Olivier Sauter

List of Publications by Year
in descending order

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342	13,618	36303	30087
papers	citations	51 h-index	103 g-index

345	345	345	6477
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chapter 3: MHD stability, operational limits and disruptions. Nuclear Fusion, 2007, 47, S128-S202.	3.5	951
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
3	Neoclassical conductivity and bootstrap current formulas for general axisymmetric equilibria and arbitrary collisionality regime. Physics of Plasmas, 1999, 6, 2834-2839.	1.9	703
4	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
5	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
6	Beta limits in long-pulse tokamak discharges. Physics of Plasmas, 1997, 4, 1654-1664.	1.9	423
7	The CHEASE code for toroidal MHD equilibria. Computer Physics Communications, 1996, 97, 219-260.	7.5	314
8	Wall Stabilization of High Beta Tokamak Discharges in DIII-D. Physical Review Letters, 1995, 74, 2483-2486.	7.8	285
9	Magnetic control of tokamak plasmas through deep reinforcement learning. Nature, 2022, 602, 414-419.	27.8	244
10	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
11	Control of Neoclassical Tearing Modes by Sawtooth Control. Physical Review Letters, 2002, 88, 105001.	7.8	217
12	On the physics guidelines for a tokamak DEMO. Nuclear Fusion, 2013, 53, 073019.	3.5	192
13	A global collisionless PIC code in magnetic coordinates. Computer Physics Communications, 2007, 177, 409-425.	7.5	185
14	Creation and control of variably shaped plasmas in TCV. Plasma Physics and Controlled Fusion, 1994, 36, B277-B287.	2.1	156
15	A drift-kinetic Semi-Lagrangian 4D code for ion turbulence simulation. Journal of Computational Physics, 2006, 217, 395-423.	3.8	145
16	Stable equilibria for bootstrap-current-driven low aspect ratio tokamaks. Physics of Plasmas, 1997, 4, 1062-1068.	1.9	138
17	Effects of localized electron heating and current drive on the sawtooth period. Nuclear Fusion, 2003, 43, 455-468.	3.5	122
18	Real-time physics-model-based simulation of the current density profile in tokamak plasmas. Nuclear Fusion, 2011, 51, 083052.	3.5	109

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19	Impact of plasma triangularity and collisionality on electron heat transport in TCV L-mode plasmas. Nuclear Fusion, 2007, 47, 510-516.	3.5	105
20	Steady-State Fully Noninductive Current Driven by Electron Cyclotron Waves in a Magnetically Confined Plasma. Physical Review Letters, 2000, 84, 3322-3325.	7.8	102
21	Neoclassical tearing modes. Plasma Physics and Controlled Fusion, 2000, 42, B61-B73.	2.1	101
22	Snowflake divertor plasmas on TCV. Plasma Physics and Controlled Fusion, 2009, 51, 055009.	2.1	97
23	The role of ion and electron electrostatic turbulence in characterizing stationary particle transport in the core of tokamak plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 015007.	2.1	94
24	Overview of the ITER EC upper launcher. Nuclear Fusion, 2008, 48, 054013.	3.5	93
25	Error field locked modes thresholds in rotating plasmas, anomalous braking and spin-up. Physics of Plasmas, 2002, 9, 3906-3918.	1.9	92
26	On the requirements to control neoclassical tearing modes in burning plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 025002.	2.1	92
27	Design and first applications of the ITER integrated modelling & analysis suite. Nuclear Fusion, 2015, 55, 123006.	3.5	92
28	Overview of the ITER EC H&CD system and its capabilities. Fusion Engineering and Design, 2011, 86, 951-954.	1.9	82
29	Marginal Â-limit for neoclassical tearing modes in JET H-mode discharges. Plasma Physics and Controlled Fusion, 2002, 44, 1999-2019.	2.1	81
30	Resistive Interchange Modes in Negative Central Shear Tokamaks with Peaked Pressure Profiles. Physical Review Letters, 1996, 77, 2710-2713.	7.8	78
31	Spontaneous L-mode plasma rotation scaling in the TCV tokamak. Physics of Plasmas, 2008, 15, 056113.	1.9	78
32	Threshold for metastable tearing modes in DIII-D. Nuclear Fusion, 1998, 38, 987-999.	3.5	69
33	Onset of neoclassical tearing modes on JET. Nuclear Fusion, 2003, 43, 69-83.	3.5	69
34	Finite element approach to global gyrokinetic Particle-In-Cell simulations using magnetic coordinates. Computer Physics Communications, 1998, 111, 27-47.	7.5	67
35	Tokamak Magnetohydrodynamic Equilibrium States with Axisymmetric Boundary and a 3D Helical Core. Physical Review Letters, 2010, 105, 035003.	7.8	66
36	Non-linear model-based optimization of actuator trajectories for tokamak plasma profile control. Plasma Physics and Controlled Fusion, 2012, 54, 025002.	2.1	65

