

# Yang Ren

## List of Publications by Year in descending order

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73  
papers

2,080  
citations

279701

23  
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243529

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74  
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74  
docs citations

74  
times ranked

1555  
citing authors

#	ARTICLE	IF	CITATIONS
1	A poloidal high-k scattering system for NSTX-U. <i>Journal of Instrumentation</i> , 2022, 17, C01018.	0.5	1
2	Interpreting radial correlation Doppler reflectometry using gyrokinetic simulations. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 055019.	0.9	9
3	Noise suppression for MHD characterization with electron cyclotron emission imaging 1D technique. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 055001.	0.9	6
4	Integrated package of electron cyclotron emission imaging data processing and forward modeling in OMFIT. <i>Review of Scientific Instruments</i> , 2021, 92, 033540.	0.6	3
5	System-on-chip upgrade of millimeter-wave imaging diagnostics for fusion plasma. <i>Review of Scientific Instruments</i> , 2021, 92, 053522.	0.6	10
6	Exploring the regime of validity of global gyrokinetic simulations with spherical tokamak plasmas. <i>Nuclear Fusion</i> , 2020, 60, 026005.	1.6	7
7	Lower Hybrid Drift Waves During Guide Field Reconnection. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087192.	1.5	16
8	W-band system-on-chip electron cyclotron emission imaging system on DIII-D. <i>Review of Scientific Instruments</i> , 2020, 91, 093504.	0.6	14
9	Experimental study of high- $k$ turbulence during an energy confinement degradation phase in EAST ohmic plasmas. <i>Nuclear Fusion</i> , 2020, 60, 046016.	1.6	3
10	Quantitative comparisons of electron-scale turbulence measurements in NSTX via synthetic diagnostics for high- $k$ scattering. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 075001.	0.9	7
11	Validation of gyrokinetic simulations in NSTX and projections for high- $k$ turbulence measurements in NSTX-U. <i>Physics of Plasmas</i> , 2020, 27, 122505.	0.7	4
12	Experimental observation of electron-scale turbulence evolution across the $L \rightarrow H$ transition in the National Spherical Torus Experiment. <i>Nuclear Fusion</i> , 2019, 59, 096045.	1.6	2
13	Validation of gyrokinetic simulations of a National Spherical Torus eXperiment H-mode plasma and comparisons with a high- $k$ scattering synthetic diagnostic. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 115015.	0.9	6
14	Experimental study of quasi-coherent mode using EAST tangential CO2 laser collective scattering diagnostic in far-forward mode. <i>Physics of Plasmas</i> , 2019, 26, 012304.	0.7	11
15	Experimental characterization of the effect of $E \times B$ shear on edge-harmonic oscillation mode structure. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 085003.	0.9	5
16	NSTX/NSTX-U theory, modeling and analysis results. <i>Nuclear Fusion</i> , 2019, 59, 112007.	1.6	20
17	Overview of HL-2A recent experiments. <i>Nuclear Fusion</i> , 2019, 59, 112017.	1.6	27
18	Recent advances in EAST physics experiments in support of steady-state operation for ITER and CFETR. <i>Nuclear Fusion</i> , 2019, 59, 112003.	1.6	93

