

Stephen C Jardin

List of Publications by Year in descending order

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201
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201
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201
times ranked

2279
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 3: MHD stability, operational limits and disruptions. Nuclear Fusion, 2007, 47, S128-S202.	3.5	951
2	Dynamic modeling of transport and positional control of tokamaks. Journal of Computational Physics, 1986, 66, 481-507.	3.8	375
3	Exploration of spherical torus physics in the NSTX device. Nuclear Fusion, 2000, 40, 557-561.	3.5	363
4	Chapter 3: MHD stability, operational limits and disruptions. Nuclear Fusion, 1999, 39, 2251-2389.	3.5	283
5	The KSTAR project: An advanced steady state superconducting tokamak experiment. Nuclear Fusion, 2000, 40, 575-582.	3.5	168
6	An iterative metric method for solving the inverse tokamak equilibrium problem. Journal of Computational Physics, 1980, 37, 183-204.	3.8	143
7	Overview of the ARIES-RS reversed-shear tokamak power plant study. Fusion Engineering and Design, 1997, 38, 3-25.	1.9	138
8	Quasistatic Formation of the Spheromak Plasma Configuration. Physical Review Letters, 1981, 46, 188-191.	7.8	122
9	Numerical determination of axisymmetric toroidal magnetohydrodynamic equilibria. Journal of Computational Physics, 1979, 32, 212-234.	3.8	111
10	TSC simulation of Ohmic discharges in TFTR. Nuclear Fusion, 1993, 33, 371-382.	3.5	105
11	Ideal MHD stability limits of low aspect ratio tokamak plasmas. Nuclear Fusion, 1997, 37, 595-610.	3.5	97
12	Recent liquid lithium limiter experiments in CDX-U. Nuclear Fusion, 2005, 45, 519-523.	3.5	95
13	Physics Design of the National Spherical Torus Experiment. Fusion Science and Technology, 1999, 36, 16-37.	0.6	85
14	Ballooning Mode Stability of Bean-Shaped Cross Sections for High- \hat{I}^2 Tokamak Plasmas. Physical Review Letters, 1983, 51, 1963-1966.	7.8	84
15	Dynamic modelling of lower hybrid current drive. Nuclear Fusion, 1994, 34, 837-852.	3.5	84
16	Numerical study of tilt stability of prolate field-reversed configurations. Physics of Plasmas, 2000, 7, 4996-5006.	1.9	79
17	The prospects for magnetohydrodynamic stability in advanced tokamak regimes*. Physics of Plasmas, 1994, 1, 1601-1605.	1.9	73
18	Physics basis for a reversed shear tokamak power plant. Fusion Engineering and Design, 1997, 38, 27-57.	1.9	66

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19	Non-inductive current generation in NSTX using coaxial helicity injection. Nuclear Fusion, 2001, 41, 1081-1086.	3.5	66
20	Control of plasma shape and performance of the PBX-M tokamak experiment in high- β_t / high- β_p regimes. Physics of Fluids B, 1990, 2, 1271-1279.	1.7	65
21	Plasma shape and position control in highly elongated tokamaks. Nuclear Fusion, 1990, 30, 2013-2022.	3.5	65
22	High poloidal beta equilibria in the Tokamak Fusion Test Reactor limited by a natural inboard poloidal field null. Physics of Fluids B, 1991, 3, 2277-2284.	1.7	63
23	The design of the KSTAR tokamak. Fusion Engineering and Design, 1999, 46, 405-411.	1.9	61
24	Multiple timescale calculations of sawteeth and other global macroscopic dynamics of tokamak plasmas. Computational Science & Discovery, 2012, 5, 014002.	1.5	61
25	Self-Organized Stationary States of Tokamaks. Physical Review Letters, 2015, 115, 215001.	7.8	60
26	Ideal and resistive edge stability calculations with M3D-C1. Physics of Plasmas, 2010, 17, 102508.	1.9	58
27	Two-dimensional transport of tokamak plasmas. Physics of Fluids, 1979, 22, 731.	1.4	57
28	Calculations of two-fluid magnetohydrodynamic axisymmetric steady-states. Journal of Computational Physics, 2009, 228, 7742-7770.	3.8	56
29	A high-order implicit finite element method for integrating the two-fluid magnetohydrodynamic equations in two dimensions. Journal of Computational Physics, 2007, 226, 2146-2174.	3.8	53
30	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 104007.	3.5	53
31	Advanced tokamak physics-status and prospects. Plasma Physics and Controlled Fusion, 1994, 36, B213-B227.	2.1	52
32	Review of implicit methods for the magnetohydrodynamic description of magnetically confined plasmas. Journal of Computational Physics, 2012, 231, 822-838.	3.8	50
33	Overview of the initial NSTX experimental results. Nuclear Fusion, 2001, 41, 1435-1447.	3.5	49
34	The national spherical torus experiment (NSTX) research programme and progress towards high beta, long pulse operating scenarios. Nuclear Fusion, 2003, 43, 1653-1664.	3.5	49
35	Non-linear saturation of the internal kink mode. Nuclear Fusion, 1980, 20, 1181-1185.	3.5	48
36	Feedback stabilization of rigid axisymmetric modes in tokamaks. Nuclear Fusion, 1982, 22, 1095-1098.	3.5	46

