

Minjun Choi

List of Publications by Year in descending order

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47
papers

965
citations

471509

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454955

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all docs

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docs citations

47
times ranked

679
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Visualization of Growth and Burst of the Edge-Localized Filaments in KSTAR $\langle \text{mml:mi} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mode Plasmas. Physical Review Letters, 2011, 107, 045004.	7.8	129
2	Development of KSTAR ECE imaging system for measurement of temperature fluctuations and edge density fluctuations. Review of Scientific Instruments, 2010, 81, 10D930.	1.3	102
3	Quasi 3D ECE imaging system for study of MHD instabilities in KSTAR. Review of Scientific Instruments, 2014, 85, 11D820.	1.3	63
4	Nonlinear Interaction of Edge-Localized Modes and Turbulent Eddies in Toroidal Plasma under $\langle \text{mml:math} \rangle n \langle \text{mml:math} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Magnetic Perturbation. Physical Review Letters, 2016, 117, 075001.	7.8	54
5	Multiscale interaction between a large scale magnetic island and small scale turbulence. Nuclear Fusion, 2017, 57, 126058.	3.5	49
6	Overview of KSTAR research progress and future plans toward ITER and K-DEMO. Nuclear Fusion, 2019, 59, 112020.	3.5	38
7	Two-dimensional imaging of edge-localized modes in KSTAR plasmas unperturbed and perturbed by $n=1$ external magnetic fields. Physics of Plasmas, 2012, 19, 056114.	1.9	35
8	Formation of the internal transport barrier in KSTAR. Nuclear Fusion, 2018, 58, 016019.	3.5	32
9	Appearance and Dynamics of Helical Flux Tubes under Electron Cyclotron Resonance Heating in the Core of KSTAR Plasmas. Physical Review Letters, 2012, 109, 145003.	7.8	28
10	Improved accuracy in the estimation of the tearing mode stability parameters ($\hat{\Gamma} \hat{\alpha} \epsilon^2$) T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (and	3.5	27
11	Effects of plasma turbulence on the nonlinear evolution of magnetic island in tokamak. Nature Communications, 2021, 12, 375.	12.8	27
12	Gyrokinetic simulation study of magnetic island effects on neoclassical physics and micro-instabilities in a realistic KSTAR plasma. Physics of Plasmas, 2018, 25, .	1.9	24
13	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
14	Solitary perturbations in the steep boundary of magnetized toroidal plasma. Scientific Reports, 2017, 7, 45075.	3.3	23
15	Progress of the KSTAR Research Program Exploring the Advanced High Performance and Steady-State Plasma Operations. Journal of the Korean Physical Society, 2018, 73, 712-735.	0.7	22
16	Intrinsic rotation reversal, non-local transport, and turbulence transition in KSTAR L-mode plasmas. Nuclear Fusion, 2017, 57, 066040.	3.5	19
17	Characteristics of trapped electron transport, zonal flow staircase, turbulence fluctuation spectra in elongated tokamak plasmas. Nuclear Fusion, 2019, 59, 026013.	3.5	18
18	Validation of the $\hat{\alpha}$ -full reconnection model $\hat{\alpha}^{\text{TM}}$ of the sawtooth instability in KSTAR. Nuclear Fusion, 2018, 58, 066009.	3.5	16

