Zheng Yan

List of Publications by Year in descending order

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236925 302126 1,629 61 25 39 h-index citations g-index papers 61 61 61 1244 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, .	1.9	9
2	Numerical modeling of pedestal stability and broadband turbulence of wide-pedestal QH-mode plasmas on DIII-D. Nuclear Fusion, 2022, 62, 076033.	3.5	3
3	Evidence of <i>E</i> â€^ × â€^ <i>B</i> staircase in HL-2A L-mode tokamak discharges. Physics of Plasmas, 2021, 28, .	' 1.9	8
4	Pedestal magnetic turbulence measurements in ELMy H-mode DIII-D plasmas by Faraday-effect polarimetry. Physics of Plasmas, 2021, 28, .	1.9	16
5	Observation of fully detached divertor integrated with improved core confinement for tokamak fusion plasmas. Physics of Plasmas, 2021, 28, .	1.9	9
6	Ion temperature and rotation fluctuation measurements with ultra-fast charge exchange recombination spectroscopy (UF-CHERS) in the DIII-D tokamak. Review of Scientific Instruments, 2021, 92, 053513.	1.3	1
7	Diverted negative triangularity plasmas on DIII-D: the benefit of high confinement without the liability of an edge pedestal. Nuclear Fusion, 2021, 61, 116010.	3.5	20
8	New understanding of inter-ELM pedestal turbulence, transport, and gradient behavior in the DIII-D tokamak. Nuclear Fusion, 2021, 61, 126037.	3.5	5
9	The dominant micro-turbulence instabilities in the lower <i>q</i> ₉₅ high <i>2</i> _p plasmas on DIII-D and predict-first extrapolation. Nuclear Fusion, 2020, 60, 016023.	3.5	12
10	Development of a 32-channel Beam Emission Spectroscopy diagnostic based on Neutral Beam Injection on HL-2A tokamak. Fusion Engineering and Design, 2020, 156, 111734.	1.9	3
11	Effect of magnetic perturbations on turbulence-flow dynamics at the L-H transition on DIII-D. Physics of Plasmas, 2020, 27, 062507.	1.9	18
12	Expanding the parameter space of the wide-pedestal QH-mode towards ITER conditions. Nuclear Fusion, 2020, 60, 092006.	3.5	10
13	Internal measurement of magnetic turbulence in ELMy H-mode tokamak plasmas. Physics of Plasmas, 2020, 27, .	1.9	17
14	Towards validated MHD modeling of edge harmonic oscillation in DIII-D QH-mode discharges. Nuclear Fusion, 2020, 60, 092004.	3.5	7
15	Safety factor and turbulence dynamics dependence of the L-H power threshold on DIII-D. Physics of Plasmas, 2019, 26, 062507.	1.9	3
16	<i>L</i> – <i>H</i> transition trigger physics in ITER-similar plasmas with applied <i>n</i> =  3 perturbations. Nuclear Fusion, 2019, 59, 126010.	magnetic	20
17	Gyrokinetic GENE simulations of DIII-D near-edge L-mode plasmas. Physics of Plasmas, 2019, 26, .	1.9	11
18	Experimental characterization of the effect of <i>E</i> \tilde{A} — <i>B</i> shear on edge-harmonic oscillation mode structure. Plasma Physics and Controlled Fusion, 2019, 61, 085003.	2.1	5

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19	Overview of HL-2A recent experiments. Nuclear Fusion, 2019, 59, 112017.	3.5	27
20	Physics of increased edge electron temperature and density turbulence during ELM-free QH-mode operation on DIII-D. Physics of Plasmas, 2018, 25, 055904.	1.9	0
21	Extracting the turbulent flow-field from beam emission spectroscopy images using velocimetry. Review of Scientific Instruments, 2018, 89, 10E107.	1.3	8
22	Simulation of neutral beam attenuation and its influence to beam emission spectroscopy diagnostic on HL-2A tokamak. Journal of Instrumentation, 2018, 13, P10026-P10026.	1.2	2
23	Initial beam emission spectroscopy diagnostic system on HL-2A tokamak. Review of Scientific Instruments, 2018, 89, 10D122.	1.3	22
24	Simulation of density fluctuations before the L-H transition for Hydrogen and Deuterium plasmas in the DIII-D tokamak using the BOUT++ code. Nuclear Fusion, 2018, 58, 026026.	3.5	9
25	Effects of divertor geometry on H-mode pedestal structure in attached and detached plasmas in the DIII-D tokamak. Nuclear Fusion, 2018, 58, 096014.	3.5	17
26	Bifurcation of quiescent H-mode to a wide pedestal regime in DIII-D and advances in the understanding of edge harmonic oscillations. Nuclear Fusion, 2017, 57, 086008.	3.5	26
27	Turbulence evolution and transport behavior during current ramp-up in ITER-like plasmas on DIII-D. Nuclear Fusion, 2017, 57, 086032.	3.5	1
28	Turbulence and sheared flow structures behind the isotopic dependence of the L-H power threshold on DIII-D. Nuclear Fusion, 2017, 57, 126015.	3.5	25
29	Stationary QH-mode plasmas with high and wide pedestal at low rotation on DIII-D. Nuclear Fusion, 2017, 57, 022007.	3.5	36
30	Increased electron temperature turbulence during suppression of edge localized mode by resonant magnetic perturbations in the DIII-D tokamak. Physics of Plasmas, 2017, 24, .	1.9	19
31	Discovery of stationary operation of quiescent H-mode plasmas with net-zero neutral beam injection torque and high energy confinement on DIII-D. Physics of Plasmas, 2016, 23, .	1.9	59
32	Rotational shear effects on edge harmonic oscillations in DIII-D quiescent H-mode discharges. Nuclear Fusion, 2016, 56, 076011.	3.5	28
33	Evolution of E × B shear and coherent fluctuations prior to H-L transitions in DIII-D and control strategies for H-L transitions. Physics of Plasmas, 2015, 22, .	1.9	5
34	Enhanced H-mode pedestals with lithium injection in DIII-D. Nuclear Fusion, 2015, 55, 063018.	3.5	123
35	Observation of the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mi> </mml:mi> <mml:mtext> â^² </mml:mtext> <mml:mi> </mml:mi> <td>nrow>7.8</td><td>ml;math>Co</td></mml:mrow></mml:math>	nrow>7.8	ml;math>Co
36	The role of zonal flows and predator–prey oscillations in triggering the formation of edge and core transport barriers. Nuclear Fusion, 2014, 54, 073012.	3.5	27

