

Lai Wei

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Unstable spectra of plane Poiseuille flow with a uniform magnetic field. Plasma Physics and Controlled Fusion, 2022, 64, 045022.	2.1	1
2	Prevention of electron cyclotron current drive triggering explosive bursts in reversed magnetic shear tokamak plasmas for disruption avoidance. Nuclear Fusion, 2022, 62, 056018.	3.5	7
3	A brief review: effects of resonant magnetic perturbation on classical and neoclassical tearing modes in tokamaks. Plasma Science and Technology, 2022, 24, 033001.	1.5	16
4	Role of the zonal flow in multi-scale multi-mode turbulence with small-scale shear flow in tokamak plasmas. Chinese Physics B, 2022, 31, 065207.	1.4	1
5	MHD Analysis on the Physics Design of CFETR Baseline Scenarios. Journal of Fusion Energy, 2022, 41, .	1.2	2
6	Features of resonant and non-resonant slab ion-temperature-gradient instabilities in weakly reversed magnetic shear configurations. Plasma Physics and Controlled Fusion, 2022, 64, 075008.	2.1	1
7	Role of secondary long wavelength fluctuation in nonlinear saturation of the kinetic ballooning mode in tokamak plasmas. Nuclear Fusion, 2022, 62, 096034.	3.5	2
8	Density scaling of error field penetration in radio-frequency-dominant heating plasmas in the EAST tokamak. Nuclear Fusion, 2021, 61, 056010.	3.5	5
9	Coriolis Force Effect on Suppression of Neo-Classical Tearing Mode Triggered Explosive Burst in Reversed Magnetic Shear Tokamak Plasmas. Chinese Physics Letters, 2021, 38, 045204.	3.3	7
10	Eigenmode characterizations of slab ion-temperature-gradient instabilities in various magnetic shear configurations. AIP Advances, 2021, 11, 055022.	1.3	0
11	Unstable spectra of the tearing modes in a triple current sheet configuration with sub-Alfvénic shear flows. Physics of Plasmas, 2020, 27, 012103.	1.9	3
12	Numerical simulation of neoclassical tearing modes induced by resonant magnetic perturbations in tokamak plasmas. Vacuum, 2020, 182, 109656.	3.5	1
13	Multi-scale multi-mode nonlinear interaction in tokamak plasma turbulence with moderate small-scale shear flow. Physics of Plasmas, 2020, 27, .	1.9	4
14	A fundamental understanding of the unstable eigenmodes of double tearing instabilities in a shear slab geometry. AIP Advances, 2020, 10, .	1.3	2
15	Control of neoclassical tearing mode by synergetic effects of resonant magnetic perturbation and electron cyclotron current drive in reversed magnetic shear tokamak plasmas. Nuclear Fusion, 2020, 60, 026015.	3.5	26
16	Global geodesic acoustic mode in an ideal magnetohydrodynamic tokamak plasma. Physics of Plasmas, 2020, 27, 042504.	1.9	5
17	Structure bifurcation induced by wide magnetic islands. Nuclear Fusion, 2020, 60, 056015.	3.5	7
18	Control of multi-helicity neo-classical tearing modes by electron cyclotron current drive in tokamak plasmas. Nuclear Fusion, 2020, 60, 106009.	3.5	5

