Zhe Gao

List of Publications by Year
in descending order

		933447	839539
47	388	10	18
papers	citations	h-index	g-index

47	47	47	392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A dynamo effect of multiple tearing modes on Taylor relaxation. Physics of Plasmas, 2022, 29, 062505.	1.9	0
2	Evidence of Eâ€ˆÃ—â€ˆB staircase in HL-2A L-mode tokamak discharges. Physics of Plasmas, 2021, 28, .	1.9	8
3	Modular bolometric/soft x-ray diagnostic in Sino-UNIted Spherical Tokamak. Review of Scientific Instruments, 2021, 92, 043540.	1.3	3
4	Implementation and data processing of a five-channel microwave interferometer with high temporal resolution and low noise on Sino-UNIted Spherical Tokamak. Review of Scientific Instruments, 2021, 92, 043538.	1.3	5
5	SIMULATION AND MEASUREMENT OF EXTERNAL ELECTROMAGNETIC ENVIRONMENT OF TOKAMAK DEVICE. Radiation Protection Dosimetry, 2021, 194, 187-195.	0.8	1
6	Development of a thin high-frequency and high-precision magnetic probe array in Sino-United Spherical Tokamak. Review of Scientific Instruments, 2021, 92, 053518.	1.3	4
7	A dynamo effect of resistive tearing modes on current profile flattening. Physics of Plasmas, 2021, 28, 092502.	1.9	3
8	Toroidal modeling of anisotropic thermal transport and energetic particle effects on stability of resistive plasma resistive wall mode. Physics of Plasmas, 2020, 27, 072502.	1.9	4
9	Kinetic theory of parametric instabilities of lower hybrid waves in tokamaks in the electromagnetic framework. Physics of Plasmas, 2020, 27, .	1.9	4
10	Nonlinearity in parametric instabilities during the injection of lower hybrid waves into tokamak plasmas. Physics of Plasmas, 2019, 26, .	1.9	5
11	Kinetic Theory of Parallel Momentum Transport due to Collisionless Electromagnetic Turbulence in Slab Geometry. Journal of the Physical Society of Japan, 2019, 88, 084501.	1.6	0
12	Radiation diagnostics for plasma current ramp-up and ramp-down research. Review of Scientific Instruments, 2018, 89, 10D128.	1.3	2
13	Development of a triple probe array for mode conversion study of electron cyclotron wave. Review of Scientific Instruments, 2018, 89, 10J121.	1.3	0
14	A low noise power supply based on buck converter for current regulation in an inductive load. Review of Scientific Instruments, 2018, 89, 10K115.	1.3	1
15	Destabilization of resistive plasma resistive wall mode by anisotropic thermal transport. Physics of Plasmas, 2018, 25, .	1.9	7
16	Isotopic effect of parametric instabilities during lower hybrid waves injection into hydrogen/deuterium plasmas. Physics of Plasmas, 2017, 24, 014504.	1.9	0
17	The effects of oblique incidences on the XB mode conversion in the electron cyclotron range of frequency. Physics of Plasmas, 2017, 24, .	1.9	1
18	Effect of anisotropic thermal transport on the resistive plasma response to resonant magnetic perturbation field. Physics of Plasmas, 2017, 24, 102505.	1.9	9

