Stephen Fuselier

List of Publications by Year
in descending order

338 papers	17,398 citations	13099 68 h-index	20358 116 g-index
351 all docs	351 docs citations	351 times ranked	5676 citing authors

#	Article	IF	Citations
1	First multispacecraft ion measurements in and near the Earthâ€™s magnetosphere with the identical Cluster ion spectrometry (CIS) experiment. Annales Geophysicae, 2001, 19, 1303-1354.	1.6	1,040
2	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
3	Global Observations of the Interstellar Interaction from the Interstellar Boundary Explorer (IBEX). Science, 2009, 326, 959-962.	12.6	461
4	67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio. Science, 2015, 347, 1261952.	12.6	403
5	Prebiotic chemicalsâ€”amino acid and phosphorusâ€”in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1600285.	10.3	393
6	Rosina â€“ Rosetta Orbiter Spectrometer for Ion and Neutral Analysis. Space Science Reviews, 2007, 128, 745-801.	8.1	331
7	IBEXâ€”Interstellar Boundary Explorer. Space Science Reviews, 2009, 146, 11-33.	8.1	305
8	Inventory of the volatiles on comet 67P/Churyumov-Gerasimenko from Rosetta/ROSINA. Astronomy and Astrophysics, 2015, 583, A1.	5.1	265
9	Abundant molecular oxygen in the coma of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2015, 526, 678-681.	27.8	260
10	Magnetic spectral signatures in the Earth's magnetosheath and plasma depletion layer. Journal of Geophysical Research, 1994, 99, 5877.	3.3	229
11	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. Space Science Reviews, 2009, 146, 75-103.	8.1	226
12	Time variability and heterogeneity in the coma of 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0276.	12.6	222
13	Comparison of Interstellar Boundary Explorer Observations with 3D Global Heliospheric Models. Science, 2009, 326, 966-968.	12.6	221
14	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
15	Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. Science, 2015, 348, 232-235.	12.6	195
16	Ion Reflection and transmission during reconnection at the Earth's subsolar magnetopause. Geophysical Research Letters, 1991, 18, 139-142.	4.0	175
17	The IBEX-Lo Sensor. Space Science Reviews, 2009, 146, 117-147.	8.1	171
18	Hot, diamagnetic cavities upstream from the Earth's bow shock. Journal of Geophysical Research, 1986, 91, 2961-2973.	3.3	169

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19	Ion anisotropy instabilities in the magnetosheath. Journal of Geophysical Research, 1993, 98, 1481-1488.	3.3	168
20	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. Science, 2017, 356, 1069-1072.	12.6	161
21	INTERSTELLAR GAS FLOW PARAMETERS DERIVED FROM INTERSTELLAR BOUNDARY EXPLORER-Lo OBSERVATIONS IN 2009 AND 2010: ANALYTICAL ANALYSIS. Astrophysical Journal, Supplement Series, 2012, 198, 11.	7.7	160
22	SEPARATION OF THEINTERSTELLAR BOUNDARY EXPLORERRIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX. Astrophysical Journal, 2011, 731, 56.	4.5	153
23	Organics in comet 67P â€“ a first comparative analysis of mass spectra from ROSINAâ€“DFMS, COSAC and Ptolemy. Monthly Notices of the Royal Astronomical Society, 2017, 469, S130-S141.	4.4	153
24	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 407-470.	8.1	147
25	NEUTRAL INTERSTELLAR HELIUM PARAMETERS BASED ON IBEX-Lo OBSERVATIONS AND TEST PARTICLE CALCULATIONS. Astrophysical Journal, Supplement Series, 2012, 198, 12.	7.7	145
26	Probing the boundary between antiparallel and component reconnection during southward interplanetary magnetic field conditions. Journal of Geophysical Research, 2007, 112, .	3.3	139
27	Magnetospheric Multiscale Science Mission Profile and Operations. Space Science Reviews, 2016, 199, 77-103.	8.1	138
28	Sulphur-bearing species in the coma of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S253-S273.	4.4	137
29	Direct Observations of Interstellar H, He, and O by the Interstellar Boundary Explorer. Science, 2009, 326, 969-971.	12.6	135
30	Observational test of local proton cyclotron instability in the Earth's magnetosphere. Journal of Geophysical Research, 1996, 101, 21527-21543.	3.3	134
31	Simultaneous Cluster and IMAGE observations of cusp reconnection and auroral proton spot for northward IMF. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	130
32	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129
33	LOCAL INTERSTELLAR MEDIUM: SIX YEARS OF DIRECT SAMPLING BY IBEX. Astrophysical Journal, Supplement Series, 2015, 220, 22.	7.7	128
34	Continuous magnetic reconnection at Earth's magnetopause. Nature, 2003, 426, 533-537.	27.8	127
35	Proton aurora in the cusp. Journal of Geophysical Research, 2002, 107, SMP 2-1.	3.3	115
36	THE FIRST THREE YEARS OF IBEX OBSERVATIONS AND OUR EVOLVING HELIOSPHERE. Astrophysical Journal, Supplement Series, 2012, 203, 1.	7.7	114