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37	Initial physics results from the National Spherical Torus Experiment. Physics of Plasmas, 2001, 8, 1977-1987.	1.9	46
38	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	3.5	45
39	Ideal magnetohydrodynamic stability of the spheromak configuration. Nuclear Fusion, 1982, 22, 629-642.	3.5	44
40	A triangular finite element with first-derivative continuity applied to fusion MHD applications. Journal of Computational Physics, 2004, 200, 133-152.	3.8	44
41	TSC plasma halo simulation of a DIII-D vertical displacement episode. Nuclear Fusion, 1993, 33, 969-978.	3.5	43
42	Physics basis for the advanced tokamak fusion power plant, ARIES-AT. Fusion Engineering and Design, 2006, 80, 25-62.	1.9	43
43	Mechanism of vertical displacement events in JT-60U disruptive discharges. Nuclear Fusion, 1996, 36, 643-656.	3.5	42
44	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
45	Tilting and shifting modes in a spheromak. Nuclear Fusion, 1981, 21, 1203-1207.	3.5	40
46	Some properties of the M3D-C1 form of the three-dimensional magnetohydrodynamics equations. Physics of Plasmas, 2009, 16, .	1.9	39
47	Numerical solution of the resistive magnetohydrodynamic boundary layer equations. Physics of Fluids, 1984, 27, 1225.	1.4	37
48	Calculations of Axisymmetric Stability of Tokamak Plasmas with Active and Passive Feedback. Journal of Computational Physics, 1993, 104, 221-240.	3.8	37
49	Modelling of post-disruptive plasma loss in the Princeton Beta Experiment. Nuclear Fusion, 1987, 27, 569-578.	3.5	35
50	Plasma profile and shape optimization for the advanced tokamak power plant, ARIES-AT. Fusion Engineering and Design, 2006, 80, 63-77.	1.9	34
51	Sideways wall force produced during tokamak disruptions. Nuclear Fusion, 2013, 53, 073018.	3.5	33
52	Global extended magnetohydrodynamic studies of fast magnetic reconnection. Physics of Plasmas, 2003, 10, 1291-1298.	1.9	32
53	Inter-code comparison benchmark between DINA and TSC for ITER disruption modelling. Nuclear Fusion, 2014, 54, 083002.	3.5	32
54	The Princeton spectral equilibrium code: PSEC. Journal of Computational Physics, 1985, 58, 300-335.	3.8	31

