Kevin Genestreti

List of Publications by Year
in descending order

53	1,629	218662	302107
papers	citations	26 h-index	39 g-index

60	60	60	1316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
2	Simulation of Van Allen Probes plasmapause encounters. Journal of Geophysical Research: Space Physics, 2014, 119, 7464-7484.	2.4	95
3	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. Journal of Geophysical Research: Space Physics, 2018, 123, 4858-4878.	2.4	79
4	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. Journal of Geophysical Research: Space Physics, 2017, 122, 11,442.	2.4	73
5	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. Geophysical Research Letters, 2018, 45, 3338-3347.	4.0	69
6	How Accurately Can We Measure the Reconnection Rate E_M for the MMS Diffusion Region Event of 11 July 2017?. Journal of Geophysical Research: Space Physics, 2018, 123, 9130-9149.	2.4	64
7	Mercury's crossâ€tail current sheet: Structure, Xâ€line location and stress balance. Geophysical Research Letters, 2017, 44, 678-686.	4.0	53
8	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 9150-9168.	2.4	50
9	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,342.	2.4	45
10	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	4.0	41
11	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027481.	2.4	38
12	Mass and Energy Transfer Across the Earth's Magnetopause Caused by Vortexâ€Induced Reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 11,505.	2.4	35
13	MMS Observation of Asymmetric Reconnection Supported by 3â€D Electron Pressure Divergence. Journal of Geophysical Research: Space Physics, 2018, 123, 1806-1821.	2.4	34
14	Intense Electric Fields and Electronâ€Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. Geophysical Research Letters, 2018, 45, 8783-8792.	4.0	34
15	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. Journal of Geophysical Research: Space Physics, 2019, 124, 1173-1186.	2.4	34
16	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. Geophysical Research Letters, 2019, 46, 6230-6238.	4.0	33
17	Magnetospheric ion influence at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 8617-8631.	2.4	32
18	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	2.4	32

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19	Highâ€Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. Geophysical Research Letters, 2019, 46, 4089-4097.	4.0	32
20	The location and rate of occurrence of near-Earth magnetotail reconnection as observed by Cluster and Geotail. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 121, 98-109.	1.6	31
21	Hot magnetospheric O⁺ and cold ion behavior in magnetopause reconnection: Cluster observations. Journal of Geophysical Research: Space Physics, 2014, 119, 9601-9623.	2.4	30
22	Transient, smallâ€scale fieldâ€aligned currents in the plasma sheet boundary layer during storm time substorms. Geophysical Research Letters, 2016, 43, 4841-4849.	4.0	30
23	Coupling between Mercury and its nightside magnetosphere: Crossâ€tail current sheet asymmetry and substorm current wedge formation. Journal of Geophysical Research: Space Physics, 2017, 122, 8419-8433.	2.4	29
24	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. Physical Review Letters, 2020, 125, 025103.	7.8	29
25	A New Method of 3â€D Magnetic Field Reconstruction. Geophysical Research Letters, 2020, 47, e2019GL085542.	4.0	29
26	Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. Geophysical Research Letters, 2016, 43, 7311-7318.	4.0	27
27	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particleâ€inâ€Cell Simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,523.	2.4	27
28	Signatures of Nonideal Plasma Evolution During Substorms Obtained by Mining Multimission Magnetometer Data. Journal of Geophysical Research: Space Physics, 2019, 124, 8427-8456.	2.4	27
29	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 122-138.	2.4	25
30	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. Geophysical Research Letters, 2020, 47, e2020GL089082.	4.0	23
31	The physical foundation of the reconnection electric field. Physics of Plasmas, 2018, 25, .	1.9	20
32	First-principles theory of the rate of magnetic reconnection in magnetospheric and solar plasmas. Communications Physics, 2022, 5, .	5.3	20
33	Wave Phenomena and Beamâ€Plasma Interactions at the Magnetopause Reconnection Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1118-1133.	2.4	19
34	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 10891-10909.	2.4	17
35	Temperature Dependence of Plasmaspheric Ion Composition. Journal of Geophysical Research: Space Physics, 2019, 124, 6585-6595.	2.4	16
36	An empirical model for the location and occurrence rate of nearâ€Earth magnetotail reconnection. Journal of Geophysical Research: Space Physics, 2013, 118, 6389-6396.	2.4	14

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37	Temperature of the plasmasphere from Van Allen Probes HOPE. Journal of Geophysical Research: Space Physics, 2017, 122, 310-323.	2.4	14
38	Fast Crossâ€Scale Energy Transfer During Turbulent Magnetic Reconnection. Geophysical Research Letters, 2021, 48, e2021GL093524.	4.0	13
39	In-flight calibration of the Cluster/CODIF sensor. Geoscientific Instrumentation, Methods and Data Systems, 2013, 2, 225-235.	1.6	12
40	Remote Sensing of the Reconnection Electric Field From In Situ Multipoint Observations of the Separatrix Boundary. Geophysical Research Letters, 2018, 45, 3829-3837.	4.0	10
41	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. Geophysical Research Letters, 2019, 46, 10274-10282.	4.0	10
42	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027985.	2.4	10
43	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028903.	2.4	8
44	Asymmetric Reconnection Within a Flux Ropeâ€Type Dipolarization Front. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027296.	2.4	7
45	Twoâ€Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028705.	2.4	7
46	Assessing the Time Dependence of Reconnection With Poynting's Theorem: MMS Observations. Geophysical Research Letters, 2018, 45, 2886-2892.	4.0	6
47	Reconnection Xâ€Line Orientations at the Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029789.	2.4	6
48	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electronâ€Scale Magnetic Island. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	6
49	Energy Balance and Time Dependence of a Magnetotail Electron Diffusion Region. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028290.	2.4	3
50	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. Physics of Plasmas, 2021, 28, .	1.9	3
51	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. Physics of Plasmas, 2022, 29, .	1.9	3
52	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. Geophysical Research Letters, 2016, 43, 6028-6035.	4.0	1
53	Solar wind â€magnetosphere coupling during radial interplanetary magnetic field conditions: simultaneous multiâ€point observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029506.	2.4	1