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37	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 489, 594-607.	4.4	112
38	Cometary Chemistry and the Origin of Icy Solar System Bodies: The View AfterRosetta. Annual Review of Astronomy and Astrophysics, 2019, 57, 113-155.	24.3	108
39	Electromagnetic ion cyclotron waves observed in the plasma depletion layer. Geophysical Research Letters, 1991, 18, 1955-1958.	4.0	105
40	Cusp aurora dependence on interplanetary magnetic fieldBz. Journal of Geophysical Research, 2002, 107, SIA 6-1.	3.3	105
41	On the origin of hot diamagnetic cavities near the Earth's bow shock. Journal of Geophysical Research, 1988, 93, 11311-11325.	3.3	103
42	Electron and ion signatures of field line topology at the low-shear magnetopause. Journal of Geophysical Research, 1997, 102, 4847-4863.	3.3	100
43	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. III. MACH NUMBER OF THE FLOW, VELOCITY VECTOR, AND TEMPERATURE FROM THE FIRST SIX YEARS OF MEASUREMENTS. Astrophysical Journal, Supplement Series, 2015, 220, 28.	7.7	99
44	Bounded anisotropy fluid model for ion temperatures. Journal of Geophysical Research, 1994, 99, 11225.	3.3	98
45	Stability of the high-latitude reconnection site for steady northward IMF. Geophysical Research Letters, 2000, 27, 473-476.	4.0	97
46	SEPARATION OF THE RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX USING THE FIRST FIVE YEARS OF IBEX OBSERVATIONS. Astrophysical Journal, Supplement Series, 2014, 215, 13.	7.7	97
47	The downshift of electron plasma oscillations in the electron foreshock region. Journal of Geophysical Research, 1985, 90, 3935-3946.	3.3	93
48	Evolving outer heliosphere: Largeâ€scale stability and time variations observed by the Interstellar Boundary Explorer. Journal of Geophysical Research, 2010, 115, .	3.3	92
49	Influence of spacecraft outgassing on the exploration of tenuous atmospheres with in situ mass spectrometry. Journal of Geophysical Research, 2010, 115, .	3.3	91
50	WARMER LOCAL INTERSTELLAR MEDIUM: A POSSIBLE RESOLUTION OF THEULYSSES-IBEXENIGMA. Astrophysical Journal, 2015, 801, 28.	4.5	90
51	IBEX : THE FIRST FIVE YEARS (2009-2013). Astrophysical Journal, Supplement Series, 2014, 213, 20.	7.7	89
52	Particle signatures of magnetic topology at the magnetopause: AMPTE/CCE observations. Journal of Geophysical Research, 1995, 100, 11805.	3.3	88
53	Detection of argon in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2015, 1, e1500377.	10.3	87
54	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S156-S169.	4.4	87