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37	From Current-Driven to Neoclassically Driven Tearing Modes. Physical Review Letters, 2002, 88, 105005.	7.8	61
38	The effect of plasma triangularity on turbulent transport: modeling TCV experiments by linear and non-linear gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2009, 51, 055016.	2.1	61
39	Energy confinement and MHD activity in shaped TCV plasmas with localized electron cyclotron heating. Nuclear Fusion, 1999, 39, 1807-1818.	3.5	60
40	Full radius linear and nonlinear gyrokinetic simulations for tokamaks and stellarators: zonal flows, appliedEÃ—Bflows, trapped electrons and finite beta. Nuclear Fusion, 2004, 44, 172-180.	3.5	60
41	Radial Transport and Electron-Cyclotron-Current Drive in the TCV and DIII-D Tokamaks. Physical Review Letters, 2002, 88, 205001.	7.8	59
42	Progress in disruption prevention for ITER. Nuclear Fusion, 2019, 59, 112012.	3.5	59
43	Sawtooth Pacing by Real-Time Auxiliary Power Control in a Tokamak Plasma. Physical Review Letters, 2011, 106, 245002.	7.8	58
44	Overview of recent experimental results on MAST. Nuclear Fusion, 2003, 43, 1665-1673.	3.5	57
45	Integrated scenario in JET using real-time profile control. Plasma Physics and Controlled Fusion, 2003, 45, A367-A383.	2.1	55
46	Long-Pulse Improved Central Electron Confinement in the TCV Tokamak with Electron Cyclotron Heating and Current Drive. Physical Review Letters, 2001, 86, 1530-1533.	7.8	54
47	Computational challenges in magnetic-confinement fusion physics. Nature Physics, 2016, 12, 411-423.	16.7	54
48	The negative triangularity tokamak: stability limits and prospects as a fusion energy system. Nuclear Fusion, 2015, 55, 063013.	3.5	53
49	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
50	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
51	Recent progress on JET towards the ITER reference mode of operation at high density. Plasma Physics and Controlled Fusion, 2001, 43, A11-A30.	2.1	51
52	Integrated real-time control of MHD instabilities using multi-beam ECRH/ECCD systems on TCV. Nuclear Fusion, 2012, 52, 074001.	3.5	51
53	Behaviour of central plasma relaxation oscillations during localized electron cyclotron heating on the TCV tokamak. Nuclear Fusion, 1999, 39, 587-611.	3.5	50
54	Flux- and gradient-driven global gyrokinetic simulation of tokamak turbulence. Physics of Plasmas, 2011, 18, .	1.9	50

