

Denise Perrone

List of Publications by Year in descending order

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55
papers

1,616
citations

279798

23
h-index

315739

38
g-index

55
all docs

55
docs citations

55
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	A kinetic model of plasma turbulence. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	136
2	COMPRESSIVE COHERENT STRUCTURES AT ION SCALES IN THE SLOW SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 826, 196.	4.5	81
3	PROTON KINETIC EFFECTS IN VLASOV AND SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2014, 781, L27.	8.3	80
4	VLASOV SIMULATIONS OF MULT-ION PLASMA TURBULENCE IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2013, 762, 99.	4.5	69
5	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	7.8	69
6	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
7	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. <i>Physical Review Letters</i> , 2019, 122, 035102.	7.8	62
8	Turbulence Heating Observer "satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	60
9	Coherent Structures at Ion Scales in Fast Solar Wind: Cluster Observations. <i>Astrophysical Journal</i> , 2017, 849, 49.	4.5	60
10	Hybrid Vlasov-Maxwell simulations of two-dimensional turbulence in plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	55
11	Differential kinetic dynamics and heating of ions in the turbulent solar wind. <i>New Journal of Physics</i> , 2016, 18, 125001.	2.9	51
12	Evolution of Solar Wind Turbulence from 0.1 to 1 au during the First Parker Solar Probe "Solar Orbiter Radial Alignment. <i>Astrophysical Journal Letters</i> , 2021, 912, L21.	8.3	49
13	Nonclassical Transport and Particle-Field Coupling: from Laboratory Plasmas to the Solar Wind. <i>Space Science Reviews</i> , 2013, 178, 233-270.	8.1	48
14	Radial evolution of the solar wind in pure high-speed streams: HELIOS revised observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 3730-3737.	4.4	42
15	SHORT-WAVELENGTH ELECTROSTATIC FLUCTUATIONS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2011, 739, 54.	4.5	41
16	New Ion-Wave Path in the Energy Cascade. <i>Physical Review Letters</i> , 2011, 106, 165002.	7.8	37
17	Velocity-space cascade in magnetized plasmas: Numerical simulations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	37
18	The origin of slow Alfvénic solar wind at solar minimum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 39-44.	4.4	30

#	ARTICLE	IF	CITATIONS
19	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
20	Dissipation measures in weakly collisional plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4857-4873.	4.4	29
21	Variability of the Magnetic Field Power Spectrum in the Solar Wind at Electron Scales. <i>Astrophysical Journal</i> , 2017, 850, 120.	4.5	26
22	Alpha particle thermodynamics in the inner heliosphere fast solar wind. <i>Astronomy and Astrophysics</i> , 2019, 623, L2.	5.1	25
23	Magnetospheric Multiscale Observation of Kinetic Signatures in the Alfvén Vortex. <i>Astrophysical Journal Letters</i> , 2019, 871, L22.	8.3	25
24	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiter-Parker Solar Probe Quadrature. <i>Astrophysical Journal Letters</i> , 2021, 920, L14.	8.3	25
25	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9396-9413.	2.4	24
26	Thermodynamics of pure fast solar wind: radial evolution of the temperature-speed relationship in the inner heliosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2380-2386.	4.4	23
27	Highly Alfvénic slow solar wind at 0.3 au during a solar minimum: Helios insights for Parker Solar Probe and Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2020, 633, A166.	5.1	23
28	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
29	Fluid simulations of plasma turbulence at ion scales: Comparison with Vlasov-Maxwell simulations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	22
30	On Alfvénic Slow Wind: A Journey From the Earth Back to the Sun. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028996.	2.4	21
31	Proton-Proton Collisions in the Turbulent Solar Wind: Hybrid Boltzmann-Maxwell Simulations. <i>Astrophysical Journal</i> , 2019, 887, 208.	4.5	20
32	Ion-Scale Kinetic Alfvén Turbulence: MMS Measurements of the Alfvén Ratio in the Magnetosheath. <i>Geophysical Research Letters</i> , 2018, 45, 7974-7984.	4.0	19
33	Observational Quantification of Three-dimensional Anisotropies and Scalings of Space Plasma Turbulence at Kinetic Scales. <i>Astrophysical Journal</i> , 2020, 898, 91.	4.5	19
34	Eulerian simulations of collisional effects on electrostatic plasma waves. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	18
35	THE ROLE OF ALPHA PARTICLES IN THE EVOLUTION OF THE SOLAR-WIND TURBULENCE TOWARD SHORT SPATIAL SCALES. <i>Astrophysical Journal</i> , 2011, 741, 43.	4.5	16
36	Analysis of intermittent heating in a multi-component turbulent plasma. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	16

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37	On the deviation from Maxwellian of the ion velocity distribution functions in the turbulent magnetosheath. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	15
38	On the Transmission of Turbulent Structures across the Earth's Bow Shock. <i>Astrophysical Journal</i> , 2022, 933, 167.	4.5	15
39	Generation of temperature anisotropy for alpha particle velocity distributions in solar wind at 0.3 AU: Vlasov simulations and Helios observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2400-2410.	2.4	14
40	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
41	Excitation of nonlinear electrostatic waves with phase velocity close to the ion-thermal speed. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 105017.	2.1	12
42	Magnetic reconnection as a mechanism to produce multiple thermal proton populations and beams locally in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A37.	5.1	12
43	Alfvénicity-related Long Recovery Phases of Geomagnetic Storms: A Space Weather Perspective. <i>Astrophysical Journal</i> , 2021, 916, 64.	4.5	10
44	Magnetohydrodynamic Turbulent Evolution of a Magnetic Cloud in the Outer Heliosphere. <i>Astrophysical Journal Letters</i> , 2020, 905, L12.	8.3	10
45	Wave-polarization Analysis of the Alfvénic Slow Solar Wind at Kinetic Scales. <i>Astrophysical Journal</i> , 2020, 897, 167.	4.5	8
46	Kelvin-Helmholtz Instability at Proton Scales with an Exact Kinetic Equilibrium. <i>Astrophysical Journal</i> , 2020, 901, 17.	4.5	7
47	Kinetic Features for the Identification of Kelvin-Helmholtz Vortices in In Situ Observations. <i>Astrophysical Journal</i> , 2021, 912, 154.	4.5	6
48	Solar wind Alfvénicity during solar cycle 23 and 24. <i>Astronomy and Astrophysics</i> , 2021, 654, A111.	5.1	5
49	A SHELL MODEL TURBULENT DYNAMO. <i>Astrophysical Journal</i> , 2011, 735, 73.	4.5	3
50	Local and global properties of energy transfer in models of plasma turbulence. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	3
51	Characterizing Satellite Path Through Kelvin-Helmholtz Instability Using a Mixing Parameter. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
52	Nature of Electrostatic Fluctuations in the Terrestrial Magnetosheath. <i>Astrophysical Journal</i> , 2021, 919, 75.	4.5	2
53	Detection Capability of Flux Ropes during the Solar Orbiter Mission. <i>Astrophysical Journal Letters</i> , 2020, 899, L25.	8.3	1
54	Editorial: Improving the Understanding of Kinetic Processes in Solar Wind and Magnetosphere: From CLUSTER to Magnetospheric Multiscale Mission. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	0

#	ARTICLE	IF	CITATIONS
55	Investigating Alfvénic Turbulence in Fast and Slow Solar Wind Streams. Universe, 2022, 8, 352.	2.5	0