

Yosuke Matsumoto

List of Publications by Year in descending order

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34
papers

911
citations

471509

17
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

887
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic electron acceleration during spontaneous turbulent reconnection in a strong shock wave. <i>Science</i> , 2015, 347, 974-978.	12.6	135
2	Onset of turbulence induced by a Kelvin-Helmholtz vortex. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	121
3	Turbulent mixing and transport of collisionless plasmas across a stratified velocity shear layer. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	77
4	Electron Surfing and Drift Accelerations in a Weibel-Dominated High-Mach-Number Shock. <i>Physical Review Letters</i> , 2017, 119, 105101.	7.8	63
5	ELECTRON ACCELERATIONS AT HIGH MACH NUMBER SHOCKS: TWO-DIMENSIONAL PARTICLE-IN-CELL SIMULATIONS IN VARIOUS PARAMETER REGIMES. <i>Astrophysical Journal</i> , 2012, 755, 109.	4.5	49
6	Persistence of Precursor Waves in Two-dimensional Relativistic Shocks. <i>Astrophysical Journal</i> , 2017, 840, 52.	4.5	42
7	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earth's Bow Shock. <i>Physical Review Letters</i> , 2020, 124, 065101.	7.8	42
8	Electron Acceleration in a Nonrelativistic Shock with Very High Alfvén Mach Number. <i>Physical Review Letters</i> , 2013, 111, 215003.	7.8	39
9	Formation of a sodium ring in Mercury's magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
10	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. III. Magnetic Reconnection. <i>Astrophysical Journal</i> , 2020, 893, 6.	4.5	26
11	Precursor Wave Emission Enhanced by Weibel Instability in Relativistic Shocks. <i>Astrophysical Journal</i> , 2018, 858, 93.	4.5	25
12	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. I. Electron Shock-surfing Acceleration. <i>Astrophysical Journal</i> , 2019, 878, 5.	4.5	24
13	Magnetohydrodynamic simulation code CANS+: Assessments and applications. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	23
14	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. II. Influence of Shock-surfing Acceleration on Downstream Electron Spectra. <i>Astrophysical Journal</i> , 2019, 885, 10.	4.5	21
15	Stability property of numerical Cherenkov radiation and its application to relativistic shock simulations. <i>Publication of the Astronomical Society of Japan</i> , 2015, 67, .	2.5	20
16	Magnetic Field Amplification by the Weibel Instability at Planetary and Astrophysical Shocks with High Mach Number. <i>Physical Review Letters</i> , 2021, 126, 095101.	7.8	20
17	Precursor Wave Amplification by Ion-Electron Coupling through Wakefield in Relativistic Shocks. <i>Astrophysical Journal Letters</i> , 2019, 883, L35.	8.3	18
18	Electron Acceleration at a High Beta and Low Mach Number Rippled Shock. <i>Journal of Physics: Conference Series</i> , 2015, 642, 012017.	0.4	17

#	ARTICLE	IF	CITATIONS
19	Kinetic Simulation of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. IV. Electron Heating. <i>Astrophysical Journal</i> , 2020, 904, 12.	4.5	16
20	Global Structure and Sodium Ion Dynamics in Mercury's Magnetosphere With the Offset Dipole. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,990.	2.4	15
21	A High-order Weighted Finite Difference Scheme with a Multistate Approximate Riemann Solver for Divergence-free Magnetohydrodynamic Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 14.	7.7	15
22	Mildly relativistic magnetized shocks in electron-ion plasmas II. Particle acceleration and heating. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 5065-5074.	4.4	14
23	Magnetic Field Saturation of the Ion Weibel Instability in Interpenetrating Relativistic Plasmas. <i>Astrophysical Journal Letters</i> , 2018, 860, L1.	8.3	13
24	Electron Acceleration at Rippled Low-mach-number Shocks in High-beta Collisionless Cosmic Plasmas. <i>Astrophysical Journal</i> , 2021, 919, 97.	4.5	12
25	Mildly relativistic magnetized shocks in electron-ion plasmas I. Electromagnetic shock structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4837-4849.	4.4	8
26	Implementation of the CIP algorithm to magnetohydrodynamic simulations. <i>Computer Physics Communications</i> , 2008, 179, 289-296.	7.5	7
27	Radiation Magnetohydrodynamic Simulations of Sub-Eddington Accretion Flows in AGNs: Origin of Soft X-Ray Excess and Rapid Time Variabilities. <i>Astrophysical Journal</i> , 2020, 902, 103.	4.5	6
28	Electron Acceleration at Rippled Low Mach Number Shocks in Merging Galaxy Clusters. , 2019, , .		4
29	Particle Acceleration by Pickup Process Upstream of Relativistic Shocks. <i>Astrophysical Journal</i> , 2022, 924, 108.	4.5	4
30	A finite volume formulation of the multi-moment advection scheme for Vlasov simulations of magnetized plasma. <i>Computer Physics Communications</i> , 2015, 187, 137-151.	7.5	3
31	A Proper Discretization of Hydrodynamic Equations in Cylindrical Coordinates for Astrophysical Simulations. <i>Astrophysical Journal</i> , 2021, 907, 43.	4.5	3
32	Evolution of Three-dimensional Relativistic Ion Weibel Instability: Competition with Kink Instability. <i>Astrophysical Journal</i> , 2019, 877, 137.	4.5	2
33	The Efficiency of Coherent Radiation from Relativistic Shocks. <i>Springer Series in Chemical Physics</i> , 2019, , 371-383.	0.2	0
34	On the Role of Plasma Flow Velocity Shear Instability in the Earth Magnetosphere. <i>Journal of Plasma and Fusion Research</i> , 2004, 80, 306-310.	0.4	0