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55	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. Geophysical Research Letters, 2016, 43, 5536-5544.	4.0	84
56	DETERMINATION OF INTERSTELLAR He PARAMETERS USING FIVE YEARS OF DATA FROM THE IBEX : BEYOND CLOSED FORM APPROXIMATIONS. Astrophysical Journal, Supplement Series, 2015, 220, 25.	7.7	81
57	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	4.0	81
58	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. Journal of Geophysical Research: Space Physics, 2018, 123, 4858-4878.	2.4	79
59	Structure and properties of the subsolar magnetopause for northward interplanetary magnetic field: Multipleâ€instrument particle observations. Journal of Geophysical Research, 1993, 98, 11319-11337.	3.3	78
60	Response of thermal ions to electromagnetic ion cyclotron waves. Journal of Geophysical Research, 1994, 99, 19413.	3.3	78
61	Location of the reconnection line at the magnetopause during southward IMF conditions. Geophysical Research Letters, 2007, 34, .	4.0	78
62	Properties of Near-Earth Magnetic Reconnection from In-Situ Observations. Space Science Reviews, 2011, 160, 95-121.	8.1	78
63	WARM BREEZE FROM THE STARBOARD BOW: A NEW POPULATION OF NEUTRAL HELIUM IN THE HELIOSPHERE. Astrophysical Journal, Supplement Series, 2014, 213, 29.	7.7	77
64	Short wavelength ion waves upstream of the Earth's bow shock. Journal of Geophysical Research, 1984, 89, 91-103.	3.3	76
65	The location of reconnection at the magnetopause: Testing the maximum magnetic shear model with THEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	75
66	Wave-particle energy exchange directly observed in a kinetic AlfvÃ©n-branch wave. Nature Communications, 2017, 8, 14719.	12.8	73
67	Antiparallel and component reconnection at the dayside magnetopause. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	71
68	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. IV. FLOW VECTOR, MACH NUMBER, AND ABUNDANCE OF THE WARM BREEZE. Astrophysical Journal, Supplement Series, 2016, 223, 25.	7.7	71
69	Generation of transient dayside subauroral proton precipitation. Journal of Geophysical Research, 2004, 109, .	3.3	68
70	Composition-dependent outgassing of comet 67P/Churyumov-Gerasimenko from ROSINA/DFMS. Astronomy and Astrophysics, 2015, 583, A4.	5.1	67
71	Ion distributions in the Earth's foreshock upstream from the bow shock. Advances in Space Research, 1995, 15, 43-52.	2.6	66
72	Energetic neutral atoms from the Earth's subsolar magnetopause. Geophysical Research Letters, 2010, 37, .	4.0	66

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73	Change of outgassing pattern of 67P/Churyumovâ€“Gerasimenko during the March 2016 equinox as seen by ROSINA. Monthly Notices of the Royal Astronomical Society, 2017, 469, S108-S117.	4.4	66
74	IBEX observations of heliospheric energetic neutral atoms: Current understanding and future directions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	64
75	How Accurately Can We Measure the Reconnection Rate E_M for the MMS Diffusion Region Event of 11 July 2017?. Journal of Geophysical Research: Space Physics, 2018, 123, 9130-9149.	2.4	64
76	Evidence of component merging equatorward of the cusp. Journal of Geophysical Research, 1999, 104, 22623-22633.	3.3	62
77	Characterizing cometary electrons with kappa distributions. Journal of Geophysical Research: Space Physics, 2016, 121, 7407-7422.	2.4	62
78	LOCAL INTERSTELLAR NEUTRAL HYDROGEN SAMPLED IN SITU BY IBEX. Astrophysical Journal, Supplement Series, 2012, 198, 14.	7.7	59
79	Characterizing the dayside magnetosheath using energetic neutral atoms: IBEX and THEMIS observations. Journal of Geophysical Research: Space Physics, 2013, 118, 3126-3137.	2.4	59
80	INTERSTELLAR FLOW AND TEMPERATURE DETERMINATION WITH IBEX : ROBUSTNESS AND SENSITIVITY TO SYSTEMATIC EFFECTS. Astrophysical Journal, Supplement Series, 2015, 220, 24.	7.7	59
81	ALMA and ROSINA detections of phosphorus-bearing molecules: the interstellar thread between star-forming regions and comets. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1180-1198.	4.4	58
82	ESTIMATION OF THE NEON/OXYGEN ABUNDANCE RATIO AT THE HELIOSPHERIC TERMINATION SHOCK AND IN THE LOCAL INTERSTELLAR MEDIUM FROM IBEX OBSERVATIONS. Astrophysical Journal, Supplement Series, 2012, 198, 13.	7.7	57
83	SOLAR RADIATION PRESSURE AND LOCAL INTERSTELLAR MEDIUM FLOW PARAMETERS FROMINTERSTELLAR BOUNDARY EXPLORERLOW ENERGY HYDROGEN MEASUREMENTS. Astrophysical Journal, 2013, 775, 86.	4.5	57
84	Location of the reconnection line for northward interplanetary magnetic field. Journal of Geophysical Research, 2004, 109, .	3.3	56
85	Ion and electron velocity distributions within flux transfer events. Journal of Geophysical Research, 1987, 92, 12127-12136.	3.3	55
86	A limited closure relation for anisotropic plasmas from the Earthâ€™s magnetosheath*. Physics of Plasmas, 1994, 1, 1676-1683.	1.9	54
87	Evolution of water production of 67P/Churyumov-Gerasimenko: An empirical model and a multi-instrument study. Monthly Notices of the Royal Astronomical Society, 0, , stw2413.	4.4	54
88	Cusp energetic ions: A bow shock source. Geophysical Research Letters, 1998, 25, 3729-3732.	4.0	53
89	Neutral atom imaging of the magnetospheric cusps. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	53
90	LOW ENERGY NEUTRAL ATOMS FROM THE HELIOSHEATH. Astrophysical Journal, 2014, 784, 89.	4.5	53