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55	A fast shutdown technique for large tokamaks. Nuclear Fusion, 2000, 40, 923-933.	3.5	31
56	3D two-temperature magnetohydrodynamic modeling of fast thermal quenches due to injected impurities in tokamaks. Nuclear Fusion, 2019, 59, 016001.	3.5	31
57	Two-dimensional modeling of the formation of spheromak configurations. Physics of Fluids, 1981, 24, 679.	1.4	30
58	The ARIES-II and ARIES-IV Second-Stability Tokamak Reactors. Fusion Science and Technology, 1992, 21, 1721-1728.	0.6	30
59	Numerical study of global stability of oblate field-reversed configurations. Physics of Plasmas, 2001, 8, 1267.	1.9	30
60	A flux-limited numerical method for solving the MHD equations to simulate propulsive plasma flows. International Journal for Numerical Methods in Engineering, 2002, 53, 1415-1432.	2.8	30
61	Nonlinear simulation studies of tokamaks and STs. Nuclear Fusion, 2003, 43, 483-489.	3.5	30
62	Comparison of Simulated Magnetoplasmadynamic Thruster Flowfields to Experimental Measurements. Journal of Propulsion and Power, 2005, 21, 129-138.	2.2	29
63	Onset and saturation of a non-resonant internal mode in NSTX and implications for AT modes in ITER. Nuclear Fusion, 2011, 51, 063027.	3.5	29
64	Multi-region approach to free-boundary three-dimensional tokamak equilibria and resistive wall instabilities. Physics of Plasmas, 2016, 23, .	1.9	29
65	Magnetic flux pumping in 3D nonlinear magnetohydrodynamic simulations. Physics of Plasmas, 2017, 24, .	1.9	29
66	Stabilizing windings for the tilting and shifting modes in an inductively formed spheromak. Nuclear Fusion, 1981, 21, 1665-1667.	3.5	28
67	The M3D-C ¹ approach to simulating 3D 2-fluid magnetohydrodynamics in magnetic fusion experiments. Journal of Physics: Conference Series, 2008, 125, 012044.	0.4	27
68	Experimental exploration of profile control in the Princeton Beta Experimentâ€Modified (PBXâ€M) tokamak. Physics of Fluids B, 1993, 5, 2562-2570.	1.7	26
69	A new explanation of the sawtooth phenomena in tokamaks. Physics of Plasmas, 2020, 27, .	1.9	26
70	Force-free coil principles applied to high-temperature superconducting materials. IEEE Transactions on Magnetics, 1988, 24, 1467-1468.	2.1	25
71	Progress towards high-performance, steady-state spherical torus. Plasma Physics and Controlled Fusion, 2003, 45, A335-A350.	2.1	25
72	Vertical forces during vertical displacement events in an ITER plasma and the role of halo currents. Nuclear Fusion, 2019, 59, 126037.	3.5	25

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73	Ohmic flux consumption during initial operation of the NSTX spherical torus. Nuclear Fusion, 2001, 41, 1197-1206.	3.5	24
74	Physics basis for a spherical torus power plant. Fusion Engineering and Design, 2003, 65, 165-197.	1.9	24
75	The role of axisymmetric reconnection events in JET discharges with extreme shear reversal. Plasma Physics and Controlled Fusion, 2002, 44, 1127-1141.	2.1	23
76	Stabilization of the axisymmetric instability in the poloidal divertor experiment tokamak. Physics of Fluids, 1978, 21, 1851.	1.4	22
77	Simulation studies of plasma shape identification and control in Korea Superconducting Tokamak Advanced Research. Fusion Engineering and Design, 2001, 54, 117-134.	1.9	22
78	Three-dimensional modeling of the sawtooth instability in a small tokamak. Physics of Plasmas, 2007, 14, 056105.	1.9	22
79	Axisymmetric benchmarks of impurity dynamics in extended-magnetohydrodynamic simulations. Plasma Physics and Controlled Fusion, 2019, 61, 064001.	2.1	22
80	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	3.5	21
81	A novel path to runaway electron mitigation via deuterium injection and current-driven MHD instability. Nuclear Fusion, 2021, 61, 116058.	3.5	21
82	3D adaptive mesh refinement simulations of pellet injection in tokamaks. Computer Physics Communications, 2004, 164, 220-228.	7.5	20
83	NSTX/NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2019, 59, 112007.	3.5	20
84	Dynamical grid method for time-dependent simulations of axisymmetric instabilities in tokamaks. Journal of Computational Physics, 1978, 29, 101-126.	3.8	19
85	Effects of plasma deformability on the feedback stabilization of axisymmetric modes in tokamak plasmas. Nuclear Fusion, 1992, 32, 973-994.	3.5	19
86	Poloidal flux linkage requirements for the International Thermonuclear Experimental Reactor. Nuclear Fusion, 1994, 34, 1145-1160.	3.5	19
87	-collapse-induced vertical displacement event in high tokamak disruption. Plasma Physics and Controlled Fusion, 1996, 38, 1791-1804.	2.1	19
88	Physics basis for a tokamak fusion power plant. Fusion Engineering and Design, 2000, 48, 281-298.	1.9	19
89	Simulation studies of the role of reconnection in the "current hole" experiments in the Joint European Torus. Physics of Plasmas, 2003, 10, 1665-1669.	1.9	19
90	3D simulations of vertical displacement events in tokamaks: A benchmark of M3D-C1, NIMROD, and JOREK. Physics of Plasmas, 2021, 28, .	1.9	19

