

# Stephen Fuselier

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9145007/stephen-fuselier-publications-by-citations.pdf>  
**Version:** 2024-04-10

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.

328 papers	13,642 citations	61 h-index	103 g-index
351 ext. papers	15,386 ext. citations	6 avg, IF	5.93 L-index

#	Paper	IF	Citations
328	First multispacecraft ion measurements in and near the Earth's magnetosphere with the identical Cluster ion spectrometry (CIS) experiment. <i>Annales Geophysicae</i> , <b>2001</b> , 19, 1303-1354	2	846
327	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , <b>2016</b> , 352, aaf2939	33.3	418
326	Global observations of the interstellar interaction from the Interstellar Boundary Explorer (IBEX). <i>Science</i> , <b>2009</b> , 326, 959-62	33.3	382
325	Cometary science. 67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio. <i>Science</i> , <b>2015</b> , 347, 1261952	33.3	314
324	Prebiotic chemicals-amino acid and phosphorus-in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , <b>2016</b> , 2, e1600285	14.3	282
323	Rosina (Rosetta Orbiter Spectrometer for Ion and Neutral Analysis). <i>Space Science Reviews</i> , <b>2007</b> , 128, 745-801	7.5	278
322	IBEX (Interstellar Boundary Explorer). <i>Space Science Reviews</i> , <b>2009</b> , 146, 11-33	7.5	252
321	Inventory of the volatiles on comet 67P/Churyumov-Gerasimenko from Rosetta/ROSINA. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A1	5.1	213
320	Abundant molecular oxygen in the coma of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , <b>2015</b> , 526, 678-81	50.4	208
319	Cometary science. Time variability and heterogeneity in the coma of 67P/Churyumov-Gerasimenko. <i>Science</i> , <b>2015</b> , 347, aaa0276	33.3	197
318	Magnetic spectral signatures in the Earth's magnetosheath and plasma depletion layer. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 5877		196
317	Comparison of Interstellar Boundary Explorer observations with 3D global heliospheric models. <i>Science</i> , <b>2009</b> , 326, 966-8	33.3	190
316	Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. <i>Science</i> , <b>2015</b> , 348, 232-5	33.3	168
315	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. <i>Space Science Reviews</i> , <b>2009</b> , 146, 75-103	7.5	168
314	Ion Reflection and transmission during reconnection at the Earth's subsolar magnetopause. <i>Geophysical Research Letters</i> , <b>1991</b> , 18, 139-142	4.9	152
313	Hot, diamagnetic cavities upstream from the Earth's bow shock. <i>Journal of Geophysical Research</i> , <b>1986</b> , 91, 2961		149
312	Ion anisotropy instabilities in the magnetosheath. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 1481-1488		146

311	The IBEX-Lo Sensor. <i>Space Science Reviews</i> , <b>2009</b> , 146, 117-147	7.5	145
310	INTERSTELLAR GAS FLOW PARAMETERS DERIVED FROM INTERSTELLAR BOUNDARY EXPLORER-Lo OBSERVATIONS IN 2009 AND 2010: ANALYTICAL ANALYSIS. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 198, 11	8	139
309	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , <b>2018</b> , 362, 1391-1395	33.3	139
308	NEUTRAL INTERSTELLAR HELIUM PARAMETERS BASED ON IBEX-Lo OBSERVATIONS AND TEST PARTICLE CALCULATIONS. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 198, 12	8	129
307	SEPARATION OF THE INTERSTELLAR BOUNDARY EXPLORER RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX. <i>Astrophysical Journal</i> , <b>2011</b> , 731, 56	4.7	126
306	Probing the boundary between antiparallel and component reconnection during southward interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		119
305	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , <b>2016</b> , 199, 407-470	7.5	117
304	Observational test of local proton cyclotron instability in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 21527-21543		115
303	Organics in comet 67P: a first comparative analysis of mass spectra from ROSINA DFMS, COSAC and Ptolemy. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S130-S141	4.3	113
302	Magnetospheric Multiscale Science Mission Profile and Operations. <i>Space Science Reviews</i> , <b>2016</b> , 199, 77-103	7.5	112
301	Continuous magnetic reconnection at Earth's magnetopause. <i>Nature</i> , <b>2003</b> , 426, 533-7	50.4	111
300	Simultaneous Cluster and IMAGE observations of cusp reconnection and auroral proton spot for northward IMF. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	111
299	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. <i>Science</i> , <b>2017</b> , 356, 1069-1072	33.3	110
298	Direct observations of interstellar H, He, and O by the Interstellar Boundary Explorer. <i>Science</i> , <b>2009</b> , 326, 969-71	33.3	105
297	Sulphur-bearing species in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S253-S273	4.3	101
296	LOCAL INTERSTELLAR MEDIUM: SIX YEARS OF DIRECT SAMPLING BY IBEX. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 22	8	101
295	THE FIRST THREE YEARS OF IBEX OBSERVATIONS AND OUR EVOLVING HELIOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 203, 1	8	99
294	Proton aurora in the cusp. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 2-1		97

