

Kyoung-Joo Hwang

List of Publications by Year in descending order

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36
papers

1,045
citations

430874

18
h-index

414414

32
g-index

41
all docs

41
docs citations

41
times ranked

946
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	12.6	221
2	Kelvin-Helmholtz waves under southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	94
3	Magnetotail dipolarization fronts and particle acceleration: A review. <i>Science China Earth Sciences</i> , 2020, 63, 235-256.	5.2	79
4	The first in situ observation of Kelvin-Helmholtz waves at high-latitude magnetopause during strongly dawnward interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	67
5	Electron Distribution Functions Around a Reconnection X-Line Resolved by the FOTE Method. <i>Geophysical Research Letters</i> , 2019, 46, 1195-1204.	4.0	47
6	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , 2017, 44, 2049-2059.	4.0	41
7	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 1237-1245.	4.0	41
8	MMS Observation of Asymmetric Reconnection Supported by $\nabla \cdot \mathbf{E}$ Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1806-1821.	2.4	34
9	The substructure of a flux transfer event observed by the MMS spacecraft. <i>Geophysical Research Letters</i> , 2016, 43, 9434-9443.	4.0	33
10	Parallel Electron Heating by Tangential Discontinuity in the Turbulent Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019, 877, L16.	8.3	32
11	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , 2019, 46, 4089-4097.	4.0	32
12	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , 2020, 124, 045101.	7.8	31
13	Magnetic Reconnection Inside a Flux Rope Induced by Kelvin-Helmholtz Vortices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027665.	2.4	26
14	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.	2.4	25
15	Small-Scale Flux Transfer Events Formed in the Reconnection Exhaust Region Between Two X Lines. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8473-8488.	2.4	23
16	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6287-6296.	4.0	23
17	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	4.0	23
18	Cluster observations near reconnection X lines in Earth's magnetotail current sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4199-4209.	2.4	19

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19	Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1118-1133.	2.4	19
20	High-Frequency Wave Generation in Magnetotail Reconnection: Nonlinear Harmonics of Upper Hybrid Waves. <i>Geophysical Research Letters</i> , 2019, 46, 7873-7882.	4.0	18
21	Observation of Nongyrotropic Electron Distribution Across the Electron Diffusion Region in the Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 14263-14273.	4.0	18
22	Van Allen Probe observations of drift-bounce resonances with Pc 4 pulsations and wave-particle interactions in the pre-midnight inner magnetosphere. <i>Annales Geophysicae</i> , 2015, 33, 955-964.	1.6	15
23	Direct observations of anomalous resistivity and diffusion in collisionless plasma. <i>Nature Communications</i> , 2022, 13, .	12.8	15
24	Sequential Observations of Flux Transfer Events, Poleward-Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027674.	2.4	12
25	Decay of Kelvin-Helmholtz Vortices at the Earth's Magnetopause Under Pure Southward IMF Conditions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087574.	4.0	10
26	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
27	High-Frequency Waves Driven by Agyrotropic Electrons Near the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087111.	4.0	6
28	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. <i>Astrophysical Journal</i> , 2021, 914, 26.	4.5	6
29	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electron-Scale Magnetic Island. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	6
30	Kelvin-Helmholtz Vortices as an Interplay of Magnetosphere-Ionosphere Coupling. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	5
31	The Effects of Upper-Hybrid Waves on Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089778.	4.0	3
32	Bifurcated Current Sheet Observed on the Boundary of Kelvin-Helmholtz Vortices. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	3
33	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
34	Waves Generated by Electron Beam in a Crater-Shaped Flux Rope. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	2
35	Data mining for vortices on the Earth's magnetosphere - algorithm application for detection and analysis. <i>Annales Geophysicae</i> , 2018, 36, 1117-1129.	1.6	1
36	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.	2.4	1