

L-J Zheng

List of Publications by Year in descending order

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times ranked

364
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | ATEQ: Adaptive toroidal equilibrium code. <i>Physics of Plasmas</i> , 2022, 29, 072503. | 1.9 | 0 |
| 2 | Perpendicular magnetofluid theory for magnetically confined plasmas in the collisionless limit. <i>Physics of Plasmas</i> , 2020, 27, 052503. | 1.9 | 0 |
| 3 | Coordinate transformation and construction of finite element mesh in a diverted tokamak geometry. <i>Contributions To Plasma Physics</i> , 2020, 60, e201900145. | 1.1 | 0 |
| 4 | Computational analysis of ion orbital loss in diverted positive- and negative-triangularity tokamaks. <i>Physics of Plasmas</i> , 2020, 27, 012505. | 1.9 | 7 |
| 5 | Low- n global ideal MHD instabilities in the CFETR baseline scenario. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 085016. | 2.1 | 3 |
| 6 | Frequency chirping in the Alfvén continuum. <i>Nuclear Fusion</i> , 2018, 58, 082014. | 3.5 | 6 |
| 7 | Numerical simulations of interchange/tearing instabilities in 2D slab with a numerical model for edge plasma. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 1 |
| 8 | The sensitivity of tokamak magnetohydrodynamics stability on the edge equilibrium. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 4 |
| 9 | Axisymmetric global Alfvén eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 16 |
| 10 | Ideal magnetohydrodynamic theory for localized interchange modes in toroidal anisotropic plasmas. <i>Physics of Plasmas</i> , 2016, 23, . | 1.9 | 2 |
| 11 | Canonical straight field line magnetic flux coordinates for tokamaks. <i>Journal of Computational Physics</i> , 2016, 326, 334-341. | 3.8 | 11 |
| 12 | Study of toroidal flow generation by ion cyclotron range of frequency minority heating in the Alcator C-Mod plasma. <i>Physics of Plasmas</i> , 2016, 23, 012501. | 1.9 | 6 |
| 13 | Nonneutralized charge effects on tokamak edge magnetohydrodynamic stability. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2654-2657. | 2.1 | 1 |
| 14 | Simulation Study of Toroidal Flow Generation of Minority Ions by Local ICRF Heating. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 123501. | 1.6 | 1 |
| 15 | Continuum absorption in the vicinity of the toroidicity-induced Alfvén gap. <i>New Journal of Physics</i> , 2015, 17, 125001. | 2.9 | 2 |
| 16 | Overview of results from the MST reversed field pinch experiment. <i>Nuclear Fusion</i> , 2015, 55, 104006. | 3.5 | 16 |
| 17 | Peeling-off of the external kink modes at tokamak plasma edge. <i>Physics of Plasmas</i> , 2014, 21, 082515. | 1.9 | 2 |
| 18 | Diamagnetic drift effects on the low- n magnetohydrodynamic modes at the high mode pedestal with plasma rotation. <i>Physics of Plasmas</i> , 2014, 21, 062502. | 1.9 | 7 |

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|----|---|-----|-----------|
| 19 | Alfvén modes in the Madison Symmetric Torus. <i>Physics of Plasmas</i> , 2014, 21, 082505. | 1.9 | 1 |
| 20 | Nonlinearly driven harmonics of Alfvén modes. <i>Physics of Plasmas</i> , 2014, 21, 012114. | 1.9 | 0 |
| 21 | Behavior of $n = 1$ magnetohydrodynamic modes of infernal type at high-mode pedestal with plasma rotation. <i>Physics of Plasmas</i> , 2013, 20, 012501. | 1.9 | 13 |
| 22 | Free boundary ballooning mode representation. <i>Physics of Plasmas</i> , 2012, 19, 102506. | 1.9 | 1 |
| 23 | Toroidal Flow Generation by the ICRF Minority Heating and RF Wave Field Profile Dependence. , 2011, , . | | 0 |
| 24 | Free-boundary toroidal Alfvén eigenmodes. <i>Physics of Plasmas</i> , 2011, 18, 052503. | 1.9 | 4 |
| 25 | AEGIS-K code for linear kinetic analysis of toroidally axisymmetric plasma stability. <i>Journal of Computational Physics</i> , 2010, 229, 3605-3622. | 3.8 | 12 |
| 26 | Current-interchange tearing modes: Conversion of interchange-type modes to tearing modes. <i>Physics of Plasmas</i> , 2010, 17, 052508. | 1.9 | 8 |
| 27 | A numerical matching technique for linear resistive magnetohydrodynamics modes. <i>Physics of Plasmas</i> , 2010, 17, 052502. | 1.9 | 6 |
| 28 | Rotational stabilization of resistive wall modes in ITER advanced tokamak scenarios. <i>Physics of Plasmas</i> , 2010, 17, 056104. | 1.9 | 20 |
| 29 | Suppression of error-field-induced magnetic islands by Alfvén resonance effect in rotating plasmas. <i>Nuclear Fusion</i> , 2009, 49, 075018. | 3.5 | 8 |
| 30 | Bifurcated states of the error-field-induced magnetic islands. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2056-2060. | 2.1 | 0 |
| 31 | Edge-Localized Modes Explained as the Amplification of Scrape-Off-Layer Current Coupling. <i>Physical Review Letters</i> , 2008, 100, 115001. | 7.8 | 15 |
| 32 | Revisiting linear gyrokinetics to recover ideal magnetohydrodynamics and missing finite Larmor radius effects. <i>Physics of Plasmas</i> , 2007, 14, 072505. | 1.9 | 14 |
| 33 | Shielding of the error field by a liquid metal wall in tokamaks. <i>Nuclear Fusion</i> , 2006, 46, L9-L12. | 3.5 | 6 |
| 34 | AEGIS: An adaptive ideal-magnetohydrodynamics shooting code for axisymmetric plasma stability. <i>Journal of Computational Physics</i> , 2006, 211, 748-766. | 3.8 | 29 |
| 35 | Resonance of Static-Error-Field Amplification in Tokamak Plasmas. <i>Physical Review Letters</i> , 2006, 97, 165001. | 7.8 | 2 |
| 36 | Wall thickness effect on the resistive wall mode stability in toroidal plasmas. <i>Physics of Plasmas</i> , 2005, 12, 072504. | 1.9 | 13 |

