

Naoki Bessho

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,562
citations

331538

21
h-index

302012

39
g-index

52
all docs

52
docs citations

52
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of energetic electrons within magnetic islands. <i>Nature Physics</i> , 2008, 4, 19-23.	6.5	238
2	Collisionless Reconnection in an Electron-Positron Plasma. <i>Physical Review Letters</i> , 2005, 95, 245001.	2.9	97
3	Evidence of an extended electron current sheet and its neighboring magnetic island during magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
4	Fast collisionless reconnection in electron-positron plasmas. <i>Physics of Plasmas</i> , 2007, 14, 056503.	0.7	73
5	Electron distribution functions in the diffusion region of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 1828-1836.	1.5	72
6	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.	1.5	67
7	Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. <i>Geophysical Research Letters</i> , 2015, 42, 2586-2593.	1.5	60
8	Electron energization and structure of the diffusion region during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 2405-2412.	1.5	60
9	Multispacecraft observations of the electron current sheet, neighboring magnetic islands, and electron acceleration during magnetotail reconnection. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	57
10	Electron distribution functions in the electron diffusion region of magnetic reconnection: Physics behind the fine structures. <i>Geophysical Research Letters</i> , 2014, 41, 8688-8695.	1.5	55
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.	0.8	52
12	On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , 2016, 43, 2359-2364.	1.5	50
13	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019, 46, 562-570.	1.5	47
14	Magnetic Reconnection in a Quasi-Parallel Shock: Two-Dimensional Local Particle-in-Cell Simulation. <i>Geophysical Research Letters</i> , 2019, 46, 9352-9361.	1.5	36
15	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.	0.8	34
16	Highly structured electron anisotropy in collisionless reconnection exhausts. <i>Geophysical Research Letters</i> , 2014, 41, 5389-5395.	1.5	33
17	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019, 46, 6230-6238.	1.5	33
18	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020, 125, 025103.	2.9	29

#	ARTICLE	IF	CITATIONS
19	Electron heating in the exhaust of magnetic reconnection with negligible guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2104-2130.	0.8	27
20	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	27
21	In-plane electric fields in magnetic islands during collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, 112902.	0.7	23
22	Magnetic reconnection and kinetic waves generated in the Earth's quasi-parallel bow shock. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	21
23	Solitary Magnetic Structures at Quasi-Parallel Collisionless Shocks: Formation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090800.	1.5	21
24	The effect of reconnection electric field on crescent and U-shaped distribution functions in asymmetric reconnection with no guide field. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	20
25	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	20
26	Two-scale ion meandering caused by the polarization electric field during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 7831-7839.	1.5	19
27	MMS Measurements of the Vlasov Equation: Probing the Electron Pressure Divergence Within Thin Current Sheets. <i>Geophysical Research Letters</i> , 2019, 46, 7862-7872.	1.5	19
28	Energy Conversion and Partition in the Asymmetric Reconnection Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8185-8205.	0.8	17
29	Structures in the terms of the Vlasov equation observed at Earth's magnetopause. <i>Nature Physics</i> , 2021, 17, 1056-1065.	6.5	15
30	Effect of the Reconnection Electric Field on Electron Distribution Functions in the Diffusion Region of Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 12,142.	1.5	14
31	Fast magnetic reconnection in low-density electron-positron plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	13
32	Strong reconnection electric fields in shock-driven turbulence. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	13
33	Electron acceleration by parallel and perpendicular electric fields during magnetic reconnection without guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9355-9367.	0.8	12
34	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020, 898, 121.	1.6	12
35	Population Mixing in Asymmetric Magnetic Reconnection with a Guide Field. <i>Physical Review Letters</i> , 2017, 118, 145101.	2.9	11
36	Lower-hybrid drift waves and their interaction with plasmas in a 3D symmetric reconnection simulation with zero guide field. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	9

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37	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017, 44, 4384-4392.	1.5	8
38	Effects of the guide field on electron distribution functions in the diffusion region of asymmetric reconnection. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	8
39	Lower-Hybrid Wave Structures and Interactions With Electrons Observed in Magnetotail Reconnection Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	8
40	Lower-Hybrid-Drift Vortices in the Electron-Scale Magnetic Reconnection Layer. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090726.	1.5	6
41	A statistical study of three-second foreshock ULF waves observed by the Magnetospheric Multiscale mission. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	6
42	Whistler waves generated by nongyrotropic and gyrotropic electron beams during asymmetric guide field reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	6
43	Ion Behaviors in the Reconnection Diffusion Region of a Corrugated Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 5014-5020.	1.5	5
44	A Case Study of Nonresonant Mode 3 ULF Waves Observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028557.	0.8	5
45	A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028456.	0.8	4
46	Fast Reconnection in Low-density Hydrogen and Pair Plasmas. <i>Plasma and Fusion Research</i> , 2010, 5, S2017-S2017.	0.3	4
47	Particle-in-cell simulation study of the impact of ion cyclotron waves on auroral kilometric radiation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	2
48	Electron-scale temperature gradients in kinetic equilibrium: MMS observations and Vlasov-Maxwell solutions. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	2