

Illya Plotnikov

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,250
citations

394421

19
h-index

552781

26
g-index

28
all docs

28
docs citations

28
times ranked

1676
citing authors

#	ARTICLE	IF	CITATIONS
1	The first widespread solar energetic particle event of solar cycle 25 on 2020 November 29. <i>Astronomy and Astrophysics</i> , 2022, 660, A84.	5.1	23
2	On the Origin of Hard X-Ray Emissions from the Behind-the-limb Flare on 2014 September 1. <i>Astrophysical Journal</i> , 2021, 909, 163.	4.5	4
3	Influence of Ionâ€œNeutral Damping on the Cosmic-Ray Streaming Instability: Magnetohydrodynamic Particle-in-cell Simulations. <i>Astrophysical Journal</i> , 2021, 914, 3.	4.5	17
4	Coherent Electromagnetic Emission from Relativistic Magnetized Shocks. <i>Physical Review Letters</i> , 2021, 127, 035101.	7.8	33
5	The cosmic ray-driven streaming instability in astrophysical and space plasmas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	20
6	Using PIC-MHD to model the interaction between an electron-positron beam and a thermal plasma. <i>Journal of Physics: Conference Series</i> , 2021, 2156, 012090.	0.4	0
7	Physics and Phenomenology of Weakly Magnetized, Relativistic Astrophysical Shock Waves. <i>Galaxies</i> , 2020, 8, 33.	3.0	20
8	Multi-scale simulations of particle acceleration in astrophysical systems. <i>Living Reviews in Solar Physics</i> , 2020, 6, 1.	11.4	45
9	Evidence for a Coronal Shock Wave Origin for Relativistic Protons Producing Solar Gamma-Rays and Observed by Neutron Monitors at Earth. <i>Astrophysical Journal</i> , 2020, 893, 76.	4.5	23
10	EUropean Heliospheric FORecasting Information Asset 2.0. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 57.	3.3	21
11	Connecting the Properties of Coronal Shock Waves with Those of Solar Energetic Particles. <i>Astrophysical Journal</i> , 2019, 876, 80.	4.5	67
12	Magnetohydrodynamic Particle-in-cell Simulations of the Cosmic-Ray Streaming Instability: Linear Growth and Quasi-linear Evolution. <i>Astrophysical Journal</i> , 2019, 876, 60.	4.5	41
13	The synchrotron maser emission from relativistic shocks in Fast Radio Bursts: 1D PIC simulations of cold pair plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 3816-3833.	4.4	77
14	Smilei : A collaborative, open-source, multi-purpose particle-in-cell code for plasma simulation. <i>Computer Physics Communications</i> , 2018, 222, 351-373.	7.5	282
15	Perpendicular relativistic shocks in magnetized pair plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 5238-5260.	4.4	36
16	Observational Evidence for the Associated Formation of Blobs and Raining Inflows in the Solar Corona. <i>Astrophysical Journal Letters</i> , 2017, 835, L7.	8.3	42
17	A propagation tool to connect remote-sensing observations with in-situ measurements of heliospheric structures. <i>Planetary and Space Science</i> , 2017, 147, 61-77.	1.7	19
18	The magnetic connectivity of coronal shocks from behind-the-limb flares to the visible solar surface during γ -ray events. <i>Astronomy and Astrophysics</i> , 2017, 608, A43.	5.1	46

#	ARTICLE	IF	CITATIONS
19	Long-Term Tracking of Corotating Density Structures Using Heliospheric Imaging. Solar Physics, 2016, 291, 1853-1875.	2.5	25
20	The very slow solar wind: Properties, origin and variability. Journal of Geophysical Research: Space Physics, 2016, 121, 2830-2841.	2.4	36
21	DERIVING THE PROPERTIES OF CORONAL PRESSURE FRONTS IN 3D: APPLICATION TO THE 2012 MAY 17 GROUND LEVEL ENHANCEMENT. Astrophysical Journal, 2016, 833, 45.	4.5	83
22	The microphysics of collisionless shock waves. Reports on Progress in Physics, 2016, 79, 046901.	20.1	185
23	A fast current-driven instability in relativistic collisionless shocks. Europhysics Letters, 2014, 106, 55001.	2.0	12
24	Current-driven filamentation upstream of magnetized relativistic collisionless shocks. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1365-1378.	4.4	18
25	COLLISIONLESS RELATIVISTIC SHOCKS: CURRENT DRIVEN TURBULENCE AND PARTICLE ACCELERATION. International Journal of Modern Physics Conference Series, 2014, 28, 1460193.	0.7	0
26	Particle transport and heating in the microturbulent precursor of relativistic shocks. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1280-1293.	4.4	38
27	Particle transport in intense small-scale magnetic turbulence with a mean field. Astronomy and Astrophysics, 2011, 532, A68.	5.1	36