

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	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8
2	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
3	Ideal MHD Limited Electron Temperature in Spherical Tokamaks. Physical Review Letters, 2022, 128, .	7.8	7
4	ITER cold VDEs in the limit of perfectly conducting walls. Physics of Plasmas, 2021, 28, 012511.	1.9	4
5	3D simulations of vertical displacement events in tokamaks: A benchmark of M3D-C1, NIMROD, and JOEK. Physics of Plasmas, 2021, 28, .	1.9	19
6	Approach to nonlinear magnetohydrodynamic simulations in stellarator geometry. Nuclear Fusion, 2021, 61, 086015.	3.5	6
7	Modeling of carbon pellets disruption mitigation in an NSTX-U plasma. Nuclear Fusion, 2021, 61, 116003.	3.5	3
8	Self-consistent simulation of resistive kink instabilities with runaway electrons. Plasma Physics and Controlled Fusion, 2021, 63, 125031.	2.1	5
9	A novel path to runaway electron mitigation via deuterium injection and current-driven MHD instability. Nuclear Fusion, 2021, 61, 116058.	3.5	21
10	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. Computer Physics Communications, 2021, 269, 108134.	7.5	16
11	Simulation of MHD instabilities with fluid runaway electron model in M3D-C1. Nuclear Fusion, 2021, 60, 126017.	3.5	15
12	Prototype tests of the electromagnetic particle injector-2 for fast time response disruption mitigation in tokamaks. Nuclear Fusion, 2021, 61, 126034.	3.5	8
13	Simulation of pellet ELM triggering in low-collisionality, ITER-like discharges. Nuclear Fusion, 2021, 61, 126059.	3.5	1
14	Structure and overstability of resistive modes with runaway electrons. Physics of Plasmas, 2020, 27, .	1.9	9
15	Shattered pellet penetration in low and high energy plasmas on DIII-D. Nuclear Fusion, 2020, 60, 036014.	3.5	14
16	Axisymmetric simulations of vertical displacement events in tokamaks: A benchmark of M3D-C1, NIMROD, and JOEK. Physics of Plasmas, 2020, 27, 022505.	1.9	18
17	A new explanation of the sawtooth phenomena in tokamaks. Physics of Plasmas, 2020, 27, .	1.9	26
18	A new stabilizing regime of tearing mode entrainment in the presence of a static error field. Nuclear Fusion, 2019, 59, 126015.	3.5	4

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19	Vertical forces during vertical displacement events in an ITER plasma and the role of halo currents. Nuclear Fusion, 2019, 59, 126037.	3.5	25
20	NSTX/NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2019, 59, 112007.	3.5	20
21	Axisymmetric benchmarks of impurity dynamics in extended-magnetohydrodynamic simulations. Plasma Physics and Controlled Fusion, 2019, 61, 064001.	2.1	22
22	Application of transient CHI plasma startup to future ST and AT devices. Physics of Plasmas, 2019, 26, 032501.	1.9	2
23	3D two-temperature magnetohydrodynamic modeling of fast thermal quenches due to injected impurities in tokamaks. Nuclear Fusion, 2019, 59, 016001.	3.5	31
24	Modelling of NSTX hot vertical displacement events using M3D-C1. Physics of Plasmas, 2018, 25, 056106.	1.9	12
25	Validation of the "full reconnection model"™ of the sawtooth instability in KSTAR. Nuclear Fusion, 2018, 58, 066009.	3.5	16
26	TSC Simulation of Transient CHI in New Electrode Configuration on QUEST. Plasma and Fusion Research, 2018, 13, 3402059-3402059.	0.7	0
27	Investigation of instabilities and rotation alteration in high beta KSTAR plasmas. Physics of Plasmas, 2017, 24, .	1.9	7
28	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
29	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	3.5	45
30	Modeling of lithium granule injection in NSTX with M3D-C1. Nuclear Materials and Energy, 2017, 12, 1094-1099.	1.3	3
31	Magnetic flux pumping in 3D nonlinear magnetohydrodynamic simulations. Physics of Plasmas, 2017, 24, .	1.9	29
32	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
33	Multi-region approach to free-boundary three-dimensional tokamak equilibria and resistive wall instabilities. Physics of Plasmas, 2016, 23, .	1.9	29
34	Nonlinear asymmetric tearing mode evolution in cylindrical geometry. Physics of Plasmas, 2016, 23, .	1.9	4
35	Mesh generation for confined fusion plasma simulation. Engineering With Computers, 2016, 32, 285-293.	6.1	18
36	Self-Organized Stationary States of Tokamaks. Physical Review Letters, 2015, 115, 215001.	7.8	60

