

# Yongkyoon In

## List of Publications by Year in descending order

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89  
papers

2,135  
citations

201674

27  
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265206

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90  
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90  
docs citations

90  
times ranked

1163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Critical Rotation for Resistive-Wall Mode Stabilization in a Near-Axisymmetric Configuration. Physical Review Letters, 2007, 98, 055001.	7.8	128
2	Control of the resistive wall mode with internal coils in the DIII-D tokamak. Nuclear Fusion, 2005, 45, 1715-1731.	3.5	82
3	Local variables affecting H-mode threshold on Alcator C-Mod. Plasma Physics and Controlled Fusion, 1998, 40, 689-692.	2.1	77
4	3D field phase-space control in tokamak plasmas. Nature Physics, 2018, 14, 1223-1228.	16.7	77
5	Stability and control of resistive wall modes in high beta, low rotation DIII-D plasmas. Nuclear Fusion, 2007, 47, 1121-1130.	3.5	72
6	Measurement and modeling of three-dimensional equilibria in DIII-D. Physics of Plasmas, 2011, 18, .	1.9	72
7	Effect of resonant and non-resonant magnetic braking on error field tolerance in high beta plasmas. Nuclear Fusion, 2009, 49, 115001.	3.5	71
8	Overview of KSTAR initial operation. Nuclear Fusion, 2011, 51, 094006.	3.5	70
9	Development of ITER-relevant plasma control solutions at DIII-D. Nuclear Fusion, 2007, 47, 943-951.	3.5	66
10	Measurement of resistive wall mode stability in rotating high- $\beta^2$ DIII-D plasmas. Nuclear Fusion, 2005, 45, 368-376.	3.5	62
11	Comprehensive control of resistive wall modes in DIII-D advanced tokamak plasmas. Nuclear Fusion, 2009, 49, 125003.	3.5	58
12	Resistive wall mode control code maturity: progress and specific examples. Plasma Physics and Controlled Fusion, 2010, 52, 104002.	2.1	58
13	Resistive wall mode stabilization by slow plasma rotation in DIII-D tokamak discharges with balanced neutral beam injection. Physics of Plasmas, 2007, 14, 056101.	1.9	56
14	Measurements of the high confinement mode pedestal region on Alcator C-Mod. Physics of Plasmas, 1998, 5, 1744-1751.	1.9	49
15	Multiscale interaction between a large scale magnetic island and small scale turbulence. Nuclear Fusion, 2017, 57, 126058.	3.5	49
16	An overview of KSTAR results. Nuclear Fusion, 2013, 53, 104005.	3.5	45
17	Evidence for the Importance of Trapped Particle Resonances for Resistive Wall Mode Stability in High Beta Tokamak Plasmas. Physical Review Letters, 2011, 106, 215002.	7.8	44
18	Extremely low intrinsic non-axisymmetric field in KSTAR and its implications. Nuclear Fusion, 2015, 55, 043004.	3.5	44

#	ARTICLE	IF	CITATIONS
19	Comparative investigation of ELM control based on toroidal modelling of plasma response to RMP fields. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	44
20	Enhanced understanding of non-axisymmetric intrinsic and controlled field impacts in tokamaks. <i>Nuclear Fusion</i> , 2017, 57, 116054.	3.5	41
21	Overview of KSTAR research progress and future plans toward ITER and K-DEMO. <i>Nuclear Fusion</i> , 2019, 59, 112020.	3.5	38
22	Model-based dynamic resistive wall mode identification and feedback control in the DIII-D tokamak. <i>Physics of Plasmas</i> , 2006, 13, 062512.	1.9	35
23	Off-axis fishbone-like instability and excitation of resistive wall modes in JT-60U and DIII-D. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	34
24	Resistive wall mode stabilization in slowly rotating high beta plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B349-B358.	2.1	33
25	Double transport barrier experiments on Alcator C-Mod. <i>Physics of Plasmas</i> , 2002, 9, 2149-2155.	1.9	32
26	DIII-D Integrated plasma control solutions for ITER and next-generation tokamaks. <i>Fusion Engineering and Design</i> , 2008, 83, 193-197.	1.9	32
27	Overview of the RFX fusion science program. <i>Nuclear Fusion</i> , 2011, 51, 094023.	3.5	29
28	Access to high beta advanced inductive plasmas at low injected torque. <i>Nuclear Fusion</i> , 2013, 53, 093033.	3.5	25
29	Progress of the KSTAR Research Program Exploring the Advanced High Performance and Steady-State Plasma Operations. <i>Journal of the Korean Physical Society</i> , 2018, 73, 712-735.	0.7	22
30	Mode conversion electron heating in Alcator C-Mod: Theory and experiment. <i>Physics of Plasmas</i> , 2000, 7, 1886-1893.	1.9	21
31	Steady state scenario development with elevated minimum safety factor on DIII-D. <i>Nuclear Fusion</i> , 2014, 54, 093009.	3.5	21
32	Avoidance of tearing mode locking with electro-magnetic torque introduced by feedback-based mode rotation control in DIII-D and RFX-mod. <i>Nuclear Fusion</i> , 2017, 57, 016035.	3.5	21
33	Direct evidence of $\langle i \rangle E \langle /i \rangle \tilde{A} - \langle i \rangle B \langle /i \rangle$ flow changes at the onset of resonant magnetic perturbation-driven edge-localized mode crash suppression. <i>Nuclear Fusion</i> , 2019, 59, 066033.	3.5	20
34	Predicting operational windows of ELMs suppression by resonant magnetic perturbations in the DIII-D and KSTAR tokamaks. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	20
35	Impact of toroidal and poloidal mode spectra on the control of non-axisymmetric fields in tokamaks. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	19
36	Empirical scaling of the $\langle i \rangle n \langle /i \rangle \hat{\epsilon} \% = \hat{\epsilon} \% ^2$ error field penetration threshold in tokamaks. <i>Nuclear Fusion</i> , 2020, 60, 086010.	3.5	19

