

# Olivier Le Contel

## List of Publications by Citations

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147  
papers

4,488  
citations

38  
h-index

61  
g-index

177  
ext. papers

5,345  
ext. citations

5.1  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
147	Identifying the driver of pulsating aurora. <i>Science</i> , <b>2010</b> , 330, 81-4	33.3	208
146	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , <b>2019</b> , 215, 9	7.5	205
145	The Search Coil Magnetometer for THEMIS. <i>Space Science Reviews</i> , <b>2008</b> , 141, 265-275	7.5	176
144	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , <b>2018</b> , 557, 202-206	50.4	173
143	The Search-Coil Magnetometer for MMS. <i>Space Science Reviews</i> , <b>2016</b> , 199, 257-282	7.5	171
142	An observation linking the origin of plasmaspheric hiss to discrete chorus emissions. <i>Science</i> , <b>2009</b> , 324, 775-8	33.3	156
141	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
140	THEMIS analysis of observed equatorial electron distributions responsible for the chorus excitation. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		121
139	First Results of the THEMIS Search Coil Magnetometers. <i>Space Science Reviews</i> , <b>2008</b> , 141, 509-534	7.5	108
138	Typical properties of rising and falling tone chorus waves. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	84
137	Turbulent heating and cross-field transport near the magnetopause from THEMIS. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	76
136	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5969-5978	4.9	72
135	Quasi-parallel whistler mode waves observed by THEMIS during near-earth dipolarizations. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2259-2275	2	71
134	Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		70
133	MMS observations of whistler waves in electron diffusion region. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 3954-3962	4.9	68
132	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 836, L27	7.9	63
131	Structures of dayside whistler-mode waves deduced from conjugate diffuse aurora. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 664-673	2.6	61

130	Observations of turbulence in a Kelvin-Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 11,021-11,034	2.6	59
129	Quantified energy dissipation rates in the terrestrial bow shock: 2. Waves and dissipation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6475-6495	2.6	59
128	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5571-5580	4.9	59
127	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 556-564	4.9	56
126	Observational evidence of the generation mechanism for rising-tone chorus. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	55
125	The quasi-electrostatic mode of chorus waves and electron nonlinear acceleration. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1606-1626	2.6	54
124	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,442-11,467	2.6	53
123	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 877, L37	7.9	52
122	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5909-5917	4.9	51
121	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8577-8588	2.6	51
120	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5626-5634	4.9	49
119	Wave normal angles of whistler mode chorus rising and falling tones. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 9567-9578	2.6	44
118	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. <i>Physical Review Letters</i> , <b>2019</b> , 122, 035102	7.4	43
117	Quantified energy dissipation rates in the terrestrial bow shock: 1. Analysis techniques and methodology. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6455-6474	2.6	43
116	THEMIS observation of chorus elements without a gap at half the gyrofrequency. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		43
115	Global distribution of electrostatic electron cyclotron harmonic waves observed on THEMIS. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	42
114	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7850-7858	4.9	41
113	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , <b>2017</b> , 836, 247	4.7	40

112	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3338-3347	4.9	40
111	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9941-9952	2.6	40
110	Chorus source region localization in the Earth's outer magnetosphere using THEMIS measurements. <i>Annales Geophysicae</i> , <b>2010</b> , 28, 1377-1386	2	39
109	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
108	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5943-5952	4.9	36
107	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2978-2986	4.9	35
106	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 523-533	4.9	35
105	Magnetic island formation between large-scale flow vortices at an undulating postnoon magnetopause for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		34
104	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , <b>2018</b> , 866, 81	4.7	33
103	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 29	4.7	32
102	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1237-1245	4.9	31
101	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 842, L11	7.9	29
100	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , <b>2018</b> , 120, 225101	7.4	29
99	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
98	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
97	Rippled Electron-Scale Structure of a Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12116-12127	4.9	27
96	Estimation of magnetic field mapping accuracy using the pulsating aurora-chorus connection. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	25
95	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, 12236-12257	2.6	24

