Seiji Zenitani

List of Publications by Year in descending order

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236925 223800 2,124 56 25 46 h-index citations g-index papers 63 63 63 1306 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The Generation of Nonthermal Particles in the Relativistic Magnetic Reconnection of Pair Plasmas. Astrophysical Journal, 2001, 562, L63-L66.	4.5	262
2	New Measure of the Dissipation Region in Collisionless Magnetic Reconnection. Physical Review Letters, 2011, 106, 195003.	7.8	205
3	Particle Acceleration and Magnetic Dissipation in Relativistic Current Sheet of Pair Plasmas. Astrophysical Journal, 2007, 670, 702-726.	4.5	176
4	The Diffusion Region in Collisionless Magnetic Reconnection. Space Science Reviews, 2011, 160, 3-23.	8.1	124
5	The Role of the Guide Field in Relativistic Pair Plasma Reconnection. Astrophysical Journal, 2008, 677, 530-544.	4.5	112
6	TWO-FLUID MAGNETOHYDRODYNAMIC SIMULATIONS OF RELATIVISTIC MAGNETIC RECONNECTION. Astrophysical Journal, 2009, 696, 1385-1401.	4.5	74
7	Threeâ€dimensional structure of magnetic reconnection in the magnetotail from Geotail observations. Journal of Geophysical Research: Space Physics, 2013, 118, 1667-1678.	2.4	72
8	Aspects of collisionless magnetic reconnection in asymmetric systems. Physics of Plasmas, 2013, 20, .	1.9	56
9	Three-Dimensional Evolution of a Relativistic Current Sheet: Triggering of Magnetic Reconnection by the Guide Field. Physical Review Letters, 2005, 95, 095001.	7.8	54
10	Theory and Modeling for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 577-630.	8.1	53
11	Relativistic Particle Acceleration in a Folded Current Sheet. Astrophysical Journal, 2005, 618, L111-L114.	4.5	52
12	Particle-in-cell simulation of collisionless reconnection with open outflow boundaries. Physics of Plasmas, 2008, 15 , .	1.9	51
13	RESISTIVE MAGNETOHYDRODYNAMIC SIMULATIONS OF RELATIVISTIC MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2010, 716, L214-L218.	8.3	50
14	The structure of the electron outflow jet in collisionless magnetic reconnection. Physics of Plasmas, 2008, 15, .	1.9	48
15	Dissipation in relativistic pair-plasma reconnection. Physics of Plasmas, 2007, 14, .	1.9	43
16	The inner structure of collisionless magnetic reconnection: The electron-frame dissipation measure and Hall fields. Physics of Plasmas, 2011, 18, .	1.9	42
17	On the Boris solver in particle-in-cell simulation. Physics of Plasmas, 2018, 25, .	1.9	41
18	Magnetohydrodynamic structure of a plasmoid in fast reconnection in low-beta plasmas. Physics of Plasmas, 2011, 18, .	1.9	39

#	Article	lF	CITATIONS
19	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
20	Particle dynamics in the electron current layer in collisionless magnetic reconnection. Physics of Plasmas, $2016, 23, .$	1.9	33
21	Kinetic aspects of the ion current layer in a reconnection outflow exhaust. Physics of Plasmas, 2013, 20, .	1.9	32
22	Evidence for the dissipation region in magnetotail reconnection. Geophysical Research Letters, 2012, 39, .	4.0	31
23	The role of the Weibel instability at the reconnection jet front in relativistic pair plasma reconnection. Physics of Plasmas, 2008, 15 , .	1.9	28
24	Loading relativistic Maxwell distributions in particle simulations. Physics of Plasmas, 2015, 22, .	1.9	28
25	Decay of mesoscale flux transfer events during quasiâ€continuous spatially extended reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 4755-4762.	4.0	28
26	lon acceleration processes in magnetic reconnection: Geotail observations in the magnetotail. Journal of Geophysical Research: Space Physics, 2015, 120, 1766-1783.	2.4	25
27	Selfâ€Regulation of the Reconnecting Current Layer in Relativistic Pair Plasma Reconnection. Astrophysical Journal, 2008, 684, 1477-1485.	4.5	24
28	RELATIVISTIC TWO-FLUID SIMULATIONS OF GUIDE FIELD MAGNETIC RECONNECTION. Astrophysical Journal, 2009, 705, 907-913.	4.5	24
29	A simple, analytical model of collisionless magnetic reconnection in a pair plasma. Physics of Plasmas, 2009, 16, .	1.9	23
30	Comparison between hybrid and fully kinetic models of asymmetric magnetic reconnection: Coplanar and guide field configurations. Physics of Plasmas, 2013, 20, .	1.9	23
31	Ion and electron dynamics in the ionâ €e lectron decoupling region of magnetic reconnection with Geotail observations. Journal of Geophysical Research: Space Physics, 2013, 118, 7703-7713.	2.4	23
32	Magnetohydrodynamic simulation code CANS+: Assessments and applications. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	23
33	Explosive reconnection of double tearing modes in relativistic plasmas: application to the Crab flares. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 436, L20-L24.	3.3	21
34	Electron dynamics surrounding the X line in asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 7396-7413.	2.4	20
35	Magnetohydrodynamic structure of a plasmoid in fast reconnection in low-beta plasmas: Shock-shock interactions. Physics of Plasmas, 2015, 22, .	1.9	18
36	The dawnâ€dusk length of the X line in the nearâ€Earth magnetotail: Geotail survey in 1994–2014. Journal of Geophysical Research: Space Physics, 2015, 120, 8762-8773.	2.4	16

