

Yosuke Matsumoto

List of Publications by Year in descending order

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34
papers

911
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887
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Particle Acceleration by Pickup Process Upstream of Relativistic Shocks. <i>Astrophysical Journal</i> , 2022, 924, 108. | 4.5 | 4 |
| 2 | 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 |
| 3 | 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 |
| 4 | Electron Acceleration at Rippled Low-mach-number Shocks in High-beta Collisionless Cosmic Plasmas. <i>Astrophysical Journal</i> , 2021, 919, 97. | 4.5 | 12 |
| 5 | A Proper Discretization of Hydrodynamic Equations in Cylindrical Coordinates for Astrophysical Simulations. <i>Astrophysical Journal</i> , 2021, 907, 43. | 4.5 | 3 |
| 6 | 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 |
| 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 | Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. III. Magnetic Reconnection. <i>Astrophysical Journal</i> , 2020, 893, 6. | 4.5 | 26 |
| 9 | 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 |
| 10 | Kinetic Simulation of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. IV. Electron Heating. <i>Astrophysical Journal</i> , 2020, 904, 12. | 4.5 | 16 |
| 11 | Magnetohydrodynamic simulation code CANS+: Assessments and applications. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, . | 2.5 | 23 |
| 12 | 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 |
| 13 | 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 |
| 14 | The Efficiency of Coherent Radiation from Relativistic Shocks. <i>Springer Series in Chemical Physics</i> , 2019, , 371-383. | 0.2 | 0 |
| 15 | Evolution of Three-dimensional Relativistic Ion Weibel Instability: Competition with Kink Instability. <i>Astrophysical Journal</i> , 2019, 877, 137. | 4.5 | 2 |
| 16 | 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 |
| 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 Rippled Low Mach Number Shocks in Merging Galaxy Clusters. , 2019, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Precursor Wave Emission Enhanced by Weibel Instability in Relativistic Shocks. <i>Astrophysical Journal</i> , 2018, 858, 93. | 4.5 | 25 |
| 20 | Magnetic Field Saturation of the Ion Weibel Instability in Interpenetrating Relativistic Plasmas. <i>Astrophysical Journal Letters</i> , 2018, 860, L1. | 8.3 | 13 |
| 21 | Persistence of Precursor Waves in Two-dimensional Relativistic Shocks. <i>Astrophysical Journal</i> , 2017, 840, 52. | 4.5 | 42 |
| 22 | Electron Surfing and Drift Accelerations in a Weibel-Dominated High-Mach-Number Shock. <i>Physical Review Letters</i> , 2017, 119, 105101. | 7.8 | 63 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | Stochastic electron acceleration during spontaneous turbulent reconnection in a strong shock wave. <i>Science</i> , 2015, 347, 974-978. | 12.6 | 135 |
| 28 | Electron Acceleration in a Nonrelativistic Shock with Very High Alfvén Mach Number. <i>Physical Review Letters</i> , 2013, 111, 215003. | 7.8 | 39 |
| 29 | 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 |
| 30 | Formation of a sodium ring in Mercury's magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 27 |
| 31 | Implementation of the CIP algorithm to magnetohydrodynamic simulations. <i>Computer Physics Communications</i> , 2008, 179, 289-296. | 7.5 | 7 |
| 32 | Turbulent mixing and transport of collisionless plasmas across a stratified velocity shear layer. <i>Journal of Geophysical Research</i> , 2006, 111, . | 3.3 | 77 |
| 33 | Onset of turbulence induced by a Kelvin-Helmholtz vortex. <i>Geophysical Research Letters</i> , 2004, 31, . | 4.0 | 121 |
| 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 |