

Saikat Chakraborty Thakur

List of Publications by Year in descending order

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papers

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docs citations

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497
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency-Resolved Nonlinear Turbulent Energy Transfer into Zonal Flows in Strongly Heated L -Mode Plasmas in the HL-2A Tokamak. Physical Review Letters, 2012, 108, 245001.	7.8	82
2	Multi-instability plasma dynamics during the route to fully developed turbulence in a helicon plasma. Plasma Sources Science and Technology, 2014, 23, 044006.	3.1	57
3	Nonlinear energy transfer during the transition to drift-interchange turbulence. Plasma Physics and Controlled Fusion, 2011, 53, 095001.	2.1	41
4	Spatial redistribution of turbulent and mean kinetic energy. Physics of Plasmas, 2012, 19, .	1.9	38
5	Suppression of drift wave turbulence and zonal flow formation by changing axial boundary conditions in a cylindrical magnetized plasma device. Physics of Plasmas, 2013, 20, 012304.	1.9	30
6	Formation of the Blue Core in Argon Helicon Plasma. IEEE Transactions on Plasma Science, 2015, 43, 2754-2759.	1.3	30
7	Laser induced fluorescence measurements of ion velocity and temperature of drift turbulence driven sheared plasma flow in a linear helicon plasma device. Physics of Plasmas, 2012, 19, .	1.9	29
8	Direct extraction of coherent mode properties from imaging measurements in a linear plasma column. Physics of Plasmas, 2013, 20, .	1.9	25
9	On physical interpretation of two dimensional time-correlations regarding time delay velocities and eddy shaping. Physics of Plasmas, 2012, 19, .	1.9	24
10	Spontaneous profile self-organization in a simple realization of drift-wave turbulence. Physics of Plasmas, 2016, 23, .	1.9	24
11	Comparison of gridded energy analyzer and laser induced fluorescence measurements of a two-component ion distribution. Review of Scientific Instruments, 2008, 79, 10F314.	1.3	23
12	Plasma Blob Generation due to Cooperative Elliptic Instability. Physical Review Letters, 2011, 107, 195004.	7.8	21
13	The hot hELicon eXperiment (HELIX) and the large experiment on instabilities and anisotropy (LEIA). Journal of Plasma Physics, 2015, 81, .	2.1	19
14	Effect of parallel currents on drift-interchange turbulence: Comparison of simulation and experiment. Physics of Plasmas, 2012, 19, .	1.9	18
15	Comparison of azimuthal ion velocity profiles using Mach probes, time delay estimation, and laser induced fluorescence in a linear plasma device. Review of Scientific Instruments, 2012, 83, 10D708.	1.3	18
16	Up-gradient particle flux in a drift wave-zonal flow system. Physics of Plasmas, 2015, 22, .	1.9	18
17	Development of core ion temperature gradients and edge sheared flows in a helicon plasma device investigated by laser induced fluorescence measurements. Physics of Plasmas, 2016, 23, .	1.9	17
18	Overestimation of Mach number due to probe shadow. Physics of Plasmas, 2016, 23, 073519.	1.9	14

#	ARTICLE	IF	CITATIONS
19	Simultaneous use of camera and probe diagnostics to unambiguously identify and study the dynamics of multiple underlying instabilities during the route to plasma turbulence. Review of Scientific Instruments, 2014, 85, 11E813.	1.3	13
20	PISCES-RF: a liquid-cooled high-power steady-state helicon plasma device. Plasma Sources Science and Technology, 2021, 30, 055014.	3.1	13
21	Validation study of a drift-wave turbulence model for CSDX linear plasma device. Physics of Plasmas, 2017, 24, 092310.	1.9	12
22	Tracing the Pathway from Drift-Wave Turbulence with Broken Symmetry to the Production of Sheared Axial Mean Flow. Physical Review Letters, 2018, 120, 205001.	7.8	12
23	Uncertainty and predictability in population dynamics of a bitrophic ecological model: Mixed-mode oscillations, bistability and sensitivity to parameters. Ecological Complexity, 2017, 32, 196-208.	2.9	10
24	Comparison of probe and narrow-band imaging measurements in a magnetized cylindrical plasma. Physics of Plasmas, 2019, 26, 023502.	1.9	9
25	Testing and analysis of steady-state helicon plasma source for the Material Plasma Exposure eXperiment (MPEX). Fusion Engineering and Design, 2020, 160, 112001.	1.9	9
26	Spatiotemporal Splitting of Global Eigenmodes due to Cross-Field Coupling via Vortex Dynamics in Drift Wave Turbulence. Physical Review Letters, 2014, 113, 265001.	7.8	8
27	Understanding the impact of insulating and conducting endplate boundary conditions on turbulence in CSDX through nonlocal simulations. Physics of Plasmas, 2017, 24, .	1.9	8
28	Hydronitrogen Molecular Assisted Recombination (HN-MAR) process in ammonia seeded deuterium plasmas. Nuclear Materials and Energy, 2019, 19, 390-396.	1.3	8
29	Measurements of neutral helium density in helicon plasmas. Review of Scientific Instruments, 2010, 81, 10D704.	1.3	7
30	Investigating flow patterns and related dynamics in multi-instability turbulent plasmas using a three-point cross-phase time delay estimation velocimetry scheme. Physics of Plasmas, 2016, 23, .	1.9	5
31	Generation of parasitic axial flow by drift wave turbulence with broken symmetry: Theory and experiment. Physics of Plasmas, 2018, 25, 055710.	1.9	5
32	Laser induced fluorescence measurements of axial velocity, velocity shear, and parallel ion temperature profiles during the route to plasma turbulence in a linear magnetized plasma device. Review of Scientific Instruments, 2016, 87, 11E513.	1.3	4
33	Ion heating in the PISCES-RF liquid-cooled high-power, steady-state, helicon plasma device. Plasma Sources Science and Technology, 2021, 30, 065010.	3.1	3
34	Experimental observations of multiple modes of filamentary structures in the magnetized dusty plasma experiment (MDPX) device. Physics of Plasmas, 2022, 29, .	1.9	3
35	Dissociative recombination process of ammonium for HN-MAR in high density D-N plasmas. Physics of Plasmas, 2018, 25, 123510.	1.9	2
36	Simultaneous measurements of turbulent Reynolds stresses and particle flux in both parallel and perpendicular directions in a linear magnetized plasma device. Review of Scientific Instruments, 2018, 89, 10J117.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Compact, portable, laser induced fluorescence diagnostic for laboratory plasma sources. Review of Scientific Instruments, 2021, 92, 013502.	1.3	2
38	A magneto-optic probe for magnetic fluctuation measurements. Review of Scientific Instruments, 2009, 80, 103502.	1.3	1
39	Using Dusty Plasmas to Probe Pattern Formation at High Magnetic Fields in the Magnetized Dusty Plasma Experiment (MDPX) Device. , 2022, , .		0