

Jeffrey H Harris

List of Publications by Year in descending order

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58
papers

2,146
citations

394421

19
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223800

46
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61
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docs citations

61
times ranked

1398
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of Large Edge-Localized Modes in High-Confinement DIII-D Plasmas with a Stochastic Magnetic Boundary. <i>Physical Review Letters</i> , 2004, 92, 235003.	7.8	734
2	Plasmas as antennas: Theory, experiment and applications. <i>Physics of Plasmas</i> , 2000, 7, 2198-2202.	1.9	173
3	The Advanced Toroidal Facility. <i>Fusion Science and Technology</i> , 1986, 10, 179-226.	0.6	150
4	Application of plasma columns to radiofrequency antennas. <i>Applied Physics Letters</i> , 1999, 74, 3272-3274.	3.3	146
5	Absolute measurements and modeling of radio frequency electric fields using a retarding field energy analyzer. <i>Physics of Plasmas</i> , 2000, 7, 5232-5241.	1.9	74
6	Equilibrium and stability properties of high-beta torsatrons. <i>Physics of Fluids</i> , 1983, 26, 3569.	1.4	61
7	Magnetohydrodynamic Activity in High- β^2 , Currentless Plasmas in Heliotron-E. <i>Physical Review Letters</i> , 1984, 53, 2242-2245.	7.8	55
8	Second stability in the ATF torsatron. <i>Physical Review Letters</i> , 1989, 63, 1249-1252.	7.8	54
9	TEXT tokamak edge turbulence modeling. <i>Physics of Fluids B</i> , 1991, 3, 2291-2299.	1.7	46
10	Overview of diagnostic performance and results for the first operation phase in Wendelstein 7-X (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11D304.	1.3	45
11	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
12	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
13	ATF two-frequency correlation reflectometer. <i>Review of Scientific Instruments</i> , 1990, 61, 3049-3051.	1.3	34
14	Characteristics of edge plasma turbulence on the ATF torsatron. <i>Physics of Fluids B</i> , 1991, 3, 1000-1005.	1.7	28
15	Design and Analysis of Divertor Scraper Elements for the W7-X Stellarator. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 539-544.	1.3	28
16	Lessons Learned in Risk Management on NCSX. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 320-327.	1.3	24
17	Dynamic behaviour of the low-to-high confinement transitions in the H-1 heliac. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, 559-570.	2.1	21
18	Construction and Initial Operation of the Advanced Toroidal Facility. <i>Fusion Science and Technology</i> , 1990, 17, 33-50.	0.6	20

#	ARTICLE	IF	CITATIONS
19	Recent results from the ATF torsatron. <i>Physics of Fluids B</i> , 1991, 3, 2261-2269.	1.7	19
20	Realization of the Advanced Toroidal Facility Torsatron Magnetic Field. <i>Fusion Science and Technology</i> , 1990, 17, 51-61.	0.6	18
21	Second stability in the ATF torsatron—Experiment and theory. <i>Physics of Fluids B</i> , 1990, 2, 1353-1358.	1.7	18
22	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
23	Configuration Effect on Energy Confinement and Local Transport in LHD and Contribution to the International Stellarator Database. <i>Fusion Science and Technology</i> , 2004, 46, 82-90.	1.1	16
24	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
25	Dynamic Stark Spectroscopic Measurements of Microwave Electric Fields Inside the Plasma Near a High-Power Antenna. <i>Physical Review Letters</i> , 2013, 110, 215005.	7.8	15
26	Stellarator Research Opportunities: A Report of the National Stellarator Coordinating Committee. <i>Journal of Fusion Energy</i> , 2018, 37, 51-94.	1.2	15
27	Visible spectroscopy diagnostics for tungsten source assessment in the WEST tokamak: First measurements. <i>Review of Scientific Instruments</i> , 2018, 89, 10D105.	1.3	15
28	Drift-wave-like density fluctuations in the Advanced Toroidal Facility (ATF) torsatron. <i>Physics of Plasmas</i> , 1995, 2, 398-413.	1.9	14
29	Development of visible spectroscopy diagnostics for W sources assessment in WEST. <i>Review of Scientific Instruments</i> , 2016, 87, 11E309.	1.3	14
30	Assessment of Global Stellarator Confinement: Status of the International Stellarator Confinement Database. <i>Fusion Science and Technology</i> , 2007, 51, 1-7.	1.1	13
31	Results from Laboratory Testing of a New Four-Barrel Pellet Injector for the TJ-II Stellarator. <i>Fusion Science and Technology</i> , 2013, 64, 513-520.	1.1	13
32	EMC3-EIRENE simulation of first wall recycling fluxes in W7-X with relation to H-alpha measurements. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 045016.	2.1	13
33	Studies of a Flexible Helic Configuration. <i>Fusion Science and Technology</i> , 1988, 13, 521-535.	0.6	12
34	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
35	Magnetic field alignment studies for the URAGAN-3 torsatron. <i>Review of Scientific Instruments</i> , 1986, 57, 1233-1241.	1.3	11
36	Overview of results from the ATF torsatron. <i>Physics of Fluids B</i> , 1990, 2, 1347-1352.	1.7	11

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37	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
38	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
39	Modeling and Analysis of the W7-X High Heat-Flux Divertor Scraper Element. IEEE Transactions on Plasma Science, 2014, 42, 545-551.	1.3	10
40	Runaway electron studies in the ATF torsatron. Physics of Fluids B, 1991, 3, 1671-1686.	1.7	8
41	Small to mid-sized stellarator experiments: topology, confinement and turbulence. Plasma Physics and Controlled Fusion, 2004, 46, B77-B90.	2.1	8
42	Plasma response measurements of non-axisymmetric magnetic perturbations on DIII-D via soft x-ray	1.9	8
43	Multiphysics Analysis of the Wendelstein 7-X Actively Cooled Scraper Element. Fusion Science and Technology, 2015, 68, 635-639.	1.1	7
44	Signal analysis of fluctuations in toroidal fusion plasmas. Review of Scientific Instruments, 1993, 64, 2428-2433.	1.3	6
45	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
46	Wire tomography in the H-INF heliac for investigation of fine structure of magnetic islands. Review of Scientific Instruments, 2007, 78, 013501.	1.3	5
47	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
48	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
49	Tomographic interferometry of a filtered high-current vacuum arc plasma. Journal of Applied Physics, 2007, 101, 073302.	2.5	4
50	Engineering Accomplishments in the Construction of NCSX. Fusion Science and Technology, 2009, 56, 485-492.	1.1	4
51	Core magnetic islands and plasma confinement in the H-INF heliac. Physics of Plasmas, 2010, 17, 082503.	1.9	4
52	Studies of resonantly produced plasmas in the H-INF heliac using a far-infrared scanning interferometer. Review of Scientific Instruments, 2003, 74, 1629-1632.	1.3	2
53	Overview and Results from the H-1 National Facility. AIP Conference Proceedings, 2003, , .	0.4	1
54	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

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55	Improvements on the Diagnostic Residual Gas Analyzer at Wendelstein 7-X. IEEE Transactions on Plasma Science, 2022, , 1-6.	1.3	1
56	ICRF antenna performance on Tore Supra. , 1997, , .		0
57	Cluster Analysis of the International Stellarator Confinement Database. AIP Conference Proceedings, 2008, , .	0.4	0
58	A new four-barrel pellet injection system for the TJ-II stellarator. , 2011, , .		0