

Oreste Pezzi

List of Publications by Year in descending order

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39
papers

902
citations

430874

18
h-index

501196

28
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all docs

40
docs citations

40
times ranked

554
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. <i>Physical Review Letters</i> , 2019, 122, 035102.	7.8	62
2	Collisional Relaxation of Fine Velocity Structures in Plasmas. <i>Physical Review Letters</i> , 2016, 116, 145001.	7.8	58
3	Pathways to Dissipation in Weakly Collisional Plasmas. <i>Astrophysical Journal</i> , 2020, 891, 101.	4.5	56
4	Differential kinetic dynamics and heating of ions in the turbulent solar wind. <i>New Journal of Physics</i> , 2016, 18, 125001.	2.9	51
5	Colliding Alfvénic wave packets in magnetohydrodynamics, Hall and kinetic simulations. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	38
6	Velocity-space cascade in magnetized plasmas: Numerical simulations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	37
7	From Alfvén waves to kinetic Alfvén waves in an inhomogeneous equilibrium structure. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1024-1045.	2.4	33
8	REVISITING A CLASSIC: THE PARKER-MOFFATT PROBLEM. <i>Astrophysical Journal</i> , 2017, 834, 166.	4.5	32
9	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	32
10	Transition to kinetic turbulence at proton scales driven by large-amplitude kinetic Alfvén fluctuations. <i>Astronomy and Astrophysics</i> , 2017, 599, A8.	5.1	30
11	Local energy transfer rate and kinetic processes: the fate of turbulent energy in two-dimensional hybrid Vlasov-Maxwell numerical simulations. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	29
12	Current Sheets, Magnetic Islands, and Associated Particle Acceleration in the Solar Wind as Observed by Ulysses near the Ecliptic Plane. <i>Astrophysical Journal</i> , 2019, 881, 116.	4.5	29
13	Dissipation measures in weakly collisional plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4857-4873.	4.4	29
14	Novel aspects of cosmic ray diffusion in synthetic magnetic turbulence. <i>Physical Review D</i> , 2020, 102, .	4.7	26
15	Turbulence generation during the head-on collision of Alfvénic wave packets. <i>Physical Review E</i> , 2017, 96, 023201.	2.1	24
16	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	24
17	Energy conversion in turbulent weakly collisional plasmas: Eulerian hybrid Vlasov-Maxwell simulations. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	23
18	Coherent Events at Ion Scales in the Inner Heliosphere: Parker Solar Probe Observations during the First Encounter. <i>Astrophysical Journal</i> , 2020, 905, 142.	4.5	23

#	ARTICLE	IF	CITATIONS
19	Proton-Proton Collisions in the Turbulent Solar Wind: Hybrid Boltzmann-Maxwell Simulations. <i>Astrophysical Journal</i> , 2019, 887, 208.	4.5	20
20	Eulerian simulations of collisional effects on electrostatic plasma waves. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	18
21	Impact of Switchbacks on Turbulent Cascade and Energy Transfer Rate in the Inner Heliosphere. <i>Astrophysical Journal Letters</i> , 2021, 922, L11.	8.3	18
22	Collisional relaxation: Landau versus Dougherty operator. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	17
23	Collisional effects on the numerical recurrence in Vlasov-Poisson simulations. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	17
24	Solar wind collisional heating. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	17
25	Dynamical Effects of Cosmic Rays on the Medium Surrounding Their Sources. <i>Astrophysical Journal Letters</i> , 2021, 914, L13.	8.3	15
26	Relativistic Particle Transport and Acceleration in Structured Plasma Turbulence. <i>Astrophysical Journal</i> , 2022, 928, 25.	4.5	15
27	ViDA: a Vlasov-Darwin solver for plasma physics at electron scales. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	13
28	Kinetic entropy-based measures of distribution function non-Maxwellianity: theory and simulations. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	13
29	First Solar Orbiter observation of the Alfvénic slow wind and identification of its solar source. <i>Astronomy and Astrophysics</i> , 2021, 656, A21.	5.1	13
30	Kinetic ion-acoustic solitary waves in collisional plasmas. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	11
31	Nonlinear regime of electrostatic waves propagation in presence of electron-electron collisions. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	10
32	Slow electrostatic fluctuations generated by beam-plasma interaction. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
33	Exact hybrid Vlasov equilibria for sheared plasmas with in-plane and out-of-plane magnetic field. <i>Physical Review E</i> , 2018, 97, 053212.	2.1	9
34	Sign Singularity of the Local Energy Transfer in Space Plasma Turbulence. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	9
35	Kinetic Alfvén wave generation by velocity shear in collisionless plasmas. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	9
36	Fourier-Hermite decomposition of the collisional Vlasov-Maxwell system: implications for the velocity-space cascade. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 054005.	2.1	8

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37	Kelvinâ€™Helmholtz Instability at Proton Scales with an Exact Kinetic Equilibrium. <i>Astrophysical Journal</i> , 2020, 901, 17.	4.5	7
38	Cosmic-ray generated bubbles around their sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 233-244.	4.4	6
39	Spatiotemporal Pattern Formation in a Ring of Chuaâ€™s Oscillators. <i>Regular and Chaotic Dynamics</i> , 2021, 26, 717-731.	0.8	1