

Zhe Gao

List of Publications by Year in descending order

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47
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all docs

47
docs citations

47
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Eigenmode analysis of geodesic acoustic modes. Physics of Plasmas, 2008, 15, .	1.9	97
2	Plasma shaping effects on the geodesic acoustic mode in toroidally axisymmetric plasmas. Physics of Plasmas, 2008, 15, .	1.9	28
3	Double tearing mode induced by parallel electron viscosity in tokamak plasmas. Physics of Plasmas, 2010, 17, .	1.9	22
4	Nonlinear ponderomotive force by low frequency waves and nonresonant current drive. Physics of Plasmas, 2006, 13, 112307.	1.9	18
5	Parameter study of parametric instabilities during lower hybrid wave injection into tokamaks. Nuclear Fusion, 2013, 53, 083015.	3.5	15
6	Nonlinear nonresonant forces by radio-frequency waves in plasmas. Physics of Plasmas, 2007, 14, .	1.9	13
7	Compact magnetic confinement fusion: Spherical torus and compact torus. Matter and Radiation at Extremes, 2016, 1, 153-162.	3.9	12
8	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
9	Effects of \hat{I}^2 and T_e/T_i on the ion temperature gradient modes in anisothermal plasmas. Physics of Plasmas, 2001, 8, 2816-2823.	1.9	10
10	Analysis of ion temperature gradient modes in high \hat{I}^2 plasmas with sheared slab configuration model. Physics of Plasmas, 2002, 9, 569-575.	1.9	10
11	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
12	Electromagnetic ion temperature gradient modes of tearing mode parity in high \hat{I}^2 sheared slab plasmas. Physics of Plasmas, 2002, 9, 1692-1697.	1.9	9
13	Observation of toroidal Alfvén eigenmodes during minor disruptions in ohmic plasmas. Physics of Plasmas, 2016, 23, .	1.9	9
14	Effect of anisotropic thermal transport on the resistive plasma response to resonant magnetic perturbation field. Physics of Plasmas, 2017, 24, 102505.	1.9	9
15	Parallel rf Force Driven by the Inhomogeneity of Power Absorption in Magnetized Plasma. Physical Review Letters, 2013, 110, 235004.	7.8	8
16	Design and calibration of high-frequency magnetic probes for the SUNIST spherical tokamak. Review of Scientific Instruments, 2014, 85, 11E802.	1.3	8
17	Evidence of $\langle i \rangle E \langle i \rangle \hat{A} \langle b \rangle \hat{A} - \langle b \rangle \hat{A} \langle i \rangle B \langle i \rangle$ staircase in HL-2A L-mode tokamak discharges. Physics of Plasmas, 2021, 28, .	1.9	8
18	Local nonlinear rf forces in inhomogeneous magnetized plasmas. Physics of Plasmas, 2014, 21, 062506.	1.9	7

#	ARTICLE	IF	CITATIONS
19	Destabilization of resistive plasma resistive wall mode by anisotropic thermal transport. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
20	Study of electromagnetic instabilities driven by ion temperature gradient and parallel sheared flows in high- \hat{I}^2 plasmas. <i>Physics of Plasmas</i> , 2001, 8, 4080-4089.	1.9	6
21	Effects of flow shear on the ion temperature gradient modes in a high \hat{I}^2 plasma slab. <i>Physics of Plasmas</i> , 2003, 10, 774-781.	1.9	6
22	An ultrafast reciprocating probe. <i>Review of Scientific Instruments</i> , 2016, 87, 11D437.	1.3	6
23	Ion temperature gradient driven instability in high beta plasmas of a sheared slab. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	5
24	Experimental measurements of energy transfer and nonlinear interaction in turbulence at the sino-united spherical tokamak. <i>Physics of Plasmas</i> , 2017, 24, 032503.	1.9	5
25	Nonlinearity in parametric instabilities during the injection of lower hybrid waves into tokamak plasmas. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	5
26	Implementation and data processing of a five-channel microwave interferometer with high temporal resolution and low noise on Sino-UNited Spherical Tokamak. <i>Review of Scientific Instruments</i> , 2021, 92, 043538.	1.3	5
27	Second-order radio frequency kinetic theory revisited: Resolving inconsistency with conventional fluid theory. <i>Physics of Plasmas</i> , 2013, 20, 082508.	1.9	4
28	Toroidal modeling of anisotropic thermal transport and energetic particle effects on stability of resistive plasma resistive wall mode. <i>Physics of Plasmas</i> , 2020, 27, 072502.	1.9	4
29	Kinetic theory of parametric instabilities of lower hybrid waves in tokamaks in the electromagnetic framework. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	4
30	Development of a thin high-frequency and high-precision magnetic probe array in Sino-United Spherical Tokamak. <i>Review of Scientific Instruments</i> , 2021, 92, 053518.	1.3	4
31	Critical gradients for short wavelength ion temperature gradient instability in toroidal plasmas. <i>Journal of Plasma Physics</i> , 2006, 72, 1249.	2.1	3
32	Movable multi-probes for plasma boundary measurement in sino-united spherical tokamak. <i>Review of Scientific Instruments</i> , 2014, 85, 11D804.	1.3	3
33	Modular bolometric/soft x-ray diagnostic in Sino-UNited Spherical Tokamak. <i>Review of Scientific Instruments</i> , 2021, 92, 043540.	1.3	3
34	A dynamo effect of resistive tearing modes on current profile flattening. <i>Physics of Plasmas</i> , 2021, 28, 092502.	1.9	3
35	Convective amplification of a three-wave parametric instability in inhomogeneous plasma. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	2
36	Tokamak Plasma Flows Induced by Local RF Forces. <i>Plasma Science and Technology</i> , 2015, 17, 809-816.	1.5	2

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37	Radiation diagnostics for plasma current ramp-up and ramp-down research. Review of Scientific Instruments, 2018, 89, 10D128.	1.3	2
38	Effect of electron flow on the ordinary-extraordinary mode conversion. Physics of Plasmas, 2011, 18, .	1.9	1
39	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
40	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
41	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
42	SIMULATION AND MEASUREMENT OF EXTERNAL ELECTROMAGNETIC ENVIRONMENT OF TOKAMAK DEVICE. Radiation Protection Dosimetry, 2021, 194, 187-195.	0.8	1
43	Effects of electron temperature and electron flow on O-X conversion. Physics of Plasmas, 2013, 20, 102509.	1.9	0
44	Isotopic effect of parametric instabilities during lower hybrid waves injection into hydrogen/deuterium plasmas. Physics of Plasmas, 2017, 24, 014504.	1.9	0
45	Development of a triple probe array for mode conversion study of electron cyclotron wave. Review of Scientific Instruments, 2018, 89, 10J121.	1.3	0
46	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
47	A dynamo effect of multiple tearing modes on Taylor relaxation. Physics of Plasmas, 2022, 29, 062505.	1.9	0