

# Hogun Jhang

## List of Publications by Year in descending order

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45  
papers

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docs citations

45  
times ranked

425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of E $\times$ B flow shear by finite orbit width effects from heat sources in tokamaks. Nuclear Fusion, 2022, 62, 036010.	3.5	2
2	Phase synchronization versus modulational instability for zonal flow generation and pattern formation. Nuclear Fusion, 2022, 62, 076037.	3.5	2
3	Effects of light impurities on zonal flow activities and turbulent thermal transport. Physics of Plasmas, 2022, 29, .	1.9	6
4	An extended slowing down distribution function of alpha particles with non-uniform ion and electron temperature. Physics of Plasmas, 2021, 28, .	1.9	2
5	Role of the pedestal current on the stability of non-ideal ballooning modes. Physics of Plasmas, 2021, 28, 112508.	1.9	0
6	Nonlinear oscillations of geodesic acoustic modes due to E $\times$ B convection in edge pedestal. Physics of Plasmas, 2020, 27, 092307.	1.9	0
7	Vorticity generation by finite Larmor radius effects from heat source and sink. Physics of Plasmas, 2020, 27, 112302.	1.9	4
8	A conservative gyrofluid model: Effect of closure on energetics. Physics of Plasmas, 2020, 27, .	1.9	4
9	Nonlinear energy transfer from low frequency electromagnetic fluctuations to broadband turbulence during edge localized mode crashes. Nuclear Fusion, 2020, 60, 124002.	3.5	7
10	Resonant magnetic perturbation-mediated nonlinear interaction and its impact on magnetic field stochasticization in pedestal collapse simulations. Nuclear Fusion, 2019, 59, 096019.	3.5	3
11	Experimental observation of the non-diffusive avalanche-like electron heat transport events and their dynamical interaction with the shear flow structure. Nuclear Fusion, 2019, 59, 086027.	3.5	24
12	Role of parallel compression in potential vorticity mixing and zonal flow generation: a gyrokinetic simulation study. Nuclear Fusion, 2019, 59, 044002.	3.5	4
13	Turbulence characteristics, energy equipartition, and zonal flow generation in coupled drift wave-parallel velocity gradient driven turbulence. Plasma Physics and Controlled Fusion, 2019, 61, 065002.	2.1	7
14	Flux-driven nonlinear fluid simulations of ion thermal confinement change by external torque. Physics of Plasmas, 2019, 26, 112501.	1.9	0
15	Excitation of high wavenumber fluctuations by externally-imposed helical fields in edge pedestal plasmas. Physics of Plasmas, 2018, 25, 032502.	1.9	2
16	Symmetry breaking induced by the parity change in global electromagnetic ion temperature gradient modes. Physics of Plasmas, 2018, 25, .	1.9	5
17	Enhanced fast ion prompt loss due to resonant magnetic perturbations in KSTAR. Physics of Plasmas, 2018, 25, .	1.9	19
18	Non-ideal effects on ballooning mode stability in the presence of resonant magnetic perturbations. Physics of Plasmas, 2018, 25, .	1.9	7

#	ARTICLE	IF	CITATIONS
19	Derivation of the threshold condition for the ion temperature gradient mode with an inverted density profile from a simple physics picture. <i>Physics of Plasmas</i> , 2018, 25, 054501.	1.9	1
20	Evolution of magnetic Kubo number of stochastic magnetic fields during the edge pedestal collapse simulation. <i>Physics of Plasmas</i> , 2018, 25, 082306.	1.9	3
21	A model for generation of high wavenumber fluctuations by external magnetic field perturbations in edge pedestal plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	5
22	Impact of zonal flows on edge pedestal collapse. <i>Nuclear Fusion</i> , 2017, 57, 022006.	3.5	11
23	Summary of the 6th asia-pacific transport working group (APTWG) meeting. <i>Nuclear Fusion</i> , 2017, 57, 087002.	3.5	1
24	A refined understanding of compressibility effects on the stability of drift ballooning modes. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6
25	A characterization of the inertial range in forced-damped Hasegawa-Mima turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	2
26	Properties of ion temperature gradient and trapped electron modes in tokamak plasmas with inverted density profiles. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
27	An analytic model for limiting high density LH transition by the onset of the tertiary instability. <i>Physics of Plasmas</i> , 2016, 23, 074505.	1.9	3
28	Effects of resistivity on linear plasma responses to resonant magnetic perturbations in tokamak plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	10
29	Enhancement of residual stress by electromagnetic fluctuations: A quasi-linear study. <i>Physics of Plasmas</i> , 2016, 23, 052501.	1.9	8
30	Characteristics of toroidal rotation and ion temperature pedestals between ELM bursts in KSTAR H-mode plasmas. <i>Physics of Plasmas</i> , 2016, 23, 062502.	1.9	4
31	Gyrokinetic simulations of an electron temperature gradient turbulence driven current in tokamak plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	15
32	A quasi-linear analysis of the impurity effect on turbulent momentum transport and residual stress. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	6
33	A mechanism for magnetic field stochastization and energy release during an edge pedestal collapse. <i>Nuclear Fusion</i> , 2015, 55, 032004.	3.5	13
34	Flux-driven simulations of turbulence collapse. <i>Physics of Plasmas</i> , 2015, 22, 032505.	1.9	29
35	Momentum transport in the vicinity of $q_{\min}$ in reverse shear tokamaks due to ion temperature gradient turbulence. <i>Physics of Plasmas</i> , 2014, 21, 012302.	1.9	6
36	Gyro-fluid and two-fluid theory and simulations of edge-localized-modes. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	42

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37	Turbulent electron transport in edge pedestal by electron temperature gradient turbulence. Physics of Plasmas, 2013, 20, .	1.9	7
38	APTWG: 2nd Asia-Pacific Transport Working Group Meeting. Nuclear Fusion, 2013, 53, 027001.	3.5	3
39	An overview of intrinsic torque and momentum transport bifurcations in toroidal plasmas. Nuclear Fusion, 2013, 53, 104019.	3.5	89
40	Role of external torque in the formation of ion thermal internal transport barriers. Physics of Plasmas, 2012, 19, .	1.9	9
41	A statistical analysis of avalanching heat transport in stationary enhanced core confinement regimes. Physics of Plasmas, 2012, 19, .	1.9	15
42	Interaction between external and intrinsic torque and its impact on internal transport barrier formation: A gyrofluid simulation study. Journal of the Korean Physical Society, 2012, 61, 55-61.	0.7	7
43	Intrinsic rotation, hysteresis and back transition in reversed shear internal transport barriers. Nuclear Fusion, 2011, 51, 073021.	3.5	25
44	Design features of the KSTAR in-vessel control coils. Fusion Engineering and Design, 2009, 84, 1029-1032.	1.9	46
45	A self-adjoint form of linearized Coulomb collision operator for energetic ions. Physics of Plasmas, 1995, 2, 3917-3919.	1.9	6