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55	â€œSnowflakeâ€•H Mode in a Tokamak Plasma. Physical Review Letters, 2010, 105, 155003.	7.8	49
56	On the non-stiffness of edge transport in L-mode tokamak plasmas. Physics of Plasmas, 2014, 21, .	1.9	48
57	Long timescale density peaking in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1911-1917.	2.1	47
58	On the definition of a kinetic equilibrium in global gyrokinetic simulations. Physics of Plasmas, 2006, 13, 052304.	1.9	47
59	Hybrid advanced scenarios: perspectives for ITER and new experiments with dominant RF heating. Plasma Physics and Controlled Fusion, 2004, 46, B435-B447.	2.1	46
60	A generic data structure for integrated modelling of tokamak physics and subsystems. Computer Physics Communications, 2010, 181, 987-998.	7.5	46
61	Neutral beam stabilization of sawtooth oscillations in JET. Plasma Physics and Controlled Fusion, 2002, 44, 205-222.	2.1	45
62	Destabilization of Fast-Ion-Induced Long Sawteeth by Localized Current Drive in the JET Tokamak. Physical Review Letters, 2004, 92, 235004.	7.8	45
63	Towards the realization on JET of an integrated H-mode scenario for ITER. Nuclear Fusion, 2004, 44, 124-133.	3.5	45
64	The European Integrated Tokamak Modelling (ITM) effort: achievements and first physics results. Nuclear Fusion, 2014, 54, 043018.	3.5	45
65	Novel aspects of plasma control in ITER. Physics of Plasmas, 2015, 22, 021806.	1.9	45
66	L-mode-edge negative triangularity tokamak reactor. Nuclear Fusion, 2019, 59, 056017.	3.5	45
67	Sawtooth control in fusion plasmas. Plasma Physics and Controlled Fusion, 2005, 47, B121-B133.	2.1	44
68	High-power ECH and fully non-inductive operation with ECCD in the TCV tokamak. Plasma Physics and Controlled Fusion, 2000, 42, B311-B321.	2.1	43
69	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
70	Electron cyclotron current drive and suprathermal electron dynamics in the TCV tokamak. Nuclear Fusion, 2003, 43, 1361-1370.	3.5	42
71	On the contribution of local current density to neoclassical tearing mode stabilization. Physics of Plasmas, 2004, 11, 4808-4813.	1.9	42
72	The effect of triangularity on fluctuations in a tokamak plasma. Nuclear Fusion, 2018, 58, 024002.	3.5	41

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73	Real-time-capable prediction of temperature and density profiles in a tokamak using RAPTOR and a first-principle-based transport model. Nuclear Fusion, 2018, 58, 096006.	3.5	41
74	Effect of triangular and elongated plasma shape on the sawtooth stability. Plasma Physics and Controlled Fusion, 2000, 42, 629-639.	2.1	40
75	Steady-state fully noninductive operation with electron cyclotron current drive and current profile control in the tokamak Ã configuration variable (TCV). Physics of Plasmas, 2001, 8, 2199-2207.	1.9	40
76	Control of sawteeth and triggering of NTMs with ion cyclotron resonance frequency waves in JET. Nuclear Fusion, 2002, 42, 1324-1334.	3.5	40
77	The Front Steering Launcher Design for the ITER ECRH Upper Port. Journal of Physics: Conference Series, 2005, 25, 143-150.	0.4	40
78	Active control of MHD instabilities by ECCD in ASDEX Upgrade. Nuclear Fusion, 2005, 45, 1369-1376.	3.5	40
79	On the heating mix of ITER. Plasma Physics and Controlled Fusion, 2010, 52, 124044.	2.1	40
80	Path-oriented early reaction to approaching disruptions in ASDEX Upgrade and TCV in view of the future needs for ITER and DEMO. Plasma Physics and Controlled Fusion, 2018, 60, 014047.	2.1	40
81	DEMO physics challenges beyond ITER. Fusion Engineering and Design, 2020, 156, 111603.	1.9	40
82	Empirical scaling of sawtooth period for onset of neoclassical tearing modes. Nuclear Fusion, 2010, 50, 102001.	3.5	39
83	Neoclassical transport coefficients for general axisymmetric equilibria in the banana regime. Physics of Plasmas, 2000, 7, 1224-1234.	1.9	38
84	Neoclassical Tearing Physics in the Spherical Tokamak MAST. Physical Review Letters, 2002, 88, 125005.	7.8	38
85	The internal kink mode in an anisotropic flowing plasma with application to modeling neutral beam injected sawtoothing discharges. Physics of Plasmas, 2003, 10, 1034-1047.	1.9	38
86	Density peaking in low collisionality ELMy H-mode in JET. Plasma Physics and Controlled Fusion, 2004, 46, 1877-1889.	2.1	38
87	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
88	H-mode grade confinement in L-mode edge plasmas at negative triangularity on DIII-D. Physics of Plasmas, 2019, 26, .	1.9	38
89	Inductive Current Density Perturbations to Probe Electron Internal Transport Barriers in Tokamaks. Physical Review Letters, 2005, 94, 105002.	7.8	37
90	On recent results in the modelling of neoclassical-tearing-mode stabilization via electron cyclotron current drive and their impact on the design of the upper EC launcher for ITER. Nuclear Fusion, 2015, 55, 013023.	3.5	37

