIP Conference Proceedings</i> , 2003 ,	0	9
37	Predicting interplanetary magnetic field (IMF) propagation delay times using the minimum variance technique. <i>Journal of Geophysical Research</i> , 2003 , 108,		189
36	Case study of solar wind pressure variations and neutral atom emissions observed by IMAGE/LENA. <i>Journal of Geophysical Research</i> , 2003 , 108,		9
35	Tomographic imaging of electron distributions: Leveraging computing power advances to produce inexpensive, low-power, lightweight, and robust instrumentation. <i>Review of Scientific Instruments</i> , 2003 , 74, 1002-1007	1.7	
34	Cusp Dynamics and Ionospheric Outflow 2003 , 285-312		
33	Heliosphere-Geosphere Interactions Using Low Energy Neutral Atom Imaging 2003 , 351-371		1
32	Variable time delays in the propagation of the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 29-1-SMP 29-15		77
31	Localized ion outflow in response to a solar wind pressure pulse. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 26-1-SMP 26-9		29
30	Ion outflow observed by IMAGE: Implications for source regions and heating mechanisms. <i>Geophysical Research Letters</i> , 2001 , 28, 1163-1166	4.9	45
29	On the origin of reverse polarity TCRs. <i>Geophysical Research Letters</i> , 2001 , 28, 1925-1928	4.9	6
28	Low energy neutral atoms in the magnetosphere. <i>Geophysical Research Letters</i> , 2001 , 28, 1143-1146	4.9	41
27	Reconnection remnants in the magnetic cloud of October 18 \pm 9, 1995: A shock, monochromatic wave, heat flux dropout, and energetic ion beam. <i>Journal of Geophysical Research</i> , 2001 , 106, 15985-16000		18
26	Observations of neutral atoms from the solar wind. <i>Journal of Geophysical Research</i> , 2001 , 106, 24893-24906		54

25	Evidence of different magnetotail responses to small solar wind pressure pulses depending on IMF Bz polarity. <i>Geophysical Research Letters</i> , 2001 , 28, 4163-4166	4.9	3
24	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> , 2000 , 105, 23107-23122		99
23	The Low-Energy Neutral Atom Imager for Image 2000 , 155-195		12
22	Evolution of kappa distributions under velocity space diffusion: A model for the observed relationship between their spectral parameters. <i>Journal of Geophysical Research</i> , 1999 , 104, 28559-28564		33
21	Ionospheric mass ejection in response to a CME. <i>Geophysical Research Letters</i> , 1999 , 26, 2339-2342	4.9	124
20	Oxygen 16 to oxygen 18 abundance ratio in the solar wind observed by Wind/MASS. <i>Journal of Geophysical Research</i> , 1998 , 103, 7-13		32
19	Multispacecraft observations of sudden impulses in the magnetotail caused by solar wind pressure discontinuities: Wind and IMP 8. <i>Journal of Geophysical Research</i> , 1998 , 103, 17293-17305		36
18	Timing accuracy for the simple planar propagation of magnetic field structures in the solar wind. <i>Geophysical Research Letters</i> , 1998 , 25, 2509-2512	4.9	97
17	Variability of the ring current source population. <i>Geophysical Research Letters</i> , 1998 , 25, 3481-3484	4.9	62
16	Oscillations of magnetospheric boundaries driven by IMF rotations. <i>Geophysical Research Letters</i> , 1998 , 25, 3007-3010	4.9	14
15	Extended solar wind helium distribution functions in high-speed streams. <i>Journal of Geophysical Research</i> , 1998 , 103, 17441-17445		8
14	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> , 1997 , 474, L69-L72	4.7	7
13	Kinetic temperature ratios of O ⁶⁺ and He ²⁺ : Observations from Wind/MASS and Ulysses/SWICS. <i>Geophysical Research Letters</i> , 1996 , 23, 1187-1190	4.9	7
12	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> , 1996 , 23, 1191-1194	4.9	139
11	Abundance of solar wind magnesium isotopes determined with WIND/MASS. <i>AIP Conference Proceedings</i> , 1996 ,	0	4
10	Jovian magnetopause breathing. <i>Planetary and Space Science</i> , 1996 , 44, 187-197	2	4
9	Helioradius Dependence of Interplanetary Carbon and Oxygen Abundances during 1991 Solar Activity. <i>Astrophysical Journal</i> , 1996 , 468, L123-L126	4.7	4
8	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> , 1995 , 72, 347-352	7.5	10

7	The relationship between kappa and temperature in energetic ion spectra at Jupiter. <i>Geophysical Research Letters</i> , 1995 , 22, 303-306	4.9	56
6	The adiabatic transport of superthermal distributions modelled by Kappa Functions. <i>Geophysical Research Letters</i> , 1995 , 22, 2673-2676	4.9	35
5	A mathematical model of habituation and addiction. <i>Substance Use and Misuse</i> , 1993 , 28, 175-85		2
4	On generating Kappa-like distribution functions using velocity space L _W flights. <i>Geophysical Research Letters</i> , 1993 , 20, 1531-1534	4.9	119
3	The Feynman inverse sprinkler problem: A detailed kinematic study. <i>American Journal of Physics</i> , 1991 , 59, 349-355	0.7	5
2	New Device Lets You Un-Water Your Lawn!. <i>Physics Today</i> , 1990 , 43, 13-13	0.9	2
1	The Feynman inverse sprinkler problem: A demonstration and quantitative analysis. <i>American Journal of Physics</i> , 1989 , 57, 654-657	0.7	7