D P Coster

List of Publications by Year in descending order

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324 papers	7,683 citations	61984 43 h-index	91884 69 g-index
327 all docs	327 docs citations	327 times ranked	2593 citing authors

#	Article	IF	Citations
1	Plasma Edge Physics with B2-Eirene. Contributions To Plasma Physics, 2006, 46, 3-191.	1.1	455
2	Presentation of the New SOLPS-ITER Code Package for Tokamak Plasma Edge Modelling. Plasma and Fusion Research, 2016, 11, 1403102-1403102.	0.7	194
3	Simulation of tokamak edge plasma including self-consistent electric fields. Nuclear Fusion, 2001, 41, 387-401.	3.5	177
4	Plasmaâ€“surface interaction, scrape-off layer and divertor physics: implications for ITER. Nuclear Fusion, 2007, 47, 1189-1205.	3.5	156
5	Observation of Continuous Divertor Detachment inH-Mode Discharges in ASDEX Upgrade. Physical Review Letters, 1995, 74, 4217-4220.	7.8	152
6	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
7	Assessment of erosion and tritium codeposition in ITER-FEAT. Journal of Nuclear Materials, 2001, 290-293, 260-265.	2.7	117
8	Scaling laws for edge plasma parameters in ITER from two-dimensional edge modelling. Nuclear Fusion, 2003, 43, 716-723.	3.5	116
9	New B2SOLPS5.2 transport code for H-mode regimes in tokamaks. Nuclear Fusion, 2009, 49, 025007.	3.5	112
10	Plasma wall interaction and its implication in an all tungsten divertor tokamak. Plasma Physics and Controlled Fusion, 2007, 49, B59-B70.	2.1	110
11	Steady state advanced scenarios at ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2002, 44, B69-B83.	2.1	108
12	Material erosion and migration in tokamaks. Plasma Physics and Controlled Fusion, 2005, 47, B303-B322.	2.1	105
13	Edge and divertor physics with reversed toroidal field in JET. Journal of Nuclear Materials, 2005, 337-339, 146-153.	2.7	96
14	SOLPS modelling of ASDEX upgrade H-mode plasma. Plasma Physics and Controlled Fusion, 2006, 48, 839-868.	2.1	92
15	Numerical modelling of high density JET divertor plasma with the SOLPS4.2 (B2-EIRENE) code. Plasma Physics and Controlled Fusion, 2008, 50, 105012.	2.1	84
16	The tungsten divertor experiment at ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1996, 38, A165-A179.	2.1	82
17	Effect of neutral transport on ITER divertor performance. Nuclear Fusion, 2005, 45, 608-616.	3.5	81
18	The compatibility of high confinement times and complete divertor detachment in ASDEX-Upgrade. Plasma Physics and Controlled Fusion, 1995, 37, A37-A51.	2.1	80

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19	Hydrogen molecules in the divertor of ASDEX Upgrade. Journal of Nuclear Materials, 2001, 290-293, 367-373.	2.7	76
20	Time dependent neutral gas transport in tokamak edge plasmas. Journal of Nuclear Materials, 1995, 220-222, 987-992.	2.7	72
21	Disruption studies in ASDEX Upgrade in view of ITER. Plasma Physics and Controlled Fusion, 2009, 51, 124056.	2.1	71
22	Experimental studies and modeling of complete H-mode divertor detachment in ASDEX Upgrade. Journal of Nuclear Materials, 2015, 463, 128-134.	2.7	71
23	On mechanisms of impurity leakage and retention in the tokamak divertor. Plasma Physics and Controlled Fusion, 2019, 61, 045013.	2.1	67
24	The DEMO wall load challenge. Nuclear Fusion, 2017, 57, 046002.	3.5	65
25	Monte Carlo simulations of tungsten redeposition at the divertor target. Plasma Physics and Controlled Fusion, 2014, 56, 025003.	2.1	62
26	GRILLIX: a 3D turbulence code based on the flux-coordinate independent approach. Plasma Physics and Controlled Fusion, 2018, 60, 035005.	2.1	62
27	Basic divertor operation in ITER-FEAT. Nuclear Fusion, 2002, 42, 187-191.	3.5	59
28	SOLPS-ITER modelling of ITER edge plasma with drifts and currents. Nuclear Fusion, 2020, 60, 046019.	3.5	59
29	Modification of the edge transport barrier by resonant magnetic perturbations. Nuclear Fusion, 2010, 50, 034005.	3.5	57
30	Interaction of charge exchange neutrals with the main chamber walls of plasma machines. Nuclear Fusion, 1998, 38, 1789-1803.	3.5	55
31	Characterization of the H-mode edge barrier at ASDEX Upgrade. Nuclear Fusion, 2005, 45, 856-862.	3.5	55
32	Contribution of drifts and parallel currents to divertor asymmetries. Nuclear Fusion, 2012, 52, 103017.	3.5	53
33	Divertor geometry effects on detachment in TCV. Journal of Nuclear Materials, 2001, 290-293, 940-946.	2.7	50
34	Transport into and across the scrape-off layer in the ASDEX Upgrade divertor tokamak. Plasma Physics and Controlled Fusion, 2002, 44, 855-869.	2.1	50
35	Current understanding of divertor detachment: Experiments and modelling. Journal of Nuclear Materials, 2009, 390-391, 250-254.	2.7	50
36	Integrated modelling of ITER reference scenarios. Nuclear Fusion, 2009, 49, 075030.	3.5	50

