Ritoku Horiuchi

List of Publications by Year
in descending order

35 papers	802 citations	687363 13 h-index	477307 29 g-index
35 all docs	35 docs citations	35 times ranked	357 citing authors

#	Article	IF	Citations
1	Particle simulation study of collisionless driven reconnection in a sheared magnetic field. Physics of Plasmas, 1997, 4, 277-289.	1.9	163
2	Particle simulation study of driven magnetic reconnection in a collisionless plasma. Physics of Plasmas, 1994, 1, 3587-3597.	1.9	138
3	Three-dimensional particle simulation of plasma instabilities and collisionless reconnection in a current sheet. Physics of Plasmas, 1999, 6, 4565-4574.	1.9	108
4	Suppression of Hall-Term Effects by Gyroviscous Cancellation in Steady Collisionless Magnetic Reconnection. Physical Review Letters, 2005, 95, 045003.	7.8	51
5	Ion Dynamics in Steady Collisionless Driven Reconnection. Physical Review Letters, 2001, 87, 235003.	7.8	43
6	Collisionless driven reconnection in an open system. Earth, Planets and Space, 2001, 53, 439-445.	2.5	40
7	Long time scale evolution of collisionless driven reconnection in a two-dimensional open system. Physics of Plasmas, 2001, 8, 3251-3257.	1.9	40
8	Open Boundary Condition for Particle Simulation in Magnetic Reconnection Research. Plasma and Fusion Research, 2009, 4, 024-024.	0.7	31
9	Electron Force Balance in Steady Collisionless-Driven Reconnection. Physical Review Letters, 2008, 101, 215001.	7.8	21
10	Physical processes of driven magnetic reconnection in collisionless plasmas: Zero guide field case. Physics of Plasmas, 2015, 22, .	1.9	19
11	Numerical study of energy conversion mechanism of magnetic reconnection in the presence of high guide field. Nuclear Fusion, 2015, 55, 083014.	3.5	16
12	Effective heating of nonadiabatic protons in magnetic reconnection with a guide field. Physics of Plasmas, 2017, 24, 092101.	1.9	14
13	Roles of ion and electron dynamics in the onset of magnetic reconnection due to current sheet instabilities. Physics of Plasmas, 2008, 15, 092114.	1.9	13
14	Reconnection heating experiments and simulations for torus plasma merging start-up. Nuclear Fusion, 2019, 59, 076025.	3.5	13
15	Development of multi-hierarchy simulation model with non-uniform space grids for collisionless driven reconnection. Physics of Plasmas, 2013, 20, .	1.9	12
16	Dependence of the pickup-like ion effective heating on the poloidal and toroidal magnetic fields during magnetic reconnection. Physics of Plasmas, 2019, 26, .	1.9	12
17	First Demonstration of Collisionless Driven Reconnection in a Multi-Hierarchy Simulation. Plasma and Fusion Research, 2009, 4, 049-049.	0.7	9
18	Magnetic Reconnection Controlled by Multi-Hierarchy Physics in an Open System. Plasma and Fusion Research, 2010, 5, S2006-S2006.	0.7	9

#	Article	IF	Citations
19	Simulation of Plasma Flow Injection with Multi-Hierarchy Model Aiming Magnetic Reconnection Studies. Communications in Computational Physics, 2012, 11, 1006-10210.	1.7	6
20	PIC Simulation Study of Merging Processes of Two Spheromak-Like Plasmoids. Plasma and Fusion Research, 2018, 13, 3403035-3403035.	0.7	6
21	Energy conversion mechanism for electron perpendicular energy in high guide-field reconnection. Physics of Plasmas, 2017, 24, 032901.	1.9	5
22	Numerical study of Hall effects on counter-helicity spheromak merging by two-dimensional Hall-MHD simulations. Physics of Plasmas, 2017, 24, 032508.	1.9	5
23	Effective Proton Heating through Collisionless Driven Reconnection in the Presence of Guide Field. Plasma and Fusion Research, 2018, 13, 3401025-3401025.	0.7	5
24	Multi-Hierarchy Simulation of Collisionless Driven Reconnection by Real-Space Decomposition. Journal of Physics: Conference Series, 2014, 561, 012021.	0.4	4
25	Multi-scale simulation for plasma science. Journal of Physics: Conference Series, 2010, 257, 012026.	0.4	3
26	Particle simulation studies of merging processes of two spherical-tokamak-type plasmoids. Physics of Plasmas, 2019, 26, .	1.9	3
27	Mushroom-instability-driven Magnetic Reconnections in Collisionless Relativistic Jets. Astrophysical Journal, 2022, 928, 62.	4.5	3
28	Macro- and microphysics of magnetic reconnection in a multi-hierarchy open system. Plasma Physics and Controlled Fusion, 2013, 55, 014008.	2.1	2
29	Decoupling of Electron and Ion Dynamics in Driven Magnetic Reconnection in Collisionless Plasmas. Plasma and Fusion Research, 2016, 11, 1401081-1401081.	0.7	2
30	The Role of Magnetic Islands in Collisionless Driven Reconnection: A Kinetic Approach to Multi-Scale Phenomena. Plasma, 2018, 1, 68-77.	1.8	2
31	Pseudo-Maxwellian Velocity Distribution Formed by the Pickup-like Process in Magnetic Reconnection. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	2
32	Multi-Scale Simulations of Magnetic Reconnection Using Particle-in-Cell and Magnetohydrodynamics with Adaptive Mesh Refinement Technique. Plasma and Fusion Research, 2016, 11, 2401096-2401096.	0.7	1
33	Development of Simulation Code Connecting Particle-in-Cell and Magnetohydrodynamics on Hierarchical Mesh. , 2014, , .		1
34	Improvement of the Multi-Hierarchy Simulation Model Based on the Real-Space Decomposition Method. Plasma, 2018, 1, 90-104.	1.8	0
35	Plasma heating and current sheet structure in anti-parallel magnetic reconnection. Physics of Plasmas, 2021, 28, 072101.	1.9	0