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91	Design calculations for fast plasma position control in Korea Superconducting Tokamak Advanced Research. <i>Fusion Engineering and Design</i> , 1999, 45, 101-115.	1.9	18
92	Implicit solution of the four-field extended-magnetohydrodynamic equations using high-order high-continuity finite elements. <i>Physics of Plasmas</i> , 2005, 12, 056101.	1.9	18
93	Finite element implementation of Braginskii's gyroviscous stress with application to the gravitational instability. <i>Physics of Plasmas</i> , 2006, 13, 092101.	1.9	18
94	Mesh generation for confined fusion plasma simulation. <i>Engineering With Computers</i> , 2016, 32, 285-293.	6.1	18
95	Axisymmetric simulations of vertical displacement events in tokamaks: A benchmark of M3D-C1, NIMROD, and JOREK. <i>Physics of Plasmas</i> , 2020, 27, 022505.	1.9	18
96	Dynamics and energy flow in a disrupting tokamak plasma. <i>Fusion Engineering and Design</i> , 1991, 15, 163-180.	1.9	17
97	Non-existence of normal tokamak equilibria with negative central current. <i>Physics of Plasmas</i> , 2003, 10, 4048-4052.	1.9	17
98	Resistive stability of the cylindrical spheromak. <i>Physics of Fluids</i> , 1984, 27, 1470.	1.4	16
99	Simulations of control, perturbation, displacement and disruption in highly elongated tokamak plasmas. <i>Nuclear Fusion</i> , 1990, 30, 1511-1521.	3.5	16
100	The design of the Tokamak Physics Experiment (TPX). <i>Journal of Fusion Energy</i> , 1993, 12, 221-258.	1.2	16
101	Timescales for non-inductive current buildup in low aspect ratio toroidal geometry. <i>Nuclear Fusion</i> , 2000, 40, 1101-1112.	3.5	16
102	Tokamak toroidal rotation caused by AVDEs and ELMs. <i>Nuclear Fusion</i> , 2014, 54, 043017.	3.5	16
103	Validation of the full reconnection model of the sawtooth instability in KSTAR. <i>Nuclear Fusion</i> , 2018, 58, 066009.	3.5	16
104	Linear and nonlinear benchmarks between the CLT code and the M3D-C1 code for the 2/1 resistive tearing mode and the 1/1 resistive kink mode. <i>Computer Physics Communications</i> , 2021, 269, 108134.	7.5	16
105	Fusion Simulation Project: Integrated Simulation and Optimization of Magnetic Fusion Systems. <i>Journal of Fusion Energy</i> , 2001, 20, 135-196.	1.2	15
106	MHD simulations with resistive wall and magnetic separatrix. <i>Computer Physics Communications</i> , 2004, 164, 40-45.	7.5	15
107	Simulation of MHD instabilities with fluid runaway electron model in M3D-C1. <i>Nuclear Fusion</i> , 2021, 60, 126017.	3.5	15
108	Feedback stabilization of the axisymmetric instability of a deformable tokamak plasma. <i>Nuclear Fusion</i> , 1989, 29, 465-473.	3.5	14

