L-J Zheng

List of Publications by Year
in descending order

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69	525	687363 13	794594 19
papers	citations	h-index	g-index

74	74	74	364
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rotational Stabilization of Resistive Wall Modes by the Shear AlfvÃ©n Resonance. Physical Review Letters, 2005, 95, 255003.	7.8	53
2	AEGIS: An adaptive ideal-magnetohydrodynamics shooting code for axisymmetric plasma stability. Journal of Computational Physics, 2006, 211, 748-766.	3.8	29
3	Effect of rotation on ideal and resistive MHD modes. Nuclear Fusion, 1999, 39, 2107-2111.	3.5	26
4	Plasma compressibility induced toroidal AlfvÃ©n eigenmode. Physics of Plasmas, 1998, 5, 444-449.	1.9	21
5	Effect of toroidal rotation on the localized modes in low beta circular tokamaks. Physics of Plasmas, 1999, 6, 1217-1226.	1.9	21
6	Rotational stabilization of resistive wall modes in ITER advanced tokamak scenarios. Physics of Plasmas, 2010, 17, 056104.	1.9	20
7	Overview of results from the MST reversed field pinch experiment. Nuclear Fusion, 2015, 55, 104006.	3.5	16
8	Axisymmetric global AlfvÃ©n eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. Physics of Plasmas, 2017, 24, .	1.9	16
9	Edge-Localized Modes Explained as the Amplification of Scrape-Off-Layer Current Coupling. Physical Review Letters, 2008, 100, 115001.	7.8	15
10	Collisionless kinetic ballooning mode equation in the lowâ€frequency regime. Physics of Plasmas, 1994, 1, 3928-3935.	1.9	14
11	Numerical simulations of toroidal AlfvÃ©n instabilities excited by trapped energetic ions. Physics of Plasmas, 2000, 7, 2469-2476.	1.9	14
12	Revisiting linear gyrokinetics to recover ideal magnetohydrodynamics and missing finite Larmor radius effects. Physics of Plasmas, 2007, 14, 072505.	1.9	14
13	Wall thickness effect on the resistive wall mode stability in toroidal plasmas. Physics of Plasmas, 2005, 12, 072504.	1.9	13
14	Behavior of n = 1 magnetohydrodynamic modes of infernal type at high-mode pedestal with plasma rotation. Physics of Plasmas, 2013, 20, 012501.	1.9	13
15	Collisionless kinetic ballooning equations in the comparable frequency regime. Physics of Plasmas, 1994, 1, 2956-2962.	1.9	12
16	Quasiâ€helical magnetohydrodynamic equilibria in the presence of flow. Physics of Plasmas, 1996, 3, 2653-2663.	1.9	12
17	AEGIS-K code for linear kinetic analysis of toroidally axisymmetric plasma stability. Journal of Computational Physics, 2010, 229, 3605-3622.	3.8	12
18	Hamiltonian approach to the magnetostatic equilibrium problem. Physics of Plasmas, 1995, 2, 4499-4512.	1.9	11

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19	Canonical straight field line magnetic flux coordinates for tokamaks. Journal of Computational Physics, 2016, 326, 334-341.	3.8	11
20	Twoâ€fluid equations for lowâ€n singular modes in the lowâ€frequency regime. Physics of Fluids B, 1993, 5, 1962-1970.	1.7	10
21	Twoâ€fluid equations for singular modes with frequency comparable to the parallel ion acoustic frequency. Physics of Plasmas, 1994, 1, 1792-1801.	1.9	10
22	Suppression of error-field-induced magnetic islands by AlfvÃ©n resonance effect in rotating plasmas. Nuclear Fusion, 2009, 49, 075018.	3.5	8
23	Current-interchange tearing modes: Conversion of interchange-type modes to tearing modes. Physics of Plasmas, 2010, 17, 052508.	1.9	8
24	Destabilization of singular layer modes in the comparable frequency regime. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 194, 205-209.	2.1	7
25	Diamagnetic drift effects on the low-n magnetohydrodynamic modes at the high mode pedestal with plasma rotation. Physics of Plasmas, 2014, 21, 062502.	1.9	7
26	Computational analysis of ion orbital loss in diverted positive- and negative-triangularity tokamaks. Physics of Plasmas, 2020, 27, 012505.	1.9	7
27	A two-fluid modified sufficient stability criterion for the peeling mode. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 164, 424-428.	2.1	6
28	Stability criteria for edge flute modes in the twoâ€fluid regime. Physics of Fluids B, 1993, 5, 1402-1407.	1.7	6
29	Construction of Monte Carlo operators in collisional transport theory. Physics of Plasmas, 1994, 1, 951-959.	1.9	6
30	Collisional ballooning mode dispersion relation in the banana regime. Physics of Plasmas, 1995, 2, 3071-3080.	1.9	6
31	Toroidal rotation effect on the ballooning modes of low frequency under gyrokinetic description. Physics of Plasmas, 1998, 5, 1403-1409.	1.9	6
32	Shielding of the error field by a liquid metal wall in tokamaks. Nuclear Fusion, 2006, 46, L9-L12.	3.5	6
33	A numerical matching technique for linear resistive magnetohydrodynamics modes. Physics of Plasmas, 2010, 17, 052502.	1.9	6
34	Study of toroidal flow generation by ion cyclotron range of frequency minority heating in the Alcator C-Mod plasma. Physics of Plasmas, 2016, 23, 012501.	1.9	6
35	Frequency chirping in the AlfvÃ©n continuum. Nuclear Fusion, 2018, 58, 082014.	3.5	6
36	Energetic particle modified Mercier criterion. Physics of Fluids B, 1992, 4, 1416-1419.	1.7	5

