# Hogun Jhang

List of Publications by Year
in descending order



| 45 | 484 | 840776 11 | 752698 20 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 45 | 45 | 45 | 425 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An overview of intrinsic torque and momentum transport bifurcations in toroidal plasmas. Nuclear Fusion, 2013, 53, 104019. | 3.5 | 89 |
| 2 | Design features of the KSTAR in-vessel control coils. Fusion Engineering and Design, 2009, 84, 1029-1032. | 1.9 | 46 |
| 3 | Gyro-fluid and two-fluid theory and simulations of edge-localized-modes. Physics of Plasmas, 2013, 20, . | 1.9 | 42 |
| 4 | Flux-driven simulations of turbulence collapse. Physics of Plasmas, 2015, 22, 032505. | 1.9 | 29 |
| 5 | Intrinsic rotation, hysteresis and back transition in reversed shear internal transport barriers. Nuclear Fusion, 2011, 51, 073021. | 3.5 | 25 |
| 6 | 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 |
| 7 | Enhanced fast ion prompt loss due to resonant magnetic perturbations in KSTAR. Physics of Plasmas, 2018, 25, . | 1.9 | 19 |
| 8 | A statistical analysis of avalanching heat transport in stationary enhanced core confinement regimes. Physics of Plasmas, 2012, 19, . | 1.9 | 15 |
| 9 | Gyrokinetic simulations of an electron temperature gradient turbulence driven current in tokamak plasmas. Physics of Plasmas, 2016, 23, . | 1.9 | 15 |
| 10 | Properties of ion temperature gradient and trapped electron modes in tokamak plasmas with inverted density profiles. Physics of Plasmas, 2017, 24, . | 1.9 | 14 |
| 11 | A mechanism for magnetic field stochastization and energy release during an edge pedestal collapse. Nuclear Fusion, 2015, 55, 032004. | 3.5 | 13 |
| 12 | Impact of zonal flows on edge pedestal collapse. Nuclear Fusion, 2017, 57, 022006. | 3.5 | 11 |
| 13 | Effects of resistivity on linear plasma responses to resonant magnetic perturbations in tokamak plasmas. Physics of Plasmas, 2016, 23, . | 1.9 | 10 |
| 14 | Role of external torque in the formation of ion thermal internal transport barriers. Physics of Plasmas, 2012, 19, . | 1.9 | 9 |
| 15 | Enhancement of residual stress by electromagnetic fluctuations: A quasi-linear study. Physics of Plasmas, 2016, 23, 052501. | 1.9 | 8 |
| 16 | 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 |
| 17 | Turbulent electron transport in edge pedestal by electron temperature gradient turbulence. Physics of Plasmas, 2013, 20, . | 1.9 | 7 |
| 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 | 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 |
| 20 | Nonlinear energy transfer from low frequency electromagnetic fluctuations to broadband turbulence during edge localized mode crashes. Nuclear Fusion, 2020, 60, 124002. | 3.5 | 7 |
| 21 | A selfâ€adjoint form of linearized Coulomb collision operator for energetic ions. Physics of Plasmas, 1995, 2, 3917-3919. | 1.9 | 6 |
| 22 | Momentum transport in the vicinity of q<sub>min</sub> in reverse shear tokamaks due to ion temperature gradient turbulence. Physics of Plasmas, 2014, 21, 012302. | 1.9 | 6 |
| 23 | A quasi-linear analysis of the impurity effect on turbulent momentum transport and residual stress. Physics of Plasmas, 2015, 22, . | 1.9 | 6 |
| 24 | A refined understanding of compressibility effects on the stability of drift ballooning modes. Physics of Plasmas, 2017, 24, . | 1.9 | 6 |
| 25 | Effects of light impurities on zonal flow activities and turbulent thermal transport. Physics of Plasmas, 2022, 29, . | 1.9 | 6 |
| 26 | A model for generation of high wavenumber fluctuations by external magnetic field perturbations in edge pedestal plasmas. Physics of Plasmas, 2017, 24, . | 1.9 | 5 |
| 27 | Symmetry breaking induced by the parity change in global electromagnetic ion temperature gradient modes. Physics of Plasmas, 2018, 25, . | 1.9 | 5 |
| 28 | Characteristics of toroidal rotation and ion temperature pedestals between ELM bursts in KSTAR H-mode plasmas. Physics of Plasmas, 2016, 23, 062502. | 1.9 | 4 |
| 29 | Role of parallel compression in potential vorticity mixing and zonal flow generation: a gyrokinetic simulation study. Nuclear Fusion, 2019, 59, 044002. | 3.5 | 4 |
| 30 | Vorticity generation by finite Larmor radius effects from heat source and sink. Physics of Plasmas, 2020, 27, 112302. | 1.9 | 4 |
| 31 | A conservative gyrofluid model: Effect of closure on energetics. Physics of Plasmas, 2020, 27, . | 1.9 | 4 |
| 32 | APTWG: 2nd Asia-Pacific Transport Working Group Meeting. Nuclear Fusion, 2013, 53, 027001. | 3.5 | 3 |
| 33 | An analytic model for limiting high density LH transition by the onset of the tertiary instability. Physics of Plasmas, 2016, 23, 074505. | 1.9 | 3 |
| 34 | Evolution of magnetic Kubo number of stochastic magnetic fields during the edge pedestal collapse simulation. Physics of Plasmas, 2018, 25, 082306. | 1.9 | 3 |
| 35 | Resonant magnetic perturbation-mediated nonlinear interaction and its impact on magnetic field stochastization in pedestal collapse simulations. Nuclear Fusion, 2019, 59, 096019. | 3.5 | 3 |
| 36 | A characterization of the inertial range in forced-damped Hasegawa-Mima turbulence. Physics of Plasmas, 2017, 24, . | 1.9 | 2 |

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| 37 | Excitation of high wavenumber fluctuations by externally-imposed helical fields in edge pedestal plasmas. Physics of Plasmas, 2018, 25, 032502. | 1.9 | 2 |
| 38 | An extended slowing down distribution function of alpha particles with non-uniform ion and electron temperature. Physics of Plasmas, 2021, 28, . | 1.9 | 2 |
| 39 | Generation of E â€‰ Ã—â€‰ B flow shear by finite orbit width effects from heat sources in tokamaks. Nuclear Fusion, 2022, 62, 036010. | 3.5 | 2 |
| 40 | Phase synchronization versus modulational instability for zonal flow generation and pattern formation. Nuclear Fusion, 2022, 62, 076037. | 3.5 | 2 |
| 41 | Summary of the 6th asia-pacific transport working group (APTWG) meeting. Nuclear Fusion, 2017, 57, 087002. | 3.5 | 1 |
| 42 | Derivation of the threshold condition for the ion temperature gradient mode with an inverted density profile from a simple physics picture. Physics of Plasmas, 2018, 25, 054501. | 1.9 | 1 |
| 43 | Flux-driven nonlinear fluid simulations of ion thermal confinement change by external torque. Physics of Plasmas, 2019, 26, 112501. | 1.9 | 0 |
| 44 | Nonlinear oscillations of geodesic acoustic modes due to E Ã— B convection in edge pedestal. Physics of Plasmas, 2020, 27, 092307. | 1.9 | 0 |
| 45 | Role of the pedestal current on the stability of non-ideal ballooning modes. Physics of Plasmas, 2021, 28, 112508. | 1.9 | 0 |