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37	Progress toward fully noninductive discharge operation in DIII-D using off-axis neutral beam injection. <i>Physics of Plasmas</i> , 2013, 20, 092504.	1.9	18
38	Comparison of divertor heat flux splitting by 3D fields with field line tracing simulation in KSTAR. <i>Physics of Plasmas</i> , 2017, 24, 052506.	1.9	18
39	Test of the ITER-like resonant magnetic perturbation configurations for edge-localized mode crash suppression on KSTAR. <i>Nuclear Fusion</i> , 2019, 59, 126045.	3.5	18
40	Overview of the RFX-mod fusion science programme. <i>Nuclear Fusion</i> , 2013, 53, 104018.	3.5	17
41	Improved dynamic response of magnetic feedback in RFX-mod and DIII-D. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 084004.	2.1	16
42	Tamed stability and transport using controlled non-axisymmetric fields in KSTAR. <i>Nuclear Fusion</i> , 2019, 59, 056009.	3.5	16
43	2D/3D electron temperature fluctuations near explosive MHD instabilities accompanied by minor and major disruptions. <i>Nuclear Fusion</i> , 2016, 56, 066013.	3.5	15
44	Nonambipolar Transport due to Electrons with 3D Resistive Response in the KSTAR Tokamak. <i>Physical Review Letters</i> , 2019, 123, 095001.	7.8	15
45	Nonlinear modeling of the effect of $n=2$ resonant magnetic field perturbation on peeling-ballooning modes in KSTAR. <i>Nuclear Fusion</i> , 2020, 60, 026009.	3.5	15
46	Feedback control of the proximity to marginal RWM stability using active MHD spectroscopy. <i>Nuclear Fusion</i> , 2012, 52, 013003.	3.5	14
47	Versatile controllability of non-axisymmetric magnetic perturbations in KSTAR experiments. <i>Fusion Engineering and Design</i> , 2016, 108, 60-66.	1.9	14
48	Overview of recent Alcator C-Mod results. <i>Nuclear Fusion</i> , 2001, 41, 1391-1400.	3.5	13
49	Advances in integrated plasma control on DIII-D. <i>Fusion Engineering and Design</i> , 2007, 82, 1051-1057.	1.9	13
50	Upper limit on turbulent electron temperature fluctuations in the core of Alcator C-Mod. <i>Nuclear Fusion</i> , 2004, 44, 987-991.	3.5	12
51	Requirements for active resistive wall mode (RWM) feedback control. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 104004.	2.1	12
52	On the roles of direct feedback and error field correction in stabilizing resistive-wall modes. <i>Nuclear Fusion</i> , 2010, 50, 042001.	3.5	12
53	Observation of resonant and non-resonant magnetic braking in the $n=1$ non-axisymmetric configurations on KSTAR. <i>Nuclear Fusion</i> , 2017, 57, 126035.	3.5	12
54	Pedestal electron collisionality and toroidal rotation during ELM-crash suppression phase under $n=1$ RMP in KSTAR. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12