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19	Experimental study of the effect of 2/1 classical tearing mode on (intermediate, small)-scale microturbulence in the core of an EAST L mode plasma. Plasma Physics and Controlled Fusion, 2018, 60, 025019.	0.9	8
20	Experimental identification of nonlinear coupling between (intermediate, small)-scale microturbulence and an MHD mode in the core of a superconducting tokamak. Nuclear Fusion, 2018, 58, 016003.	1.6	13
21	Liquid crystal polymer receiver modules for electron cyclotron emission imaging on the DIII-D tokamak. Review of Scientific Instruments, 2018, 89, 10H120.	0.6	15
22	The high- $k$ poloidal scattering system for NSTX-U. Review of Scientific Instruments, 2018, 89, 10C114.	0.6	5
23	Conceptual design of the three-dimensional magnetic field configuration relevant to the magnetopause reconnection in the SPERF. Plasma Science and Technology, 2017, 19, 034002.	0.7	21
24	Development of plasma sources for Dipole Research EXperiment (DREX). Plasma Science and Technology, 2017, 19, 055302.	0.7	10
25	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	1.6	45
26	Recent progress in understanding electron thermal transport in NSTX. Nuclear Fusion, 2017, 57, 072002.	1.6	20
27	Perturbative momentum transport in MAST L-mode plasmas. Nuclear Fusion, 2017, 57, 056022.	1.6	5
28	Quasi-linear gyrokinetic predictions of the Coriolis momentum pinch in National Spherical Torus Experiment. Physics of Plasmas, 2016, 23, 052508.	0.7	2
29	Far-infrared tangential interferometer/polarimeter design and installation for NSTX-U. Review of Scientific Instruments, 2016, 87, 11E114.	0.6	3
30	Stabilization of electron-scale turbulence by electron density gradient in national spherical torus experiment. Physics of Plasmas, 2015, 22, .	0.7	14
31	Identification of new turbulence contributions to plasma transport and confinement in spherical tokamak regime. Physics of Plasmas, 2015, 22, .	0.7	23
32	Fast response of electron-scale turbulence to auxiliary heating cessation in National Spherical Torus Experiment. Physics of Plasmas, 2015, 22, .	0.7	10
33	Distinct turbulence sources and confinement features in the spherical tokamak plasma regime. Nuclear Fusion, 2015, 55, 122001.	1.6	8
34	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	1.6	21
35	Overview of MAST results. Nuclear Fusion, 2015, 55, 104008.	1.6	16
36	Effect of a deuterium gas puff on the edge plasma in NSTX. Plasma Physics and Controlled Fusion, 2014, 56, 095010.	0.9	23

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37	Two-dimensional simulations for EM wave propagating in space. , 2014, , .		0
38	Edge microstability of NSTX plasmas without and with lithium-coated plasma-facing components. Nuclear Fusion, 2013, 53, 113016.	1.6	52
39	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 104007.	1.6	53
40	Electron-scale turbulence spectra and plasma thermal transport responding to continuous $E \times B$ shear ramp-up in a spherical tokamak. Nuclear Fusion, 2013, 53, 083007.	1.6	21
41	Recent progress in the NSTX/NSTX-U lithium programme and prospects for reactor-relevant liquid-lithium based divertor development. Nuclear Fusion, 2013, 53, 113030.	1.6	32
42	Progress in simulating turbulent electron thermal transport in NSTX. Nuclear Fusion, 2013, 53, 093022.	1.6	67
43	Dissipation range turbulent cascades in plasmas. Physics of Plasmas, 2012, 19, .	0.7	17
44	Experimental study of parametric dependence of electron-scale turbulence in a spherical tokamak. Physics of Plasmas, 2012, 19, .	0.7	25
45	Simulation of microtearing turbulence in national spherical torus experiment. Physics of Plasmas, 2012, 19, 056119.	0.7	53
46	Investigation of a transient energetic charge exchange flux enhancement ( $\tilde{\alpha}$ spike-on-tail™) observed in neutral-beam-heated H-mode discharges in the National Spherical Torus Experiment. Nuclear Fusion, 2012, 52, 013014.	1.6	5
47	Overview of the physics and engineering design of NSTX upgrade. Nuclear Fusion, 2012, 52, 083015.	1.6	177
48	Recent progress of NSTX lithium program and opportunities for magnetic fusion research. Fusion Engineering and Design, 2012, 87, 1770-1776.	1.0	11
49	Overview of physics results from NSTX. Nuclear Fusion, 2011, 51, 094011.	1.6	10
50	Density Gradient Stabilization of Electron Temperature Gradient Driven Turbulence in a Spherical Tokamak. Physical Review Letters, 2011, 106, 165005.	2.9	48
51	Experimental Observation of Anisotropic Magnetic Turbulence in a Reversed Field Pinch Plasma. Physical Review Letters, 2011, 107, 195002.	2.9	18
52	Edge transport and turbulence reduction with lithium coated plasma facing components in the National Spherical Torus Experiment. Physics of Plasmas, 2011, 18, .	0.7	59
53	Driven magnetic reconnection near the Dreicer limit. Physics of Plasmas, 2010, 17, .	0.7	25
54	Mass-Dependent Ion Heating during Magnetic Reconnection in a Laboratory Plasma. Physical Review Letters, 2009, 103, 145002.	2.9	50

