D P Coster

List of Publications by Year
in descending order

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	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
2	Detached regime with highly radiating Xâ€point: Physics and modelling. Contributions To Plasma Physics, 2022, 62, .	1.1	8
3	Predictions of radiation pattern and inâ€"out asymmetries in the DEMO scrape-off layer using fluid neutrals. Nuclear Fusion, 2022, 62, 056015.	3.5	4
4	<scp>SOLPSâ€ITER EUâ€DEMO</scp> modelling with drifts and kinetic neutrals. Contributions To Plasma Physics, 2022, 62, .	1.1	4
5	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
6	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
7	Towards validated multiscale simulations for fusion. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200074.	3.4	5
8	Scoping the characteristics and benefits of a connected double-null configuration for power exhaust in EU-DEMO. Nuclear Materials and Energy, 2021, 26, 100886.	1.3	6
9	Preliminary analysis of alternative divertors for DEMO. Nuclear Materials and Energy, 2021, 26, 100908.	1.3	19
10	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
11	The operational space for divertor power exhaust in DEMO with a super-X divertor. Nuclear Fusion, 2021, 61, 076007.	3.5	7
12	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
13	Features of radial electric field in impurity-seeded, detached plasma in a tokamak. Physics of Plasmas, 2021, 28, 062507.	1.9	5
14	Tutorial applications for Verification, Validation and Uncertainty Quantification using VECMA toolkit. Journal of Computational Science, 2021, 53, 101402.	2.9	4
15	The role of neutral gas in validated global edge turbulence simulations. Nuclear Fusion, 2021, 61, 116015.	3.5	22
16	SOLPS-ITER modeling of divertor scenarios for EU-DEMO. Nuclear Fusion, 2021, 61, 106013.	3.5	23
17	Current structure in the scrape-off layer of a tokamak in a quiescent state. Plasma Physics and Controlled Fusion, 2021, 63, 015012.	2.1	8
18	Towards Making Fusion Data FAIR. , 2021, , .		5

#	Article	IF	Citations
19	Building a turbulence-transport workflow incorporating uncertainty quantification for predicting core profiles in a tokamak plasma. Nuclear Fusion, 2021, 61, 126068.	3.5	2
20	Multi-machine SOLPS-ITER comparison of impurity seeded H-mode radiative divertor regimes with metal walls. Nuclear Fusion, 2021, 61, 126073.	3.5	20
21	Currents structure in the scrape-off layer of a tokamak. Nuclear Materials and Energy, 2020, 25, 100840.	1.3	3
22	Derivation of the friction and thermal force for SOLPS-ITER multicomponent plasma modeling. Physics of Plasmas, 2020, 27, .	1.9	8
23	Assessment of alternative divertor configurations as an exhaust solution for DEMO. Nuclear Fusion, 2020, 60, 066030.	3.5	41
24	Collisional gyrokinetic full–f particle–in–cell simulations on open field lines with PICLS. Contributions To Plasma Physics, 2020, 60, e201900117.	1.1	4
25	Treatment of advanced divertor configurations in the flux–coordinate independent turbulence code GRILLIX. Contributions To Plasma Physics, 2020, 60, e201900139.	1.1	5
26	SOLPS-ITER modeling with activated drifts for a snowflake divertor in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2020, 62, 045005.	2.1	15
27	SOLPS-ITER modelling of ITER edge plasma with drifts and currents. Nuclear Fusion, 2020, 60, 046019.	3.5	59
28	Thermal dynamics in the flux–coordinate independent turbulence code GRILLIX. Contributions To Plasma Physics, 2020, 60, e201900131.	1.1	7
29	Impact of drifts in the ASDEX upgrade upper open divertor using SOLPS–ITER. Contributions To Plasma Physics, 2020, 60, e201900166.	1.1	5
30	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
31	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
32	Experimental investigation and SOLPS-ITER modeling of Ne-seeded radiative divertor H-modes plasma on EAST. Physics of Plasmas, 2019, 26, .	1.9	17
33	Implementation of an inelastic collision operator into KIPP–SOLPS coupling and its effects on electron parallel transport in the scrape–off layer plasmas. Contributions To Plasma Physics, 2019, 59, e201800130.	1.1	4
34	On the nature of blob propagation and generation in the large plasma device: Global GRILLIX studies. Physics of Plasmas, 2019, 26, .	1.9	13
35	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
36	Global turbulence simulations of the tokamak edge region with GRILLIX. Physics of Plasmas, 2019, 26, .	1.9	36