293	Electromagnetic ion cyclotron waves observed in the plasma depletion layer. <i>Geophysical Research Letters</i> , <b>1991</b> , 18, 1955-1958	4.9	95
292	Cusp aurora dependence on interplanetary magnetic field Bz. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SIA 6-1		91
291	On the origin of hot diamagnetic cavities near the Earth's bow shock. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 11311		89
290	The downshift of electron plasma oscillations in the electron foreshock region. <i>Journal of Geophysical Research</i> , <b>1985</b> , 90, 3935		88
289	Bounded anisotropy fluid model for ion temperatures. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 11225		86
288	Electron and ion signatures of field line topology at the low-shear magnetopause. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 4847-4863		85
287	Stability of the high-latitude reconnection site for steady northward IMF. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 473-476	4.9	85
286	WARMER LOCAL INTERSTELLAR MEDIUM: A POSSIBLE RESOLUTION OF THE ULYSSES-IBEX ENIGMA. <i>Astrophysical Journal</i> , <b>2015</b> , 801, 28	4.7	82
285	Evolving outer heliosphere: Large-scale stability and time variations observed by the Interstellar Boundary Explorer. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		79
284	Particle signatures of magnetic topology at the magnetopause: AMPTE/CCE observations. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 11805		79
283	Influence of spacecraft outgassing on the exploration of tenuous atmospheres with in situ mass spectrometry. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		78
282	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. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 28	8	77
281	SEPARATION OF THE RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX USING THE FIRST FIVE YEARS OF IBEX OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 215, 13	8	75
280	IBEX : THE FIRST FIVE YEARS (2009-2013). <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 213, 20	8	75
279	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S156-S169	4.3	75
278	Detection of argon in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , <b>2015</b> , 1, e1500377	4.5	73
277	Properties of Near-Earth Magnetic Reconnection from In-Situ Observations. <i>Space Science Reviews</i> , <b>2011</b> , 160, 95-121	7.5	71
276	Short wavelength ion waves upstream of the Earth's bow shock. <i>Journal of Geophysical Research</i> , <b>1984</b> , 89, 91-103		70

275	Response of thermal ions to electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 19413		66
274	Structure and properties of the subsolar magnetopause for northward interplanetary magnetic field: Multiple-instrument particle observations. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 11319		66
273	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5536-5544	4.9	65
272	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3042-3050	4.9	65
271	DETERMINATION OF INTERSTELLAR He PARAMETERS USING FIVE YEARS OF DATA FROM THE IBEX : BEYOND CLOSED FORM APPROXIMATIONS. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 25	8	64
270	The location of reconnection at the magnetopause: Testing the maximum magnetic shear model with THEMIS observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		64
269	Location of the reconnection line at the magnetopause during southward IMF conditions. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	64
268	WARM BREEZE FROM THE STARBOARD BOW: A NEW POPULATION OF NEUTRAL HELIUM IN THE HELIOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 213, 29	8	62
267	Antiparallel and component reconnection at the dayside magnetopause. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		61
266	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 4858-4878	2.6	60
265	Composition-dependent outgassing of comet 67P/Churyumov-Gerasimenko from ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A4	5.1	59
264	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , <b>2018</b> , 214, 1	7.5	59
263	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , <b>2017</b> , 8, 14719	17.4	57
262	Generation of transient dayside subauroral proton precipitation. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		57
261	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. IV. FLOW VECTOR, MACH NUMBER, AND ABUNDANCE OF THE WARM BREEZE. <i>Astrophysical Journal, Supplement Series</i> , <b>2016</b> , 223, 25	8	57
260	Energetic neutral atoms from the Earth's subsolar magnetopause. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	56
259	Cometary Chemistry and the Origin of Icy Solar System Bodies: The View After Rosetta. <i>Annual Review of Astronomy and Astrophysics</i> , <b>2019</b> , 57, 113-155	31.7	55
258	Ion distributions in the Earth's foreshock upstream from the bow shock. <i>Advances in Space Research</i> , <b>1995</b> , 15, 43-52	2.4	55