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109	Shattered pellet penetration in low and high energy plasmas on DIII-D. Nuclear Fusion, 2020, 60, 036014.	3.5	14
110	Self-consistent solutions of the plasma transport equations in an axisymmetric toroidal system. Journal of Computational Physics, 1981, 43, 31-60.	3.8	13
111	Modelling the effects of the sawtooth instability in tokamaks using a current viscosity term. Nuclear Fusion, 1989, 29, 905-914.	3.5	13
112	A parallel algorithm for global magnetic reconnection studies. Computer Physics Communications, 2003, 151, 8-24.	7.5	13
113	Nonlinear saturation of nonresonant internal instabilities in a straight spheromak. Physics of Fluids, 1983, 26, 1871.	1.4	12
114	Application of a new algorithm to plasma shape control in BPX. Nuclear Fusion, 1992, 32, 897-902.	3.5	12
115	Axisymmetric disruption dynamics including current profile changes in the ASDEX-Upgrade tokamak. Plasma Physics and Controlled Fusion, 2002, 44, 1471-1481.	2.1	12
116	On 1D diffusion problems with a gradient-dependent diffusion coefficient. Journal of Computational Physics, 2008, 227, 8769-8775.	3.8	12
117	Transient CHI start-up simulations with the TSC. Nuclear Fusion, 2011, 51, 113018.	3.5	12
118	Modelling of NSTX hot vertical displacement events using M3D-C1. Physics of Plasmas, 2018, 25, 056106.	1.9	12
119	Controlled Evolution of Highly Elongated Tokamak Plasmas. Physical Review Letters, 1985, 55, 2289-2292.	7.8	11
120	Numerical calculations demonstrating complete stabilization of the ideal magnetohydrodynamic resistive wall mode by longitudinal flow. Physics of Plasmas, 2009, 16, .	1.9	11
121	Spreading of lower hybrid wave driven currents in PBX-M. Nuclear Fusion, 1996, 36, 1733-1742.	3.5	10
122	Coolant Ingress Induced Disruption Calculations for ITERa. Fusion Science and Technology, 1991, 19, 1278-1283.	0.6	9
123	Acceleration Mechanism of Vertical Displacement Event and its Amelioration in Tokamak Disruptions. Journal of Nuclear Science and Technology, 1996, 33, 609-619.	1.3	9
124	A Review of the U.S. Department of Energy's Inertial Fusion Energy Program. Journal of Fusion Energy, 2003, 22, 93-126.	1.2	9
125	Numerical calculation of neoclassical distribution functions and current profiles in low collisionality, axisymmetric plasmas. Physics of Plasmas, 2012, 19, .	1.9	9
126	Three-dimensional distortions of the tokamak plasma boundary: boundary displacements in the presence of saturated MHD instabilities. Nuclear Fusion, 2014, 54, 083007.	3.5	9

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127	Post calibration of the two-dimensional electron cyclotron emission imaging instrument with electron temperature characteristics of the magnetohydrodynamic instabilities. Review of Scientific Instruments, 2016, 87, 013506.	1.3	9
128	Local properties of magnetic reconnection in nonlinear resistive- and extended-magnetohydrodynamic toroidal simulations of the sawtooth crash. Plasma Physics and Controlled Fusion, 2017, 59, 025007.	2.1	9
129	Structure and overstability of resistive modes with runaway electrons. Physics of Plasmas, 2020, 27, .	1.9	9
130	Nonlinear evolution of the resistive interchange mode in the cylindrical spheromak. Physics of Fluids, 1984, 27, 1773.	1.4	8
131	Economic comparison of MHD equilibrium options for advanced steady state tokamak power plants. Nuclear Fusion, 1998, 38, 13-29.	3.5	8
132	Prototype tests of the electromagnetic particle injector-2 for fast time response disruption mitigation in tokamaks. Nuclear Fusion, 2021, 61, 126034.	3.5	8
133	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8
134	Hybrid simulation of energetic particles interacting with magnetohydrodynamics using a slow manifold algorithm and GPU acceleration. Computer Physics Communications, 2022, 275, 108313.	7.5	8
135	Excitation of high frequency pressure driven modes in non-axisymmetric equilibrium at high $\hat{\alpha}$ polin PBX-M. Nuclear Fusion, 1993, 33, 1877-1897.	3.5	7
136	Poloidal Field Control for the Tokamak Physics Experiment. Fusion Science and Technology, 1996, 30, 184-200.	0.6	7
137	Plasma transport control and self-sustaining fusion reactor. Plasma Physics and Controlled Fusion, 1997, 39, A361-A369.	2.1	7
138	System Analysis of a Compact Next Step Burning Plasma Experiment. Fusion Science and Technology, 2003, 43, 161-175.	1.1	7
139	Intermittent \hat{I}^2 collapse after NBCD turn-off in JT-60U fully non-inductive reversed shear discharges. Plasma Physics and Controlled Fusion, 2007, 49, 335-345.	2.1	7
140	Investigation of instabilities and rotation alteration in high beta KSTAR plasmas. Physics of Plasmas, 2017, 24, .	1.9	7
141	Ideal MHD Limited Electron Temperature in Spherical Tokamaks. Physical Review Letters, 2022, 128, .	7.8	7
142	Current profile modification during lower hybrid current drive in the Princeton Beta Experiment-Modification. Nuclear Fusion, 1996, 36, 1743-1750.	3.5	6
143	Magnetohydrodynamic modeling of two-dimensional reconnection in the Magnetic Reconnection Experiment. Physics of Plasmas, 2003, 10, 3131-3138.	1.9	6
144	Approach to nonlinear magnetohydrodynamic simulations in stellarator geometry. Nuclear Fusion, 2021, 61, 086015.	3.5	6

