

# Jean Berchem

## List of Publications by Year in descending order

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29  
papers

660  
citations

516710

16  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101.	7.8	72
2	Large and small scale structures in the plasma sheet: A signature of chaotic motion and resonance effects. <i>Geophysical Research Letters</i> , 1991, 18, 1603-1606.	4.0	58
3	Three-dimensional magnetic flux rope structure formed by multiple sequential X-line reconnection at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1904-1911.	2.4	48
4	Chaotic scattering and acceleration of ions in the Earth's magnetotail. <i>Geophysical Research Letters</i> , 1990, 17, 2317-2320.	4.0	43
5	On the origin of the crescent-shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2024-2039.	2.4	43
6	Magnetic flux ropes at the high-latitude magnetopause. <i>Geophysical Research Letters</i> , 1995, 22, 1189-1192.	4.0	36
7	Suprathermal Electron Acceleration in a Reconnecting Magnetotail: Large-Scale Kinetic Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8087-8108.	2.4	34
8	Observation of high-frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , 2016, 43, 4808-4815.	4.0	32
9	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> , 2018, 123, 1834-1852.	2.4	32
10	Reconnection at the Magnetospheric Boundary: Results from Global Magnetohydrodynamic Simulations. <i>Geophysical Monograph Series</i> , 2013, , 205-213.	0.1	29
11	A two-dimensional particle simulation of the magnetopause current layer. <i>Journal of Geophysical Research</i> , 1990, 95, 8133-8147.	3.3	27
12	Effect of a northward turning of the interplanetary magnetic field on cusp precipitation as observed by Cluster. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	24
13	Tracing ions in the cusp and low-latitude boundary layer using multispacecraft observations and a global MHD simulation. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 2-1.	3.3	23
14	Oxygen acceleration in magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 618-639.	2.4	23
15	Multipoint observations of transient reconnection signatures in the cusp precipitation: A Cluster-IMAGE detailed case study. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	19
16	Temporal evolution of a staircase ion signature observed by Cluster in the mid-altitude polar cusp. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	19
17	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , 2018, 45, 8793-8802.	4.0	19
18	Multiscale MHD-Kinetic PIC Study of Energy Fluxes Caused by Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, no.	2.4	13

#	ARTICLE	IF	CITATIONS
19	Identifying the electron diffusion region in a realistic simulation of Earth's magnetotail. Geophysical Research Letters, 2016, 43, 6005-6011.	4.0	12
20	Turbulent Energization of Electron Power Law Tails during Magnetic Reconnection. Physical Review Letters, 2020, 125, 225101.	7.8	11
21	Embedding particle-in-cell simulations in global magnetohydrodynamic simulations of the magnetosphere. Journal of Plasma Physics, 2019, 85, .	2.1	9
22	Asymmetrical response of dayside ion precipitation to a large rotation of the IMF. Journal of Geophysical Research: Space Physics, 2016, 121, 263-273.	2.4	8
23	Dawnâ€dusk asymmetry in solar wind ion entry and dayside precipitation: Results from large-scale simulations. Journal of Geophysical Research: Space Physics, 2014, 119, 1549-1562.	2.4	7
24	Dayside Proton Aurora: Comparisons between Global MHD Simulations and IMAGE Observations. Space Science Reviews, 2003, 109, 313-349.	8.1	6
25	Modeling Extreme Compression of the Magnetosphere: Results from a Global MHD Simulation of the May 4, 1998 Event. Geophysical Monograph Series, 2013, , 241-248.	0.1	6
26	Structure and Dynamics of Threeâ€Dimensional Magnetotail Reconnection. Journal of Geophysical Research: Space Physics, 2018, 123, 8241-8260.	2.4	5
27	Large-Scale Dynamics of the Magnetospheric Boundary: Comparisons between Global MHD Simulation Results and ISTP Observations. Geophysical Monograph Series, 2013, , 247-260.	0.1	1
28	Simultaneous Polar and Cluster Observations in the Northern and Southern Middleâ€Altitude Polar Cusps Around Equinox. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028346.	2.4	1
29	Flux transfer events and interplanetary magnetic field conditions. Geophysical Monograph Series, 1984, , 154-155.	0.1	0