257	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 489, 594-607	4.3	53
256	A limited closure relation for anisotropic plasmas from the Earth's magnetosheath*. <i>Physics of Plasmas</i> , <b>1994</b> , 1, 1676-1683	2.1	53
255	Evidence of component merging equatorward of the cusp. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 22623-22633		52
254	IBEX observations of heliospheric energetic neutral atoms: Current understanding and future directions. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	51
253	Cusp energetic ions: A bow shock source. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3729-3732	4.9	50
252	Characterizing cometary electrons with kappa distributions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 7407-7422	2.6	50
251	Characterizing the dayside magnetosheath using energetic neutral atoms: IBEX and THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 3126-3137	2.6	49
250	LOCAL INTERSTELLAR NEUTRAL HYDROGEN SAMPLED IN SITU BY IBEX. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 198, 14	8	49
249	On determining polarization characteristics of ion cyclotron wave magnetic field fluctuations. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 13195-13213		49
248	Neutral atom imaging of the magnetospheric cusps. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		48
247	Location of the reconnection line for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		48
246	Change of outgassing pattern of 67P/Churyumov-Gerasimenko during the March 2016 equinox as seen by ROSINA. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S108-S117	4.3	47
245	INTERSTELLAR FLOW AND TEMPERATURE DETERMINATION WITH IBEX : ROBUSTNESS AND SENSITIVITY TO SYSTEMATIC EFFECTS. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 24	8	47
244	ESTIMATION OF THE NEON/OXYGEN ABUNDANCE RATIO AT THE HELIOSPHERIC TERMINATION SHOCK AND IN THE LOCAL INTERSTELLAR MEDIUM FROM IBEX OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 198, 13	8	47
243	The location of magnetic reconnection at Saturn's magnetopause: A comparison with Earth. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 2563-2578	2.6	46
242	SOLAR RADIATION PRESSURE AND LOCAL INTERSTELLAR MEDIUM FLOW PARAMETERS FROM INTERSTELLAR BOUNDARY EXPLORER LOW ENERGY HYDROGEN MEASUREMENTS. <i>Astrophysical Journal</i> , <b>2013</b> , 775, 86	4.7	46
241	How Accurately Can We Measure the Reconnection Rate for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9130-9149	2.6	46
240	LOW ENERGY NEUTRAL ATOMS FROM THE HELIOSHEATH. <i>Astrophysical Journal</i> , <b>2014</b> , 784, 89	4.7	45

239	Low-frequency magnetic fluctuation spectra in the magnetosheath and plasma depletion layer. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 5893		45
238	He <sup>2+</sup> and H <sup>+</sup> dynamics in the subsolar magnetosheath and plasma depletion layer. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 21095		45
237	Ion and electron velocity distributions within flux transfer events. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 12127		45
236	Origins of energetic ions in the cusp. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 5967-5976		44
235	Electromagnetic ion cyclotron waves in the high-altitude cusp: Polar observations. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 19067-19079		44
234	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A22	5.1	43
233	Two Wide-Angle Imaging Neutral-Atom Spectrometers and Interstellar Boundary Explorer energetic neutral atom imaging of the 5 April 2010 substorm. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		43
232	ENERGETIC NEUTRAL ATOMS MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER (IBEX): EVIDENCE FOR MULTIPLE HELIOSHEATH POPULATIONS. <i>Astrophysical Journal</i> , <b>2014</b> , 780, 98	4.7	42
231	DO and HDS in the coma of 67P/Churyumov-Gerasimenko. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	41
230	Electromagnetic ion cyclotron waves in the plasma depletion layer. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 13477-13490		41
229	Reconnection sites of spatial cusp structures. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		40
228	On the origins of energetic ions in the Earth's dayside magnetosheath. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 47		40
227	Fast shocks at the edges of hot diamagnetic cavities upstream from the Earth's bow shock. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 3187		40
226	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5466-5486	2.6	39
225	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasi-Parallel Shock. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,003-11,017	2.6	39
224	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7279-7286	4.9	38
223	Proton aurora in the cusp during southward IMF. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		38
222	Evolution of water production of 67P/Churyumov-Gerasimenko: an empirical model and a multi-instrument study. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , stw2413	4.3	38



