Pierre-Louis Sulem

List of Publications by Year
in descending order

22 papers	489 citations	623734 14 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	371 citing authors

#	Article	IF	Citations
1	Inverse cascade and magnetic vortices in kinetic AlfvÃ©n-wave turbulence. Journal of Plasma Physics, 2021, 87, .	2.1	7
2	Fluid Energy Cascade Rate and Kinetic Damping: New Insight from 3D Landau-fluid Simulations. Astrophysical Journal, 2021, 923, 122.	4.5	4
3	A Hamiltonian gyrofluid model based on a quasi-static closure. Journal of Plasma Physics, 2020, 86, .	2.1	5
4	Modeling Imbalanced Collisionless AlfvÃ©n Wave Turbulence with Nonlinear Diffusion Equations. Astrophysical Journal Letters, 2020, 888, L7.	8.3	9
5	Imbalanced kinetic AlfvÃ©n wave turbulence: from weak turbulence theory to nonlinear diffusion models for the strong regime. Journal of Plasma Physics, 2019, 85, .	2.1	24
6	Gyrofluid modeling and phenomenology of low-β_e AlfvÃ©n wave turbulence. Physics of Plasmas, 2018, 25, .	1.9	29
7	A reduced Landau-gyrofluid model for magnetic reconnection driven by electron inertia. Journal of Plasma Physics, 2018, 84, .	2.1	11
8	Fluid simulations of plasma turbulence at ion scales: Comparison with Vlasov-Maxwell simulations. Physics of Plasmas, 2018, 25, .	1.9	22
9	Three-dimensional Simulations and Spacecraft Observations of Sub-ion Scale Turbulence in the Solar Wind: Influence of Landau Damping. Astrophysical Journal, 2017, 839, 122.	4.5	24
10	Electron-scale reduced fluid models with gyroviscous effects. Journal of Plasma Physics, 2017, 83, .	2.1	27
11	Reduced models accounting for parallel magnetic perturbations: gyrofluid and finite Larmor radiusâ€"Landau fluid approaches. Journal of Plasma Physics, 2016, 82, .	2.1	13
12	INFLUENCE OF THE NONLINEARITY PARAMETER ON THE SOLAR WIND SUB-ION MAGNETIC ENERGY SPECTRUM: FLRâ€"LANDAU FLUID SIMULATIONS. Astrophysical Journal, 2016, 818, 66.	4.5	28
13	A MODEL FOR THE NON-UNIVERSAL POWER LAW OF THE SOLAR WIND SUB-ION-SCALE MAGNETIC SPECTRUM. Astrophysical Journal Letters, 2015, 812, L37.	8.3	45
14	Landau fluid closures with nonlinear large-scale finite Larmor radius corrections for collisionless plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	29
15	Landau fluid closures with nonlinear large-scale finite Larmor radius corrections for collisionless plasmas â€" CORRIGENDUM. Journal of Plasma Physics, 2015, 81, .	2.1	2
16	Fluid simulations of ion scale plasmas with weakly distorted magnetic fields. European Physical Journal D, 2014, 68, 1.	1.3	28
17	POLARIZATION AND COMPRESSIBILITY OF OBLIQUE KINETIC ALFVÃ‰N WAVES. Astrophysical Journal, 2013, 766, 93.	4.5	27
18	Extending magnetohydrodynamics to the slow dynamics of collisionless plasmas. Physics of Plasmas, 2012, 19, .	1.9	32

#	Article	IF	Citations
19	On the mirror instability in the presence of electron temperature anisotropy. Physics of Plasmas, 2012, 19, 090701.	1.9	9
20	REDUCTION OF COMPRESSIBILITY AND PARALLEL TRANSFER BY LANDAU DAMPING IN TURBULENT MAGNETIZED PLASMAS. Astrophysical Journal, 2011, 743, 128.	4.5	19
21	Collisionless magnetohydrodynamics with gyrokinetic effects. Physics of Plasmas, 2007, 14, .	1.9	67
22	A fluid model with finite Larmor radius effects for mirror mode dynamics. Journal of Geophysical Research, 2006, 111, .	3.3	28