

Jeffrey H Harris

List of Publications by Year in descending order

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citations

394421

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61
all docs

61
docs citations

61
times ranked

1398
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements on the Diagnostic Residual Gas Analyzer at Wendelstein 7-X. IEEE Transactions on Plasma Science, 2022, , 1-6.	1.3	1
2	EMC3-EIRENE simulation of first wall recycling fluxes in W7-X with relation to H-alpha measurements. Plasma Physics and Controlled Fusion, 2021, 63, 045016.	2.1	13
3	First results from the implementation of the ITER diagnostic residual gas analyzer prototype at Wendelstein 7-X. Review of Scientific Instruments, 2019, 90, 093501.	1.3	5
4	Stellarator Research Opportunities: A Report of the National Stellarator Coordinating Committee. Journal of Fusion Energy, 2018, 37, 51-94.	1.2	15
5	Visible spectroscopy diagnostics for tungsten source assessment in the WEST tokamak: First measurements. Review of Scientific Instruments, 2018, 89, 10D105.	1.3	15
6	Impact of magnetic islands in the plasma edge on particle fueling and exhaust in the HSX and W7-X stellarators. Physics of Plasmas, 2018, 25, 062501.	1.9	5
7	Development of visible spectroscopy diagnostics for W sources assessment in WEST. Review of Scientific Instruments, 2016, 87, 11E309.	1.3	14
8	Overview of diagnostic performance and results for the first operation phase in Wendelstein 7-X (invited). Review of Scientific Instruments, 2016, 87, 11D304.	1.3	45
9	Multiphysics Analysis of the Wendelstein 7-X Actively Cooled Scrapper Element. Fusion Science and Technology, 2015, 68, 635-639.	1.1	7
10	Electric field determination in the plasma-antenna boundary of a lower-hybrid wave launcher in Tore Supra through dynamic Stark-effect spectroscopy. Plasma Physics and Controlled Fusion, 2015, 57, 065011.	2.1	11
11	Probing the plasma near high power wave launchers in fusion devices for static and dynamic electric fields (invited). Review of Scientific Instruments, 2014, 85, 11E301.	1.3	1
12	Plasma response measurements of non-axisymmetric magnetic perturbations on DIII-D via soft x-ray	1.9	8
13	Design and Analysis of Divertor Scrapper Elements for the W7-X Stellarator. IEEE Transactions on Plasma Science, 2014, 42, 539-544.	1.3	28
14	Modeling and Analysis of the W7-X High Heat-Flux Divertor Scrapper Element. IEEE Transactions on Plasma Science, 2014, 42, 545-551.	1.3	10
15	Dynamic Stark Spectroscopic Measurements of Microwave Electric Fields Inside the Plasma Near a High-Power Antenna. Physical Review Letters, 2013, 110, 215005.	7.8	15
16	Results from Laboratory Testing of a New Four-Barrel Pellet Injector for the TJ-II Stellarator. Fusion Science and Technology, 2013, 64, 513-520.	1.1	13
17	A new four-barrel pellet injection system for the TJ-II stellarator. , 2011, , .		0
18	Core magnetic islands and plasma confinement in the H-INF heliac. Physics of Plasmas, 2010, 17, 082503.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Lessons Learned in Risk Management on NCSX. IEEE Transactions on Plasma Science, 2010, 38, 320-327.	1.3	24
20	Determination of error field sources by accurate mapping of the magnetic geometry of the H-1 heliac. Nuclear Fusion, 2009, 49, 035001.	3.5	6
21	Engineering Accomplishments in the Construction of NCSX. Fusion Science and Technology, 2009, 56, 485-492.	1.1	4
22	Cluster Analysis of the International Stellarator Confinement Database. AIP Conference Proceedings, 2008, , .	0.4	0
23	Wire tomography in the H-1NF heliac for investigation of fine structure of magnetic islands. Review of Scientific Instruments, 2007, 78, 013501.	1.3	5
24	Assessment of Global Stellarator Confinement: Status of the International Stellarator Confinement Database. Fusion Science and Technology, 2007, 51, 1-7.	1.1	13
25	Tomographic interferometry of a filtered high-current vacuum arc plasma. Journal of Applied Physics, 2007, 101, 073302.	2.5	4
26	Properties of the LHD plasmas with a large islandâ€”super dense core plasma and island healing. Plasma Physics and Controlled Fusion, 2006, 48, B383-B390.	2.1	10
27	Small to mid-sized stellarator experiments: topology, confinement and turbulence. Plasma Physics and Controlled Fusion, 2004, 46, B77-B90.	2.1	8
28	Suppression of Large Edge-Localized Modes in High-Confinement DIII-D Plasmas with a Stochastic Magnetic Boundary. Physical Review Letters, 2004, 92, 235003.	7.8	734
29	Configuration Effect on Energy Confinement and Local Transport in LHD and Contribution to the International Stellarator Database. Fusion Science and Technology, 2004, 46, 82-90.	1.1	16
30	Studies of resonantly produced plasmas in the H-1NF heliac using a far-infrared scanning interferometer. Review of Scientific Instruments, 2003, 74, 1629-1632.	1.3	2
31	Overview and Results from the H-1 National Facility. AIP Conference Proceedings, 2003, , .	0.4	1
32	Dynamic behaviour of the low-to-high confinement transitions in the H-1 heliac. Plasma Physics and Controlled Fusion, 2001, 43, 559-570.	2.1	21
33	Absolute measurements and modeling of radio frequency electric fields using a retarding field energy analyzer. Physics of Plasmas, 2000, 7, 5232-5241.	1.9	74
34	Plasmas as antennas: Theory, experiment and applications. Physics of Plasmas, 2000, 7, 2198-2202.	1.9	173
35	Application of plasma columns to radiofrequency antennas. Applied Physics Letters, 1999, 74, 3272-3274.	3.3	146
36	ICRF antenna performance on Tore Supra. , 1997, , .		0