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37	Turbulent-driven low-frequency shearedE×Bflows as the trigger for the H-mode transition. Nuclear Fusion, 2013, 53, 073053.	3.5	101
38	Increase of turbulence and transport with resonant magnetic perturbations in ELM-suppressed plasmas on DIII-D. Nuclear Fusion, 2013, 53, 113011.	3 . 5	73
39	Global gyrokinetic simulations of the H-mode tokamak edge pedestal. Physics of Plasmas, 2013, 20, .	1.9	23
40	Experimental characterization of multiscale and multifield turbulence as a critical gradient threshold is surpassed in the DIII-D tokamak. Physics of Plasmas, 2013, 20, .	1.9	21
41	Energetic ion transport by microturbulence is insignificant in tokamaks. Physics of Plasmas, 2013, 20, 056108.	1.9	35
42	Simulations of drift resistive ballooning L-mode turbulence in the edge plasma of the DIII-D tokamak. Physics of Plasmas, 2013, 20, .	1.9	17
43	Relating the L–H power threshold scaling to edge turbulence dynamics. Nuclear Fusion, 2013, 53, 113038.	3 . 5	4
44	Improved understanding of physics processes in pedestal structure, leading to improved predictive capability for ITER. Nuclear Fusion, 2013, 53, 093024.	3 . 5	59
45	Global Gyrokinetic Simulation of Tokamak Edge Pedestal Instabilities. Physical Review Letters, 2012, 109, 185004.	7.8	48
46	Advances in validating gyrokinetic turbulence models against L- and H-mode plasmas. Physics of Plasmas, 2011, 18, 056113.	1.9	69
47	High-Frequency Coherent Edge Fluctuations in a High-Pedestal-Pressure Quiescent H-Mode Plasma. Physical Review Letters, 2011, 107, 055004.	7.8	60
48	Generation of a Sheared Plasma Rotation by Emission, Propagation, and Absorption of Drift Wave Packets. Physical Review Letters, 2011, 107, 055003.	7.8	38
49	Pedestal density fluctuation dynamics during the inter-ELM cycle in DIII-D. Physics of Plasmas, 2011, 18, 056117.	1.9	38
50	Fourier-domain study of drift turbulence driven sheared flow in a laboratory plasma. Physics of Plasmas, 2010, 17, 032311.	1.9	35
51	Scaling properties of turbulence driven shear flow. Physics of Plasmas, 2010, 17, 012302.	1.9	9
52	Shear flow and drift wave turbulence dynamics in a cylindrical plasma device. Physics of Plasmas, 2010, 17, 032302.	1.9	26
53	Intrinsic Rotation from a Residual Stress at the Boundary of a Cylindrical Laboratory Plasma. Physical Review Letters, 2010, 104, 065002.	7.8	36
54	Probing plasma turbulence by modulating the electron temperature gradient. Physics of Plasmas, 2010, 17, .	1.9	32

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55	Wide-field turbulence imaging with beam emission spectroscopy. Review of Scientific Instruments, 2010, 81, 10D741.	1.3	35
56	Study of nonlinear spectral energy transfer in frequency domain. Physics of Plasmas, 2009, 16, .	1.9	50
57	Pedestal width and ELM size identity studies in JET and DIII-D; implications for ITER. Plasma Physics and Controlled Fusion, 2009, 51, 124051.	2.1	44
58	The Physics of Zonal Flow-Drift Wave Turbulence Interactions: A Synthesis of Time-domain, Fourier Domain, and Direct Visualization Studies., 2009,,.		1
59	Nonlinear dynamics of shear flows and plasma rotation in a simple laboratory plasma system. Plasma Physics and Controlled Fusion, 2009, 51, 124055.	2.1	9
60	Statistical analysis of the turbulent Reynolds stress and its link to the shear flow generation in a cylindrical laboratory plasma device. Physics of Plasmas, 2008, 15 , .	1.9	37
61	Examination of the velocity time-delay-estimation technique. Journal of Nuclear Materials, 2007, 363-365, 728-732.	2.7	27