

Jong-Kyu Park

List of Publications by Year in descending order

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82
all docs

82
docs citations

82
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the COMPASS results [*] . Nuclear Fusion, 2022, 62, 042021.	3.5	7
2	Optimization of 3D controlled ELM-free state with recovered global confinement for KSTAR with n = 1 resonant magnetic field perturbation. Nuclear Fusion, 2022, 62, 026043.	3.5	8
3	Overview of recent progress in 3D field physics in KSTAR. Journal of the Korean Physical Society, 2022, 80, 759-786.	0.7	6
4	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8
5	Design and experimental demonstration of feedback adaptive RMP ELM controller toward complete long pulse ELM suppression on KSTAR. Physics of Plasmas, 2022, 29, .	1.9	6
6	Influence of triangularity on the plasma response to resonant magnetic perturbations. Nuclear Fusion, 2022, 62, 076031.	3.5	4
7	Toward holistic understanding of the ITER-like resonant magnetic perturbation (RMP) ELM control on KSTAR. Nuclear Fusion, 2022, 62, 066014.	3.5	1
8	Quasisymmetric Optimization of Nonaxisymmetry in Tokamaks. Physical Review Letters, 2021, 126, 125001.	7.8	8
9	Pedestal collapse by resonant magnetic perturbations. Nuclear Fusion, 2021, 61, 044001.	3.5	7
10	Identification of multiple eigenmode growth rates towards real time detection in DIII-D and KSTAR tokamak plasmas. Nuclear Fusion, 2021, 61, 056009.	3.5	12
11	Predicting operational windows of ELMs suppression by resonant magnetic perturbations in the DIII-D and KSTAR tokamaks. Physics of Plasmas, 2021, 28, .	1.9	20
12	Physics basis for design of 3D coils in tokamaks. Nuclear Fusion, 2021, 61, 076010.	3.5	8
13	Parametric dependencies of locked mode thresholds in KSTAR L-mode plasmas. Nuclear Fusion, 2021, 61, 086009.	3.5	5
14	Nonlinear two-fluid modeling of plasma response to RMPs for the ELM control in the ITER baseline. Nuclear Fusion, 2021, 61, 106006.	3.5	7
15	Empirical scaling of the $n=2$ error field penetration threshold in tokamaks. Nuclear Fusion, 2020, 60, 086010.	3.5	19
16	Nonlinear modeling of the scaling law for the $m/n = 3/2$ error field penetration threshold. Nuclear Fusion, 2020, 60, 076006.	3.5	15
17	Localizing resonant magnetic perturbations for edge localized mode control in KSTAR. Nuclear Fusion, 2020, 60, 096023.	3.5	12
18	Modeling of resistive plasma response in toroidal geometry using an asymptotic matching approach. Physics of Plasmas, 2020, 27, .	1.9	1

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19	Error field impact on mode locking and divertor heat flux in NSTX-U. Nuclear Fusion, 2019, 59, 086021.	3.5	4
20	Test of the ITER-like resonant magnetic perturbation configurations for edge-localized mode crash suppression on KSTAR. Nuclear Fusion, 2019, 59, 126045.	3.5	18
21	Nonambipolar Transport due to Electrons with 3D Resistive Response in the KSTAR Tokamak. Physical Review Letters, 2019, 123, 095001.	7.8	15
22	Tamed stability and transport using controlled non-axisymmetric fields in KSTAR. Nuclear Fusion, 2019, 59, 056009.	3.5	16
23	The density dependence of edge-localized-mode suppression and pump-out by resonant magnetic perturbations in the DIII-D tokamak. Physics of Plasmas, 2019, 26, .	1.9	51
24	Identification of multiple eigenmode growth rates in DIII-D and EAST tokamak plasmas. Nuclear Fusion, 2019, 59, 024001.	3.5	14
25	Scenario development during commissioning operations on the National Spherical Torus Experiment Upgrade. Nuclear Fusion, 2018, 58, 046010.	3.5	25
26	3D field phase-space control in tokamak plasmas. Nature Physics, 2018, 14, 1223-1228.	16.7	77
27	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	3.5	45
28	Self-consistent perturbed equilibrium with neoclassical toroidal torque in tokamaks. Physics of Plasmas, 2017, 24, .	1.9	45
29	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
30	Comparison of divertor heat flux splitting by 3D fields with field line tracing simulation in KSTAR. Physics of Plasmas, 2017, 24, 052506.	1.9	18
31	Enhanced understanding of non-axisymmetric intrinsic and controlled field impacts in tokamaks. Nuclear Fusion, 2017, 57, 116054.	3.5	41
32	Impact of toroidal and poloidal mode spectra on the control of non-axisymmetric fields in tokamaks. Physics of Plasmas, 2017, 24, .	1.9	19
33	Dependence of neoclassical toroidal viscosity on the poloidal spectrum of applied nonaxisymmetric fields. Nuclear Fusion, 2016, 56, 036008.	3.5	21
34	Computation of resistive instabilities by matched asymptotic expansions. Physics of Plasmas, 2016, 23, .	1.9	26
35	Equilibrium drives of the low and high field side $n=2$ plasma response and impact on global confinement. Nuclear Fusion, 2016, 56, 056001.	3.5	21
36	Identification of multi-modal plasma responses to applied magnetic perturbations using the plasma reluctance. Physics of Plasmas, 2016, 23, .	1.9	19