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145	The effect of a column inductive transformer on the S-1 Spheromak. Nuclear Fusion, 1986, 26, 647-655.	3.5	5
146	A study of the Tokamak de Varennes plasma during fast current ramp-down: Experiment and simulation results with the TSC code. Nuclear Fusion, 1990, 30, 2563-2573.	3.5	5
147	Plasma system requirements and performance data base for the Starlite/Demo fusion power plant. , 0, , .		5
148	Numerical simulation of feedback stabilization of axisymmetric modes in tokamaks using driven halo currents. Nuclear Fusion, 1998, 38, 1105-1112.	3.5	5
149	Superconducting poloidal field magnet engineering for the ARIES-ST. Fusion Engineering and Design, 2003, 65, 323-338.	1.9	5
150	Self-consistent simulation of resistive kink instabilities with runaway electrons. Plasma Physics and Controlled Fusion, 2021, 63, 125031.	2.1	5
151	The computation of resistive MHD instabilities in axisymmetric toroidal plasmas. Journal of Computational Physics, 1992, 103, 43-62.	3.8	4
152	Physics basis for the ARIES-ST power plant. , 0, , .		4
153	Numerical study for design of the passive stabilizer and its impact on MHD stability in the proposed KSTAR plasma. Fusion Engineering and Design, 1999, 45, 465-474.	1.9	4
154	Moving grids for magnetic reconnection via Newtonâ€“Krylov methods. Computer Physics Communications, 2011, 182, 173-176.	7.5	4
155	Numerical simulation of four-field extended magnetohydrodynamics in dynamically adaptive curvilinear coordinates via Newtonâ€“Krylovâ€“Schwarz. Journal of Computational Physics, 2012, 231, 5822-5853.	3.8	4
156	Nonlinear asymmetric tearing mode evolution in cylindrical geometry. Physics of Plasmas, 2016, 23, .	1.9	4
157	A new stabilizing regime of tearing mode entrainment in the presence of a static error field. Nuclear Fusion, 2019, 59, 126015.	3.5	4
158	ITER cold VDEs in the limit of perfectly conducting walls. Physics of Plasmas, 2021, 28, 012511.	1.9	4
159	The Spheromak. Europhysics News, 1986, 17, 73-76.	0.3	3
160	Numerical drift orbit calculations for forceâ€“free spheromak configurations. Physics of Fluids B, 1990, 2, 554-560.	1.7	3
161	The Mercier criterion in reversed-shear tokamak plasmas. Plasma Physics and Controlled Fusion, 1999, 41, 1379-1392.	2.1	3
162	Making of the NSTX facility. , 0, , .		3