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37	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
38	Effect of conditions for gas recirculation on divertor operation in ITER. Nuclear Fusion, 2007, 47, 698-705.	3.5	49
39	B2-solps5.0: SOL transport code with drifts and currents. Contributions To Plasma Physics, 2000, 40, 328-333.	1.1	48
40	Overview of ASDEX Upgrade results. Nuclear Fusion, 1999, 39, 1321-1336.	3.5	47
41	On Kinetic Effects during Parallel Transport in the SOL. Contributions To Plasma Physics, 2008, 48, 89-93.	1.1	46
42	A generic data structure for integrated modelling of tokamak physics and subsystems. Computer Physics Communications, 2010, 181, 987-998.	7.5	46
43	The European Integrated Tokamak Modelling (ITM) effort: achievements and first physics results. Nuclear Fusion, 2014, 54, 043018.	3.5	45
44	Assessment of edge modeling in support of ITER. Journal of Nuclear Materials, 2011, 415, S523-S529.	2.7	44
45	Role of divertor geometry on detachment in ASDEX Upgrade. Journal of Nuclear Materials, 1999, 266-269, 175-181.	2.7	43
46	Simulation of the Edge Plasma in Tokamaks. Physica Scripta, 2004, , 7.	2.5	42
47	Assessment of alternative divertor configurations as an exhaust solution for DEMO. Nuclear Fusion, 2020, 60, 066030.	3.5	41
48	Modelling of electric fields in tokamak edge plasma and L-H transition. Nuclear Fusion, 2002, 42, 1110-1115.	3.5	40
49	Edge impurity dynamics during an edge-localized mode cycle on DIII-D. Physics of Plasmas, 2005, 12, 056120.	1.9	40
50	Scrape-off layer radiation and heat load to the ASDEX Upgrade LYRA divertor. Nuclear Fusion, 1999, 39, 901-917.	3.5	39
51	Closed divertor operation in ASDEX Upgrade and JET. Plasma Physics and Controlled Fusion, 1999, 41, B177-B189.	2.1	39
52	Benchmarking Tokamak edge modelling codes. Journal of Nuclear Materials, 2005, 337-339, 366-370.	2.7	39
53	A possible role of radial electric field in driving parallel ion flow in scrape-off layer of divertor tokamaks. Nuclear Fusion, 2007, 47, 762-772.	3.5	39
54	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38