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37	Assessment of particle and heat loads to the upper open divertor in ASDEX Upgrade in favourable and unfavourable toroidal magnetic field directions. Nuclear Materials and Energy, 2019, 19, 531-536.	1.3	4
38	Application of the extreme scaling computing pattern on multiscale fusion plasma modelling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180152.	3.4	5
39	On mechanisms of impurity leakage and retention in the tokamak divertor. Plasma Physics and Controlled Fusion, 2019, 61, 045013.	2.1	67
40	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
41	Runaway electron modelling in the self-consistent core European Transport Simulator. Nuclear Fusion, 2019, 59, 076024.	3.5	4
42	Comparing N versus Ne as divertor radiators in ASDEX-upgrade and ITER. Nuclear Materials and Energy, 2019, 19, 72-78.	1.3	27
43	SOLPS 5.0 simulations of the high-field side divertor detachment of L-mode plasmas in ASDEX upgrade with convection-dominated radial SOL transport. Nuclear Materials and Energy, 2019, 19, 279-286.	1.3	2
44	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
45	ComPat framework for multiscale simulations applied to fusion plasmas. Computer Physics Communications, 2019, 239, 126-133.	7.5	12
46	Gyrokinetic full-f particle-in-cell simulations on open field lines with PICLS. Physics of Plasmas, 2019, 26, 122302.	1.9	10
47	SOLPS simulations with electron kinetic effects. Plasma Physics and Controlled Fusion, 2019, 61, 025019.	2.1	6
48	An iterative algorithm of coupling the Kinetic Code for Plasma Periphery (KIPP) with SOLPS. Computer Physics Communications, 2019, 235, 133-152.	7.5	11
49	Application of the parareal algorithm to simulations of ELMs in ITER plasma. Computer Physics Communications, 2019, 235, 246-257.	7.5	8
50	Patterns for High Performance Multiscale Computing. Future Generation Computer Systems, 2019, 91, 335-346.	7.5	20
51	Recent EUROfusion Achievements in Support of Computationally Demanding Multiscale Fusion Physics Simulations and Integrated Modeling. Fusion Science and Technology, 2018, 74, 186-197.	1.1	1
52	GRILLIX: a 3D turbulence code based on the flux-coordinate independent approach. Plasma Physics and Controlled Fusion, 2018, 60, 035005.	2.1	62
53	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
54	Impact of a new general form of friction and thermal forces on SOLPS–ITER modelling results. Contributions To Plasma Physics, 2018, 58, 622-628.	1.1	20

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55	Integrated simulations of H-mode operation in ITER including core fuelling, divertor detachment and ELM control. Nuclear Fusion, 2018, 58, 056020.	3.5	26
56	MARCONI-FUSION: The new high performance computing facility for European nuclear fusion modelling. Fusion Engineering and Design, 2018, 129, 354-358.	1.9	23
57	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
58	Effect of the Boussinesq approximation: Turbulence studies with GRILLIX in slab geometry. Contributions To Plasma Physics, 2018, 58, 478-483.	1.1	4
59	Characterization of oscillations observed in reduced physics SOLPS simulations. Contributions To Plasma Physics, 2018, 58, 666-674.	1.1	1
60	Speed-up of SOLPS-ITER code for tokamak edge modeling. Nuclear Fusion, 2018, 58, 126018.	3.5	20
61	Analysis of highly radiative scenarios for the EU-DEMO divertor target protection. Contributions To Plasma Physics, 2018, 58, 758-764.	1.1	3
62	Electric fields and currents in the detached regime of a tokamak. Contributions To Plasma Physics, 2018, 58, 540-546.	1.1	38
63	The Role of an Electric Field in the Formation of a Detached Regime in Tokamak Plasma. Technical Physics Letters, 2018, 44, 255-259.	0.7	2
64	The interplay of controlling the power exhaust and the tungsten content in ITER. Nuclear Materials and Energy, 2017, 12, 28-35.	1.3	22
65	Modeling of radiative divertor experiments with argon seeding for H-mode plasma in EAST. Physics of Plasmas, 2017, 24, .	1.9	10
66	The DEMO wall load challenge. Nuclear Fusion, 2017, 57, 046002.	3.5	65
67	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
68	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
69	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
70	Advances in the flux-coordinate independent approach. Computer Physics Communications, 2017, 213, 111-121.	7.5	10
71	Exploring the edge operating space of fusion reactors using reduced physics models. Nuclear Materials and Energy, 2017, 12, 1055-1060.	1.3	3
72	Modeling of argon seeding in ASDEX Upgrade H-mode plasma with SOLPS5.0. Nuclear Materials and Energy, 2017, 12, 1146-1151.	1.3	3