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91	Comparison ofm= 2,n= 1 neo-classical tearing mode limits in JET and DIII-D. Nuclear Fusion, 2004, 44, 788-794.	3.5	36
92	Integrated scenario with type-III ELMy H-mode edge: extrapolation to ITER. Nuclear Fusion, 2009, 49, 095012.	3.5	36
93	Experimental Evidence of Momentum Transport Induced by an Up-Down Asymmetric Magnetic Equilibrium in Toroidal Plasmas. Physical Review Letters, 2010, 105, 135003.	7.8	36
94	Ion cyclotron range of frequencies heating and current drive in deuteriumâ€“tritium plasmas. Physics of Plasmas, 1995, 2, 2427-2434.	1.9	35
95	Modelling of the electron cyclotron current drive experiments in the TCV tokamak. Nuclear Fusion, 2003, 43, 1343-1352.	3.5	35
96	Edge kink/ballooning mode stability in tokamaks with separatrix. Plasma Physics and Controlled Fusion, 2006, 48, 927-938.	2.1	35
97	Investigating profile stiffness and critical gradients in shaped TCV discharges using local gyrokinetic simulations of turbulent transport. Plasma Physics and Controlled Fusion, 2015, 57, 054010.	2.1	35
98	On the form of NTM onset scalings. Nuclear Fusion, 2004, 44, 678-685.	3.5	34
99	Comparison of methods for the detection of gravitational waves from unknown neutron stars. Physical Review D, 2016, 94, .	4.7	34
100	Neutral beam heating on the TCV tokamak. Fusion Engineering and Design, 2017, 123, 468-472.	1.9	34
101	Full absorption of third harmonic ECH in TCV tokamak plasmas in the presence of second harmonic ECCD. Nuclear Fusion, 2002, 42, 42-45.	3.5	33
102	On ion cyclotron current drive for sawtooth control. Nuclear Fusion, 2006, 46, S951-S964.	3.5	33
103	Effects of plasma current on nonlinear interactions of ITG turbulence, zonal flows and geodesic acoustic modes. Plasma Physics and Controlled Fusion, 2006, 48, 557-571.	2.1	33
104	EU developments of the ITER ECRH system. Fusion Engineering and Design, 2007, 82, 454-462.	1.9	33
105	Physics analysis of the ITER ECW system for optimized performance. Nuclear Fusion, 2008, 48, 054012.	3.5	33
106	Experimental and Theoretical Stability Limits of Highly Elongated Tokamak Plasmas. Physical Review Letters, 1998, 81, 2918-2921.	7.8	32
107	Simulations of global electrostatic microinstabilities in ASDEX Upgrade discharges. Physics of Plasmas, 2004, 11, 198-206.	1.9	32
108	Status of and prospects for advanced tokamak regimes from multi-machine comparisons using the ÂInternational Tokamak Physics ActivityÂ database. Plasma Physics and Controlled Fusion, 2004, 46, A19-A34.	2.1	31