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55	Discrepancy between modelled and measured radial electric fields in the scrape-off layer of divertor tokamaks: a challenge for 2D fluid codes?. Nuclear Fusion, 2007, 47, 479-489.	3.5	38
56	Electric fields and currents in the detached regime of a tokamak. Contributions To Plasma Physics, 2018, 58, 540-546.	1.1	38
57	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
58	The European Transport Solver. IEEE Transactions on Plasma Science, 2010, 38, 2085-2092.	1.3	36
59	Overview of ASDEX Upgrade results. Nuclear Fusion, 2013, 53, 104003.	3.5	36
60	Global turbulence simulations of the tokamak edge region with GRILLIX. Physics of Plasmas, 2019, 26, .	1.9	36
61	Overview of ASDEX Upgrade results. Nuclear Fusion, 2001, 41, 1369-1389.	3.5	34
62	First EMC3-Eirene simulations of the TCV snowflake divertor. Plasma Physics and Controlled Fusion, 2014, 56, 035009.	2.1	34
63	Dependence on plasma shape and plasma fueling for small edge-localized mode regimes in TCV and ASDEX Upgrade. Nuclear Fusion, 2019, 59, 086020.	3.5	34
64	Recent results from divertor operation in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1994, 36, B79-B92.	2.1	33
65	ITER divertor performance in conditions of carbon re-erosion. Journal of Nuclear Materials, 2005, 337-339, 50-54.	2.7	33
66	Effect of the dome on divertor performance in ITER. Journal of Nuclear Materials, 2007, 363-365, 308-313.	2.7	33
67	Using SOLPS to confirm the importance of total flux expansion in Super-X divertors. Plasma Physics and Controlled Fusion, 2017, 59, 065011.	2.1	33
68	Noble gas exhaust with a strongly baffled divertor in ASDEX-Upgrade. Journal of Nuclear Materials, 1999, 266-269, 462-466.	2.7	31
69	Detachment physics in SOLPS simulations. Journal of Nuclear Materials, 2011, 415, S545-S548.	2.7	31
70	Performance of distributed multiscale simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130407.	3.4	31
71	The field line map approach for simulations of magnetically confined plasmas. Computer Physics Communications, 2016, 198, 139-153.	7.5	31
72	Particle exhaust studies in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1997, 39, 1771-1792.	2.1	30

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73	High Mach flow associated with X point MARFE and plasma detachment. Nuclear Fusion, 2000, 40, 2009-2021.	3.5	30
74	Impact of a pulsed supersonic deuterium gas jet on the ELM behaviour in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2005, 47, 1495-1516.	2.1	30
75	Analysis of cold divertor concepts for ITER. Journal of Nuclear Materials, 1995, 220-222, 1076-1080.	2.7	29
76	B2-Eirene modelling of ASDEX Upgrade. Journal of Nuclear Materials, 1997, 241-243, 690-695.	2.7	29
77	Critical issues in divertor optimisation for ITERâ€“FEAT. Journal of Nuclear Materials, 2001, 290-293, 887-891.	2.7	29
78	Potentials and currents in the edge tokamak plasma: simplified approach and comparison with two-dimensional modelling. Nuclear Fusion, 2003, 43, 614-621.	3.5	29
79	EDGE2D code simulations of SOL flows and inâ€“out divertor asymmetries in JET. Journal of Nuclear Materials, 2005, 337-339, 271-275.	2.7	29
80	Code development for ITER edge modelling â€“ SOLPS5.1. Journal of Nuclear Materials, 2009, 390-391, 274-277.	2.7	29
81	Full-tungsten plasma edge simulations with SOLPS. Journal of Nuclear Materials, 2011, 415, S488-S491.	2.7	29
82	Overview of ASDEX Upgrade resultsâ€”development of integrated operating scenarios for ITER. Nuclear Fusion, 2005, 45, S98-S108.	3.5	28
83	Perpendicular Conductivity and Self-Consistent Electric Fields in Tokamak Edge Plasma. Contributions To Plasma Physics, 2000, 40, 423-430.	1.1	27
84	Overview of ASDEX Upgrade results. Nuclear Fusion, 2011, 51, 094012.	3.5	27
85	3D simulations of gas puff effects on edge density and ICRF coupling in ASDEX Upgrade. Nuclear Fusion, 2016, 56, 036007.	3.5	27
86	Assessment of SOLPS5.0 divertor solutions with drifts and currents against L-mode experiments in ASDEX Upgrade and JET. Plasma Physics and Controlled Fusion, 2017, 59, 035003.	2.1	27
87	Comparing N versus Ne as divertor radiators in ASDEX-upgrade and ITER. Nuclear Materials and Energy, 2019, 19, 72-78.	1.3	27
88	Numerical analysis of JET discharges with the European Transport Simulator. Nuclear Fusion, 2013, 53, 123007.	3.5	26
89	Integrated simulations of H-mode operation in ITER including core fuelling, divertor detachment and ELM control. Nuclear Fusion, 2018, 58, 056020.	3.5	26
90	Study of recombining gas targets. Journal of Nuclear Materials, 1997, 241-243, 250-254.	2.7	25

