

Morgan Shafer

List of Publications by Year in descending order

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46
papers

1,470
citations

331670

21
h-index

315739

38
g-index

46
all docs

46
docs citations

46
times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Integration of full divertor detachment with improved core confinement for tokamak fusion plasmas. Nature Communications, 2021, 12, 1365.	12.8	50
3	Absolute calibration of the Lyman- α measurement apparatus at DIII-D. Review of Scientific Instruments, 2021, 92, 033522.	1.3	9
4	Influence of up-down asymmetry in plasma shape on RMP response. Plasma Physics and Controlled Fusion, 2021, 63, 065003.	2.1	7
5	Observation of fully detached divertor integrated with improved core confinement for tokamak fusion plasmas. Physics of Plasmas, 2021, 28, .	1.9	9
6	Multichannel Fiber-Optic Silicon Fabry-Pérot Interferometric Bolometer System for Plasma Radiation Measurements. Photonics, 2021, 8, 344.	2.0	3
7	Numerical assessment of the new V-shape small-angle slot divertor on DIII-D. Nuclear Fusion, 2021, 61, 116042.	3.5	17
8	Predicting the rotation profile in ITER. Nuclear Fusion, 2020, 60, 036003.	3.5	16
9	Improved core-edge compatibility using impurity seeding in the small angle slot (SAS) divertor at DIII-D. Physics of Plasmas, 2020, 27, .	1.9	39
10	Separating divertor closure effects on divertor detachment and pedestal shape in DIII-D. Physics of Plasmas, 2020, 27, .	1.9	28
11	Setting the H-mode pedestal structure: variations of particle source location using gas puff and pellet fueling. Nuclear Fusion, 2020, 60, 046003.	3.5	12
12	Measurements of three-dimensional flows induced by magnetic islands. Physical Review Research, 2020, 2, .	3.6	2
13	EDGE2D-EIRENE predictions of molecular emission in DIII-D high-recycling divertor plasmas. Nuclear Materials and Energy, 2019, 19, 211-217.	1.3	19
14	Dependence of neutral pressure on detachment in the small angle slot divertor at DIII-D. Nuclear Materials and Energy, 2019, 19, 487-492.	1.3	24
15	Direct measurements of internal structures of born-locked modes and the key role in triggering tokamak disruptions. Physics of Plasmas, 2019, 26, 042505.	1.9	13
16	3D equilibrium reconstruction with islands. Plasma Physics and Controlled Fusion, 2018, 60, 044017.	2.1	6
17	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
18	Modeling of 3D magnetic equilibrium effects on edge turbulence stability during RMP ELM suppression in tokamaks. Nuclear Fusion, 2017, 57, 116003.	3.5	13

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19	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
20	Evidence of Toroidally Localized Turbulence with Applied 3D Fields in the DIII-D Tokamak. Physical Review Letters, 2016, 117, 135001.	7.8	21
21	Self-regulated oscillation of transport and topology of magnetic islands in toroidal plasmas. Scientific Reports, 2015, 5, 16165.	3.3	27
22	Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. Physical Review Letters, 2015, 114, 105002.	7.8	141
23	Observation of a Multimode Plasma Response and its Relationship to Density Pumpout and Edge-Localized Mode Suppression. Physical Review Letters, 2015, 114, 105001.	7.8	124
24	Connection between plasma response and resonant magnetic perturbation (RMP) edge localized mode (ELM) suppression in DIII-D. Plasma Physics and Controlled Fusion, 2015, 57, 104006.	2.1	23
25	Plasma response measurements of non-axisymmetric magnetic perturbations on DIII-D via soft x-ray	1.9	8
26	2D properties of core turbulence on DIII-D and comparison to gyrokinetic simulations. Physics of Plasmas, 2012, 19, .	1.9	40
27	2D soft x-ray system on DIII-D for imaging the magnetic topology in the pedestal region. Review of Scientific Instruments, 2010, 81, 10E534.	1.3	12
28	Simulation of a tangential soft x-ray imaging system. Review of Scientific Instruments, 2010, 81, 10E533.	1.3	4
29	Simultaneous measurement of core electron temperature and density fluctuations during electron cyclotron heating on DIII-D. Physics of Plasmas, 2010, 17, .	1.9	26
30	Wide-field turbulence imaging with beam emission spectroscopy. Review of Scientific Instruments, 2010, 81, 10D741.	1.3	35
31	Implementation and application of two synthetic diagnostics for validating simulations of core tokamak turbulence. Physics of Plasmas, 2009, 16, .	1.9	119
32	Optimizing stability, transport, and divertor operation through plasma shaping for steady-state scenario development in DIII-D. Physics of Plasmas, 2009, 16, .	1.9	42
33	Localized Turbulence Suppression and Increased Flow Shear near the $q=2$ Surface during Internal-Transport-Barrier Formation. Physical Review Letters, 2009, 103, 075004.	7.8	26
34	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
35	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
36	Ultrafast ion temperature and toroidal velocity fluctuation spectroscopy diagnostic design. Review of Scientific Instruments, 2008, 79, 10F528.	1.3	8

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37	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
38	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
39	Validating simulations of core tokamak turbulence: current status and future directions. <i>Journal of Physics: Conference Series</i> , 2008, 125, 012043.	0.4	11
40	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
41	Structure and scaling properties of the geodesic acoustic mode. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, S123-S136.	2.1	98
42	Core barrier formation near integer q surfaces in DIII-D. <i>Physics of Plasmas</i> , 2006, 13, 082502.	1.9	73
43	High sensitivity beam emission spectroscopy for core plasma turbulence imaging (invited). <i>Review of Scientific Instruments</i> , 2006, 77, 10F104.	1.3	21
44	Spatial transfer function for the beam emission spectroscopy diagnostic on DIII-D. <i>Review of Scientific Instruments</i> , 2006, 77, 10F110.	1.3	35
45	Velocity fluctuation analysis via dynamic programming. <i>Review of Scientific Instruments</i> , 2006, 77, 10F518.	1.3	7
46	Turbulence velocimetry of density fluctuation imaging data. <i>Review of Scientific Instruments</i> , 2004, 75, 3490-3492.	1.3	56