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37	Steady-state benchmarks of DK4D: A time-dependent, axisymmetric drift-kinetic equation solver. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	3
38	An overview of recent physics results from NSTX. <i>Nuclear Fusion</i> , 2015, 55, 104002.	3.5	21
39	Inter-code comparison benchmark between DINA and TSC for ITER disruption modelling. <i>Nuclear Fusion</i> , 2014, 54, 083002.	3.5	32
40	Tokamak toroidal rotation caused by AVDEs and ELMs. <i>Nuclear Fusion</i> , 2014, 54, 043017.	3.5	16
41	Three-dimensional distortions of the tokamak plasma boundary: boundary displacements in the presence of saturated MHD instabilities. <i>Nuclear Fusion</i> , 2014, 54, 083007.	3.5	9
42	Design Details of the Transient CHI Plasma Start-up System on NSTX-U. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2154-2160.	1.3	3
43	Sideways wall force produced during tokamak disruptions. <i>Nuclear Fusion</i> , 2013, 53, 073018.	3.5	33
44	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. <i>Nuclear Fusion</i> , 2013, 53, 104007.	3.5	53
45	Design description of the coaxial helicity injection (CHI) system on NSTX-U. , 2013, , .		0
46	Application of PDSLIn to the magnetic reconnection problem. <i>Computational Science & Discovery</i> , 2013, 6, 014002.	1.5	1
47	Jump conditions in transonic equilibria. <i>Physics of Plasmas</i> , 2013, 20, 042502.	1.9	1
48	Numerical calculation of neoclassical distribution functions and current profiles in low collisionality, axisymmetric plasmas. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	9
49	Multiple timescale calculations of sawteeth and other global macroscopic dynamics of tokamak plasmas. <i>Computational Science & Discovery</i> , 2012, 5, 014002.	1.5	61
50	Numerical simulation of four-field extended magnetohydrodynamics in dynamically adaptive curvilinear coordinates via Newtonâ€“Krylovâ€“Schwarz. <i>Journal of Computational Physics</i> , 2012, 231, 5822-5853.	3.8	4
51	Review of implicit methods for the magnetohydrodynamic description of magnetically confined plasmas. <i>Journal of Computational Physics</i> , 2012, 231, 822-838.	3.8	50
52	Transient Coaxial Helicity Injection Plasma Start-up in NSTX and CHI Program Plans on NSTX-U. <i>IEEE Transactions on Fundamentals and Materials</i> , 2012, 132, 462-467.	0.2	0
53	Some Considerations and Techniques for the Predictive Simulation of Global Instabilities in Tokamaks. <i>Fusion Science and Technology</i> , 2011, 59, 519-525.	1.1	0
54	Moving grids for magnetic reconnection via Newtonâ€“Krylov methods. <i>Computer Physics Communications</i> , 2011, 182, 173-176.	7.5	4

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55	Transient CHI start-up simulations with the TSC. Nuclear Fusion, 2011, 51, 113018.	3.5	12
56	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
57	Ideal and resistive edge stability calculations with M3D-C1. Physics of Plasmas, 2010, 17, 102508.	1.9	58
58	Numerical calculations demonstrating complete stabilization of the ideal magnetohydrodynamic resistive wall mode by longitudinal flow. Physics of Plasmas, 2009, 16, .	1.9	11
59	Some properties of the M3D-C1 form of the three-dimensional magnetohydrodynamics equations. Physics of Plasmas, 2009, 16, .	1.9	39
60	Calculations of two-fluid magnetohydrodynamic axisymmetric steady-states. Journal of Computational Physics, 2009, 228, 7742-7770.	3.8	56
61	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
62	On 1D diffusion problems with a gradient-dependent diffusion coefficient. Journal of Computational Physics, 2008, 227, 8769-8775.	3.8	12
63	The M3D-C1 approach to simulating 3D 2-fluid magnetohydrodynamics in magnetic fusion experiments. Journal of Physics: Conference Series, 2008, 125, 012044.	0.4	27
64	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
65	Three-dimensional modeling of the sawtooth instability in a small tokamak. Physics of Plasmas, 2007, 14, 056105.	1.9	22
66	Chapter 3: MHD stability, operational limits and disruptions. Nuclear Fusion, 2007, 47, S128-S202.	3.5	951
67	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
68	Plasma profile and shape optimization for the advanced tokamak power plant, ARIES-AT. Fusion Engineering and Design, 2006, 80, 63-77.	1.9	34
69	Physics basis for the advanced tokamak fusion power plant, ARIES-AT. Fusion Engineering and Design, 2006, 80, 25-62.	1.9	43
70	A simulation study on inductive ITB control in reversed shear tokamak discharges. Nuclear Fusion, 2006, 46, S645-S651.	3.5	3
71	Finite element implementation of Braginskii's gyroviscous stress with application to the gravitational instability. Physics of Plasmas, 2006, 13, 092101.	1.9	18
72	Recent liquid lithium limiter experiments in CDX-U. Nuclear Fusion, 2005, 45, 519-523.	3.5	95