#	Article	IF	Citations
19	Experimental measurements of energy transfer and nonlinear interaction in turbulence at the sino-united spherical tokamak. Physics of Plasmas, 2017, 24, 032503.	1.9	5
20	An ultrafast reciprocating probe. Review of Scientific Instruments, 2016, 87, 11D437.	1.3	6
21	Observation of toroidal AlfvÃ©n eigenmodes during minor disruptions in ohmic plasmas. Physics of Plasmas, 2016, 23, .	1.9	9
22	Compact magnetic confinement fusion: Spherical torus and compact torus. Matter and Radiation at Extremes, 2016, 1, 153-162.	3.9	12
23	Compact, battery powered, wireless digitizers for in situ data acquisitions in the sino-united spherical tokamak. Review of Scientific Instruments, 2015, 86, 073504.	1.3	1
24	Tokamak Plasma Flows Induced by Local RF Forces. Plasma Science and Technology, 2015, 17, 809-816.	1.5	2
25	Time-frequency analysis of non-stationary fusion plasma signals using an improved Hilbert-Huang transform. Review of Scientific Instruments, 2014, 85, 073502.	1.3	11
26	Local nonlinear rf forces in inhomogeneous magnetized plasmas. Physics of Plasmas, 2014, 21, 062506.	1.9	7
27	Design and calibration of high-frequency magnetic probes for the SUNIST spherical tokamak. Review of Scientific Instruments, 2014, 85, 11E802.	1.3	8
28	Movable multi-probes for plasma boundary measurement in sino-united spherical tokamak. Review of Scientific Instruments, 2014, 85, 11D804.	1.3	3
29	Parallel rf Force Driven by the Inhomogeneity of Power Absorption in Magnetized Plasma. Physical Review Letters, 2013, 110, 235004.	7.8	8
30	Second-order radio frequency kinetic theory revisited: Resolving inconsistency with conventional fluid theory. Physics of Plasmas, 2013, 20, 082508.	1.9	4
31	Convective amplification of a three-wave parametric instability in inhomogeneous plasma. Physics of Plasmas, 2013, 20, .	1.9	2
32	Parameter study of parametric instabilities during lower hybrid wave injection into tokamaks. Nuclear Fusion, 2013, 53, 083015.	3.5	15
33	Effects of electron temperature and electron flow on O-X conversion. Physics of Plasmas, 2013, 20, 102509.	1.9	0
34	Effect of electron flow on the ordinary-extraordinary mode conversion. Physics of Plasmas, 2011, 18, .	1.9	1
35	Radial electric field generated by resonant trapped electron pinch with radio frequency injection in a tokamak plasma. Physics of Plasmas, 2011, 18, 082507.	1.9	10
36	Double tearing mode induced by parallel electron viscosity in tokamak plasmas. Physics of Plasmas, 2010, 17, .	1.9	22

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37	Ion temperature gradient driven instability in high beta plasmas of a sheared slab. Physics of Plasmas, 2009, 16, .	1.9	5
38	Eigenmode analysis of geodesic acoustic modes. Physics of Plasmas, 2008, 15, .	1.9	97
39	Plasma shaping effects on the geodesic acoustic mode in toroidally axisymmetric plasmas. Physics of Plasmas, 2008, 15, .	1.9	28
40	Nonlinear nonresonant forces by radio-frequency waves in plasmas. Physics of Plasmas, 2007, 14, .	1.9	13
41	Nonlinear ponderomotive force by low frequency waves and nonresonant current drive. Physics of Plasmas, 2006, 13, 112307.	1.9	18
42	Critical gradients for short wavelength ion temperature gradient instability in toroidal plasmas. Journal of Plasma Physics, 2006, 72, 1249.	2.1	3
43	Effects of flow shear on the ion temperature gradient modes in a high Î² plasma slab. Physics of Plasmas, 2003, 10, 774-781.	1.9	6
44	Analysis of ion temperature gradient modes in high Î² plasmas with sheared slab configuration model. Physics of Plasmas, 2002, 9, 569-575.	1.9	10
45	Electromagnetic ion temperature gradient modes of tearing mode parity in high Î² sheared slab plasmas. Physics of Plasmas, 2002, 9, 1692-1697.	1.9	9
46	Study of electromagnetic instabilities driven by ion temperature gradient and parallel sheared flows in high-Î² plasmas. Physics of Plasmas, 2001, 8, 4080-4089.	1.9	6
47	Effects of Î² and Te/Ti on the ion temperature gradient modes in anisothermal plasmas. Physics of Plasmas, 2001, 8, 2816-2823.	1.9	10