

# Deyong Liu

## List of Publications by Year in descending order

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53  
papers

998  
citations

471509

17  
h-index

454955

30  
g-index

53  
all docs

53  
docs citations

53  
times ranked

931  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Code that Simulates Fast-Ion $\langle i \rangle D_{\pm}$ and Neutral Particle Measurements. Communications in Computational Physics, 2011, 10, 716-741.	1.7	119
2	Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2005, 45, S168-S180.	3.5	60
3	Modeling fast-ion transport during toroidal Alfvén eigenmode avalanches in National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, 122505.	1.9	59
4	Experimental studies on fast-ion transport by Alfvén wave avalanches on the National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, .	1.9	56
5	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 104007.	3.5	53
6	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	3.5	45
7	Progress in modelling fast-ion D-alpha spectra and neutral particle analyzer fluxes using FIDASIM. Plasma Physics and Controlled Fusion, 2020, 62, 105008.	2.1	43
8	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
9	Overview of recent physics results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2007, 47, S645-S657.	3.5	40
10	Advances in high-harmonic fast wave physics in the National Spherical Torus Experiment. Physics of Plasmas, 2010, 17, 056114.	1.9	34
11	Overview of results from the MST reversed field pinch experiment. Nuclear Fusion, 2013, 53, 104017.	3.5	33
12	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	3.5	21
13	NSTX/NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2019, 59, 112007.	3.5	20
14	Performance of the solid state neutral particle analyzer array on the national spherical torus experiment. Review of Scientific Instruments, 2006, 77, 10F113.	1.3	19
15	Profiles of fast ions that are accelerated by high harmonic fast waves in the National Spherical Torus Experiment. Plasma Physics and Controlled Fusion, 2010, 52, 025006.	2.1	19
16	Fast ion confinement and stability in a neutral beam injected reversed field pinch. Physics of Plasmas, 2013, 20, .	1.9	19
17	Iterated finite-orbit Monte Carlo simulations with full-wave fields for modeling tokamak ion cyclotron resonance frequency wave heating experiments. Physics of Plasmas, 2010, 17, .	1.9	17
18	Measurement of energetic-particle-driven core magnetic fluctuations and induced fast-ion transport. Physics of Plasmas, 2013, 20, 030701.	1.9	17

#	ARTICLE	IF	CITATIONS
19	Fast-Particle-Driven Alfvénic Modes in a Reversed Field Pinch. <i>Physical Review Letters</i> , 2012, 109, 115003.	7.8	16
20	Overview of results from the MST reversed field pinch experiment. <i>Nuclear Fusion</i> , 2015, 55, 104006.	3.5	16
21	Time-resolved ion energy distribution measurements using an advanced neutral particle analyzer on the MST reversed-field pinch. <i>Review of Scientific Instruments</i> , 2012, 83, 10D302.	1.3	15
22	Hybrid simulation of toroidal Alfvén eigenmode on the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2015, 22, 042509.	1.9	13
23	Neutral beam heating of a RFP plasma in MST. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	12
24	Energetic-particle-driven instabilities and induced fast-ion transport in a reversed field pinch. <i>Physics of Plasmas</i> , 2014, 21, 056104.	1.9	12
25	Reduced energetic particle transport models enable comprehensive time-dependent tokamak simulations. <i>Nuclear Fusion</i> , 2019, 59, 106013.	3.5	12
26	Dust charging and levitating in cathode sheath of glow discharges with energetic electron beam. <i>Journal of Applied Physics</i> , 2000, 88, 1276-1280.	2.5	11
27	Suppression of energetic particle driven instabilities with HHFW heating. <i>Nuclear Fusion</i> , 2015, 55, 013012.	3.5	11
28	Orbit modeling of fast particle redistribution induced by sawtooth instability. <i>Nuclear Fusion</i> , 2018, 58, 082029.	3.5	11
29	Effect of sawtooth crashes on fast ion distribution in NSTX-U. <i>Nuclear Fusion</i> , 2018, 58, 082028.	3.5	11
30	Overview of physics results from NSTX. <i>Nuclear Fusion</i> , 2011, 51, 094011.	3.5	10
31	Development of an integrated energetic neutral particle measurement system on experimental advanced full superconducting tokamak. <i>Review of Scientific Instruments</i> , 2014, 85, 11E107.	1.3	10
32	Design of solid state neutral particle analyzer array for National Spherical Torus Experiment-Upgrade. <i>Review of Scientific Instruments</i> , 2014, 85, 11E105.	1.3	10
33	Compact and multi-view solid state neutral particle analyzer arrays on National Spherical Torus Experiment-Upgrade. <i>Review of Scientific Instruments</i> , 2016, 87, 11D803.	1.3	10
34	Cause and impact of low-frequency chirping modes in DIII-D hybrid discharges. <i>Nuclear Fusion</i> , 2020, 60, 112009.	3.5	10
35	Avalanche transport of energetic-ions in magnetic confinement plasmas: nonlinear multiple wave-number simulation. <i>Nuclear Fusion</i> , 2022, 62, 016012.	3.5	10
36	Majority Ion Heating by Neutral Beam Injection and Confinement of Fast Ions in the Madison Symmetric Torus Reversed Field Pinch. <i>Fusion Science and Technology</i> , 2011, 59, 27-30.	1.1	8

#	ARTICLE	IF	CITATIONS
37	Calibration of an advanced neutral particle analyzer for the Madison Symmetric Torus reversed-field pinch. Review of Scientific Instruments, 2012, 83, 10D704.	1.3	8
38	Simulation of neutron emission in neutral beam injection heated plasmas with the real-time code RABBIT. Nuclear Fusion, 2019, 59, 086002.	3.5	8
39	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8
40	Investigation of fast particle redistribution induced by sawtooth instability in NSTX-U. Nuclear Fusion, 2019, 59, 086007.	3.5	7
41	Testing the DIII-D co/counter off-axis neutral beam injected power and ability to balance injected torque. Nuclear Fusion, 0, , .	3.5	7
42	Measurement of the passive fast-ion D-alpha emission on the NSTX-U tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 025026.	2.1	6
43	Neutral particle analyzer for studies of fast ion population in plasma. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 42-44.	1.6	5
44	Analysis of fast-ion D-alpha data from the National Spherical Torus Experiment. Nuclear Fusion, 2016, 56, 056005.	3.5	5
45	A comparative study of internal kink stability in EU DEMO designs with negative and positive triangularity. Plasma Physics and Controlled Fusion, 2021, 63, 065007.	2.1	5
46	CQL3D-Hybrid-FOW modeling of the temporal dynamics of NSTX NBI+HHFW discharges. , 2014, , .		4
47	Implementation of a 3D halo neutral model in the TRANSP code and application to projected NSTX-U plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 025007.	2.1	4
48	Effects of pressure gradient on global Alfvén eigenmodes in reversed field pinch. Physics of Plasmas, 2014, 21, 022513.	1.9	3
49	On the scattering correction of fast-ion D-alpha signals on NSTX-U. Review of Scientific Instruments, 2018, 89, 063507.	1.3	2
50	Effect of anisotropic fast ions on internal kink stability in DIII-D negative and positive triangularity plasmas. Nuclear Fusion, 0, , .	3.5	2
51	Microelectronic Fabrication of Transition Edge Sensors. Microscopy and Microanalysis, 2003, 9, 122-123.	0.4	1
52	Transition Edge Sensor Fabrication. Microscopy and Microanalysis, 2002, 8, 640-641.	0.4	0
53	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 0, , .	3.5	0