94	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
93	Evidence of Electron Acceleration at a Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5645-5652	4.9	24
92	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1834-1852	2.6	24
91	Electron Phase-Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9963-9978	2.6	24
90	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,481-11,504	2.6	23
89	Electron-Driven Dissipation in a Tailward Flow Burst. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5698-5706	4.9	23
88	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8727-8760	2.6	22
87	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 4089-4097	4.9	21
86	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
85	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
84	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5487-5501	2.6	20
83	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6230-6238	4.9	20
82	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6383-6393	2.6	19
81	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
80	Optimized merging of search coil and fluxgate data for MMS. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , <b>2016</b> , 5, 521-530	1.5	18
79	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027481	2.6	18
78	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
77	What is the nature of magnetosheath FTEs?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4576-4595	2.6	18

76	Cluster observations of whistler waves correlated with ion-scale magnetic structures during the 17 August 2003 substorm event. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 6072-6089	2.6	18
75	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earth's Bow Shock. <i>Physical Review Letters</i> , <b>2020</b> , 124, 065101	7.4	17
74	Large-Amplitude High-Frequency Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2630-2657	2.6	17
73	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , <b>2020</b> , 124, 045101	7.4	16
72	Electron Energization at a Reconnecting Magnetosheath Current Sheet. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8081-8090	4.9	16
71	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 113	4.7	15
70	The THEMIS Magnetic Cleanliness Program. <i>Space Science Reviews</i> , <b>2008</b> , 141, 171-184	7.5	15
69	Poynting vector and wave vector directions of equatorial chorus. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 11,912-11,928	2.6	15
68	Near-Earth plasma sheet boundary dynamics during substorm dipolarization. <i>Earth, Planets and Space</i> , <b>2017</b> , 69, 129	2.9	14
67	Self-consistent quasi-static radial transport during the substorm growth phase. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 12929-12944		14
66	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , <b>2020</b> , 11, 141	17.4	14
65	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8793-8802	4.9	14
64	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,201-11,226	2.6	13
63	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , <b>2020</b> , 125, 025103	7.4	13
62	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
61	Observations and modeling of forward and reflected chorus waves captured by THEMIS. <i>Annales Geophysicae</i> , <b>2011</b> , 29, 541-550	2	13
60	Observations of Particle Acceleration in Magnetic Reconnection-Driven Turbulence. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 154	4.7	13
59	Multi-spacecraft investigation of space turbulence: Lessons from Cluster and input to the Cross-Scale mission. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 585-591	2	12



58	Coupling between whistler waves and ion-scale solitary waves: cluster measurements in the magnetotail during a substorm. <i>Physical Review Letters</i> , <b>2012</b> , 109, 155005	7.4	12
57	Zipper-like periodic magnetosonic waves: Van Allen Probes, THEMIS, and magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1600-1610	2.6	11
56	Whistler Waves Driven by Field-Aligned Streaming Electrons in the Near-Earth Magnetotail Reconnection. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5045-5054	4.9	11
55	A Survey of Plasma Waves Appearing Near Dayside Magnetopause Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7837-7849	2.6	11
54	Electron and wave characteristics observed by the THEMIS satellites near the magnetic equator during a pulsating aurora. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		11
53	Compressible Kelvin-Helmholtz instability in supermagnetosonic regimes. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		11
52	Modeling MMS Observations at the Earth's Magnetopause with Hybrid Simulations of Alfvénic Turbulence. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 175	4.7	11
51	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
50	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 53	4.7	11
49	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10085-10103	2.6	11
48	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 40	4.7	11
47	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
46	Automatic Classification of Plasma Regions in Near-Earth Space With Supervised Machine Learning: Application to Magnetospheric Multi Scale 2016-2019 Observations. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2020</b> , 7,	3.8	10
45	Statistical Study of the Properties of Magnetosheath Lion Roars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 5435-5451	2.6	10
44	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
43	On the deviation from Maxwellian of the ion velocity distribution functions in the turbulent magnetosheath. <i>Journal of Plasma Physics</i> , <b>2020</b> , 86,	2.7	9
42	Different types of whistler mode chorus in the equatorial source region. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8271-8279	4.9	9
41	Source location of falling tone chorus. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	9