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73	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
74	Comparison of Simulated Magnetoplasma-dynamic Thruster Flowfields to Experimental Measurements. <i>Journal of Propulsion and Power</i> , 2005, 21, 129-138.	2.2	29
75	Numerical simulation on current spike behaviour of JT-60U disruptive plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, 1815-1830.	2.1	3
76	A triangular finite element with first-derivative continuity applied to fusion MHD applications. <i>Journal of Computational Physics</i> , 2004, 200, 133-152.	3.8	44
77	MHD simulations with resistive wall and magnetic separatrix. <i>Computer Physics Communications</i> , 2004, 164, 40-45.	7.5	15
78	3D adaptive mesh refinement simulations of pellet injection in tokamaks. <i>Computer Physics Communications</i> , 2004, 164, 220-228.	7.5	20
79	Symmetric solution in M3D. <i>Computer Physics Communications</i> , 2004, 164, 468-471.	7.5	2
80	A Review of the U.S. Department of Energy's Inertial Fusion Energy Program. <i>Journal of Fusion Energy</i> , 2003, 22, 93-126.	1.2	9
81	Physics basis for a spherical torus power plant. <i>Fusion Engineering and Design</i> , 2003, 65, 165-197.	1.9	24
82	Superconducting poloidal field magnet engineering for the ARIES-ST. <i>Fusion Engineering and Design</i> , 2003, 65, 323-338.	1.9	5
83	A parallel algorithm for global magnetic reconnection studies. <i>Computer Physics Communications</i> , 2003, 151, 8-24.	7.5	13
84	Progress towards high-performance, steady-state spherical torus. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, A335-A350.	2.1	25
85	Results of NSTX heating experiments. <i>IEEE Transactions on Plasma Science</i> , 2003, 31, 60-67.	1.3	2
86	Global extended magnetohydrodynamic studies of fast magnetic reconnection. <i>Physics of Plasmas</i> , 2003, 10, 1291-1298.	1.9	32
87	Simulation studies of the role of reconnection in the "current hole" experiments in the Joint European Torus. <i>Physics of Plasmas</i> , 2003, 10, 1665-1669.	1.9	19
88	Magnetohydrodynamic modeling of two-dimensional reconnection in the Magnetic Reconnection Experiment. <i>Physics of Plasmas</i> , 2003, 10, 3131-3138.	1.9	6
89	Non-existence of normal tokamak equilibria with negative central current. <i>Physics of Plasmas</i> , 2003, 10, 4048-4052.	1.9	17
90	The national spherical torus experiment (NSTX) research programme and progress towards high beta, long pulse operating scenarios. <i>Nuclear Fusion</i> , 2003, 43, 1653-1664.	3.5	49