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19	Suppressive effects of diamagnetic drift on neoclassical double tearing modes based on four-field reduced MHD model. <i>Physics of Plasmas</i> , 2020, 27, 012504.	1.9	1
20	Effects of diamagnetic drift on magnetohydrodynamic explosive bursts in reversed magnetic shear tokamak plasmas. <i>Nuclear Fusion</i> , 2019, 59, 096044.	3.5	8
21	Effects of resonant magnetic perturbation on locked mode of neoclassical tearing modes. <i>Plasma Science and Technology</i> , 2019, 21, 065103.	1.5	8
22	Basic features of the multiscale interaction between tearing modes and slab ion-temperature-gradient modes. <i>Chinese Physics B</i> , 2019, 28, 125203.	1.4	13
23	Suppression of explosive bursts triggered by neo-classical tearing mode in reversed magnetic shear tokamak plasmas via ECCD. <i>Nuclear Fusion</i> , 2018, 58, 076026.	3.5	16
24	Unstable spectra of double tearing modes with anti-symmetric shear flow. <i>Physics of Plasmas</i> , 2018, 25, 072119.	1.9	3
25	Control of neo-classical double tearing modes by differential poloidal rotation in reversed magnetic shear tokamak plasmas. <i>Nuclear Fusion</i> , 2017, 57, 046007.	3.5	22
26	Dynamics of the Plasmoid-unstable Regime in Different Multiple-current Plasmas. <i>Astrophysical Journal</i> , 2017, 835, 191.	4.5	12
27	On the threshold of magnetic island width in nonlinear mutual destabilization of tearing mode and ion temperature gradient mode. <i>Physics of Plasmas</i> , 2016, 23, 102508.	1.9	8
28	Dual roles of shear flow in nonlinear multi-scale interactions. <i>Nuclear Fusion</i> , 2016, 56, 016012.	3.5	15
29	Synchronization of Geodesic Acoustic Modes and Magnetic Fluctuations in Toroidal Plasmas. <i>Physical Review Letters</i> , 2016, 117, 145002.	7.8	22
30	FORMATION OF PLASMOIDS IN MULTIPLE CURRENT SYSTEMS. <i>Astrophysical Journal</i> , 2016, 821, 128.	4.5	15
31	Nonlinear evolution of multi-helicity neo-classical tearing modes in rotating tokamak plasmas. <i>Nuclear Fusion</i> , 2016, 56, 106015.	3.5	16
32	Intermittent bursts in ion-temperature-gradient turbulence. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	4
33	Plasmoid instability in double current sheets. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
34	Nonlinear evolution of neo-classical tearing modes in reversed magnetic shear tokamak plasmas. <i>Nuclear Fusion</i> , 2015, 55, 043005.	3.5	26
35	Penetration of resonant magnetic perturbations in a rotating tokamak plasma with neoclassical poloidal viscosity. <i>Physics of Plasmas</i> , 2015, 22, 092122.	1.9	6
36	Intermittent bursts induced by double tearing mode reconnection. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	17

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37	Nonlinear evolution of double tearing modes in tokamak plasmas via multiple helicity simulation. Nuclear Fusion, 2014, 54, 043015.	3.5	14
38	Roles of poloidal rotation in the $\langle i \rangle q \langle i \rangle = 1$ high-order harmonic tearing modes in a tokamak plasma. Physics of Plasmas, 2013, 20, .	1.9	16
39	Alfvén resonance induced by two types of $m/n = 2/2$ MHD instabilities in a rotating cylindrical plasma. Plasma Physics and Controlled Fusion, 2013, 55, 085004.	2.1	9
40	The q -profile effect on high-order harmonic $q = 1$ tearing mode generation during sawtooth crashes. Physics of Plasmas, 2012, 19, 062108.	1.9	14
41	Numerical study of collisionless $\langle i \rangle q \langle i \rangle = 1$ double tearing instability in a cylindrical plasma. Journal of Plasma Physics, 2012, 78, 663-672.	2.1	4
42	Compressibility effects on double tearing mode interlocking in differentially rotating plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 505-509.	2.1	7
43	Self-suppression of double tearing modes via Alfvén resonance in rotating tokamak plasmas. Physics of Plasmas, 2011, 18, .	1.9	34
44	A mode transition in self-suppressing double tearing modes via Alfvén resonance in rotating tokamak plasmas. Nuclear Fusion, 2011, 51, 123005.	3.5	27
45	Fast linear growth of collisionless double tearing modes in a cylindrical plasma. Nuclear Fusion, 2011, 51, 033003.	3.5	19
46	Scalings of strongly coupled collisionless $q = 2$ triple tearing modes in a tokamak plasma. Physics of Plasmas, 2011, 18, 042503.	1.9	14
47	Influence of low-Z impurity on the stabilization of $m/n = 2/1$ tearing/locked modes in EAST. Nuclear Fusion, 0, , .	3.5	4
48	Effects of plasma radiation on the nonlinear evolution of neo-classical tearing modes in tokamak plasmas. Plasma Science and Technology, 0, , .	1.5	3