

Illya Plotnikov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2429964/publications.pdf>

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	Smilei : A collaborative, open-source, multi-purpose particle-in-cell code for plasma simulation. Computer Physics Communications, 2018, 222, 351-373.	7.5	282
2	The microphysics of collisionless shock waves. Reports on Progress in Physics, 2016, 79, 046901.	20.1	185
3	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
4	The synchrotron maser emission from relativistic shocks in Fast Radio Bursts: 1D PIC simulations of cold pair plasmas. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3816-3833.	4.4	77
5	Connecting the Properties of Coronal Shock Waves with Those of Solar Energetic Particles. Astrophysical Journal, 2019, 876, 80.	4.5	67
6	The magnetic connectivity of coronal shocks from behind-the-limb flares to the visible solar surface during γ -ray events. Astronomy and Astrophysics, 2017, 608, A43.	5.1	46
7	Multi-scale simulations of particle acceleration in astrophysical systems. Living Reviews in Solar Physics, 2020, 6, 1.	11.4	45
8	Observational Evidence for the Associated Formation of Blobs and Raining Inflows in the Solar Corona. Astrophysical Journal Letters, 2017, 835, L7.	8.3	42
9	Magnetohydrodynamic Particle-in-cell Simulations of the Cosmic-Ray Streaming Instability: Linear Growth and Quasi-linear Evolution. Astrophysical Journal, 2019, 876, 60.	4.5	41
10	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
11	Particle transport in intense small-scale magnetic turbulence with a mean field. Astronomy and Astrophysics, 2011, 532, A68.	5.1	36
12	The very slow solar wind: Properties, origin and variability. Journal of Geophysical Research: Space Physics, 2016, 121, 2830-2841.	2.4	36
13	Perpendicular relativistic shocks in magnetized pair plasma. Monthly Notices of the Royal Astronomical Society, 2018, 477, 5238-5260.	4.4	36
14	Coherent Electromagnetic Emission from Relativistic Magnetized Shocks. Physical Review Letters, 2021, 127, 035101.	7.8	33
15	Long-Term Tracking of Corotating Density Structures Using Heliospheric Imaging. Solar Physics, 2016, 291, 1853-1875.	2.5	25
16	Evidence for a Coronal Shock Wave Origin for Relativistic Protons Producing Solar Gamma-Rays and Observed by Neutron Monitors at Earth. Astrophysical Journal, 2020, 893, 76.	4.5	23
17	The first widespread solar energetic particle event of solar cycle 25 on 2020 November 29. Astronomy and Astrophysics, 2022, 660, A84.	5.1	23
18	EUropean Heliospheric FORecasting Information Asset 2.0. Journal of Space Weather and Space Climate, 2020, 10, 57.	3.3	21

#	ARTICLE	IF	CITATIONS
19	Physics and Phenomenology of Weakly Magnetized, Relativistic Astrophysical Shock Waves. <i>Galaxies</i> , 2020, 8, 33.	3.0	20
20	The cosmic ray-driven streaming instability in astrophysical and space plasmas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	20
21	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
22	Current-driven filamentation upstream of magnetized relativistic collisionless shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1365-1378.	4.4	18
23	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
24	A fast current-driven instability in relativistic collisionless shocks. <i>Europhysics Letters</i> , 2014, 106, 55001.	2.0	12
25	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
26	COLLISIONLESS RELATIVISTIC SHOCKS: CURRENT DRIVEN TURBULENCE AND PARTICLE ACCELERATION. <i>International Journal of Modern Physics Conference Series</i> , 2014, 28, 1460193.	0.7	0
27	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