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91	The location of magnetic reconnection at Saturn's magnetopause: A comparison with Earth. Journal of Geophysical Research: Space Physics, 2014, 119, 2563-2578.	2.4	53
92	D₂O and HDS in the coma of 67P/Churyumovâ€“Gerasimenko. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160253.	3.4	53
93	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasiâ€Parallel Shock. Journal of Geophysical Research: Space Physics, 2017, 122, 11,003.	2.4	53
94	On determining polarization characteristics of ion cyclotron wave magnetic field fluctuations. Journal of Geophysical Research, 1996, 101, 13195-13213.	3.3	52
95	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2018, 4, eaar6297.	10.3	52
96	He²⁺ and H⁺ dynamics in the subsolar magnetosheath and plasma depletion layer. Journal of Geophysical Research, 1991, 96, 21095-21104.	3.3	51
97	Electromagnetic ion cyclotron waves in the high-altitude cusp: Polar observations. Journal of Geophysical Research, 2001, 106, 19067-19079.	3.3	51
98	Two Wideâ€Angle Imaging Neutralâ€Atom Spectrometers and Interstellar Boundary Explorer energetic neutral atom imaging of the 5 April 2010 substorm. Journal of Geophysical Research, 2012, 117, .	3.3	51
99	Observations of Magnetic Reconnection in the Transition Region of Quasiâ€Parallel Shocks. Geophysical Research Letters, 2019, 46, 1177-1184.	4.0	51
100	Low-frequency magnetic fluctuation spectra in the magnetosheath and plasma depletion layer. Journal of Geophysical Research, 1994, 99, 5893.	3.3	49
101	ENERGETIC NEUTRAL ATOMS MEASURED BY THEINTERSTELLAR BOUNDARY EXPLORER(IBEX): EVIDENCE FOR MULTIPLE HELIOSHEATH POPULATIONS. Astrophysical Journal, 2014, 780, 98.	4.5	49
102	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	4.0	49
103	Largeâ€scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 5466-5486.	2.4	48
104	Origins of energetic ions in the cusp. Journal of Geophysical Research, 2001, 106, 5967-5976.	3.3	47
105	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A22.	5.1	47
106	Autogenous and efficient acceleration of energetic ions upstream of Earthâ€™s bow shock. Nature, 2018, 561, 206-210.	27.8	47
107	Electromagnetic ion cyclotron waves in the plasma depletion layer. Journal of Geophysical Research, 1993, 98, 13477-13490.	3.3	46
108	Reconnection sites of spatial cusp structures. Journal of Geophysical Research, 2005, 110, .	3.3	46

