

# Craig Pollock

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,577  
citations

257450

24  
h-index

233421

45  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Plasma Investigation for Magnetospheric Multiscale. <i>Space Science Reviews</i> , 2016, 199, 331-406.	8.1	960
2	The Jovian Auroral Distributions Experiment (JADE) on the Juno Mission to Jupiter. <i>Space Science Reviews</i> , 2017, 213, 547-643.	8.1	187
3	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016, 43, 6060-6069.	4.0	99
4	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , 2016, 43, 4716-4724.	4.0	95
5	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016, 43, 5969-5978.	4.0	92
6	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> , 2016, 43, 5536-5544.	4.0	84
7	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	4.0	81
8	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,442.	2.4	73
9	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 6036-6043.	4.0	67
10	Kinetic Alfvén wave explanation of the Hall fields in magnetic reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 634-640.	4.0	52
11	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5235-5246.	2.4	52
12	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> , 2018, 123, 9941-9954.	2.4	51
13	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016, 43, 5635-5643.	4.0	47
14	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , 2017, 842, L11.	8.3	46
15	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 6705-6712.	4.0	45
16	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018, 120, 225101.	7.8	38
17	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946.	4.0	36
18	Cold ion demagnetization near the X-line of magnetic reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 6759-6767.	4.0	35

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19	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9926-9939.	2.4	35
20	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019, 10, 1040.	12.8	35
21	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019, 46, 6230-6238.	4.0	33
22	The geometric factor of electrostatic plasma analyzers: A case study from the Fast Plasma Investigation for the Magnetospheric Multiscale mission. <i>Review of Scientific Instruments</i> , 2012, 83, 033303.	1.3	30
23	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020, 125, 025103.	7.8	29
24	Large-scale Survey of the Structure of the Dayside Magnetopause by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2018-2033.	2.4	27
25	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> , 2016, 43, 6070-6077.	4.0	22
26	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Event-Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086726.	4.0	20
27	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,194.	2.4	19
28	Ion-scale Kinetic Alfvén Turbulence: MMS Measurements of the Alfvén Ratio in the Magnetosheath. <i>Geophysical Research Letters</i> , 2018, 45, 7974-7984.	4.0	19
29	Evolution of a typical ion-scale magnetic flux rope caused by thermal pressure enhancement. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2040-2050.	2.4	18
30	Cluster and MMS Simultaneous Observations of Magnetosheath High Speed Jets and Their Impact on the Magnetopause. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 6, .	2.8	18
31	MMS observations of oblique small-scale magnetopause flux ropes near the ion diffusion region during weak guide-field reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 6517-6524.	4.0	15
32	Downstream high-speed plasma jet generation as a direct consequence of shock reformation. <i>Nature Communications</i> , 2022, 13, 598.	12.8	15
33	Self-consistent kinetic model of nested electron- and ion-scale magnetic cavities in space plasmas. <i>Nature Communications</i> , 2020, 11, 5616.	12.8	13
34	Magnetic depression and electron transport in an ion-scale flux rope associated with Kelvin-Helmholtz waves. <i>Annales Geophysicae</i> , 2018, 36, 879-889.	1.6	12
35	On Multiple Hall-Like Electron Currents and Tripolar Guide Magnetic Field Perturbations During Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1305-1324.	2.4	10
36	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 146-162.	2.4	10

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37	Magnetic Reconnection Inside a Flux Transfer Event-Like Structure in Magnetopause Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027527.	2.4	10
38	Stable reconnection at the dusk flank magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 9374-9382.	4.0	7
39	The Geometry of an Electron Scale Magnetic Cavity in the Plasma Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 9308-9317.	4.0	7
40	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> , 2019, 124, 6850-6868.	2.4	7
41	A Study of the Solar Wind Ion and Electron Measurements From the Magnetospheric Multiscale Mission's Fast Plasma Investigation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029784.	2.4	7
42	Solitary Magnetic Structures Developed From Gyroresonance With Solar Wind Ions at Mars and Earth. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
43	Microchannel plate lifetime experiment for the DIS and DES instruments on the Magnetospheric Multiscale Mission. <i>Planetary and Space Science</i> , 2018, 161, 92-98.	1.7	5
44	Fast Plasma Investigation for Magnetospheric Multiscale. , 2017, , 329-404.		3
45	Statistical Study of Foreshock Density Holes. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
46	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 6028-6035.	4.0	1
47	Observations of an Electron-cold Ion Component Reconnection at the Edge of an Ion-scale Antiparallel Reconnection at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029390.	2.4	0