

# John Sarff

## List of Publications by Year in descending order

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56  
papers

1,274  
citations

304743

22  
h-index

377865

34  
g-index

56  
all docs

56  
docs citations

56  
times ranked

688  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational study of runaway electrons in MST tokamak discharges with applied resonant magnetic perturbation. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
2	Dissipation in the magnetic turbulence of reversed field pinch plasmas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	2
3	Direct measurements of the 3D plasma velocity in single-helical-axis RFP plasmas. <i>Physics of Plasmas</i> , 2021, 28, 012510.	1.9	0
4	The reversed field pinch. <i>Nuclear Fusion</i> , 2021, 61, 023001.	3.5	42
5	Direct Measurement of a Toroidally Directed Zonal Flow in a Toroidal Plasma. <i>Physical Review Letters</i> , 2019, 122, 105001.	7.8	15
6	Turbulence-driven anisotropic electron tail generation during magnetic reconnection. <i>Physics of Plasmas</i> , 2018, 25, 055705.	1.9	4
7	Observation of trapped-electron-mode microturbulence in reversed field pinch plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	13
8	Development of a multi-channel capacitive probe for electric field measurements with fine spatial and high time resolution. <i>Review of Scientific Instruments</i> , 2018, 89, 10J118.	1.3	1
9	Measurements of Impurity Transport Due to Drift-Wave Turbulence in a Toroidal Plasma. <i>Physical Review Letters</i> , 2018, 121, 165002.	7.8	7
10	Dependence of Perpendicular Viscosity on Magnetic Fluctuations in a Stochastic Topology. <i>Physical Review Letters</i> , 2018, 120, 225002.	7.8	9
11	Evidence for drift waves in the turbulence of reversed field pinch plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6
12	Linearized spectrum correlation analysis for line emission measurements. <i>Review of Scientific Instruments</i> , 2017, 88, 083513.	1.3	2
13	Dynamics of a reconnection-driven runaway ion tail in a reversed field pinch plasma. <i>Physics of Plasmas</i> , 2016, 23, 055702.	1.9	3
14	Effect of resonant magnetic perturbations on three dimensional equilibria in the Madison Symmetric Torus reversed-field pinch. <i>Physics of Plasmas</i> , 2016, 23, 056104.	1.9	10
15	Runaway of energetic test ions in a toroidal plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
16	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
17	Measurement of energetic-particle-driven core magnetic fluctuations and induced fast-ion transport. <i>Physics of Plasmas</i> , 2013, 20, 030701.	1.9	17
18	Charge-to-mass-ratio-dependent ion heating during magnetic reconnection in the MST RFP. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	11

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19	Kinetic Stress and Intrinsic Flow in a Toroidal Plasma. <i>Physical Review Letters</i> , 2013, 110, 065008.	7.8	15
20	Dissipation range turbulent cascades in plasmas. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	17
21	Classical confinement and outward convection of impurity ions in the MST RFP. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	12
22	Bifurcation to 3D Helical Magnetic Equilibrium in an Axisymmetric Toroidal Device. <i>Physical Review Letters</i> , 2011, 107, 255001.	7.8	33
23	Experimental Observation of Anisotropic Magnetic Turbulence in a Reversed Field Pinch Plasma. <i>Physical Review Letters</i> , 2011, 107, 195002.	7.8	18
24	Equilibrium evolution in oscillating-field current-drive experiments. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	12
25	Measurements of the momentum and current transport from tearing instability in the Madison Symmetric Torus reversed-field pinch. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	25
26	Magnetic-Fluctuation-Induced Particle Transport and Density Relaxation in a High-Temperature Plasma. <i>Physical Review Letters</i> , 2009, 103, 025001.	7.8	17
27	Mass-Dependent Ion Heating during Magnetic Reconnection in a Laboratory Plasma. <i>Physical Review Letters</i> , 2009, 103, 145002.	7.8	50
28	High- $\hat{I}^2$ , improved confinement reversed-field pinch plasmas at high density. <i>Physics of Plasmas</i> , 2008, 15, 010701.	1.9	18
29	Measurements of the Hall dynamo in the reversed field pinch edge during reconnection events. , 2007, , .		0
30	Two-dimensional time resolved measurements of the electron temperature in MST. <i>Review of Scientific Instruments</i> , 2006, 77, 10F318.	1.3	15
31	High-speed three-wave polarimeter-interferometer diagnostic for Madison symmetric torus. <i>Review of Scientific Instruments</i> , 2006, 77, 10F108.	1.3	24
32	Tomographic imaging of resistive mode dynamics in the Madison Symmetric Torus reversed-field pinch. <i>Physics of Plasmas</i> , 2006, 13, 012510.	1.9	30
33	Reduced intermittency in the magnetic turbulence of reversed field pinch plasmas. <i>Physics of Plasmas</i> , 2005, 12, 030701.	1.9	14
34	Dynamo-free plasma in the reversed field pinch. <i>Physics of Plasmas</i> , 2004, 11, L9-L12.	1.9	17
35	Measurement of the Hall Dynamo Effect during Magnetic Reconnection in a High-Temperature Plasma. <i>Physical Review Letters</i> , 2004, 93, 045002.	7.8	56
36	Measurement of current profile dynamics in the Madison Symmetric Torus. <i>Physics of Plasmas</i> , 2004, 11, 1079-1086.	1.9	15