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91	Nonlinear simulation studies of tokamaks and STs. Nuclear Fusion, 2003, 43, 483-489.	3.5	30
92	System Analysis of a Compact Next Step Burning Plasma Experiment. Fusion Science and Technology, 2003, 43, 161-175.	1.1	7
93	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
94	Axisymmetric disruption dynamics including current profile changes in the ASDEX-Upgrade tokamak. Plasma Physics and Controlled Fusion, 2002, 44, 1471-1481.	2.1	12
95	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
96	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
97	Numerical study of global stability of oblate field-reversed configurations. Physics of Plasmas, 2001, 8, 1267.	1.9	30
98	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
99	Innovative Confinement Concepts Workshop 2002: Conference Report. Journal of Fusion Energy, 2001, 20, 13-18.	1.2	0
100	Fusion Simulation Project: Integrated Simulation and Optimization of Magnetic Fusion Systems. Journal of Fusion Energy, 2001, 20, 135-196.	1.2	15
101	Ohmic flux consumption during initial operation of the NSTX spherical torus. Nuclear Fusion, 2001, 41, 1197-1206.	3.5	24
102	Non-inductive current generation in NSTX using coaxial helicity injection. Nuclear Fusion, 2001, 41, 1081-1086.	3.5	66
103	Overview of the initial NSTX experimental results. Nuclear Fusion, 2001, 41, 1435-1447.	3.5	49
104	Initial physics results from the National Spherical Torus Experiment. Physics of Plasmas, 2001, 8, 1977-1987.	1.9	46
105	Physics basis for a tokamak fusion power plant. Fusion Engineering and Design, 2000, 48, 281-298.	1.9	19
106	A fast shutdown technique for large tokamaks. Nuclear Fusion, 2000, 40, 923-933.	3.5	31
107	Science and technology of the 10 MA spherical tori. Nuclear Fusion, 2000, 40, 583-587.	3.5	2
108	Timescales for non-inductive current buildup in low aspect ratio toroidal geometry. Nuclear Fusion, 2000, 40, 1101-1112.	3.5	16

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109	Numerical study of tilt stability of prolate field-reversed configurations. <i>Physics of Plasmas</i> , 2000, 7, 4996-5006.	1.9	79
110	The KSTAR project: An advanced steady state superconducting tokamak experiment. <i>Nuclear Fusion</i> , 2000, 40, 575-582.	3.5	168
111	Exploration of spherical torus physics in the NSTX device. <i>Nuclear Fusion</i> , 2000, 40, 557-561.	3.5	363
112	The Mercier criterion in reversed-shear tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, 1379-1392.	2.1	3
113	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
114	The design of the KSTAR tokamak. <i>Fusion Engineering and Design</i> , 1999, 46, 405-411.	1.9	61
115	Numerical study for design of the passive stabilizer and its impact on MHD stability in the proposed KSTAR plasma. <i>Fusion Engineering and Design</i> , 1999, 45, 465-474.	1.9	4
116	Chapter 3: MHD stability, operational limits and disruptions. <i>Nuclear Fusion</i> , 1999, 39, 2251-2389.	3.5	283
117	Physics Design of the National Spherical Torus Experiment. <i>Fusion Science and Technology</i> , 1999, 36, 16-37.	0.6	85
118	Economic comparison of MHD equilibrium options for advanced steady state tokamak power plants. <i>Nuclear Fusion</i> , 1998, 38, 13-29.	3.5	8
119	Numerical simulation of feedback stabilization of axisymmetric modes in tokamaks using driven halo currents. <i>Nuclear Fusion</i> , 1998, 38, 1105-1112.	3.5	5
120	Plasma transport control and self-sustaining fusion reactor. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, A361-A369.	2.1	7
121	Ideal MHD stability limits of low aspect ratio tokamak plasmas. <i>Nuclear Fusion</i> , 1997, 37, 595-610.	3.5	97
122	Overview of the ARIES-RS reversed-shear tokamak power plant study. <i>Fusion Engineering and Design</i> , 1997, 38, 3-25.	1.9	138
123	Physics basis for a reversed shear tokamak power plant. <i>Fusion Engineering and Design</i> , 1997, 38, 27-57.	1.9	66
124	Profile modification computations for LHCD experiments on PBX-M using the TSC/LSC model. , 1996, , .		0
125	Poloidal Field Control for the Tokamak Physics Experiment. <i>Fusion Science and Technology</i> , 1996, 30, 184-200.	0.6	7
126	Acceleration Mechanism of Vertical Displacement Event and its Amelioration in Tokamak Disruptions. <i>Journal of Nuclear Science and Technology</i> , 1996, 33, 609-619.	1.3	9