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163	Numerical simulation on current spike behaviour of JT-60U disruptive plasmas. Plasma Physics and Controlled Fusion, 2004, 46, 1815-1830.	2.1	3
164	A simulation study on inductive ITB control in reversed shear tokamak discharges. Nuclear Fusion, 2006, 46, S645-S651.	3.5	3
165	Design Details of the Transient CHI Plasma Start-up System on NSTX-U. IEEE Transactions on Plasma Science, 2014, 42, 2154-2160.	1.3	3
166	Steady-state benchmarks of DK4D: A time-dependent, axisymmetric drift-kinetic equation solver. Physics of Plasmas, 2015, 22, .	1.9	3
167	Modeling of lithium granule injection in NSTX with M3D-C1. Nuclear Materials and Energy, 2017, 12, 1094-1099.	1.3	3
168	Modeling of carbon pellets disruption mitigation in an NSTX-U plasma. Nuclear Fusion, 2021, 61, 116003.	3.5	3
169	Stability of elongated cross-section tokamaks to axisymmetric even poloidal mode number deformations. Physics of Fluids B, 1989, 1, 2349-2352.	1.7	2
170	Linear and a nonlinear axisymmetric motion of a pinch limited by a separatrix. Plasma Physics and Controlled Fusion, 1993, 35, 453-465.	2.1	2
171	Control of the current density profile with lower-hybrid current drive on PBX-M. AIP Conference Proceedings, 1994, , .	0.4	2
172	The tokamak physics experiment: tokamak improvement through advanced steady state control. Fusion Engineering and Design, 1995, 26, 563-574.	1.9	2
173	Plasma physics basis and operations of the ARIES-ST tokamak power plant. , 0, , .		2
174	Science and technology of the 10 MA spherical tori. Nuclear Fusion, 2000, 40, 583-587.	3.5	2
175	Results of NSTX heating experiments. IEEE Transactions on Plasma Science, 2003, 31, 60-67.	1.3	2
176	Symmetric solution in M3D. Computer Physics Communications, 2004, 164, 468-471.	7.5	2
177	Application of transient CHI plasma startup to future ST and AT devices. Physics of Plasmas, 2019, 26, 032501.	1.9	2
178	Tearing-mode stability of a forming spheromak plasma. Nuclear Fusion, 1982, 22, 459-464.	3.5	1
179	Use of tokamak dynamics models for digital filtering and control. , 0, , .		1
180	Magnetohydrodynamic stability regimes for steady state and pulsed reactors. Fusion Engineering and Design, 1994, 25, 215-225.	1.9	1

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181	Integrated, model based feedback control in fusion reactors. , 0, , .		1
182	Physics design requirements for the Tokamak Physics Experiment (TPX). , 0, , .		1
183	Ponderomotive feedback stabilization of external kinks and disruptions in tokamaks. Physics of Plasmas, 1995, 2, 3429-3439.	1.9	1
184	The design of the Korea Superconducting Tokamak Advanced Research (KSTAR). , 0, , .		1
185	Application of PDSLIn to the magnetic reconnection problem. Computational Science & Discovery, 2013, 6, 014002.	1.5	1
186	Jump conditions in transonic equilibria. Physics of Plasmas, 2013, 20, 042502.	1.9	1
187	Feedback stabilization experiment for MHD control with edge current. , 0, , .		1
188	Simulation of pellet ELM triggering in low-collisionality, ITER-like discharges. Nuclear Fusion, 2021, 61, 126059.	3.5	1
189	Tokamak Fusion Reactor Start-Up Simulation. Fusion Science and Technology, 1987, 12, 22-29.	0.6	0
190	Overview of the CIT Physics Design. Fusion Science and Technology, 1991, 19, 1109-1114.	0.6	0
191	Plasma vertical stability and feedback control for TPX. , 0, , .		0
192	Profile modification computations for LHCD experiments on PBX-M using the TSC/LSC model. , 1996, , .		0
193	Innovative Confinement Concepts Workshopâ€™2002: Conference Report. Journal of Fusion Energy, 2001, 20, 13-18.	1.2	0
194	Modeling of spherical torus plasmas for liquid lithium wall experiments. , 0, , .		0
195	Some Considerations and Techniques for the Predictive Simulation of Global Instabilities in Tokamaks. Fusion Science and Technology, 2011, 59, 519-525.	1.1	0
196	Design description of the coaxial helicity injection (CHI) system on NSTX-U. , 2013, , .		0
197	Validation of Neutral Point on JT-60U, Alcator C-Mod and ASDEX-Upgrade Tokamaks.. Journal of Plasma and Fusion Research, 2002, 78, 347-355.	0.4	0
198	Transient Coaxial Helicity Injection Plasma Start-up in NSTX and CHI Program Plans on NSTX-U. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 462-467.	0.2	0

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