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109	Fast shocks at the edges of hot diamagnetic cavities upstream from the Earth's bow shock. Journal of Geophysical Research, 1987, 92, 3187-3194.	3.3	44
110	On the origins of energetic ions in the Earth's dayside magnetosheath. Journal of Geophysical Research, 1991, 96, 47-56.	3.3	44
111	REVISITING THE ISN FLOW PARAMETERS, USING A VARIABLEIBEXPOINTING STRATEGY. Astrophysical Journal, 2015, 804, 42.	4.5	44
112	Halogens as tracers of protosolar nebula material in comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1336-1345.	4.4	44
113	Proton aurora in the cusp during southward IMF. Journal of Geophysical Research, 2003, 108, .	3.3	42
114	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 1435-1442.	4.0	42
115	Temporal evolution of proton precipitation associated with the plasmaspheric plume. Journal of Geophysical Research, 2009, 114, .	3.3	40
116	AMPTE/CCE observations of shellâ€like He²⁺ and O⁶⁺ distributions in the magnetosheath. Geophysical Research Letters, 1988, 15, 1333-1336.	4.0	39
117	Cluster observations of â€œcraterâ€•flux transfer events at the dayside highâ€latitude magnetopause. Journal of Geophysical Research, 2008, 113, .	3.3	39
118	First IBEX observations of the terrestrial plasma sheet and a possible disconnection event. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	38
119	The presence of clathrates in comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1501781.	10.3	38
120	Reconnection at Earthâ€™s Dayside Magnetopause. Astrophysics and Space Science Library, 2016, , 213-276.	2.7	38
121	Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. Astrophysical Journal, Supplement Series, 2018, 239, 1.	7.7	37
122	Dayside magnetic topology at the Earth's magnetopause for northward IMF. Journal of Geophysical Research, 2012, 117, .	3.3	36
123	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. Science, 2018, 361, 1000-1003.	12.6	36
124	Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. Astronomy and Astrophysics, 2019, 630, A31.	5.1	36
125	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. Geophysical Research Letters, 2019, 46, 1937-1946.	4.0	36
126	Highâ€Resolution Measurements of the Crossâ€Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 3961-3978.	2.4	36

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127	Computing the reconnection rate at the Earth's magnetopause using two spacecraft observations. Journal of Geophysical Research, 2005, 110, .	3.3	35
128	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. I. UNCERTAINTIES AND BACKGROUNDS IN THE DATA AND PARAMETER DETERMINATION METHOD. Astrophysical Journal, Supplement Series, 2015, 220, 26.	7.7	35
129	DETERMINATION OF INTERSTELLAR O PARAMETERS USING THE FIRST TWO YEARS OF DATA FROM THE INTERSTELLAR BOUNDARY EXPLORER. Astrophysical Journal, 2016, 828, 81.	4.5	35
130	Cold ion demagnetization near the Xâ€line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	4.0	35
131	The Downwind Hemisphere of the Heliosphere: Eight Years of IBEX-Lo Observations. Astrophysical Journal, 2017, 851, 2.	4.5	35
132	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 1779-1793.	2.4	35
133	Direct injection of ionospheric O⁺ into the dayside low latitude boundary layer. Geophysical Research Letters, 1989, 16, 1121-1124.	4.0	34
134	Low-energy He+and H+distributions and proton cyclotron waves in the afternoon equatorial magnetosphere. Journal of Geophysical Research, 1996, 101, 13255-13265.	3.3	34
135	Spatial features observed in the cusp under steady solar wind conditions. Journal of Geophysical Research, 2002, 107, SMP 10-1.	3.3	34
136	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3. Astrophysical Journal, 2018, 854, 119.	4.5	34
137	Intense Electric Fields and Electronâ€Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. Geophysical Research Letters, 2018, 45, 8783-8792.	4.0	34
138	Ion composition measurements within magnetospheric flux transfer events. Geophysical Research Letters, 1990, 17, 2305-2308.	4.0	33
139	On spatial and temporal structures in the cusp. Journal of Geophysical Research, 1999, 104, 28411-28421.	3.3	33
140	THE 2-3 kHz HELIOSPHERIC RADIATION, THEIBEXRIBBON, AND THE THREE-DIMENSIONAL SHAPE OF THE HELIOPAUSE. Astrophysical Journal, 2013, 771, 83.	4.5	32
141	Magnetic field topology for northward IMF reconnection: Ion observations. Journal of Geophysical Research: Space Physics, 2014, 119, 9051-9071.	2.4	32
142	Magnetospheric ion influence at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 8617-8631.	2.4	32
143	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	2.4	32
144	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027119.	2.4	32