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109	Demonstration of sawtooth period locking with power modulation in TCV plasmas. Nuclear Fusion, 2012, 52, 062002.	3.5	31
110	Pedestal properties of H-modes with negative triangularity using the EPED-CH model. Plasma Physics and Controlled Fusion, 2017, 59, 104001.	2.1	31
111	Poloidally asymmetric plasma response with ECH deposition near q=1 in TCV. Fusion Engineering and Design, 2001, 53, 241-248.	1.9	30
112	Stability at high performance in the MAST spherical tokamak. Nuclear Fusion, 2004, 44, 1027-1035.	3.5	30
113	Recent TCV Results - Innovative Plasma Shaping to Improve Plasma Properties and Insight. Plasma and Fusion Research, 2012, 7, 2502148-2502148.	0.7	30
114	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30
115	Shape dependence of sawtooth inversion radii and profile peaking factors in TCV L mode plasmas. Nuclear Fusion, 2002, 42, 136-142.	3.5	29
116	Rapid and Localized Electron Internal-Transport-Barrier Formation During Shear Inversion in Fully Noninductive TCV Discharges. Physical Review Letters, 2004, 93, 215001.	7.8	29
117	Electron heat transport in shaped TCV L-mode plasmas. Plasma Physics and Controlled Fusion, 2005, 47, 1971-1987.	2.1	29
118	Fast-ion transport in low density L-mode plasmas at TCV using FIDA spectroscopy and the TRANSP code. Plasma Physics and Controlled Fusion, 2017, 59, 115002.	2.1	29
119	The stability of the ideal internal kink mode in realistic tokamak geometry. Plasma Physics and Controlled Fusion, 2005, 47, 1743-1762.	2.1	28
120	Edge-localized mode control by electron cyclotron waves in a tokamak plasma. Nuclear Fusion, 2012, 52, 032004.	3.5	28
121	Indirect measurement of poloidal rotation using inboardâ€“outboard asymmetry of toroidal rotation and comparison with neoclassical predictions. Nuclear Fusion, 2013, 53, 023002.	3.5	28
122	Progress of the ECRH Upper Launcher design for ITER. Fusion Engineering and Design, 2014, 89, 1669-1673.	1.9	28
123	Profile control simulations and experiments on TCV: a controller test environment and results using a model-based predictive controller. Nuclear Fusion, 2017, 57, 126063.	3.5	28
124	Study of nonlinear mode coupling during neoclassical tearing modes using bispectrum analysis. Plasma Physics and Controlled Fusion, 2003, 45, 369-378.	2.1	27
125	First principles based simulations of instabilities and turbulence. Plasma Physics and Controlled Fusion, 2004, 46, B51-B62.	2.1	27
126	Linear stability analysis of microinstabilities in electron internal transport barrier non-inductive discharges. Plasma Physics and Controlled Fusion, 2006, 48, 215-233.	2.1	27

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127	A new set of analytical formulae for the computation of the bootstrap current and the neoclassical conductivity in tokamaks. Physics of Plasmas, 2021, 28, .	1.9	27
128	Ohmic H-modes in the TCV tokamak. Plasma Physics and Controlled Fusion, 1996, 38, 1137-1148.	2.1	26
129	Recent results from the electron cyclotron heated plasmas in Tokamak Ã Configuration Variable (TCV). Physics of Plasmas, 2003, 10, 1796-1802.	1.9	26
130	Sawtooth behaviour in highly elongated TCV plasmas. Plasma Physics and Controlled Fusion, 2006, 48, 1621-1632.	2.1	26
131	Bifurcated helical core equilibrium states in tokamaks. Nuclear Fusion, 2013, 53, 073021.	3.5	26
132	Numerical analysis of JET discharges with the European Transport Simulator. Nuclear Fusion, 2013, 53, 123007.	3.5	26
133	Application of ICRF waves in tokamaks beyond heating. Plasma Physics and Controlled Fusion, 2003, 45, A445-A456.	2.1	25
134	An overview of results from the TCV tokamak. Nuclear Fusion, 2003, 43, 1619-1631.	3.5	25
135	Neoclassical tearing modes on ASDEX Upgrade: improved scaling laws, high confinement at high ÂNand new stabilization experiments. Nuclear Fusion, 2003, 43, 161-167.	3.5	25
136	Experimental test of damping models fornÂ1 toroidal AlfvÂn eigenmodes in JET. Nuclear Fusion, 2003, 43, 479-482.	3.5	25
137	JET snake magnetohydrodynamic equilibria. Nuclear Fusion, 2011, 51, 072002.	3.5	25
138	Fast seeding of NTMs by sawtooth crashes in TCV and their preemption using ECRH. Nuclear Fusion, 2013, 53, 113026.	3.5	25
139	Progress Toward Interpretable Machine Learningâ€“Based Disruption Predictors Across Tokamaks. Fusion Science and Technology, 2020, 76, 912-924.	1.1	25
140	Analysis of ion cyclotron heating and current drive at $omega$$approx2omega$cH for sawtooth control in JET plasmas*. Plasma Physics and Controlled Fusion, 2002, 44, 1521-1542.	2.1	24
141	Gyrokinetic calculations of steady-state particle transport in electron internal transport barriers. Plasma Physics and Controlled Fusion, 2008, 50, 115005.	2.1	24
142	Tokamak coordinate conventions:. Computer Physics Communications, 2013, 184, 293-302.	7.5	24
143	Development of real-time plasma analysis and control algorithms for the TCV tokamak using Simulink. Fusion Engineering and Design, 2014, 89, 165-176.	1.9	24
144	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. Nuclear Fusion, 2017, 57, 102014.	3.5	23