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37	Drift-wave-like density fluctuations in the Advanced Toroidal Facility (ATF) torsatron. <i>Physics of Plasmas</i> , 1995, 2, 398-413.	1.9	14
38	On the role of neutral particles on edge turbulence and electric fields in the Advanced Toroidal Facility. <i>Physics of Plasmas</i> , 1994, 1, 3-5.	1.9	17
39	Signal analysis of fluctuations in toroidal fusion plasmas. <i>Review of Scientific Instruments</i> , 1993, 64, 2428-2433.	1.3	6
40	A comparison of edge turbulence in tokamaks, stellarators, and reversed-field pinches*. <i>Physics of Fluids B</i> , 1993, 5, 2491-2497.	1.7	44
41	Fluctuation and modulation transport studies in the Advanced Toroidal Facility (ATF) torsatron*. <i>Physics of Fluids B</i> , 1993, 5, 2513-2518.	1.7	15
42	Effects of magnetic geometry, fluctuations, and electric fields on confinement in the Advanced Toroidal Facility. <i>Physics of Fluids B</i> , 1992, 4, 2104-2110.	1.7	12
43	TEXT tokamak edge turbulence modeling. <i>Physics of Fluids B</i> , 1991, 3, 2291-2299.	1.7	46
44	Recent results from the ATF torsatron. <i>Physics of Fluids B</i> , 1991, 3, 2261-2269.	1.7	19
45	Characteristics of edge plasma turbulence on the ATF torsatron. <i>Physics of Fluids B</i> , 1991, 3, 1000-1005.	1.7	28
46	Runaway electron studies in the ATF torsatron. <i>Physics of Fluids B</i> , 1991, 3, 1671-1686.	1.7	8
47	Construction and Initial Operation of the Advanced Toroidal Facility. <i>Fusion Science and Technology</i> , 1990, 17, 33-50.	0.6	20
48	Realization of the Advanced Toroidal Facility Torsatron Magnetic Field. <i>Fusion Science and Technology</i> , 1990, 17, 51-61.	0.6	18
49	Second stability in the ATF torsatron—Experiment and theory. <i>Physics of Fluids B</i> , 1990, 2, 1353-1358.	1.7	18
50	Overview of results from the ATF torsatron. <i>Physics of Fluids B</i> , 1990, 2, 1347-1352.	1.7	11
51	ATF two-frequency correlation reflectometer. <i>Review of Scientific Instruments</i> , 1990, 61, 3049-3051.	1.3	34
52	Electron beam and magnetic field mapping techniques used to determine field errors in the ATF torsatron. <i>Review of Scientific Instruments</i> , 1989, 60, 2680-2689.	1.3	39
53	Second stability in the ATF torsatron. <i>Physical Review Letters</i> , 1989, 63, 1249-1252.	7.8	54
54	Studies of a Flexible Helic Configuration. <i>Fusion Science and Technology</i> , 1988, 13, 521-535.	0.6	12

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55	Magnetic field alignment studies for the URAGANâ€™ torsatron. Review of Scientific Instruments, 1986, 57, 1233-1241.	1.3	11
56	The Advanced Toroidal Facility. Fusion Science and Technology, 1986, 10, 179-226.	0.6	150
57	Magnetohydrodynamic Activity in High- β^2 , Currentless Plasmas in Heliotron-E. Physical Review Letters, 1984, 53, 2242-2245.	7.8	55
58	Equilibrium and stability properties of high-beta torsatrons. Physics of Fluids, 1983, 26, 3569.	1.4	61