221	AMPTE/CCE observations of shell-like He <sup>2+</sup> and O <sup>6+</sup> distributions in the magnetosheath. <i>Geophysical Research Letters</i> , <b>1988</b> , 15, 1333-1336	4.9	37
220	REVISITING THE ISN FLOW PARAMETERS, USING A VARIABLE IBEX POINTING STRATEGY. <i>Astrophysical Journal</i> , <b>2015</b> , 804, 42	4.7	36
219	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1435-1442	4.9	36
218	Temporal evolution of proton precipitation associated with the plasmaspheric plume. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		35
217	Halogens as tracers of protosolar nebula material in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 472, 1336-1345	4.3	34
216	Cluster observations of $\bar{E}$ ater flux transfer events at the dayside high-latitude magnetopause. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		34
215	Computing the reconnection rate at the Earth's magnetopause using two spacecraft observations. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		33
214	Dayside magnetic topology at the Earth's magnetopause for northward IMF. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		32
213	Spatial features observed in the cusp under steady solar wind conditions. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 10-1		32
212	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , <b>2018</b> , 561, 206-210	50.4	32
211	Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1177-1184	4.9	31
210	Reconnection at Earth's Dayside Magnetopause. <i>Astrophysics and Space Science Library</i> , <b>2016</b> , 213-276	0.3	31
209	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , <b>2018</b> , 4, eaar6297	14.3	31
208	Magnetic field topology for northward IMF reconnection: Ion observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 9051-9071	2.6	30
207	First IBEX observations of the terrestrial plasma sheet and a possible disconnection event. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		30
206	Mass density and pressure changes across the dayside magnetopause. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 3935-3942		30
205	Direct injection of ionospheric O <sup>+</sup> into the dayside low latitude boundary layer. <i>Geophysical Research Letters</i> , <b>1989</b> , 16, 1121-1124	4.9	30
204	Ion composition measurements within magnetospheric flux transfer events. <i>Geophysical Research Letters</i> , <b>1990</b> , 17, 2305-2308	4.9	30



203	ALMA and ROSINA detections of phosphorus-bearing molecules: the interstellar thread between star-forming regions and comets. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 492, 1180-1198	4.3	29
202	The presence of clathrates in comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , <b>2016</b> , 2, e1501781	14.3	29
201	THE 2-3 kHz HELIOSPHERIC RADIATION, THE IBEX RIBBON, AND THE THREE-DIMENSIONAL SHAPE OF THE HELIOPAUSE. <i>Astrophysical Journal</i> , <b>2013</b> , 771, 83	4.7	29
200	Low-energy He <sup>+</sup> and H <sup>+</sup> distributions and proton cyclotron waves in the afternoon equatorial magnetosphere. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 13255-13265		29
199	H <sup>+</sup> and He <sup>2+</sup> Heating at the Earth's bow shock. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 11539		29
198	High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 3961-3978	2.6	28
197	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8617-8631	2.6	28
196	DETERMINATION OF INTERSTELLAR O PARAMETERS USING THE FIRST TWO YEARS OF DATA FROM THE INTERSTELLAR BOUNDARY EXPLORER. <i>Astrophysical Journal</i> , <b>2016</b> , 828, 81	4.7	28
195	Cold ion demagnetization near the X-line of magnetic reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6759-6767	4.9	27
194	HIGH-TIME RESOLUTION IN SITU INVESTIGATION OF MAJOR COMETARY VOLATILES AROUND 67P/CHURYUMOV-GERASIMENKO AT 3.1 AU MEASURED WITH ROSINA-TOF. <i>Astrophysical Journal</i> , <b>2016</b> , 819, 126	4.7	27
193	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. I. UNCERTAINTIES AND BACKGROUNDS IN THE DATA AND PARAMETER DETERMINATION METHOD. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 26	8	27
192	Charge state of ~1 to 50 keV ions after passing through graphene and ultrathin carbon foils. <i>Optical Engineering</i> , <b>2014</b> , 53, 024101	1.1	27
191	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1260-1278	2.6	27
190	The location and rate of occurrence of near-Earth magnetotail reconnection as observed by Cluster and Geotail. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2014</b> , 121, 98-109	2	25
189	On spatial and temporal structures in the cusp. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 28411-28421		25
188	THE ROLL-OVER OF HELIOSPHERIC NEUTRAL HYDROGEN BELOW 100 eV: OBSERVATIONS AND IMPLICATIONS. <i>Astrophysical Journal</i> , <b>2016</b> , 821, 107	4.7	25
187	Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 239, 1	8	25
186	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 12,236-12,257	2.6	24