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145	Nonlocal effects of alpha particles on ICRF heating. Nuclear Fusion, 1992, 32, 1455-1464.	3.5	22
146	Safety factor profile requirements for electron ITB formation in TCV. Plasma Physics and Controlled Fusion, 2005, 47, B107-B120.	2.1	22
147	A 3â€Ð Fokkerâ€Planck Code for Studying Parallel Transport in Tokamak Geometry with Arbitrary Collisionalities and Application to Neoclassical Resistivity. Contributions To Plasma Physics, 1994, 34, 169-174.	1.1	21
148	Nonlocal effects in negative triangularity TCV plasmas. Plasma Physics and Controlled Fusion, 2021, 63, 044001.	2.1	21
149	A brief history of negative triangularity tokamak plasmas. Reviews of Modern Plasma Physics, 2021, 5, 1.	4.1	21
150	Overview of ASDEX Upgrade results. Nuclear Fusion, 2003, 43, 1570-1582.	3.5	20
151	Control of electron internal transport barriers in TCV. Plasma Physics and Controlled Fusion, 2004, 46, A275-A284.	2.1	20
152	Snowflake divertor experiments on TCV. Plasma Physics and Controlled Fusion, 2010, 52, 124010.	2.1	20
153	Experimental demonstration of an up-down asymmetry effect on intrinsic rotation in the TCV tokamak. Plasma Physics and Controlled Fusion, 2010, 52, 124037.	2.1	20
154	Global and local gyrokinetic simulations of high-performance discharges in view of ITER. Nuclear Fusion, 2013, 53, 073003.	3.5	20
155	Simulation of profile evolution from ramp-up to ramp-down and optimization of tokamak plasma termination with the RAPTOR code. Plasma Physics and Controlled Fusion, 2017, 59, 124004.	2.1	20
156	Experimental validation of a Lyapunov-based controller for the plasma safety factor and plasma pressure in the TCV tokamak. Nuclear Fusion, 2018, 58, 056011.	3.5	20
157	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. Nuclear Fusion, 2018, 58, 026019.	3.5	20
158	Radial electric fields and global electrostatic microinstabilities in tokamaks and stellarators. Physics of Plasmas, 2002, 9, 2684-2691.	1.9	19
159	Studies of burning plasma physics in the Joint European Torus. Physics of Plasmas, 2004, 11, 2607-2615.	1.9	19
160	Distributed digital real-time control system for TCV tokamak. Fusion Engineering and Design, 2014, 89, 155-164.	1.9	19
161	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi></mml:math>-Point-Position-Dependent Intrinsic Toroidal Rotation in the Edge of the TCV Tokamak. Physical Review Letters, 2015, 114, 245001.	7.8	19
162	Effects of central electron cyclotron power on plasma rotation and on triggerless onset of NTMs in the TCV tokamak. Nuclear Fusion, 2015, 55, 093031.	3.5	19