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127	Current profile modification during lower hybrid current drive in the Princeton Beta Experiment-Modification. Nuclear Fusion, 1996, 36, 1743-1750.	3.5	6
128	-collapse-induced vertical displacement event in high tokamak disruption. Plasma Physics and Controlled Fusion, 1996, 38, 1791-1804.	2.1	19
129	Spreading of lower hybrid wave driven currents in PBX-M. Nuclear Fusion, 1996, 36, 1733-1742.	3.5	10
130	Mechanism of vertical displacement events in JT-60U disruptive discharges. Nuclear Fusion, 1996, 36, 643-656.	3.5	42
131	The tokamak physics experiment: tokamak improvement through advanced steady state control. Fusion Engineering and Design, 1995, 26, 563-574.	1.9	2
132	Ponderomotive feedback stabilization of external kinks and disruptions in tokamaks. Physics of Plasmas, 1995, 2, 3429-3439.	1.9	1
133	Control of the current density profile with lower-hybrid current drive on PBX-M. AIP Conference Proceedings, 1994, , .	0.4	2
134	Poloidal flux linkage requirements for the International Thermonuclear Experimental Reactor. Nuclear Fusion, 1994, 34, 1145-1160.	3.5	19
135	Dynamic modelling of lower hybrid current drive. Nuclear Fusion, 1994, 34, 837-852.	3.5	84
136	The prospects for magnetohydrodynamic stability in advanced tokamak regimes*. Physics of Plasmas, 1994, 1, 1601-1605.	1.9	73
137	Magnetohydrodynamic stability regimes for steady state and pulsed reactors. Fusion Engineering and Design, 1994, 25, 215-225.	1.9	1
138	Advanced tokamak physics-status and prospects. Plasma Physics and Controlled Fusion, 1994, 36, B213-B227.	2.1	52
139	Calculations of Axisymmetric Stability of Tokamak Plasmas with Active and Passive Feedback. Journal of Computational Physics, 1993, 104, 221-240.	3.8	37
140	The design of the Tokamak Physics Experiment (TPX). Journal of Fusion Energy, 1993, 12, 221-258.	1.2	16
141	TSC simulation of Ohmic discharges in TFTR. Nuclear Fusion, 1993, 33, 371-382.	3.5	105
142	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
143	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
144	Excitation of high frequency pressure driven modes in non-axisymmetric equilibrium at high Âpolin PBX-M. Nuclear Fusion, 1993, 33, 1877-1897.	3.5	7

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145	TSC plasma halo simulation of a DIII-D vertical displacement episode. Nuclear Fusion, 1993, 33, 969-978.	3.5	43
146	Application of a new algorithm to plasma shape control in BPX. Nuclear Fusion, 1992, 32, 897-902.	3.5	12
147	The ARIES-II and ARIES-IV Second-Stability Tokamak Reactors. Fusion Science and Technology, 1992, 21, 1721-1728.	0.6	30
148	Effects of plasma deformability on the feedback stabilization of axisymmetric modes in tokamak plasmas. Nuclear Fusion, 1992, 32, 973-994.	3.5	19
149	The computation of resistive MHD instabilities in axisymmetric toroidal plasmas. Journal of Computational Physics, 1992, 103, 43-62.	3.8	4
150	Overview of the CIT Physics Design. Fusion Science and Technology, 1991, 19, 1109-1114.	0.6	0
151	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
152	Coolant Ingress Induced Disruption Calculations for ITERa. Fusion Science and Technology, 1991, 19, 1278-1283.	0.6	9
153	Dynamics and energy flow in a disrupting tokamak plasma. Fusion Engineering and Design, 1991, 15, 163-180.	1.9	17
154	Numerical drift orbit calculations for force-free spheromak configurations. Physics of Fluids B, 1990, 2, 554-560.	1.7	3
155	Control of plasma shape and performance of the PBX tokamak experiment in high- β_t / high- β_p regimes. Physics of Fluids B, 1990, 2, 1271-1279.	1.7	65
156	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
157	Simulations of control, perturbation, displacement and disruption in highly elongated tokamak plasmas. Nuclear Fusion, 1990, 30, 1511-1521.	3.5	16
158	Plasma shape and position control in highly elongated tokamaks. Nuclear Fusion, 1990, 30, 2013-2022.	3.5	65
159	Feedback stabilization of the axisymmetric instability of a deformable tokamak plasma. Nuclear Fusion, 1989, 29, 465-473.	3.5	14
160	Modelling the effects of the sawtooth instability in tokamaks using a current viscosity term. Nuclear Fusion, 1989, 29, 905-914.	3.5	13
161	Stability of elongated cross-section tokamaks to axisymmetric even poloidal mode number deformations. Physics of Fluids B, 1989, 1, 2349-2352.	1.7	2
162	Force-free coil principles applied to high-temperature superconducting materials. IEEE Transactions on Magnetics, 1988, 24, 1467-1468.	2.1	25

