

Morgan Shafer

List of Publications by Year in descending order

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46
papers

1,470
citations

331670

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docs citations

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times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. <i>Physical Review Letters</i> , 2015, 114, 105002.	7.8	141
2	Observation of a Multimode Plasma Response and its Relationship to Density Pumpout and Edge-Localized Mode Suppression. <i>Physical Review Letters</i> , 2015, 114, 105001.	7.8	124
3	Implementation and application of two synthetic diagnostics for validating simulations of core tokamak turbulence. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	119
4	Measurements of core electron temperature and density fluctuations in DIII-D and comparison to nonlinear gyrokinetic simulations. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	102
5	Structure and scaling properties of the geodesic acoustic mode. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, S123-S136.	2.1	98
6	Detection of Zero-Mean-Frequency Zonal Flows in the Core of a High-Temperature Tokamak Plasma. <i>Physical Review Letters</i> , 2006, 97, 125002.	7.8	84
7	Core barrier formation near integer q surfaces in DIII-D. <i>Physics of Plasmas</i> , 2006, 13, 082502.	1.9	73
8	Turbulence velocimetry of density fluctuation imaging data. <i>Review of Scientific Instruments</i> , 2004, 75, 3490-3492.	1.3	56
9	Integration of full divertor detachment with improved core confinement for tokamak fusion plasmas. <i>Nature Communications</i> , 2021, 12, 1365.	12.8	50
10	A correlation electron cyclotron emission diagnostic and the importance of multifield fluctuation measurements for testing nonlinear gyrokinetic turbulence simulations. <i>Review of Scientific Instruments</i> , 2008, 79, 103505.	1.3	44
11	Optimizing stability, transport, and divertor operation through plasma shaping for steady-state scenario development in DIII-D. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	42
12	2D properties of core turbulence on DIII-D and comparison to gyrokinetic simulations. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	40
13	Improved core-edge compatibility using impurity seeding in the small angle slot (SAS) divertor at DIII-D. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	39
14	Spatial transfer function for the beam emission spectroscopy diagnostic on DIII-D. <i>Review of Scientific Instruments</i> , 2006, 77, 10F110.	1.3	35
15	Wide-field turbulence imaging with beam emission spectroscopy. <i>Review of Scientific Instruments</i> , 2010, 81, 10D741.	1.3	35
16	Separating divertor closure effects on divertor detachment and pedestal shape in DIII-D. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	28
17	Self-regulated oscillation of transport and topology of magnetic islands in toroidal plasmas. <i>Scientific Reports</i> , 2015, 5, 16165.	3.3	27
18	Localized Turbulence Suppression and Increased Flow Shear near the $q=2$ Surface during Internal-Transport-Barrier Formation. <i>Physical Review Letters</i> , 2009, 103, 075004.	7.8	26

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19	Simultaneous measurement of core electron temperature and density fluctuations during electron cyclotron heating on DIII-D. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	26
20	Dependence of neutral pressure on detachment in the small angle slot divertor at DIII-D. <i>Nuclear Materials and Energy</i> , 2019, 19, 487-492.	1.3	24
21	Connection between plasma response and resonant magnetic perturbation (RMP) edge localized mode (ELM) suppression in DIII-D. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 104006.	2.1	23
22	High sensitivity beam emission spectroscopy for core plasma turbulence imaging (invited). <i>Review of Scientific Instruments</i> , 2006, 77, 10F104.	1.3	21
23	Evidence of Toroidally Localized Turbulence with Applied 3D Fields in the DIII-D Tokamak. <i>Physical Review Letters</i> , 2016, 117, 135001.	7.8	21
24	EDGE2D-EIRENE predictions of molecular emission in DIII-D high-recycling divertor plasmas. <i>Nuclear Materials and Energy</i> , 2019, 19, 211-217.	1.3	19
25	Numerical assessment of the new V-shape small-angle slot divertor on DIII-D. <i>Nuclear Fusion</i> , 2021, 61, 116042.	3.5	17
26	Predicting the rotation profile in ITER. <i>Nuclear Fusion</i> , 2020, 60, 036003.	3.5	16
27	Modeling of 3D magnetic equilibrium effects on edge turbulence stability during RMP ELM suppression in tokamaks. <i>Nuclear Fusion</i> , 2017, 57, 116003.	3.5	13
28	Direct measurements of internal structures of born-locked modes and the key role in triggering tokamak disruptions. <i>Physics of Plasmas</i> , 2019, 26, 042505.	1.9	13
29	2D soft x-ray system on DIII-D for imaging the magnetic topology in the pedestal region. <i>Review of Scientific Instruments</i> , 2010, 81, 10E534.	1.3	12
30	Setting the H-mode pedestal structure: variations of particle source location using gas puff and pellet fueling. <i>Nuclear Fusion</i> , 2020, 60, 046003.	3.5	12
31	Validating simulations of core tokamak turbulence: current status and future directions. <i>Journal of Physics: Conference Series</i> , 2008, 125, 012043.	0.4	11
32	Absolute calibration of the Lyman- α measurement apparatus at DIII-D. <i>Review of Scientific Instruments</i> , 2021, 92, 033522.	1.3	9
33	Observation of fully detached divertor integrated with improved core confinement for tokamak fusion plasmas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	9
34	Ultrafast ion temperature and toroidal velocity fluctuation spectroscopy diagnostic design. <i>Review of Scientific Instruments</i> , 2008, 79, 10F528.	1.3	8
35	Plasma response measurements of non-axisymmetric magnetic perturbations on DIII-D via soft x-ray	1.9	8
36	Velocity fluctuation analysis via dynamic programming. <i>Review of Scientific Instruments</i> , 2006, 77, 10F518.	1.3	7

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37	Influence of up-down asymmetry in plasma shape on RMP response. Plasma Physics and Controlled Fusion, 2021, 63, 065003.	2.1	7
38	3D equilibrium reconstruction with islands. Plasma Physics and Controlled Fusion, 2018, 60, 044017.	2.1	6
39	Helical variation of density profiles and fluctuations in the tokamak pedestal with applied 3D fields and implications for confinement. Physics of Plasmas, 2018, 25, .	1.9	6
40	Simulation of a tangential soft x-ray imaging system. Review of Scientific Instruments, 2010, 81, 10E533.	1.3	4
41	Dependence of the low to high confinement mode transition power threshold and turbulence flow shear on injected torque. Physics of Plasmas, 2009, 16, .	1.9	3
42	Fiber-optic silicon Fabry-Pérot interferometric bolometer with improved detection limit for magnetic confinement fusion. Review of Scientific Instruments, 2021, 92, 023515.	1.3	3
43	Multichannel Fiber-Optic Silicon Fabry-Pérot Interferometric Bolometer System for Plasma Radiation Measurements. Photonics, 2021, 8, 344.	2.0	3
44	Singular value decomposition filtering for enhanced signal extraction from two-dimensional beam emission spectroscopy measurements. Review of Scientific Instruments, 2008, 79, 10F534.	1.3	2
45	Investigation of island formation due to RMPs in DIII-D plasmas with the SIESTA resistive MHD equilibrium code. Journal of Plasma Physics, 2016, 82, .	2.1	2
46	Measurements of three-dimensional flows induced by magnetic islands. Physical Review Research, 2020, 2, .	3.6	2