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73	Measurement of N+ flows in the high-field side scrape-off layer of ASDEX upgrade with different degrees of inner divertor detachment. Nuclear Materials and Energy, 2017, 12, 935-941.	1.3	1
74	3D simulations of gas puff effects on edge plasma and ICRF coupling in JET. Nuclear Fusion, 2017, 57, 056042.	3.5	14
75	Preliminary analysis of the efficiency of non-standard divertor configurations in DEMO. Nuclear Materials and Energy, 2017, 12, 967-972.	1.3	7
76	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
77	Kinetic simulations of electron heat flux in the scrape-off layer. Nuclear Materials and Energy, 2017, 12, 819-824.	1.3	11
78	Temporal parallelization of edge plasma simulations using the parareal algorithm and the SOLPS code. Computer Physics Communications, 2017, 221, 19-27.	7.5	7
79	Radio frequency heating induced edge plasma convection: self-consistent simulations and experiments on ASDEX Upgrade. Nuclear Fusion, 2017, 57, 116048.	3.5	14
80	Recent progress on improving ICRF coupling and reducing RF-specific impurities in ASDEX Upgrade. EPJ Web of Conferences, 2017, 157, 02013.	0.3	1
81	Self-consistent coupling of DSMC method and SOLPS code for modeling tokamak particle exhaust. Nuclear Fusion, 2017, 57, 066037.	3.5	6
82	Plasma edge modelling with ICRF coupling. EPJ Web of Conferences, 2017, 157, 03066.	0.3	3
83	Modelling of the ICRF induced $E \times B$ convection in the scrape-off-layer of ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2016, 58, 095005.	2.1	13
84	Reduced Physics Models in SOLPS for Reactor Scoping Studies. Contributions To Plasma Physics, 2016, 56, 790-795.	1.1	14
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	Modeling of ITER Edge Plasma in the Presence of Resonant Magnetic Perturbations. Contributions To Plasma Physics, 2016, 56, 587-591.	1.1	6
87	Effects of Classical and Neo-classical Cross-field Transport of Tungsten Impurity in Realistic Tokamak Geometry. Contributions To Plasma Physics, 2016, 56, 646-650.	1.1	2
88	Presentation of the New SOLPS-ITER Code Package for Tokamak Plasma Edge Modelling. Plasma and Fusion Research, 2016, 11, 1403102-1403102.	0.7	194
89	The field line map approach for simulations of magnetically confined plasmas. Computer Physics Communications, 2016, 198, 139-153.	7.5	31
90	Momentum balance for impurities in SOLPS transport code. Journal of Nuclear Materials, 2015, 463, 477-479.	2.7	9

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91	Simulations of gas puff effects on edge density and ICRF coupling in ASDEX upgrade using EMC3-Eirene. AIP Conference Proceedings, 2015, , .	0.4	4
92	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
93	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
94	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
95	SOLPS modelling of W arising from repetitive mitigated ELMs in ITER. Journal of Nuclear Materials, 2015, 463, 620-623.	2.7	11
96	On the locality of parallel transport of heat carrying electrons in the SOL. Journal of Nuclear Materials, 2015, 463, 498-501.	2.7	14
97	Model-based radiation scalings for the ITER-like divertors of JET and ASDEX Upgrade. Journal of Nuclear Materials, 2015, 463, 546-550.	2.7	9
98	Coupled Simulations in Plasma Physics with the Integrated Plasma Simulator Platform. Procedia Computer Science, 2015, 51, 1138-1147.	2.0	1
99	Recent ASDEX Upgrade research in support of ITER and DEMO. Nuclear Fusion, 2015, 55, 104010.	3.5	16
100	Understanding of impurity poloidal distribution in the edge pedestal by modelling. Nuclear Fusion, 2015, 55, 073017.	3.5	4
101	Experimental studies and modeling of complete H-mode divertor detachment in ASDEX Upgrade. Journal of Nuclear Materials, 2015, 463, 128-134.	2.7	71
102	First EMC3-Eirene simulations of the TCV snowflake divertor. Plasma Physics and Controlled Fusion, 2014, 56, 035009.	2.1	34
103	Improved measurements of ICRF antenna input impedance at ASDEX Upgrade during ICRF coupling studies. , 2014, , .		2
104	ICRF-code benchmark activity in the framework of the European task-force on integrated Tokamak Modelling. , 2014, , .		7
105	Implementation of PIC/MC Code BIT1 in ITM Platform. Contributions To Plasma Physics, 2014, 54, 399-403.	1.1	2
106	Systematic Study of Tungsten Impurity Transport in Representative Regimes of Divertor Plasma. Contributions To Plasma Physics, 2014, 54, 421-425.	1.1	2
107	Benchmarks of KIPP: Vlasovâ€Fokkerâ€Planck Code for Parallel Plasma Transport in the SOL and Divertor. Contributions To Plasma Physics, 2014, 54, 493-497.	1.1	6
108	Monte Carlo simulations of tungsten redeposition at the divertor target. Plasma Physics and Controlled Fusion, 2014, 56, 025003.	2.1	62

