

# John W Berkery

## List of Publications by Year in descending order

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52  
papers

1,148  
citations

394421

19  
h-index

395702

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g-index

54  
all docs

54  
docs citations

54  
times ranked

722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in global MHD mode stabilization research on NSTX. Nuclear Fusion, 2010, 50, 025020.	3.5	111
2	The role of kinetic effects, including plasma rotation and energetic particles, in resistive wall mode stability. Physics of Plasmas, 2010, 17, .	1.9	102
3	Resistive Wall Mode Instability at Intermediate Plasma Rotation. Physical Review Letters, 2010, 104, 035003.	7.8	99
4	Progress in understanding error-field physics in NSTX spherical torus plasmas. Nuclear Fusion, 2010, 50, 045008.	3.5	77
5	Progress in disruption prevention for ITER. Nuclear Fusion, 2019, 59, 112012.	3.5	59
6	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 104007.	3.5	53
7	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	3.5	45
8	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
9	Physics-guided machine learning approaches to predict the ideal stability properties of fusion plasmas. Nuclear Fusion, 2020, 60, 046033.	3.5	44
10	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
11	Benchmarking kinetic calculations of resistive wall mode stability. Physics of Plasmas, 2014, 21, .	1.9	41
12	Neoclassical toroidal viscosity in perturbed equilibria with general tokamak geometry. Physics of Plasmas, 2013, 20, .	1.9	36
13	A reduced resistive wall mode kinetic stability model for disruption forecasting. Physics of Plasmas, 2017, 24, .	1.9	36
14	Effect of Collisionality on Kinetic Stability of the Resistive Wall Mode. Physical Review Letters, 2011, 106, 075004.	7.8	35
15	KSTAR equilibrium operating space and projected stabilization at high normalized beta. Nuclear Fusion, 2011, 51, 053001.	3.5	33
16	Measurements of current sheet canting in a pulsed electromagnetic accelerator. Physics of Plasmas, 2004, 11, 4847-4858.	1.9	24
17	Investigation of multiple roots of the resistive wall mode dispersion relation, including kinetic effects. Physics of Plasmas, 2011, 18, .	1.9	23
18	NSTX/NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2019, 59, 112007.	3.5	20

#	ARTICLE	IF	CITATIONS
19	The effect of an anisotropic pressure of thermal particles on resistive wall mode stability. Physics of Plasmas, 2014, 21, .	1.9	19
20	Observations of an Ion-Driven Instability in Non-Neutral Plasmas Confined on Magnetic Surfaces. Physical Review Letters, 2008, 100, 065002.	7.8	18
21	Confinement of pure electron plasmas in the Columbia Non-neutral Torus. Physics of Plasmas, 2007, 14, 062503.	1.9	16
22	Modifications to ideal stability by kinetic effects in NSTX. Nuclear Fusion, 2015, 55, 123007.	3.5	16
23	Investigation of MHD instabilities and control in KSTAR preparing for high beta operation. Nuclear Fusion, 2013, 53, 083029.	3.5	15
24	Measured improvement of global magnetohydrodynamic mode stability at high-beta, and in reduced collisionality spherical torus plasmas. Physics of Plasmas, 2014, 21, .	1.9	14
25	Stability of DIII-D high-performance, negative central shear discharges. Nuclear Fusion, 2017, 57, 056009.	3.5	12
26	Magnetic Surface Visualizations in the Columbia Non-Neutral Torus. IEEE Transactions on Plasma Science, 2008, 36, 1108-1109.	1.3	11
27	Overview of physics results from NSTX. Nuclear Fusion, 2011, 51, 094011.	3.5	10
28	Kinetic equilibrium reconstructions of plasmas in the MAST database and preparation for reconstruction of the first plasmas in MAST upgrade. Plasma Physics and Controlled Fusion, 2021, 63, 055014.	2.1	9
29	Basic mechanisms controlling the sweeping efficiency of propagating current sheets. Plasma Sources Science and Technology, 2006, 15, 64-71.	3.1	8
30	Ion accumulation in an electron plasma confined on magnetic surfaces. Physics of Plasmas, 2007, 14, .	1.9	8
31	Application of benchmarked kinetic resistive wall mode stability codes to ITER, including additional physics. Physics of Plasmas, 2017, 24, .	1.9	8
32	Soft x-ray measurements of resistive wall mode behavior in NSTX. Plasma Physics and Controlled Fusion, 2011, 53, 035005.	2.1	7
33	Investigation of instabilities and rotation alteration in high beta KSTAR plasmas. Physics of Plasmas, 2017, 24, .	1.9	7
34	Visualization of current sheet evolution in a pulsed plasma accelerator. IEEE Transactions on Plasma Science, 2005, 33, 528-529.	1.3	6
35	Projected global stability of high beta MAST-U spherical tokamak plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 085007.	2.1	6
36	Laser discharge initiation for gas-fed pulsed plasma thrusters. , 2001, , .		5

#	ARTICLE	IF	CITATIONS
37	The effect of the electric field on the confinement of electron plasmas on magnetic surfaces. Physics of Plasmas, 2007, 14, 104503.	1.9	5
38	Confirmation of a large density variation along the magnetic axis of the Columbia Non-neutral Torus. Physics of Plasmas, 2008, 15, 020701.	1.9	5
39	A retractable electron emitter for the creation of unperturbed pure electron plasmas. Review of Scientific Instruments, 2007, 78, 013504.	1.3	4
40	Resistive wall mode active control physics design for KSTAR. Physics of Plasmas, 2014, 21, 012513.	1.9	4
41	Dynamics of Electron-Rich Plasmas in the CNT Stellarator. Plasma and Fusion Research, 2008, 3, S1022-S1022.	0.7	4
42	Analysis of MHD stability and active mode control on KSTAR for high confinement, disruption-free plasma. Nuclear Fusion, 2020, 60, 056007.	3.5	3
43	Canted Current Sheet Mass Leakage and its Impact on Pulsed Plasma Thruster Performance. , 2004, , .		2
44	Current Sheet Permeability in Electromagnetic Pulsed Plasma Thrusters. , 2002, , .		1
45	Laser interferometry measurements of a high density propagating current sheet. Plasma Sources Science and Technology, 2007, 16, 233-239.	3.1	1
46	First Studies of Pure Electron Plasmas in the Columbia Non-neutral Torus. AIP Conference Proceedings, 2006, , .	0.4	0
47	Equilibrium, stability, and transport of electron plasmas in the Columbia Non-neutral Torus. , 2007, , .		0
48	Pure Electron Plasmas Confined on Magnetic Surfaces. , 2007, , .		0
49	Studies Of Enhanced Confinement In The Columbia Non-Neutral Torus. , 2009, , .		0
50	Confinement of pure electron plasmas in the CNT stellarator. , 2009, , .		0
51	Studies of a Parallel Force Balance Breaking Instability in a Stellarator. , 2009, , .		0
52	Pure Electron Equilibrium and Transport Jumps in the Columbia Non-neutral Torus. , 2009, , .		0