185	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1779	2.6	24
184	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1937-1946	4.9	23
183	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3. <i>Astrophysical Journal</i> , <b>2018</b> , 854, 119	4.7	23
182	Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7311-7318	4.9	23
181	CAN IBEX DETECT INTERSTELLAR NEUTRAL HELIUM OR OXYGEN FROM ANTI-RAM DIRECTIONS?. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 30	8	23
180	Cusp dynamics and ionospheric outflow. <i>Space Science Reviews</i> , <b>2003</b> , 109, 285-312	7.5	23
179	Structure of the outer cusp and sources of the cusp precipitation during intervals of a horizontal IMF. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		23
178	Composition measurements in the dusk flank magnetosphere. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 4515-4522		23
177	Correspondence between a plasma-based EMIC wave proxy and subauroral proton precipitation. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	22
176	The Interstellar Boundary Explorer Science Operations Center. <i>Space Science Reviews</i> , <b>2009</b> , 146, 207-234	4.5	22
175	High-speed flows of H <sup>+</sup> and He <sup>++</sup> ions at the magnetopause. <i>Geophysical Research Letters</i> , <b>1989</b> , 16, 567-570	4.5	22
174	TRACKING THE SOLAR CYCLE THROUGH IBEX OBSERVATIONS OF ENERGETIC NEUTRAL ATOM FLUX VARIATIONS AT THE HELIOSPHERIC POLES. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 277	4.7	22
173	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5960-5968	4.9	22
172	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 601, A123	5.1	21
171	Intense Electric Fields and Electron-Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8783-8792	4.9	21
170	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 127	4.7	21
169	Reflection of solar wind hydrogen from the lunar surface. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 292-305	4.1	21
168	Steady reconnection during intervals of northward IMF: Implications for magnetosheath properties. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		21

167	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvénic flow. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6070-6077	4.9	20
166	Lunar energetic neutral atom (ENA) spectra measured by the interstellar boundary explorer (IBEX). <i>Planetary and Space Science</i> , <b>2013</b> , 85, 232-242	2	20
165	THE INTERSTELLAR NEUTRAL He HAZE IN THE HELIOSPHERE: WHAT CAN WE LEARN?. <i>Astrophysical Journal, Supplement Series</i> , <b>2015</b> , 220, 29	8	20
164	Evidence of multiple reconnection lines at the magnetopause from cusp observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		20
163	The ion-optical prototype of the low energy neutral atom sensor of the Interstellar Boundary Explorer Mission (IBEX). <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 124502	1.7	20
162	On the solar wind control of cusp aurora during northward IMF. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	20
161	Multispacecraft study on the dynamics of the dusk-flank magnetosphere under northward IMF: 10–11 January 1997. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 27-1		20
160	Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 630, A31	5.1	19
159	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9396-9413	2.6	19
158	Ion acceleration dependence on magnetic shear angle in dayside magnetopause reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7255-7269	2.6	19
157	Antiparallel magnetic reconnection rates at the Earth's magnetopause. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		19
156	MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8331-8357	2.6	19
155	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , <b>2018</b> , 361, 1000-1003	33.3	19
154	Evidence for distributed gas sources of hydrogen halides in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S695-S711	4.3	18
153	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 93-103	2.6	18
152	Kinetic Aspects of Reconnection at the Magnetopause. <i>Geophysical Monograph Series</i> , <b>2013</b> , 181-187	1.1	18
151	On continuous versus discontinuous neutral lines at the dayside magnetopause for southward interplanetary magnetic field. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	18
150	Suprathermal He <sup>2+</sup> in the Earth's foreshock region. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 17107		18

149	Specularly reflected He <sup>2+</sup> at high Mach number quasi-parallel shocks. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 4319		18
148	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4673-4682	4.9	18
147	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,520	4.9	18
146	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6204-6213	4.9	17
145	Observation of a retreating x line and magnetic islands poleward of the cusp during northward interplanetary magnetic field conditions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 9643-9657	2.6	17
144	The Downwind Hemisphere of the Heliosphere: Eight Years of IBEX-Lo Observations. <i>Astrophysical Journal</i> , <b>2017</b> , 851, 2	4.7	17
143	On the origin of molecular oxygen in cometary comae. <i>Nature Communications</i> , <b>2018</b> , 9, 2580	17.4	17
142	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,991-12,005	2.6	16
141	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,194-10,202	2.6	16
140	EMIC Waves in the Outer Magnetosphere: Observations of an Off-Equator Source Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5707-5716	4.9	16
139	Large-Scale Survey of the Structure of the Dayside Magnetopause by MMS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2018	2.6	16
138	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5997-6004	4.9	16
137	Solar wind He <sup>2+</sup> ring-beam distributions downstream from the Earth's bow shock. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 11273-11280		16
136	Observational Evidence of Large-Scale Multiple Reconnection at the Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8407-8421	2.6	16
135	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027119	2.6	15
134	Storm time empirical model of O <sup>+</sup> and O <sup>6+</sup> distributions in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8353-8374	2.6	15
133	Occurrence frequency and location of magnetic islands at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 4138-4155	2.6	14
132	Magnetospheric Ion Evolution Across the Low-Latitude Boundary Layer Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,247-10,262	2.6	14