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109	Numerical Methods for 3D Tokamak Simulations Using a Flux-Surface Independent Grid. Contributions To Plasma Physics, 2014, 54, 549-554.	1.1	9
110	Performance of distributed multiscale simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130407.	3.4	31
111	The European Integrated Tokamak Modelling (ITM) effort: achievements and first physics results. Nuclear Fusion, 2014, 54, 043018.	3.5	45
112	Integrated modeling of H-mode tokamak discharges with ASTRA and B2SOLPS numerical codes. Plasma Physics and Controlled Fusion, 2014, 56, 055002.	2.1	4
113	Universal functional formula of atomic elastic cross sections. The case of the hydrogen target. Journal of Physics: Conference Series, 2014, 488, 042011.	0.4	0
114	Interaction of low energy carbon ions with tungsten surface. Journal of Physics: Conference Series, 2014, 488, 132009.	0.4	0
115	Enabling Multiscale Fusion Simulations on Distributed Computing Resources. Lecture Notes in Computer Science, 2014, , 195-210.	1.3	2
116	Kinetic modelling of temperature equilibration rates in the plasma. Journal of Nuclear Materials, 2013, 438, S342-S345.	2.7	6
117	B2.5-Eunomia simulations of Pilot-PSI plasmas. Journal of Nuclear Materials, 2013, 438, S643-S646.	2.7	18
118	Contribution of <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.7	10
119	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
120	Advanced spatial discretizations in the B2.5 plasma fluid code. Journal of Nuclear Materials, 2013, 438, S856-S860.	2.7	15
121	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
122	Overview of ASDEX Upgrade results. Nuclear Fusion, 2013, 53, 104003.	3.5	36
123	The role of drifts in the plasma transport at the tokamak core–SOL interface. Journal of Nuclear Materials, 2013, 438, S463-S466.	2.7	8
124	Comparison of kinetic and fluid models for tungsten impurity transport using IMPGYRO and SOLPS. Journal of Nuclear Materials, 2013, 438, S620-S624.	2.7	9
125	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
126	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

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127	Numerical analysis of JET discharges with the European Transport Simulator. Nuclear Fusion, 2013, 53, 123007.	3.5	26
128	Contribution of drifts and parallel currents to divertor asymmetries. Nuclear Fusion, 2012, 52, 103017.	3.5	53
129	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
130	Easy use of high performance computers for fusion simulations. Fusion Engineering and Design, 2012, 87, 2057-2062.	1.9	6
131	Development of Coupled IMPGYROâ€SOLPS Codes for Analyzing Tokamak Plasmas with Tungsten Impurities. Contributions To Plasma Physics, 2012, 52, 450-454.	1.1	6
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	Modelling of the edge plasma of MAST in the presence of resonant magnetic perturbations. Nuclear Fusion, 2011, 51, 083009.	3.5	21
134	Benchmark of Fluid and Kinetic Simulations of Type III Elming H-Mode on TCV. Fusion Science and Technology, 2011, 60, 48-55.	1.1	0
135	Full-tungsten plasma edge simulations with SOLPS. Journal of Nuclear Materials, 2011, 415, S488-S491.	2.7	29
136	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
137	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
138	Detachment physics in SOLPS simulations. Journal of Nuclear Materials, 2011, 415, S545-S548.	2.7	31
139	Simulation of edge radial electric fields in H-regimes of ASDEX-Upgrade. Journal of Nuclear Materials, 2011, 415, S593-S596.	2.7	3
140	Assessment of edge modeling in support of ITER. Journal of Nuclear Materials, 2011, 415, S523-S529.	2.7	44
141	Overview of ASDEX Upgrade results. Nuclear Fusion, 2011, 51, 094012.	3.5	27
142	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
143	Verification of the 2D Tokamak Edge Modelling Codes for Conditions of Detached Divertor Plasma. Contributions To Plasma Physics, 2010, 50, 292-298.	1.1	9
144	Towards Modeling of ITER Hâ€mode. Contributions To Plasma Physics, 2010, 50, 338-342.	1.1	1