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163	Modelling of post-disruptive plasma loss in the Princeton Beta Experiment. Nuclear Fusion, 1987, 27, 569-578.	3.5	35
164	Tokamak Fusion Reactor Start-Up Simulation. Fusion Science and Technology, 1987, 12, 22-29.	0.6	0
165	The Spheromak. Europhysics News, 1986, 17, 73-76.	0.3	3
166	Dynamic modeling of transport and positional control of tokamaks. Journal of Computational Physics, 1986, 66, 481-507.	3.8	375
167	The effect of a column inductive transformer on the S-1 Spheromak. Nuclear Fusion, 1986, 26, 647-655.	3.5	5
168	The Princeton spectral equilibrium code: PSEC. Journal of Computational Physics, 1985, 58, 300-335.	3.8	31
169	Controlled Evolution of Highly Elongated Tokamak Plasmas. Physical Review Letters, 1985, 55, 2289-2292.	7.8	11
170	Resistive stability of the cylindrical spheromak. Physics of Fluids, 1984, 27, 1470.	1.4	16
171	Numerical solution of the resistive magnetohydrodynamic boundary layer equations. Physics of Fluids, 1984, 27, 1225.	1.4	37
172	Nonlinear evolution of the resistive interchange mode in the cylindrical spheromak. Physics of Fluids, 1984, 27, 1773.	1.4	8
173	Nonlinear saturation of nonresonant internal instabilities in a straight spheromak. Physics of Fluids, 1983, 26, 1871.	1.4	12
174	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
175	Tearing-mode stability of a forming spheromak plasma. Nuclear Fusion, 1982, 22, 459-464.	3.5	1
176	Ideal magnetohydrodynamic stability of the spheromak configuration. Nuclear Fusion, 1982, 22, 629-642.	3.5	44
177	Feedback stabilization of rigid axisymmetric modes in tokamaks. Nuclear Fusion, 1982, 22, 1095-1098.	3.5	46
178	Self-consistent solutions of the plasma transport equations in an axisymmetric toroidal system. Journal of Computational Physics, 1981, 43, 31-60.	3.8	13
179	Quasistatic Formation of the Spheromak Plasma Configuration. Physical Review Letters, 1981, 46, 188-191.	7.8	122
180	Two-dimensional modeling of the formation of spheromak configurations. Physics of Fluids, 1981, 24, 679.	1.4	30

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181	Stabilizing windings for the tilting and shifting modes in an inductively formed spheromak. Nuclear Fusion, 1981, 21, 1665-1667.	3.5	28
182	Tilting and shifting modes in a spheromak. Nuclear Fusion, 1981, 21, 1203-1207.	3.5	40
183	An iterative metric method for solving the inverse tokamak equilibrium problem. Journal of Computational Physics, 1980, 37, 183-204.	3.8	143
184	Non-linear saturation of the internal kink mode. Nuclear Fusion, 1980, 20, 1181-1185.	3.5	48
185	Two-dimensional transport of tokamak plasmas. Physics of Fluids, 1979, 22, 731.	1.4	57
186	Numerical determination of axisymmetric toroidal magnetohydrodynamic equilibria. Journal of Computational Physics, 1979, 32, 212-234.	3.8	111
187	Dynamical grid method for time-dependent simulations of axisymmetric instabilities in tokamaks. Journal of Computational Physics, 1978, 29, 101-126.	3.8	19
188	Stabilization of the axisymmetric instability in the poloidal divertor experiment tokamak. Physics of Fluids, 1978, 21, 1851.	1.4	22
189	Use of tokamak dynamics models for digital filtering and control. , 0, , .		1
190	Integrated, model based feedback control in fusion reactors. , 0, , .		1
191	Physics design requirements for the Tokamak Physics Experiment (TPX). , 0, , .		1
192	Plasma vertical stability and feedback control for TPX. , 0, , .		0
193	Plasma system requirements and performance data base for the Starlite/Demo fusion power plant. , 0, , .		5
194	Plasma physics basis and operations of the ARIES-ST tokamak power plant. , 0, , .		2
195	The design of the Korea Superconducting Tokamak Advanced Research (KSTAR). , 0, , .		1
196	Making of the NSTX facility. , 0, , .		3
197	Physics basis for the ARIES-ST power plant. , 0, , .		4
198	Modeling of spherical torus plasmas for liquid lithium wall experiments. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	Feedback stabilization experiment for MHD control with edge current. , 0, , .		1
200	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 0, , .	3.5	0