#	Article	IF	Citations
37	Particle-in-cell simulation of collisionless driven reconnection with open boundaries. Physics of Plasmas, 2010, 17, .	1.9	14
38	Magnetic reconnection in a compressible MHD plasma. Physics of Plasmas, 2011, 18, .	1.9	12
39	Plasmoid-dominated Turbulent Reconnection in a Low- \hat{l}^2 Plasma. Astrophysical Journal Letters, 2020, 894, L7.	8.3	11
40	SCALING OF THE ANOMALOUS BOOST IN RELATIVISTIC JET BOUNDARY LAYER. Astrophysical Journal, 2010, 712, 951-956.	4.5	10
41	Reconnection in compressible plasmas: Extended conversion region. Physics of Plasmas, 2011, 18, 111202.	1.9	9
42	Thermodynamic Properties of Mirror Structures in the Magnetosheath: MMS Observations and Double-polytropic MHD Simulations. Astrophysical Journal, 2019, 885, 22.	4.5	8
43	Explosive reconnection of the double tearing mode in relativistic plasmas with application to the Crab nebula. Plasma Physics and Controlled Fusion, 2015, 57, 014034.	2.1	7
44	Dissipation in relativistic pair-plasma reconnection: revisited. Plasma Physics and Controlled Fusion, 2018, 60, 014028.	2.1	7
45	Multiple Boris integrators for particle-in-cell simulation. Computer Physics Communications, 2020, 247, 106954.	7.5	7
46	Particle-in-cell simulation of collisionless undriven reconnection with open boundaries. Physics of Plasmas, 2012, 19, 042901.	1.9	6
47	On the effect of parallel shear flow on the plasmoid instability. Physics of Plasmas, 2018, 25, 102117.	1.9	6
48	Energy Conversion and Inventory of a Prototypical Magnetic Reconnection layer. Astrophysics and Space Science Library, 2016, , 143-179.	2.7	5
49	Some remarks on the diffusion regions in magnetic reconnection. Physics of Plasmas, 2014, 21, 034503.	1.9	4
50	Numerical MHD study for plasmoid instability in uniform resistivity. Physics of Plasmas, 2017, 24, .	1.9	3
51	Twoâ€dimensional Reconstruction of a Timeâ€dependent Mirror Structure from Doubleâ€polytropic MHD Simulation. Earth and Space Science, 2021, 8, e2020EA001449.	2.6	2
52	Fluid and Magnetofluid Modeling of Relativistic Magnetic Reconnection. , 2011, , .		0
53	Thermodynamics of Dipolarization Fronts of Magnetic Reconnection in Anisotropic Plasma: MMS Observations and Resistive Double-polytropic MHD Simulations. Astrophysical Journal, 2020, 890, 114.	4.5	0
54	The Diffusion Region in Collisionless Magnetic Reconnection., 2011,, 3-23.		0

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#	Article	IF	CITATIONS
55	Theory and Modeling for the Magnetospheric Multiscale Mission. , 2017, , 575-628.		0
56	Relativistic Maxwellian mixture model. Physics of Plasmas, 2021, 28, 122106.	1.9	0