131	Near-Earth plasma sheet boundary dynamics during substorm dipolarization. <i>Earth, Planets and Space</i> , <b>2017</b> , 69, 129	2.9	14
130	CHO-Bearing Molecules in Comet 67P/Churyumov-Gerasimenko. <i>ACS Earth and Space Chemistry</i> , <b>2019</b> , 3, 1854-1861	3.2	14
129	Interplanetary magnetic field dependence of the suprathermal energetic neutral atoms originated in subsolar magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 964-972	2.6	14
128	Direct Evidence for Throat Aurora Being the Ionospheric Signature of Magnetopause Transient and Reflecting Localized Magnetopause Indentations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2658-2667	2.6	13
127	Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1118-1133	2.6	13
126	Sulphur isotope mass-independent fractionation observed in comet 67P/Churyumov-Gerasimenko by Rosetta/ROSINA. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S787-S803	4.3	13
125	Bifurcated cusp ion signatures: Evidence for re-reconnection?. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1471-1474	4.9	13
124	Solar wind composition changes across the Earth's magnetopause. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 275-283		13
123	The reconnection site of temporal cusp structures. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		13
122	Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10048-10062	2.6	13
121	Impact of Radiogenic Heating on the Formation Conditions of Comet 67P/Churyumov-Gerasimenko. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 839, L4	7.9	12
120	First MMS Observation of Energetic Particles Trapped in High-Latitude Magnetic Field Depressions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 197-210	2.6	12
119	The steepness of the magnetic shear angle $\theta$ parameter for constraining the location of dayside magnetic reconnection?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8404-8414	2.6	12
118	An empirical model for the location and occurrence rate of near-Earth magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 6389-6396	2.6	12
117	Origin of Molecular Oxygen in Comets: Current Knowledge and Perspectives. <i>Space Science Reviews</i> , <b>2018</b> , 214, 1	7.5	12
116	Locating dayside magnetopause reconnection with exhaust ion distributions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5105-5113	2.6	11
115	Counter-streaming magnetosheath ions in the dayside low latitude boundary layer. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 425-428	4.9	11
114	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089082	4.9	11

113	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 40	4.7	11
112	On the occurrence of magnetic reconnection equatorward of the cusps at the Earth's magnetopause during northward IMF conditions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 605-617	2.6	10
111	Coordinated observations of two types of diffuse auroras near magnetic local noon by Magnetospheric Multiscale mission and ground all-sky camera. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 8130-8139	4.9	10
110	Interstellar Gas Flow Vector and Temperature Determination over 5 Years of IBEX Observations. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 577, 012019	0.3	10
109	Imaging the development of the cold dense plasma sheet. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 7867-7873	4.9	10
108	He2+ heating at a quasi-parallel shock. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 9805		10
107	Neutral Atom Imaging of the Solar Wind-Magnetosphere-Exosphere Interaction Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089362	4.9	10
106	High-density O+ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10257-10269	2.6	10
105	The Transition Between Antiparallel and Component Magnetic Reconnection at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 10,177-10,188	2.6	10
104	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. <i>Physical Review E</i> , <b>2019</b> , 99, 043204	2.4	9
103	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Event-Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086726	4.9	9
102	MMS Observations of Harmonic Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8764-8772	4.9	9
101	Distinguishing between pulsed and continuous reconnection at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 1684-1696	2.6	9
100	Cluster observations of bow shock energetic ion transport through the magnetosheath into the cusp. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		9
99	Overlapping ion populations in the cusp: polar/TIMAS results. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1621-1624	4.9	9
98	Radiation Pressure from Interstellar Hydrogen Observed by IBEX through Solar Cycle 24. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 217	4.7	9
97	THE PLASMA DEPLETION LAYER BEYOND THE HELIOPAUSE: EVIDENCE, IMPLICATIONS, AND PREDICTIONS FOR VOYAGER 2 AND NEW HORIZONS. <i>Astrophysical Journal</i> , <b>2017</b> , 834, 197	4.7	8
96	Shape of the terrestrial plasma sheet in the near-Earth magnetospheric tail as imaged by the Interstellar Boundary Explorer. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 2115-2122	4.9	8



95	Position-dependent microchannel plate gain correction in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 446, 116232	1.9	8
94	A probability assessment of encountering dayside magnetopause diffusion regions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		8
93	Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. <i>Reviews of Geophysics</i> , <b>2021</b> , 59, e2020RG000707	23.1	8
92	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9222-9238	2.6	8
91	The capabilities of ROSINA/DFMS to measure argon isotopes at comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , <b>2015</b> , 105, 175-178	2	7
90	Suppression of Magnetic Reconnection at Saturn's Low-Latitude Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027895	2.6	7
89	Field-Aligned Currents Originating From the Magnetic Reconnection Region: Conjugate MMS-ARTEMIS Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5836-5844	4.9	7
88	First images of thunder: Acoustic imaging of triggered lightning. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6051-6057	4.9	7
87	Combined ~10 eV to ~344 MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 905, L24	7.9	7
86	Stationarity of the Reconnection X-Line at Earth's Magnetopause for Southward IMF. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8524-8534	2.6	7
85	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027623	2.6	7
84	Nonlobe Reconnection at the Earth's Magnetopause for Northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8275-8291	2.6	7
83	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027778	2.6	6
82	Selective Acceleration of O <sup>+</sup> by Drift-Bounce Resonance in the Earth's Magnetosphere: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027686	2.6	6
81	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10274-10282	4.9	6
80	MMS Measurements and Modeling of Peculiar Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 11622-11631	4.9	6
79	Simultaneous observations of solar wind plasma entry from FAST and POLAR. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 2081-2084	4.9	6
78	Helium in the Earth's foreshock: a global Vlasov survey. <i>Annales Geophysicae</i> , <b>2020</b> , 38, 1081-1099	2	6