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145	Mass density and pressure changes across the dayside magnetopause. Journal of Geophysical Research, 1993, 98, 3935-3942.	3.3	31
146	H+and He2+Heating at the Earth's bow shock. Journal of Geophysical Research, 1994, 99, 11539.	3.3	31
147	Lunar energetic neutral atom (ENA) spectra measured by the interstellar boundary explorer (IBEX). Planetary and Space Science, 2013, 85, 232-242.	1.7	31
148	Reflection of solar wind hydrogen from the lunar surface. Journal of Geophysical Research E: Planets, 2013, 118, 292-305.	3.6	31
149	The location and rate of occurrence of near-Earth magnetotail reconnection as observed by Cluster and Geotail. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 121, 98-109.	1.6	31
150	CAN IBEX DETECT INTERSTELLAR NEUTRAL HELIUM OR OXYGEN FROM ANTI-RAM DIRECTIONS?. Astrophysical Journal, Supplement Series, 2015, 220, 30.	7.7	31
151	THE ROLL-OVER OF HELIOSPHERIC NEUTRAL HYDROGEN BELOW 100 eV: OBSERVATIONS AND IMPLICATIONS. Astrophysical Journal, 2016, 821, 107.	4.5	31
152	Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 12,236.	2.4	31
153	Charge state of â^¼1 to 50ÂkeV ions after passing through graphene and ultrathin carbon foils. Optical Engineering, 2014, 53, 024101.	1.0	30
154	THE INTERSTELLAR NEUTRAL He HAZE IN THE HELIOSPHERE: WHAT CAN WE LEARN?. Astrophysical Journal, Supplement Series, 2015, 220, 29.	7.7	30
155	MMS, Van Allen Probes, GOES 13, and Groundâ€Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 8331-8357.	2.4	30
156	TRACKING THE SOLAR CYCLE THROUGH IBEX OBSERVATIONS OF ENERGETIC NEUTRAL ATOM FLUX VARIATIONS AT THE HELIOSPHERIC POLES. Astrophysical Journal, 2016, 833, 277.	4.5	29
157	HIGH-TIME RESOLUTION IN SITU INVESTIGATION OF MAJOR COMETARY VOLATILES AROUND 67P/Câ€“G AT 3.1â€“2.3 au MEASURED WITH ROSINA-RTOF. Astrophysical Journal, 2016, 819, 126.	4.5	29
158	EMIC Waves in the Outer Magnetosphere: Observations of an Offâ€Equator Source Region. Geophysical Research Letters, 2019, 46, 5707-5716.	4.0	29
159	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. Geophysical Research Letters, 2018, 45, 11,520.	4.0	28
160	Structure of the outer cusp and sources of the cusp precipitation during intervals of a horizontal IMF. Journal of Geophysical Research, 2003, 108, .	3.3	27
161	Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. Geophysical Research Letters, 2016, 43, 7311-7318.	4.0	27
162	Evidence for distributed gas sources of hydrogen halides in the coma of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S695-S711.	4.4	27

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163	Largeâ€Scale Survey of the Structure of the Dayside Magnetopause by MMS. Journal of Geophysical Research: Space Physics, 2018, 123, 2018-2033.	2.4	27
164	Direct Evidence for Throat Aurora Being the Ionospheric Signature of Magnetopause Transient and Reflecting Localized Magnetopause Indentations. Journal of Geophysical Research: Space Physics, 2018, 123, 2658-2667.	2.4	27
165	The Interstellar Boundary Explorer Science Operations Center. Space Science Reviews, 2009, 146, 207-234.	8.1	26
166	Kinetic Aspects of Reconnection at the Magnetopause. Geophysical Monograph Series, 0, , 181-187.	0.1	26
167	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 601, A123.	5.1	26
168	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. Journal of Geophysical Research: Space Physics, 2017, 122, 11,991.	2.4	26
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