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91	Impurity seeding and scaling of edge parameters in ITER. Journal of Nuclear Materials, 2009, 390-391, 259-262.	2.7	25
92	Electric field and turbulence in global Braginskii simulations across the ASDEX Upgrade edge and scrape-off layer. Plasma Physics and Controlled Fusion, 2021, 63, 034001.	2.1	25
93	Particle exhaust in radiative divertor experiments. Journal of Nuclear Materials, 1997, 241-243, 82-91.	2.7	24
94	A Comparison of Neutral Gas Models for Divertor Plasmas. Contributions To Plasma Physics, 1998, 38, 325-330.	1.1	24
95	ASDEX-Upgrade edge transport scalings from the two-dimensional interpretative code B2.5-I. Journal of Nuclear Materials, 2001, 290-293, 644-647.	2.7	24
96	First experimental determination of ion flow velocities and temperatures in the ASDEX Upgrade divertor. Plasma Physics and Controlled Fusion, 1997, 39, 1981-1995.	2.1	23
97	Comparison of 2D models for the plasma edge with experimental measurements and assessment of deficiencies. Journal of Nuclear Materials, 2009, 390-391, 319-324.	2.7	23
98	Outer divertor of ASDEX Upgrade in low-density L-mode discharges in forward and reversed magnetic field: I. Comparison between measured plasma conditions and SOLPS5.0 code calculations. Nuclear Fusion, 2012, 52, 103006.	3.5	23
99	MARCONI-FUSION: The new high performance computing facility for European nuclear fusion modelling. Fusion Engineering and Design, 2018, 129, 354-358.	1.9	23
100	SOLPS-ITER modeling of divertor scenarios for EU-DEMO. Nuclear Fusion, 2021, 61, 106013.	3.5	23
101	Divertor geometry optimization for ASDEX Upgrade. Journal of Nuclear Materials, 1997, 241-243, 701-706.	2.7	22
102	Poloidal distribution of recycling sources and core plasma fueling in DIII-D, ASDEX-Upgrade and JET L-mode plasmas. Plasma Physics and Controlled Fusion, 2011, 53, 124017.	2.1	22
103	The interplay of controlling the power exhaust and the tungsten content in ITER. Nuclear Materials and Energy, 2017, 12, 28-35.	1.3	22
104	The role of neutral gas in validated global edge turbulence simulations. Nuclear Fusion, 2021, 61, 116015.	3.5	22
105	2D modelling of radiating divertor regime for ITER. Journal of Nuclear Materials, 1997, 241-243, 268-272.	2.7	21
106	Radiation distribution and power balance in the ASDEX Upgrade LYRA divertor. Journal of Nuclear Materials, 2001, 290-293, 525-529.	2.7	21
107	Modelling of the edge plasma of MAST in the presence of resonant magnetic perturbations. Nuclear Fusion, 2011, 51, 083009.	3.5	21
108	Implementation into B2 of a 21-moment description for the parallel transport. Contributions To Plasma Physics, 1996, 36, 192-196.	1.1	20