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37	Monte Carlo approach to collisional transport. Physics of Plasmas, 1994, 1, 2603-2613.	1.9	5
38	The smallâ€parallelâ€ionâ€velocity effect on the ballooning modes with frequency lower than the magnetic drift one. Physics of Plasmas, 1995, 2, 1250-1258.	1.9	5
39	Probabilistic approach to Monte Carlo operators. Physics of Plasmas, 1994, 1, 2591-2602.	1.9	4
40	Kinetic effect on the magnetohydrodynamic modes with frequency comparable to the ion transit one. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 221, 209-214.	2.1	4
41	Collisional effect on the magnetohydrodynamic modes of low frequency. Physics of Plasmas, 1996, 3, 1029-1037.	1.9	4
42	Free-boundary toroidal AlfvÃ©n eigenmodes. Physics of Plasmas, 2011, 18, 052503.	1.9	4
43	The sensitivity of tokamak magnetohydrodynamics stability on the edge equilibrium. Physics of Plasmas, 2017, 24, .	1.9	4
44	Low-n global ideal MHD instabilities in the CFETR baseline scenario. Plasma Physics and Controlled Fusion, 2020, 62, 085016.	2.1	3
45	Energetic particle stabilization of the interchange mode in helically symmetric plasmas. Physics of Fluids B, 1992, 4, 3329-3335.	1.7	2
46	On the existence of weakly non-axisymmetric scalar-pressure magnetostatic equilibria. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 218, 304-311.	2.1	2
47	Kinetic analysis of the ion temperature gradient modes in toroidally rotating plasmas. Physics of Plasmas, 1996, 3, 4610-4619.	1.9	2
48	Kinetic analysis of the ballooning modes of comparable frequency regime in rotating plasmas. Physics of Plasmas, 1997, 4, 720-729.	1.9	2
49	Quasi-helical magnetohydrodynamic equilibria in the presence of flow. Rivista Del Nuovo Cimento, 1997, 20, 1-45.	5.7	2
50	Resonance of Static-Error-Field Amplification in Tokamak Plasmas. Physical Review Letters, 2006, 97, 165001.	7.8	2
51	Peeling-off of the external kink modes at tokamak plasma edge. Physics of Plasmas, 2014, 21, 082515.	1.9	2
52	Continuum absorption in the vicinity of the toroidicity-induced AlfvÃ©n gap. New Journal of Physics, 2015, 17, 125001.	2.9	2
53	Ideal magnetohydrodynamic theory for localized interchange modes in toroidal anisotropic plasmas. Physics of Plasmas, 2016, 23, .	1.9	2
54	Mercier criterion in tokamaks with anisotropic energetic particle component. Physics of Plasmas, 1994, 1, 636-642.	1.9	1

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55	Omnigenous transport barriers in MHD equilibria. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 222, 101-106.	2.1	1
56	Unified kinetic singular layer equation for converting the magnetohydrodynamic stability condition to a fully kinetic one. Physics of Plasmas, 1996, 3, 2546-2554.	1.9	1
57	Free boundary ballooning mode representation. Physics of Plasmas, 2012, 19, 102506.	1.9	1
58	AlfvÃ©n modes in the Madison Symmetric Torus. Physics of Plasmas, 2014, 21, 082505.	1.9	1
59	Simulation Study of Toroidal Flow Generation of Minority Ions by Local ICRF Heating. Journal of the Physical Society of Japan, 2015, 84, 123501.	1.6	1
60	Nonneutralized charge effects on tokamak edge magnetohydrodynamic stability. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2654-2657.	2.1	1
61	Numerical simulations of interchange/tearing instabilities in 2D slab with a numerical model for edge plasma. Physics of Plasmas, 2017, 24, .	1.9	1
62	Intermediate N mode stability in the negative triangularity tokamaks. Nuclear Fusion, 0, , .	3.5	1
63	Extended representation for ballooning modes in the presence of shear flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 202, 288-296.	2.1	0
64	Bifurcated states of the error-field-induced magnetic islands. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2056-2060.	2.1	0
65	Toroidal Flow Generation by the ICRF Minority Heating and RF Wave Field Profile Dependence. , 2011, , .		0
66	Nonlinearly driven harmonics of AlfvÃ©n modes. Physics of Plasmas, 2014, 21, 012114.	1.9	0
67	Perpendicular magnetofluid theory for magnetically confined plasmas in the collisionless limit. Physics of Plasmas, 2020, 27, 052503.	1.9	0
68	Coordinate transformation and construction of finite element mesh in a diverted tokamak geometry. Contributions To Plasma Physics, 2020, 60, e201900145.	1.1	0
69	ATEQ: Adaptive toroidal equilibrium code. Physics of Plasmas, 2022, 29, 072503.	1.9	0