#	ARTICLE	IF	CITATIONS
19	Role of zonal flow staircase in electron heat avalanches in KSTAR L-mode plasmas. Nuclear Fusion, 2021, 61, 026010.	3.5	16
20	Imaging Techniques for Microwave Diagnostics. Contributions To Plasma Physics, 2011, 51, 111-118.	1.1	15
21	Investigation of MHD instabilities and control in KSTAR preparing for high beta operation. Nuclear Fusion, 2013, 53, 083029.	3.5	15
22	Comparison of measured 2D ELMs with synthetic images from BOUT++ simulation in KSTAR. Nuclear Fusion, 2014, 54, 093004.	3.5	15
23	Toroidal mode number estimation of the edge-localized modes using the KSTAR 3-D electron cyclotron emission imaging system. Review of Scientific Instruments, 2014, 85, 063505.	1.3	15
24	2D/3D electron temperature fluctuations near explosive MHD instabilities accompanied by minor and major disruptions. Nuclear Fusion, 2016, 56, 066013.	3.5	15
25	Interaction between a magnetic island and turbulence. Reviews of Modern Plasma Physics, 2021, 5, 1.	4.1	15
26	Observation of resonant and non-resonant magnetic braking in the $n=1$ non-axisymmetric configurations on KSTAR. Nuclear Fusion, 2017, 57, 126035.	3.5	12
27	Intense whistler-frequency emissions at the pedestal collapse in KSTAR H-mode plasmas. Nuclear Fusion, 2020, 60, 126021.	3.5	11
28	Distinct stages of radio frequency emission at the onset of pedestal collapse in KSTAR H-mode plasmas. Nuclear Fusion, 2018, 58, 096034.	3.5	10
29	Controlled neoclassical tearing mode (NTM) healing by fueling pellets and its impact on electron cyclotron current drive requirements for complete NTM stabilization. Nuclear Fusion, 2019, 59, 126047.	3.5	10
30	Experiment and simulation of tearing mode evolution with electron cyclotron current drive in KSTAR. Current Applied Physics, 2015, 15, 547-554.	2.4	9
31	Post calibration of the two-dimensional electron cyclotron emission imaging instrument with electron temperature characteristics of the magnetohydrodynamic instabilities. Review of Scientific Instruments, 2016, 87, 013506.	1.3	9
32	E_{\perp} flow velocity deduced from the poloidal motion of fluctuation patterns in neutral beam injected L-mode plasmas on KSTAR. Physics of Plasmas, 2016, 23, 052510.	1.9	9
33	High contrast 2D visualization of edge plasma instabilities by ECE imaging. Journal of Instrumentation, 2012, 7, C01024-C01024.	1.2	8
34	Investigation of instabilities and rotation alteration in high beta KSTAR plasmas. Physics of Plasmas, 2017, 24, .	1.9	7
35	Nonlinear energy transfer from low frequency electromagnetic fluctuations to broadband turbulence during edge localized mode crashes. Nuclear Fusion, 2020, 60, 124002.	3.5	7
36	Role of fast-ion transport manipulating safety factor profile in KSTAR early diverting discharges. Nuclear Fusion, 2020, 60, 126023.	3.5	7

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37	Development of a collective scattering system and its application to the measurement of multiscale fluctuations in KSTAR plasmas. Plasma Physics and Controlled Fusion, 2021, 63, 035003.	2.1	6
38	Overview of recent progress in 3D field physics in KSTAR. Journal of the Korean Physical Society, 2022, 80, 759-786.	0.7	6
39	Quasi-coherent fluctuation measurement with the upgraded microwave imaging reflectometer in KSTAR. Plasma Physics and Controlled Fusion, 2018, 60, 115009.	2.1	5
40	Suppression of toroidal Alfvén eigenmodes by the electron cyclotron current drive in KSTAR plasmas. Nuclear Fusion, 0, , .	3.5	5
41	Near real-time streaming analysis of big fusion data. Plasma Physics and Controlled Fusion, 2022, 64, 035015.	2.1	3
42	Microwave imaging of magnetohydrodynamic instabilities in fusion plasma. Comptes Rendus Physique, 2016, 17, 1018-1026.	0.9	2
43	A Framework for International Collaboration on ITER Using Large-Scale Data Transfer to Enable Near-Real-Time Analysis. Fusion Science and Technology, 2021, 77, 98-108.	1.1	2
44	Relatively scaled ECE temperature profiles of KSTAR plasmas. Review of Scientific Instruments, 2010, 81, 10D934.	1.3	1
45	Enhanced Understanding of MHD Dynamics & ELM Control Physics via 2D/3D ECE Imaging in KSTAR. , 2014, , .		0
46	Joint meeting of 9th Asia Pacific-Transport Working Group (APTWG) & EU-US Transport Task Force (TTF) workshop. Nuclear Fusion, 0, , .	3.5	0
47	Near real-time analysis of big fusion data on HPC systems. , 2020, , .		0