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37	Laser polarimetric measurement of equilibrium and fluctuating magnetic fields in a reversed field pinch (invited). Review of Scientific Instruments, 2003, 74, 1534-1540.	1.3	73
38	Measurement of the Current Sheet during Magnetic Reconnection in a Toroidal Plasma. Physical Review Letters, 2003, 90, 035003.	7.8	26
39	Tokamak-like confinement at high beta and low field in the reversed field pinch. Plasma Physics and Controlled Fusion, 2003, 45, A457-A470.	2.1	27
40	Quasi-single helicity spectra in the Madison Symmetric Torus. Physics of Plasmas, 2002, 9, 2868-2871.	1.9	51
41	High confinement plasmas in the Madison Symmetric Torus reversed-field pinch. Physics of Plasmas, 2002, 9, 2061-2068.	1.9	87
42	Control of magnetic fluctuations in the reversed field pinch with edge current drive. Physics of Plasmas, 2001, 8, 1463-1466.	1.9	2
43	Plasma flow in MST: Effects of edge biasing and momentum transport from nonlinear magnetic torques. European Physical Journal D, 2000, 50, 1471-1476.	0.4	5
44	Modifications to the edge current profile with auxiliary edge current drive and improved confinement in a reversed-field pinch. Physics of Plasmas, 2000, 7, 3491-3494.	1.9	20
45	Measurement of core velocity fluctuations and the dynamo in a reversed-field pinch. Physics of Plasmas, 1999, 6, 1813-1821.	1.9	50
46	Experimental scaling of fluctuations and confinement with Lundquist number in the reversed-field pinch. Physics of Plasmas, 1998, 5, 1004-1014.	1.9	36
47	Locking of multiple resonant mode structures in the reversed-field pinch. Physics of Plasmas, 1998, 5, 2942-2946.	1.9	24
48	$E \times B$ flow shear and enhanced confinement in the Madison Symmetric Torus reversed-field pinch. Physics of Plasmas, 1998, 5, 1848-1854.	1.9	22
49	Fivefold confinement time increase in the Madison Symmetric Torus using inductive poloidal current drive. Physics of Plasmas, 1997, 4, 1632-1637.	1.9	41
50	Sawteeth and energy confinement in the Madison Symmetric Torus reversed-field pinch. Physics of Plasmas, 1996, 3, 709-711.	1.9	26
51	Ambipolar magnetic fluctuation-induced heat transport in toroidal devices. Physics of Plasmas, 1996, 3, 1999-2005.	1.9	27
52	Effect of Collisionality and Diamagnetism on the Plasma Dynamo. Physical Review Letters, 1995, 75, 1086-1089.	7.8	23
53	Transport reduction by current profile control in the reversed-field pinch. Physics of Plasmas, 1995, 2, 2440-2446.	1.9	22
54	Lower-hybrid poloidal current drive for fluctuation reduction in a reversed field pinch. Physics of Plasmas, 1994, 1, 3517-3519.	1.9	37

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55	Locked modes and magnetic field errors in the Madison Symmetric Torus. Physics of Fluids B, 1992, 4, 4080-4085.	1.7	89
56	First results from the Madison Symmetric Torus reversed field pinch. Physics of Fluids B, 1990, 2, 1367-1371.	1.7	30