Seiji Zenitani

List of Publications by Year
in descending order

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56	2,124	236925	223800
papers	citations	25 h-index	46 g-index

63	63	63	1306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twoâ€dimensional Reconstruction of a Timeâ€dependent Mirror Structure from Doubleâ€polytropic MHD Simulation. Earth and Space Science, 2021, 8, e2020EA001449.	2.6	2
2	Relativistic Maxwellian mixture model. Physics of Plasmas, 2021, 28, 122106.	1.9	0
3	Multiple Boris integrators for particle-in-cell simulation. Computer Physics Communications, 2020, 247, 106954.	7.5	7
4	Plasmoid-dominated Turbulent Reconnection in a Low-Î² Plasma. Astrophysical Journal Letters, 2020, 894, L7.	8.3	11
5	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
6	Magnetohydrodynamic simulation code CANS+: Assessments and applications. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	23
7	Thermodynamic Properties of Mirror Structures in the Magnetosheath: MMS Observations and Double-polytropic MHD Simulations. Astrophysical Journal, 2019, 885, 22.	4.5	8
8	Dissipation in relativistic pair-plasma reconnection: revisited. Plasma Physics and Controlled Fusion, 2018, 60, 014028.	2.1	7
9	On the effect of parallel shear flow on the plasmoid instability. Physics of Plasmas, 2018, 25, 102117.	1.9	6
10	On the Boris solver in particle-in-cell simulation. Physics of Plasmas, 2018, 25, .	1.9	41
11	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
12	Electron dynamics surrounding the X line in asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 7396-7413.	2.4	20
13	Numerical MHD study for plasmoid instability in uniform resistivity. Physics of Plasmas, 2017, 24, .	1.9	3
14	Theory and Modeling for the Magnetospheric Multiscale Mission. , 2017, , 575-628.		0
15	Particle dynamics in the electron current layer in collisionless magnetic reconnection. Physics of Plasmas, 2016, 23, .	1.9	33
16	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
17	Theory and Modeling for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 577-630.	8.1	53
18	Energy Conversion and Inventory of a Prototypical Magnetic Reconnection layer. Astrophysics and Space Science Library, 2016, , 143-179.	2.7	5

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19	The dawnâ€dusk length of the X line in the nearâ€Earth magnetotail: Geotail survey in 1994â€“2014. Journal of Geophysical Research: Space Physics, 2015, 120, 8762-8773.	2.4	16
20	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
21	Ion acceleration processes in magnetic reconnection: Geotail observations in the magnetotail. Journal of Geophysical Research: Space Physics, 2015, 120, 1766-1783.	2.4	25
22	Loading relativistic Maxwell distributions in particle simulations. Physics of Plasmas, 2015, 22, .	1.9	28
23	Magnetohydrodynamic structure of a plasmoid in fast reconnection in low-beta plasmas: Shock-shock interactions. Physics of Plasmas, 2015, 22, .	1.9	18
24	Some remarks on the diffusion regions in magnetic reconnection. Physics of Plasmas, 2014, 21, 034503.	1.9	4
25	Comparison between hybrid and fully kinetic models of asymmetric magnetic reconnection: Coplanar and guide field configurations. Physics of Plasmas, 2013, 20, .	1.9	23
26	Aspects of collisionless magnetic reconnection in asymmetric systems. Physics of Plasmas, 2013, 20, .	1.9	56
27	Kinetic aspects of the ion current layer in a reconnection outflow exhaust. Physics of Plasmas, 2013, 20, .	1.9	32
28	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
29	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
30	Ion and electron dynamics in the ionâ€electron decoupling region of magnetic reconnection with Geotail observations. Journal of Geophysical Research: Space Physics, 2013, 118, 7703-7713.	2.4	23
31	Evidence for the dissipation region in magnetotail reconnection. Geophysical Research Letters, 2012, 39, .	4.0	31
32	Particle-in-cell simulation of collisionless undriven reconnection with open boundaries. Physics of Plasmas, 2012, 19, 042901.	1.9	6
33	New Measure of the Dissipation Region in Collisionless Magnetic Reconnection. Physical Review Letters, 2011, 106, 195003.	7.8	205
34	Magnetic reconnection in a compressible MHD plasma. Physics of Plasmas, 2011, 18, .	1.9	12
35	The Diffusion Region in Collisionless Magnetic Reconnection. Space Science Reviews, 2011, 160, 3-23.	8.1	124
36	The inner structure of collisionless magnetic reconnection: The electron-frame dissipation measure and Hall fields. Physics of Plasmas, 2011, 18, .	1.9	42

#	Article	IF	Citations
37	Fluid and Magnetofluid Modeling of Relativistic Magnetic Reconnection. , 2011, , .		0
38	Reconnection in compressible plasmas: Extended conversion region. Physics of Plasmas, 2011, 18, 111202.	1.9	9
39	Magnetohydrodynamic structure of a plasmoid in fast reconnection in low-beta plasmas. Physics of Plasmas, 2011, 18, .	1.9	39
40	The Diffusion Region in Collisionless Magnetic Reconnection. , 2011, , 3-23.		0
41	SCALING OF THE ANOMALOUS BOOST IN RELATIVISTIC JET BOUNDARY LAYER. Astrophysical Journal, 2010, 712, 951-956.	4.5	10
42	RESISTIVE MAGNETOHYDRODYNAMIC SIMULATIONS OF RELATIVISTIC MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2010, 716, L214-L218.	8.3	50
43	Particle-in-cell simulation of collisionless driven reconnection with open boundaries. Physics of Plasmas, 2010, 17, .	1.9	14
44	RELATIVISTIC TWO-FLUID SIMULATIONS OF GUIDE FIELD MAGNETIC RECONNECTION. Astrophysical Journal, 2009, 705, 907-913.	4.5	24
45	TWO-FLUID MAGNETOHYDRODYNAMIC SIMULATIONS OF RELATIVISTIC MAGNETIC RECONNECTION. Astrophysical Journal, 2009, 696, 1385-1401.	4.5	74
46	A simple, analytical model of collisionless magnetic reconnection in a pair plasma. Physics of Plasmas, 2009, 16, .	1.9	23
47	The structure of the electron outflow jet in collisionless magnetic reconnection. Physics of Plasmas, 2008, 15, .	1.9	48
48	The role of the Weibel instability at the reconnection jet front in relativistic pair plasma reconnection. Physics of Plasmas, 2008, 15, .	1.9	28
49	Particle-in-cell simulation of collisionless reconnection with open outflow boundaries. Physics of Plasmas, 2008, 15, .	1.9	51
50	Selfâ€Regulation of the Reconnecting Current Layer in Relativistic Pair Plasma Reconnection. Astrophysical Journal, 2008, 684, 1477-1485.	4.5	24
51	The Role of the Guide Field in Relativistic Pair Plasma Reconnection. Astrophysical Journal, 2008, 677, 530-544.	4.5	112
52	Dissipation in relativistic pair-plasma reconnection. Physics of Plasmas, 2007, 14, .	1.9	43
53	Particle Acceleration and Magnetic Dissipation in Relativistic Current Sheet of Pair Plasmas. Astrophysical Journal, 2007, 670, 702-726.	4.5	176
54	Relativistic Particle Acceleration in a Folded Current Sheet. Astrophysical Journal, 2005, 618, L111-L114.	4.5	52

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55	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
56	The Generation of Nonthermal Particles in the Relativistic Magnetic Reconnection of Pair Plasmas. Astrophysical Journal, 2001, 562, L63-L66.	4.5	262