77	Prestellar grain-surface origins of deuterated methanol in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 500, 4901-4920	4.3	6
76	An Investigation of Flow Shear and Diamagnetic Drift Effects on Magnetic Reconnection at Saturn's Dawnside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8457-8473	2.6	6
75	Acceleration of Interstellar Pickup He <sup>+</sup> at Earth's Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10735-10743	4.9	6
74	MMS Observations of Multiscale Hall Physics in the Magnetotail. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10230-10239	4.9	5
73	Four-Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Near-Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 6850-6868	2.6	5
72	MMS Observation of Shock-Reflected He <sup>++</sup> at Earth's Quasi-Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 49-55	4.9	5
71	Alpha particle heating in hot diamagnetic cavities. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 11975		5
70	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earth's Magnetotail. <i>Physical Review Letters</i> , <b>2021</b> , 127, 215101	7.4	5
69	Stable reconnection at the dusk flank magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9374-9382	4.9	5
68	The Extra-Magnetospheric Ion Environment as Observed by the Magnetospheric Multiscale Mission Hot Plasma Composition Analyzer (MMS-HPCA). <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 1509-1524	2.6	5
67	Can Reconnection be Triggered as a Solar Wind Directional Discontinuity Crosses the Bow Shock? A Case of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8507-8523	2.6	5
66	Calibration of parent and fragment ion detection rates in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 446, 116233	1.9	4
65	The Cold Ion Population at Geosynchronous Orbit and Transport to the Dayside Magnetopause: September 2015 to February 2016. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8685-8694	2.6	4
64	Plasma properties at the Voyager 1 crossing of the heliopause. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 642, 012010	0.3	4
63	Correcting peak deformation in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 393, 41-51	1.9	4
62	Signature of a Heliotail Organized by the Solar Magnetic Field and the Role of Nonideal Processes in Modeled IBEX ENA Maps: A Comparison of the BU and Moscow MHD Models. <i>Astrophysical Journal</i> , <b>2021</b> , 921, 164	4.7	4
61	A Turbulent Heliosheath Driven by the Rayleigh-Taylor Instability. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 181	4.7	4
60	Solar Wind He <sup>2+</sup> and H <sup>+</sup> Distributions in the Cusp for Southward IMF <b>1998</b> , 63-72		4

59	The 18 November 2015 Magnetopause Crossing: The GEM Dayside Kinetic Challenge Event Observed by MMS/HPCA. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027617	2.6	4
58	Flux Transfer Events at a Reconnection-Suppressed Magnetopause: Cassini Observations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028786	2.6	4
57	Charge-State-Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028144	2.6	3
56	Initial Results From the Active Spacecraft Potential Control Onboard Magnetospheric Multiscale Mission. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 1847-1852	1.3	3
55	Sequential Observations of Flux Transfer Events, Poleward-Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027674	2.6	3
54	ROSINA ion zoo at Comet 67P. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 642, A27	5.1	3
53	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027985	2.6	3
52	Molecule-dependent oxygen isotopic ratios in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 5855-5862	4.3	3
51	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2019JA027698	2.6	3
50	The Location of Magnetic Reconnection at Earth's Magnetopause. <i>Space Science Reviews</i> , <b>2021</b> , 217, 41	7.5	3
49	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092376	4.9	3
48	Energetic Neutral Atom Fluxes from the Heliosheath: Constraints from in situ Measurements and Models. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 915, L26	7.9	3
47	Comparison of neutral outgassing of comet 67P/Churyumov-Gerasimenko inbound and outbound beyond 3 AU from ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 630,	5.1	3
46	The He <sup>++</sup> /H <sup>+</sup> Density Ratio Across Earth's Subsolar Magnetopause and Its Implications for the Presence of a Mass-Dependent Reflection Coefficient. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 9893-9903	2.6	3
45	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028903	2.6	3
44	Concomitant Double Ion and Electron Populations in the Earth's Magnetopause Boundary Layers From Double Reconnection With Lobe and Closed Field Lines. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 5407-5419	2.6	3
43	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093164	4.9	3
42	Very Local Interstellar Medium Revealed by a Complete Solar Cycle of Interstellar Neutral Helium Observations with IBEX. <i>Astrophysical Journal, Supplement Series</i> , <b>2022</b> , 259, 42	8	3