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55	Localizing resonant magnetic perturbations for edge localized mode control in KSTAR. Nuclear Fusion, 2020, 60, 096023.	3.5	12
56	Resonant field amplification with feedback-stabilized regime in current driven resistive wall mode. Physics of Plasmas, 2010, 17, 072510.	1.9	11
57	Error Field Tolerance and Error Field Correction Strategies and Their Applicability to ITER. Fusion Science and Technology, 2011, 59, 572-585.	1.1	11
58	Sensitivity of transport and stability to the current profile in steady-state scenario plasmas in DIII-D. Physics of Plasmas, 2012, 19, 122506.	1.9	11
59	Variation of magnetic braking by non-axisymmetric magnetic fields depending on the perturbed field structure in the KSTAR tokamak. Nuclear Fusion, 2017, 57, 036014.	3.5	11
60	Resistive $n=1$ modes in reversed magnetic shear Alcator C-Mod plasmas. Nuclear Fusion, 2000, 40, 1463-1468.	3.5	10
61	Effects of neoclassical toroidal viscosity induced by the intrinsic error fields and toroidal field ripple on the toroidal rotation in tokamaks. Physics of Plasmas, 2016, 23, 082510.	1.9	10
62	Influences of multiple low- $n$ modes on $n=1$ resistive wall mode identification and feedback control. Physics of Plasmas, 2008, 15, 102506.	1.9	9
63	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
64	Identification of Mercier instabilities in Alcator C-Mod tokamak. Physics of Plasmas, 2000, 7, 5087-5095.	1.9	7
65	Overview of recent Alcator C-Mod research. Nuclear Fusion, 2003, 43, 1610-1618.	3.5	7
66	Model-based control of the resistive wall mode in DIII-D: A comparison study. Fusion Engineering and Design, 2009, 84, 641-645.	1.9	7
67	Role of explosive instabilities in high- $\beta^2$ disruptions in tokamaks. Nuclear Fusion, 2016, 56, 054001.	3.5	7
68	Investigation of instabilities and rotation alteration in high beta KSTAR plasmas. Physics of Plasmas, 2017, 24, .	1.9	7
69	Dynamics of energetic particle driven modes and MHD modes in wall-stabilized high- $\beta^2$ plasmas on JT-60U and DIII-D. Nuclear Fusion, 2013, 53, 123022.	3.5	6
70	Overview of recent progress in 3D field physics in KSTAR. Journal of the Korean Physical Society, 2022, 80, 759-786.	0.7	6
71	Robust Control of Resistive Wall Modes in Tokamak Plasmas using $\hat{A}_\mu$ -synthesis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6402-6409.	0.4	5
72	Data-driven modeling and feedback tracking control of the toroidal rotation profile for advanced tokamak scenarios in DIII-D. , 2011, , .		5

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73	Parametric dependencies of locked mode thresholds in KSTAR L-mode plasmas. Nuclear Fusion, 2021, 61, 086009.	3.5	5
74	Electron cyclotron emission refraction effects during edge-localized modes. Plasma Physics and Controlled Fusion, 2001, 43, 645-660.	2.1	4
75	Detection of slowly rotating $n=1$ mode with signal compensation for an externally perturbed field in the KSTAR tokamak. Fusion Engineering and Design, 2019, 145, 33-39.	1.9	4
76	Balancing current drive and heating in DIII-D high noninductive current fraction discharges through choice of the toroidal field. Nuclear Fusion, 2011, 51, 113007.	3.5	3
77	Dynamics of an $n=1$ explosive instability and its role in high- $q$ disruptions. Nuclear Fusion, 2018, 58, 016026.	3.5	3
78	Robustness of the tokamak error field correction tolerance scaling. Plasma Physics and Controlled Fusion, 2020, 62, 084001.	2.1	3
79	Exploration of RMP ELM control on ITER-similar shape (ISS) in KSTAR. Nuclear Fusion, 2021, 61, 126026.	3.5	3
80	$\hat{r}^2$ limiting MHD activity and mode locking in Alcator C-Mod. Plasma Physics and Controlled Fusion, 2002, 44, 381-393.	2.1	2
81	Soft x-ray virtual diagnostics for tokamak simulations. Review of Scientific Instruments, 2009, 80, 113503.	1.3	2
82	Model-Based Robust Control of Resistive Wall Modes via $\hat{r}^2$ Synthesis. Fusion Science and Technology, 2009, 55, 163-179.	1.1	2
83	Measurement of $n=1$ locked mode using locked mode coils in KSTAR. Fusion Engineering and Design, 2019, 148, 111283.	1.9	2
84	Extending the RWM stability region by optimal feedback control. , 2008, , .		1
85	Contributions of Electron Cyclotron Waves to Performance in Advanced Regimes on DIII-D. , 2011, , .		1
86	KSTAR program for closing gaps to fusion energy. , 2015, , .		1
87	Toward holistic understanding of the ITER-like resonant magnetic perturbation (RMP) ELM control on KSTAR. Nuclear Fusion, 2022, 62, 066014.	3.5	1
88	Model-based Static and Dynamic Filter Application to Resistive Wall Mode Identification and Feedback Control in DIII-D. , 2006, , .		0
89	Supersonic molecular beam injection effects on tokamak plasma applied non-axisymmetric magnetic perturbation. Physics of Plasmas, 2016, 23, 082518.	1.9	0