40	On the origin of falling-tone chorus elements in Earth's inner magnetosphere. <i>Annales Geophysicae</i> , <b>2014</b> , 32, 1477-1485	2	9
39	MMS Observations of Intense Whistler Waves Within Earth's Supercritical Bow Shock: Source Mechanism and Impact on Shock Structure and Plasma Transport. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027290	2.6	8
38	A mechanism for heating electrons in the magnetopause current layer and adjacent regions. <i>Annales Geophysicae</i> , <b>2011</b> , 29, 2305-2316	2	8
37	Whistler waves observed by Solar Orbiter / RPW between 0.5 AU and 1 AU. <i>Astronomy and Astrophysics</i> ,	5.1	8
36	Observations of Electromagnetic Electron Holes and Evidence of Cherenkov Whistler Emission. <i>Physical Review Letters</i> , <b>2019</b> , 123, 255101	7.4	8
35	Magnetic depression and electron transport in an ion-scale flux rope associated with Kelvin-Helmholtz waves. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 879-889	2	7
34	Coupling between whistler waves and slow-mode solitary waves. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 052103	2.1	7
33	Investigation of Electron Distribution Functions Associated With Whistler Waves at Dipolarization Fronts in the Earth's Magnetotail: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028268	2.6	7
32	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
31	Simultaneous FAST and Double Star TC1 observations of broadband electrons during a storm time substorm. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		6
30	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
29	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027488	2.6	5
28	Sign Singularity of the Local Energy Transfer in Space Plasma Turbulence. <i>Frontiers in Physics</i> , <b>2019</b> , 7,	3.9	5
27	Turbulence-driven magnetic reconnection and the magnetic correlation length: Observations from Magnetospheric Multiscale in Earth's magnetosheath. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 012302	2.1	5
26	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
25	Measurements of Magnetic Field Fluctuations for Plasma Wave Investigation by the Search Coil Magnetometers (SCM) Onboard Bepicolombo Mio (Mercury Magnetospheric Orbiter). <i>Space Science Reviews</i> , <b>2020</b> , 216, 1	7.5	5
24	Statistical Characteristics in the Spectrum of Whistler Waves Near the Diffusion Region of Dayside Magnetopause Reconnection. <i>Geophysical Research Letters</i> , <b>2021</b> , 48,	4.9	5
23	Comparative Analysis of the Various Generalized Ohm's Law Terms in Magnetosheath Turbulence as Observed by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, 2020JA028447	2.6	4



22	Whistler and Broadband Electrostatic Waves in the Multiple X-Line Reconnection at the Magnetopause. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091320	4.9	4
21	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
20	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
19	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 911, L31	7.9	3
18	Magnetic Reconnection in Three Dimensions: Observations of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10104-10118	2.6	3
17	Observations of Short-Period Ion-Scale Current Sheet Flapping. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029152	2.6	3
16	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
15	Observation of an inertial-range energy cascade within a reconnection jet in the Earth's magnetotail. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2020</b> , 500, L6-L10	4.3	2
14	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
13	The role of the magnetosonic Mach number on the evolution of Kelvin-Helmholtz vortices. <i>EAS Publications Series</i> , <b>2012</b> , 58, 91-94	0.2	2
12	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 1	1.3	2
11	Characteristics of Resonant Electrons Interacting With Whistler Waves in the Nearest Dipolarizing Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029440	2.6	2
10	Optimized Merging of Search Coil and Fluxgate Data for MMS <b>2016</b> ,		2
9	Electron-Scale Magnetic Structure Observed Adjacent to an Electron Diffusion Region at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10153-10169	2.6	2
8	Two-Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028705	2.6	2
7	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
6	Thin Current Sheet Behind the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029518	2.6	1
5	Magnetospheric Multiscale Observations of the Off-equatorial Dipolarization Front Dynamics in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , <b>2020</b> , 899, 125	4.7	1

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3	Evidence for Whistler Waves Propagating Into the Electron Diffusion Region of Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
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1	The Impact of Radial and Non-Radial IMF on the Earth's Magnetopause Size, Shape, and Dawn-Dusk Asymmetry From Global 3D Kinetic Simulations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029528	2.6	