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37	Three-dimensional equilibria and island energy transport due to resonant magnetic perturbation edge localized mode suppression on DIII-D. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	9
38	Experimental tests of linear and nonlinear three-dimensional equilibrium models in DIII-D. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	40
39	Ideal plasma response to vacuum magnetic fields with resonant magnetic perturbations in non-axisymmetric tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 104002.	2.1	3
40	Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. <i>Physical Review Letters</i> , 2015, 114, 105002.	7.8	141
41	Observation of a Multimode Plasma Response and its Relationship to Density Pumpout and Edge-Localized Mode Suppression. <i>Physical Review Letters</i> , 2015, 114, 105001.	7.8	124
42	Three-Dimensional Drift Kinetic Response of High- β_p Plasmas in the DIII-D Tokamak. <i>Physical Review Letters</i> , 2015, 114, 145005.	7.8	69
43	Decoupled recovery of energy and momentum with correction of n^2 error fields. <i>Nuclear Fusion</i> , 2015, 55, 083012.	3.5	22
44	Rotation and Kinetic Modifications of the Tokamak Ideal-Wall Pressure Limit. <i>Physical Review Letters</i> , 2014, 113, 255002.	7.8	21
45	Benchmarking kinetic calculations of resistive wall mode stability. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	41
46	Theory comparison and numerical benchmarking on neoclassical toroidal viscosity torque. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	32
47	The importance of matched poloidal spectra to error field correction in DIII-D. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	39
48	Rotational Resonance of Nonaxisymmetric Magnetic Braking in the KSTAR Tokamak. <i>Physical Review Letters</i> , 2013, 111, 095002.	7.8	41
49	Comparisons of linear and nonlinear plasma response models for non-axisymmetric perturbations. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	73
50	Neoclassical toroidal viscosity in perturbed equilibria with general tokamak geometry. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	36
51	The limits and challenges of error field correction for ITER. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	43
52	Monte Carlo calculation of neoclassical transport in perturbed tokamaks. <i>Physics of Plasmas</i> , 2012, 19, 082503.	1.9	28
53	ELM control experiments in the KSTAR device. <i>Nuclear Fusion</i> , 2012, 52, 114011.	3.5	31
54	Sensitivity to error fields in NSTX high β_p plasmas. <i>Nuclear Fusion</i> , 2012, 52, 023004.	3.5	15

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55	Suppression of Edge Localized Modes in High-Confinement KSTAR Plasmas by Nonaxisymmetric Magnetic Perturbations. <i>Physical Review Letters</i> , 2012, 109, 035004.	7.8	295
56	Reactor-relevant quiescent H-mode operation using torque from non-axisymmetric, non-resonant magnetic fields. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	44
57	Error Field Tolerance and Error Field Correction Strategies and Their Applicability to ITER. <i>Fusion Science and Technology</i> , 2011, 59, 572-585.	1.1	11
58	Advances towards QH-mode viability for ELM-stable operation in ITER. <i>Nuclear Fusion</i> , 2011, 51, 083018.	3.5	116
59	Error field correction in DIII-D Ohmic plasmas with either handedness. <i>Nuclear Fusion</i> , 2011, 51, 023003.	3.5	33
60	The impact of 3D fields on tearing mode stability of H-modes. <i>Nuclear Fusion</i> , 2011, 51, 073016.	3.5	33
61	Kinetic energy principle and neoclassical toroidal torque in tokamaks. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	28
62	Measurement and modeling of three-dimensional equilibria in DIII-D. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	72
63	Effect of nonaxisymmetric magnetic perturbations on divertor heat and particle flux profiles in National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	19
64	Ideal Perturbed Equilibria in Tokamaks and Control of External Magnetic Perturbations. <i>Contributions To Plasma Physics</i> , 2010, 50, 669-672.	1.1	2
65	Progress in understanding error-field physics in NSTX spherical torus plasmas. <i>Nuclear Fusion</i> , 2010, 50, 045008.	3.5	77
66	Observation and correction of non-resonant error fields in NSTX. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 104003.	2.1	34
67	On Demand Triggering of Edge Localized Instabilities Using External Nonaxisymmetric Magnetic Perturbations in Toroidal Plasmas. <i>Physical Review Letters</i> , 2010, 104, 045001.	7.8	66
68	Shielding of external magnetic perturbations by torque in rotating tokamak plasmas. <i>Physics of Plasmas</i> , 2009, 16, 082512.	1.9	33
69	Importance of plasma response to nonaxisymmetric perturbations in tokamaks. <i>Physics of Plasmas</i> , 2009, 16, 056115.	1.9	74
70	Plasma rotation driven by static nonresonant magnetic fields. <i>Physics of Plasmas</i> , 2009, 16, 056119.	1.9	43
71	Effect of resonant and non-resonant magnetic braking on error field tolerance in high beta plasmas. <i>Nuclear Fusion</i> , 2009, 49, 115001.	3.5	71
72	Nonambipolar Transport by Trapped Particles in Tokamaks. <i>Physical Review Letters</i> , 2009, 102, 065002.	7.8	126

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73	Principal physics developments evaluated in the ITER design review. Nuclear Fusion, 2009, 49, 065012.	3.5	200
74	Error field correction in ITER. Nuclear Fusion, 2008, 48, 045006.	3.5	63
75	Collisional boundary layer analysis for neoclassical toroidal plasma viscosity in tokamaks. Physics of Plasmas, 2008, 15, .	1.9	64
76	Spectral asymmetry due to magnetic coordinates. Physics of Plasmas, 2008, 15, .	1.9	19
77	Computation of three-dimensional tokamak and spherical torus equilibria. Physics of Plasmas, 2007, 14, 052110.	1.9	176
78	Control of Asymmetric Magnetic Perturbations in Tokamaks. Physical Review Letters, 2007, 99, 195003.	7.8	131
79	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 0, , .	3.5	0