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109	2D Modelling of the Edge Plasma in ITER. Contributions To Plasma Physics, 1998, 38, 20-25.	1.1	20
110	Transport of hydrocarbon molecules in the edge plasma of fusion experiments. Journal of Nuclear Materials, 1999, 266-269, 360-364.	2.7	20
111	Comparing scrape-off layer and divertor physics in JET pure He and D discharges. Journal of Nuclear Materials, 2003, 313-316, 777-786.	2.7	20
112	Overview of ASDEX Upgrade results. Nuclear Fusion, 2003, 43, 1570-1582.	3.5	20
113	Impact of a new general form of friction and thermal forces on SOLPSâ€ITER modelling results. Contributions To Plasma Physics, 2018, 58, 622-628.	1.1	20
114	Speed-up of SOLPS-ITER code for tokamak edge modeling. Nuclear Fusion, 2018, 58, 126018.	3.5	20
115	Patterns for High Performance Multiscale Computing. Future Generation Computer Systems, 2019, 91, 335-346.	7.5	20
116	Multi-machine SOLPS-ITER comparison of impurity seeded H-mode radiative divertor regimes with metal walls. Nuclear Fusion, 2021, 61, 126073.	3.5	20
117	Energy transport to the divertor plates of ASDEX-Upgrade during ELMy H-mode phases. Journal of Nuclear Materials, 1995, 220-222, 543-547.	2.7	19
118	Operating window for high divertor radiation in ITER. Journal of Nuclear Materials, 1999, 266-269, 1172-1179.	2.7	19
119	Spectroscopic investigation of the dynamics of ions and neutrals in the ASDEX Upgrade Divertor II. Journal of Nuclear Materials, 1999, 266-269, 365-369.	2.7	19
120	Effect of the tokamak size in edge transport modelling and implications for DEMO. Journal of Nuclear Materials, 2007, 363-365, 400-406.	2.7	19
121	Preliminary analysis of alternative divertors for DEMO. Nuclear Materials and Energy, 2021, 26, 100908.	1.3	19
122	Optical emission measurements of H2 and D2 molecules in the divertor region of ASDEX Upgrade. Journal of Nuclear Materials, 1999, 266-269, 490-494.	2.7	18
123	Radial electric field in the biasing experiments and effective conductivity in a tokamak. Physics of Plasmas, 2002, 9, 3385-3394.	1.9	18
124	Simulation of ASDEX Upgrade Ohmic plasmas for SOLPS code validation. Nuclear Fusion, 2009, 49, 015004.	3.5	18
125	B2.5-Eunomia simulations of Pilot-PSI plasmas. Journal of Nuclear Materials, 2013, 438, S643-S646.	2.7	18
126	Modelling of mitigation of the power divertor loading for the EU DEMO through Ar injection. Plasma Physics and Controlled Fusion, 2018, 60, 035013.	2.1	18

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127	Multiscale computing for science and engineering in the era of exascale performance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180144.	3.4	18
128	Impurity transport and divertor retention in Ar and N seeded SOLPS 5.0 simulations for ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2020, 62, 085013.	2.1	18
129	Divertor tokamak operation at high densities on ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1997, 39, B19-B38.	2.1	17
130	Carbon chemical erosion in H-mode discharges in ASDEX Upgrade divertor IIb: flux dependence and local redeposition. Journal of Nuclear Materials, 2005, 337-339, 985-989.	2.7	17
131	Experimental observations and modelling of carbon transport in the inner divertor of JET. Journal of Nuclear Materials, 2005, 337-339, 17-24.	2.7	17
132	Development and Benchmarking of a New Kinetic Code for Plasma Periphery (KIPP). Contributions To Plasma Physics, 2012, 52, 500-504.	1.1	17
133	L-mode radiative plasma edge studies for model validation in ASDEX Upgrade and JET. Journal of Nuclear Materials, 2013, 438, S321-S325.	2.7	17
134	Modeling of the edge plasma of MAST Upgrade with a Super-X divertor including drifts and an edge transport barrier. Plasma Physics and Controlled Fusion, 2013, 55, 035005.	2.1	17
135	Experimental investigation and SOLPS-ITER modeling of Ne-seeded radiative divertor H-modes plasma on EAST. Physics of Plasmas, 2019, 26, .	1.9	17
136	Theory and Modelling of Time Dependent Phenomena in the Plasma Edge. Contributions To Plasma Physics, 1996, 36, 150-160.	1.1	16
137	Recent ASDEX Upgrade research in support of ITER and DEMO. Nuclear Fusion, 2015, 55, 104010.	3.5	16
138	SOLPS simulations of detachment in a snowflake configuration for the future upper divertor in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2018, 60, 085005.	2.1	16
139	Scrape-off layer density tailoring with local gas puffing to maximize ICRF power coupling in ITER. Nuclear Materials and Energy, 2019, 19, 364-371.	1.3	16
140	Comparison of B2-EIRENE calculations with multi-machine experimental measurements. Journal of Nuclear Materials, 1999, 266-269, 1123-1128.	2.7	15
141	Particle recirculation studies in JET. Plasma Physics and Controlled Fusion, 2002, 44, 701-715.	2.1	15
142	Tomographic reconstruction of 2D line radiation distribution in the JET MkIIGB divertor. Journal of Nuclear Materials, 2003, 313-316, 925-930.	2.7	15
143	Impact of drifts on the distribution of impurities in the Tokamak plasma edge. Journal of Nuclear Materials, 2003, 313-316, 1141-1149.	2.7	15
144	Modelling of radial electric field profile for different divertor configurations. Plasma Physics and Controlled Fusion, 2006, 48, 1425-1435.	2.1	15

