

Kevin Genestreti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

1,089
citations

21
h-index

31
g-index

60
ext. papers

1,344
ext. citations

3.8
avg, IF

3.8
L-index

#	Paper	IF	Citations
51	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022 , 29, 052903	2.1	1
50	Solar Wind Magnetosphere Coupling During Radial Interplanetary Magnetic Field Conditions: Simultaneous Multi-Point Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029506	2.6	106
49	Reconnection X-Line Orientations at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029789	2.6	0
48	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021 , 28, 122901	2.1	2
47	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> , 2021 , 126, e2020JA028705	2.6	705
46	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> , 2021 , 126, e2020JA028903	2.6	3
45	Fast Cross-Scale Energy Transfer During Turbulent Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093524	4.9	5
44	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020 , 125, 025103	7.4	13
43	Asymmetric Reconnection Within a Flux Rope-Type Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027296	2.6	3
42	A New Method of 3-D Magnetic Field Reconstruction. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085542	4.9	14
41	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027481	2.6	18
40	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027985	2.6	3
39	Energy Balance and Time Dependence of a Magnetotail Electron Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028290	2.6	3
38	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082	4.9	11
37	Temperature Dependence of Plasmaspheric Ion Composition. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6585-6595	2.6	10
36	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1173-1186	2.6	25
35	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019 , 46, 6230-6238	4.9	20

34	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , 2019 , 46, 4089-4097	4.9	21
33	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019 , 46, 10274-10282	4.9	6
32	Signatures of Nonideal Plasma Evolution During Substorms Obtained by Mining Multimission Magnetometer Data. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8427-8456	2.6	15
31	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 122-138	2.6	16
30	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018 , 25, 032901	2.1	15
29	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
28	Assessing the Time Dependence of Reconnection With Poynting's Theorem: MMS Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 2886-2892	4.9	5
27	MMS Observation of Asymmetric Reconnection Supported by 3-D Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1806	2.6	24
26	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
25	Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1118-1133	2.6	13
24	Intense Electric Fields and Electron-Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. <i>Geophysical Research Letters</i> , 2018 , 45, 8783-8792	4.9	21
23	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1260-1278	2.6	27
22	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> , 2018 , 123, 9130-9149	2.6	46
21	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4858-4878	2.6	60
20	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395	33.3	139
19	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9150-9168	2.6	31
18	Remote Sensing of the Reconnection Electric Field From In Situ Multipoint Observations of the Separatrix Boundary. <i>Geophysical Research Letters</i> , 2018 , 45, 3829-3837	4.9	6
17	Temperature of the plasmasphere from Van Allen Probes HOPE. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 310-323	2.6	12

16	Mercury's cross-tail current sheet: Structure, X-line location and stress balance. <i>Geophysical Research Letters</i> , 2017 , 44, 678-686	4.9	40
15	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,442-11,467	2.6	53
14	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10891-10909	2.6	8
13	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,342-11,353	2.6	32
12	Mass and Energy Transfer Across the Earth's Magnetopause Caused by Vortex-Induced Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,505-11,522	2.6	26
11	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8617-8631	2.6	28
10	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,523-11,542	2.6	18
9	Coupling between Mercury and its nightside magnetosphere: Cross-tail current sheet asymmetry and substorm current wedge formation. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8419-8433	2.6	23
8	Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. <i>Geophysical Research Letters</i> , 2016 , 43, 7311-7318	4.9	23
7	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016 , 43, 6028-6035	4.9	1
6	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. <i>Geophysical Research Letters</i> , 2016 , 43, 4841-4849	4.9	23
5	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> , 2014 , 121, 98-109	2	25
4	Hot magnetospheric O ⁺ and cold ion behavior in magnetopause reconnection: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9601-9623	2.6	27
3	Simulation of Van Allen Probes plasmopause encounters. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7464-7484	2.6	72
2	An empirical model for the location and occurrence rate of near-Earth magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6389-6396	2.6	12
1	In-flight calibration of the Cluster/CODIF sensor. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2013 , 2, 225-235	1.5	9