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55	New insights into dissipation in the electron layer during magnetic reconnection. Geophysical Research Letters, 2008, 35, .	1.5	72
56	Internal magnetic field structure and parallel electric field profile evolution during the sawtooth cycle in MST. Plasma Physics and Controlled Fusion, 2008, 50, 115013.	0.9	3
57	Identification of the Electron-Diffusion Region during Magnetic Reconnection in a Laboratory Plasma. Physical Review Letters, 2008, 101, 085003.	2.9	60
58	Two-dimensional fully kinetic simulations of driven magnetic reconnection with boundary conditions relevant to the Magnetic Reconnection Experiment. Physics of Plasmas, 2008, 15, .	0.7	29
59	Field-reversed configuration formation scheme utilizing a spheromak and solenoid induction. Physics of Plasmas, 2008, 15, 032503.	0.7	4
60	Experimental study of the Hall effect and electron diffusion region during magnetic reconnection in a laboratory plasma. Physics of Plasmas, 2008, 15, 082113.	0.7	27
61	Inductive sustainment of oblate field-reversed configurations with the assistance of magnetic diffusion, shaping, and finite-Larmor radius stabilization. Physics of Plasmas, 2008, 15, 022503.	0.7	2
62	New method for inductively forming an oblate field reversed configuration from a spheromak. Nuclear Fusion, 2008, 48, 032001.	1.6	2
63	Inductive Sustainment of a Field-Reversed Configuration Stabilized by Shaping, Magnetic Diffusion, and Finite-Larmor-Radius Effects. Physical Review Letters, 2007, 99, 245003.	2.9	12
64	Effects of global boundary and local collisionality on magnetic reconnection in a laboratory plasma. Geophysical Research Letters, 2007, 34, .	1.5	13
65	Electromagnetic Perturbations in the Reconnecting Current Sheet in MRX. AIP Conference Proceedings, 2006, , .	0.3	1
66	Measurements of the parallel and transverse Spitzer resistivities during collisional magnetic reconnection. Physics of Plasmas, 2006, 13, 055703.	0.7	35
67	Experimental study of two-fluid effects on magnetic reconnection in a laboratory plasma with variable collisionality. Physics of Plasmas, 2006, 13, 052119.	0.7	146
68	Equilibrium and stability studies of oblate field-reversed configurations in the Magnetic Reconnection Experiment. Physics of Plasmas, 2006, 13, 112508.	0.7	22
69	Coupling between Global Geometry and the Local Hall Effect Leading to Reconnection-Layer Symmetry Breaking. Physical Review Letters, 2006, 97, 135002.	2.9	22
70	Study of Magnetic Reconnection in a Laboratory Experiment. AIP Conference Proceedings, 2005, , .	0.3	0
71	Experimental Verification of the Hall Effect during Magnetic Reconnection in a Laboratory Plasma. Physical Review Letters, 2005, 95, 055003.	2.9	174
72	Electromagnetic Fluctuations during Fast Reconnection in a Laboratory Plasma. Physical Review Letters, 2004, 92, 115001.	2.9	187

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73	Flux Rope Acceleration and Enhanced Magnetic Reconnection Rate. <i>Astrophysical Journal</i> , 2003, 596, 1341-1346.	1.6	40