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145	High recycling outer divertor regimes after type-I ELMs at high density in ASDEX Upgrade. Journal of Nuclear Materials, 2007, 363-365, 448-452.	2.7	15
146	Simulating the Role of Intrinsic Carbon Impurities in the Divertor Detachment of ASDEX Upgrade. Contributions To Plasma Physics, 2008, 48, 249-254.	1.1	15
147	Investigation of local carbon transport in the ASDEX Upgrade divertor using 13CH4 puffing. Journal of Nuclear Materials, 2009, 390-391, 68-71.	2.7	15
148	3D modeling of the ASDEX Upgrade edge plasma exposed to a localized tungsten source by means of EMC3-Eirene. Journal of Nuclear Materials, 2011, 415, S505-S508.	2.7	15
149	Advanced spatial discretizations in the B2.5 plasma fluid code. Journal of Nuclear Materials, 2013, 438, S856-S860.	2.7	15
150	Benchmarking of a 1D scrape-off layer code SOLF1D with SOLPS and its use in modelling long-legged divertors. Plasma Physics and Controlled Fusion, 2013, 55, 065004.	2.1	15
151	SOLPS-ITER modeling with activated drifts for a snowflake divertor in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2020, 62, 045005.	2.1	15
152	VECMAtk: a scalable verification, validation and uncertainty quantification toolkit for scientific simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200221.	3.4	15
153	Progress from ASDEX Upgrade experiments in preparing the physics basis of ITER operation and DEMO scenario development. Nuclear Fusion, 2022, 62, 042006.	3.5	15
154	The influence of molecular dynamics on divertor detachment in TCV. Contributions To Plasma Physics, 2004, 44, 268-273.	1.1	14
155	Fluid code simulations of radial electric field in the scrape-off layer of JET. Plasma Physics and Controlled Fusion, 2009, 51, 065022.	2.1	14
156	Numerical studies of effects associated with the Super-X divertor on target parameters in MAST-U. Journal of Nuclear Materials, 2013, 438, S545-S549.	2.7	14
157	On the locality of parallel transport of heat carrying electrons in the SOL. Journal of Nuclear Materials, 2015, 463, 498-501.	2.7	14
158	Reduced Physics Models in SOLPS for Reactor Scoping Studies. Contributions To Plasma Physics, 2016, 56, 790-795.	1.1	14
159	3D simulations of gas puff effects on edge plasma and ICRF coupling in JET. Nuclear Fusion, 2017, 57, 056042.	3.5	14
160	Radio frequency heating induced edge plasma convection: self-consistent simulations and experiments on ASDEX Upgrade. Nuclear Fusion, 2017, 57, 116048.	3.5	14
161	Helium transport and exhaust with an ITER-like divertor in ASDEX Upgrade. Journal of Nuclear Materials, 2001, 290-293, 836-839.	2.7	13
162	Divertor detachment during pure helium plasmas in JET. Journal of Nuclear Materials, 2003, 313-316, 980-985.	2.7	13