41	Statistical Study of Oxygen Ions Abundance and Spatial Distribution in the Dayside Magnetopause Boundary Layer: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027323 <sup>2.6</sup>	2.6	2
40	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvénic Flow. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9934-9951	2.6	2
39	Ionospheric Oxygen ions in the dayside magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2020</b> , 210, 105448	2	2
38	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087268	4.9	2
37	First Global Images of Ion Energization in the Terrestrial Foreshock by the Interstellar Boundary Explorer. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088188	4.9	2
36	Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028922	2.6	2
35	Long and Active Magnetopause Reconnection X-Lines During Changing IMF Conditions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028926	2.6	2
34	Dayside Magnetopause Processes. <i>Geophysical Monograph Series</i> , <b>2021</b> , 153-161	1.1	2
33	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028912 <sup>2.6</sup>	2.6	2
32	MMS Observations of Energized He <sup>+</sup> Pickup Ions at Quasiperpendicular Shocks. <i>Astrophysical Journal</i> , <b>2021</b> , 913, 112	4.7	2
31	Direct Evidence for Magnetic Reflection of Heavy Ions from High Mach Number Collisionless Shocks. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 915, L19	7.9	2
30	Terrestrial Energetic Neutral Atom Emissions and the Ground-Based Geomagnetic Indices: Implications From IBEX Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8761-8777 <sup>2.6</sup>	2.6	2
29	Evidence for Nonadiabatic Oxygen Energization in the Near-Earth Magnetotail From MMS. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091697	4.9	2
28	Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Dusk-Side Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126,	2.6	2
27	The Development of a Split-tail Heliosphere and the Role of Non-ideal Processes: A Comparison of the BU and Moscow Models. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 179	4.7	2
26	Event Studies of O <sup>+</sup> Density Variability Within Quiet-Time Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4168-4187	2.6	1
25	Reconnection at the Heliopause: Comparing the Voyager 1 and 2 Heliopause Crossings. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1620, 012004	0.3	1
24	Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. <i>Annales Geophysicae</i> , <b>2020</b> , 38, 123-135	2	1

23	MMS Observations of Accelerated Interstellar Pickup He+ Ions at an Interplanetary Shock. <i>Astrophysical Journal</i> , <b>2020</b> , 897, 6	4.7	1
22	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 012906	2.1	1
21	Solar Wind-Magnetosphere Coupling During Radial Interplanetary Magnetic Field Conditions: Simultaneous Multi-Point Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029506	2.6	1
20	Magnetospheric Multiscale Science Mission Profile and Operations <b>2017</b> , 77-103		1
19	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. <i>Astrophysical Journal</i> , <b>2021</b> , 914, 26	4.7	1
18	Probing the Magnetosheath Boundaries Using Interstellar Boundary Explorer (IBEX) Orbital Encounters. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029278	2.6	1
17	High-Density Magnetospheric He + at the Dayside Magnetopause and Its Effect on Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126,	2.6	1
16	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8983-9004	2.6	1
15	TRICE 2 Observations of Low-Energy Magnetospheric Ions Within the Cusp. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029382	2.6	1
14	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029678	2.6	1
13	Modulated Upper-Hybrid Waves Coincident With Lower-Hybrid Waves in the Cusp. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029590	2.6	1
12	Interstellar Neutral He Parameters from Crossing Parameter Tubes with the Interstellar Mapping and Acceleration Probe Informed by 10 yr of Interstellar Boundary Explorer Observations. <i>Astrophysical Journal, Supplement Series</i> , <b>2022</b> , 258, 7	8	1
11	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 052904	2.1	1
10	Reconnection X-Line Orientations at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029789	2.6	0
9	Breathing of the Heliosphere. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 250	4.7	0
8	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission <b>2017</b> , 405-468		0
7	Multipoint Density Measurements of Geocoronal Pickup Ions. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093695	4.9	0
6	Parker Solar Probe observations of solar wind energetic proton beams produced by magnetic reconnection in the near-Sun heliospheric current sheet. <i>Geophysical Research Letters</i> ,	4.9	0

5	On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.52-1.5 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 931, L21	7.9	0
4	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2022</b> , 658, A87	5.1	
3	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029389	2.6	
2	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029294	2.6	
1	Composition of Coronal Hole Boundary Layers at Low Heliographic Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029187	2.6	