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163	Pedestal structure and energy confinement studies on TCV. Plasma Physics and Controlled Fusion, 2019, 61, 014002.	2.1	19
164	First-Principles Density Limit Scaling in Tokamaks Based on Edge Turbulent Transport and Implications for ITER. Physical Review Letters, 2022, 128, 185003.	7.8	19
165	Low-n ideal MHD stability of tokamaks: Current and beta limits. Nuclear Fusion, 1989, 29, 629-639.	3.5	18
166	Stability and energy confinement of highly elongated plasmas in TCV. Plasma Physics and Controlled Fusion, 2001, 43, A161-A173.	2.1	18
167	Current profile tailoring using localized electron cyclotron heating in highly elongated TCV plasmas. Nuclear Fusion, 2007, 47, 586-598.	3.5	18
168	Non-linear magnetic perturbations during edge-localized modes in TCV dominated by lownmode components. Nuclear Fusion, 2013, 53, 113004.	3.5	18
169	First demonstration of real-time kinetic equilibrium reconstruction on TCV by coupling LIUQE and RAPTOR. Nuclear Fusion, 2020, 60, 066020.	3.5	18
170	Current and beta limitations for the TCV tokamak. Nuclear Fusion, 1988, 28, 1379-1383.	3.5	17
171	A nonlocal analysis of electrostatic waves in hot inhomogeneous bounded plasmas. Physics of Fluids B, 1990, 2, 475-487.	1.7	17
172	Kinetic modeling of scrapeâ€off layer plasmas. Physics of Plasmas, 1996, 3, 3644-3652.	1.9	17
173	Scaling of the marginal Âpof neoclassical tearing modes during power ramp-down experiments in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2003, 45, 1369-1384.	2.1	17
174	A semi-Lagrangian code for nonlinear global simulations of electrostatic drift-kinetic ITG modes. Computer Physics Communications, 2004, 163, 1-21.	7.5	17
175	Inward thermodiffusive particle pinch in electron internal transport barriers in TCV. Plasma Physics and Controlled Fusion, 2006, 48, 1271-1283.	2.1	17
176	Helical ITER hybrid scenario equilibria. Plasma Physics and Controlled Fusion, 2011, 53, 024002.	2.1	17
177	Power requirements for electron cyclotron current drive and ion cyclotron resonance heating for sawtooth control in ITER. Nuclear Fusion, 2013, 53, 066001.	3.5	17
178	High-bootstrap, noninductively sustained electron internal transport barriers in the Tokamak Ã Configuration Variable. Physics of Plasmas, 2005, 12, 056124.	1.9	16
179	Upgrade of the TCV tokamak, first phase: Neutral beam heating system. Fusion Engineering and Design, 2015, 96-97, 493-497.	1.9	16
180	Nearing final design of the ITER EC H&CD Upper Launcher. Fusion Engineering and Design, 2019, 146, 23-26.	1.9	16

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181	Computing of RF heating and current drive in Tokamaks. Computer Physics Communications, 1986, 43, 125-141.	7.5	15
182	Effect of plasma shape on confinement and MHD behaviour in TCV. Plasma Physics and Controlled Fusion, 1997, 39, B135-B144.	2.1	15
183	`Profile consistency' features in shaped sawtoothing ohmic TCV plasmas. Plasma Physics and Controlled Fusion, 1998, 40, 1803-1818.	2.1	15
184	Real-time feedback control of millimeter-wave polarization for LHD. Review of Scientific Instruments, 2009, 80, 013504.	1.3	15
185	Conceptual design of the ECH upper launcher system for ITER. Fusion Engineering and Design, 2009, 84, 284-289.	1.9	15
186	On the effects of the equilibrium model in gyrokinetic simulations: from s-Î±to diverted MHD equilibrium. Journal of Physics: Conference Series, 2010, 260, 012006.	0.4	15
187	Edge Stability and Pedestal Profile Sensitivity of Snowflake Diverted Equilibria in the TCV Tokamak. Contributions To Plasma Physics, 2010, 50, 324-330.	1.1	15
188	A scoping study of the application of neutral beam heating on the TCV tokamak. Fusion Engineering and Design, 2011, 86, 868-871.	1.9	15
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