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163	Neoclassical nature of the radial electric field at the low-to-high confinement transition. Physics of Plasmas, 2003, 10, 2604-2607.	1.9	13
164	Whole device ELM simulations. Journal of Nuclear Materials, 2009, 390-391, 826-829.	2.7	13
165	Modelling of the ICRF inducedEâ€‰â€‰Ã—â€‰â€‰Bconvection in the scrape-off-layer of ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2016, 58, 095005.	2.1	13
166	On the nature of blob propagation and generation in the large plasma device: Global GRILLIX studies. Physics of Plasmas, 2019, 26, .	1.9	13
167	Approaching the radiating X-point in SOLPS-ITER modeling of ASDEX Upgrade H-mode discharges. Plasma Physics and Controlled Fusion, 2021, 63, 055011.	2.1	13
168	Particle balance in a TFTR supershot. Journal of Nuclear Materials, 1992, 196-198, 462-465.	2.7	12
169	Characterization of electrostatic turbulent fluxes in tokamak edge plasmas. Physics of Plasmas, 2004, 11, 115-124.	1.9	12
170	Modelling and consequences of drift effects in the edge plasma of Alcator C-Mod. Journal of Nuclear Materials, 2005, 337-339, 301-304.	2.7	12
171	Modeling of the parametric dependence of the edge toroidal rotation for MAST and ASDEX Upgrade. Journal of Nuclear Materials, 2007, 363-365, 664-668.	2.7	12
172	Effect of EÃ—B driven transport on the deposition of carbon in the outer divertor of ASDEX Upgrade. Journal of Nuclear Materials, 2011, 415, S231-S234.	2.7	12
173	Effects of background plasma characteristics on tungsten impurity transport in the SOL/divertor region using IMPGYRO code. Journal of Nuclear Materials, 2015, 463, 615-619.	2.7	12
174	Effects of outer top gas injection on ICRF coupling in ASDEX Upgrade: towards modelling of ITER gas injection. Plasma Physics and Controlled Fusion, 2017, 59, 075004.	2.1	12
175	ComPat framework for multiscale simulations applied to fusion plasmas. Computer Physics Communications, 2019, 239, 126-133.	7.5	12
176	B2-Eirene modelling of the density limit on ASDEX-Upgrade. Journal of Nuclear Materials, 1999, 266-269, 804-808.	2.7	11
177	Automatic Evaluation of Edge Transport Coefficients with B2-SOLPS5.0. Contributions To Plasma Physics, 2000, 40, 334-339.	1.1	11
178	In-out asymmetry of divertor temperatures in tokamaks. Nuclear Fusion, 2001, 41, 1695-1701.	3.5	11
179	Extensions to the SOLPS edge plasma simulation code to include additional surface interaction posibilities. Physica Scripta, 2006, T124, 9-12.	2.5	11
180	SOLPS5 modelling of the type III ELMing H-mode on TCV. Journal of Nuclear Materials, 2007, 363-365, 1037-1043.	2.7	11

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181	Benchmarking Kinetic and Fluid Neutral Models with Drift Effects. Contributions To Plasma Physics, 2008, 48, 136-140.	1.1	11
182	Overview of ASDEX Upgrade results. Nuclear Fusion, 2009, 49, 104009.	3.5	11
183	Comparison of kinetic and fluid neutral models for attached and detached state. Journal of Nuclear Materials, 2009, 390-391, 295-298.	2.7	11
184	A detailed comparison of antenna impedance measurements on ASDEX Upgrade with the ion cyclotron range of frequencies antenna code TOPICA. Nuclear Fusion, 2015, 55, 113003.	3.5	11
185	SOLPS modelling of W arising from repetitive mitigated ELMs in ITER. Journal of Nuclear Materials, 2015, 463, 620-623.	2.7	11
186	Kinetic simulations of electron heat flux in the scrape-off layer. Nuclear Materials and Energy, 2017, 12, 819-824.	1.3	11
187	An iterative algorithm of coupling the Kinetic Code for Plasma Periphery (KIPP) with SOLPS. Computer Physics Communications, 2019, 235, 133-152.	7.5	11
188	Equations and improved coefficients for parallel transport in multicomponent collisional plasmas: Method and application for tokamak modeling. Physics of Plasmas, 2021, 28, 062308.	1.9	11
189	The influence of neutral friction and neoclassical viscosity in the edge of ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1998, 40, 703-706.	2.1	10
190	New results on carbon release and transport in ASDEX-Upgrade. Journal of Nuclear Materials, 1999, 266-269, 343-347.	2.7	10
191	Tokamak edge model validation and improvement. Plasma Physics and Controlled Fusion, 2002, 44, 979-984.	2.1	10
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