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|----|--|-----|-----------|
| 37 | Rotational Stabilization of Resistive Wall Modes by the Shear Alfvén Resonance. <i>Physical Review Letters</i> , 2005, 95, 255003. | 7.8 | 53 |
| 38 | Numerical simulations of toroidal Alfvén instabilities excited by trapped energetic ions. <i>Physics of Plasmas</i> , 2000, 7, 2469-2476. | 1.9 | 14 |
| 39 | Effect of rotation on ideal and resistive MHD modes. <i>Nuclear Fusion</i> , 1999, 39, 2107-2111. | 3.5 | 26 |
| 40 | Effect of toroidal rotation on the localized modes in low beta circular tokamaks. <i>Physics of Plasmas</i> , 1999, 6, 1217-1226. | 1.9 | 21 |
| 41 | Plasma compressibility induced toroidal Alfvén eigenmode. <i>Physics of Plasmas</i> , 1998, 5, 444-449. | 1.9 | 21 |
| 42 | Toroidal rotation effect on the ballooning modes of low frequency under gyrokinetic description. <i>Physics of Plasmas</i> , 1998, 5, 1403-1409. | 1.9 | 6 |
| 43 | Kinetic analysis of the ballooning modes of comparable frequency regime in rotating plasmas. <i>Physics of Plasmas</i> , 1997, 4, 720-729. | 1.9 | 2 |
| 44 | Quasi-helical magnetohydrodynamic equilibria in the presence of flow. <i>Rivista Del Nuovo Cimento</i> , 1997, 20, 1-45. | 5.7 | 2 |
| 45 | On the existence of weakly non-axisymmetric scalar-pressure magnetostatic equilibria. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 218, 304-311. | 2.1 | 2 |
| 46 | Kinetic effect on the magnetohydrodynamic modes with frequency comparable to the ion transit one. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 221, 209-214. | 2.1 | 4 |
| 47 | Omnigenous transport barriers in MHD equilibria. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 222, 101-106. | 2.1 | 1 |
| 48 | Quasi-helical magnetohydrodynamic equilibria in the presence of flow. <i>Physics of Plasmas</i> , 1996, 3, 2653-2663. | 1.9 | 12 |
| 49 | Kinetic analysis of the ion temperature gradient modes in toroidally rotating plasmas. <i>Physics of Plasmas</i> , 1996, 3, 4610-4619. | 1.9 | 2 |
| 50 | Unified kinetic singular layer equation for converting the magnetohydrodynamic stability condition to a fully kinetic one. <i>Physics of Plasmas</i> , 1996, 3, 2546-2554. | 1.9 | 1 |
| 51 | Collisional effect on the magnetohydrodynamic modes of low frequency. <i>Physics of Plasmas</i> , 1996, 3, 1029-1037. | 1.9 | 4 |
| 52 | Hamiltonian approach to the magnetostatic equilibrium problem. <i>Physics of Plasmas</i> , 1995, 2, 4499-4512. | 1.9 | 11 |
| 53 | Extended representation for ballooning modes in the presence of shear flows. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 202, 288-296. | 2.1 | 0 |
| 54 | Collisional ballooning mode dispersion relation in the banana regime. <i>Physics of Plasmas</i> , 1995, 2, 3071-3080. | 1.9 | 6 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | Monte Carlo approach to collisional transport. Physics of Plasmas, 1994, 1, 2603-2613. | 1.9 | 5 |
| 57 | Collisionless kinetic ballooning mode equation in the lowâ€frequency regime. Physics of Plasmas, 1994, 1, 3928-3935. | 1.9 | 14 |
| 58 | 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 |
| 59 | Probabilistic approach to Monte Carlo operators. Physics of Plasmas, 1994, 1, 2591-2602. | 1.9 | 4 |
| 60 | Construction of Monte Carlo operators in collisional transport theory. Physics of Plasmas, 1994, 1, 951-959. | 1.9 | 6 |
| 61 | Mercier criterion in tokamaks with anisotropic energetic particle component. Physics of Plasmas, 1994, 1, 636-642. | 1.9 | 1 |
| 62 | 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 |
| 63 | Collisionless kinetic ballooning equations in the comparable frequency regime. Physics of Plasmas, 1994, 1, 2956-2962. | 1.9 | 12 |
| 64 | Stability criteria for edge flute modes in the twoâ€fluid regime. Physics of Fluids B, 1993, 5, 1402-1407. | 1.7 | 6 |
| 65 | Twoâ€fluid equations for lowâ€n singular modes in the lowâ€frequency regime. Physics of Fluids B, 1993, 5, 1962-1970. | 1.7 | 10 |
| 66 | Energetic particle modified Mercier criterion. Physics of Fluids B, 1992, 4, 1416-1419. | 1.7 | 5 |
| 67 | Energetic particle stabilization of the interchange mode in helically symmetric plasmas. Physics of Fluids B, 1992, 4, 3329-3335. | 1.7 | 2 |
| 68 | 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 |
| 69 | Intermediate N mode stability in the negative triangularity tokamaks. Nuclear Fusion, 0, , . | 3.5 | 1 |