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145	Numerical Analysis of Divertor Plasma for Demoâ€CREST. Contributions To Plasma Physics, 2010, 50, 362-367.	1.1	2
146	First Steps Towards the Coupling of the IMPGYRO and SOLPS Codes to Analyze Tokamak Plasmas with Tungsten Impurities. Contributions To Plasma Physics, 2010, 50, 392-397.	1.1	4
147	Modelling of Carbon Transport in the Outer Divertor Plasma of ASDEX Upgrade. Contributions To Plasma Physics, 2010, 50, 439-444.	1.1	6
148	DIVIMP-B2-EIRENE modelling of 13C migration and deposition in ASDEX Upgrade L-mode plasmas. Journal of Nuclear Materials, 2010, 396, 228-233.	2.7	8
149	Simulation and high performance computingâ€"Building a predictive capability for fusion. Fusion Engineering and Design, 2010, 85, 383-387.	1.9	7
150	A generic data structure for integrated modelling of tokamak physics and subsystems. Computer Physics Communications, 2010, 181, 987-998.	7.5	46
151	Addendum to papers from Axially Symmetric Divertor Experiment (ASDEX) Upgrade Team, published in Review of Scientific Instruments. Review of Scientific Instruments, 2010, 81, 039903.	1.3	0
152	Modification of the edge transport barrier by resonant magnetic perturbations. Nuclear Fusion, 2010, 50, 034005.	3.5	57
153	The European Transport Solver. IEEE Transactions on Plasma Science, 2010, 38, 2085-2092.	1.3	36
154	A European Infrastructure for Fusion Simulations. , 2010, , .		4
155	Overview of ASDEX Upgrade results. Nuclear Fusion, 2009, 49, 104009.	3.5	11
156	Disruption studies in ASDEX Upgrade in view of ITER. Plasma Physics and Controlled Fusion, 2009, 51, 124056.	2.1	71
157	Simulations of the edge plasma: the role of atomic, molecular and surface physics. , 2009, , .		1
158	Simulation of ASDEX Upgrade Ohmic plasmas for SOLPS code validation. Nuclear Fusion, 2009, 49, 015004.	3.5	18
159	New B2SOLPS5.2 transport code for H-mode regimes in tokamaks. Nuclear Fusion, 2009, 49, 025007.	3.5	112
160	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
161	Impurity seeding and scaling of edge parameters in ITER. Journal of Nuclear Materials, 2009, 390-391, 259-262.	2.7	25
162	SOLPS5 simulations of Type I ELMing H-mode at JET. Journal of Nuclear Materials, 2009, 390-391, 412-416.	2.7	8

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163	Code development for ITER edge modelling â€" SOLPS5.1. Journal of Nuclear Materials, 2009, 390-391, 274-277.	2.7	29
164	Comparison of kinetic and fluid neutral models for attached and detached state. Journal of Nuclear Materials, 2009, 390-391, 295-298.	2.7	11
165	Whole device ELM simulations. Journal of Nuclear Materials, 2009, 390-391, 826-829.	2.7	13
166	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
167	Current understanding of divertor detachment: Experiments and modelling. Journal of Nuclear Materials, 2009, 390-391, 250-254.	2.7	50
168	Simulation of H-modes discharges in ASDEX-Upgrade and MAST. Journal of Nuclear Materials, 2009, 390-391, 408-411.	2.7	3
169	Fluid modeling of an ELMing H-mode and a RMP H-mode. Journal of Nuclear Materials, 2009, 390-391, 299-302.	2.7	9
170	Edge plasma modelling for transport analysis on JT-60U tokamak. Journal of Nuclear Materials, 2009, 390-391, 452-456.	2.7	1
171	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
172	Integrated modelling of ITER reference scenarios. Nuclear Fusion, 2009, 49, 075030.	3.5	50
173	Modelling of13CH4injection and local carbon deposition at the outer divertor of ASDEX Upgrade. Physica Scripta, 2009, T138, 014019.	2.5	7
174	Modelling of the Radial Electric Field in the ASDEX Upgrade Ohmic Shots. Contributions To Plasma Physics, 2008, 48, 73-76.	1.1	3
175	On Kinetic Effects during Parallel Transport in the SOL. Contributions To Plasma Physics, 2008, 48, 89-93.	1.1	46
176	Benchmarking Kinetic and Fluid Neutral Models with Drift Effects. Contributions To Plasma Physics, 2008, 48, 136-140.	1.1	11
177	Simulation Study of Radiative Cooling in the Divertor on JT-60 Super Advanced (JT-60SA). Contributions To Plasma Physics, 2008, 48, 169-173.	1.1	1
178	Progress in Edge Plasma Transport Modeling on JET. Contributions To Plasma Physics, 2008, 48, 190-195.	1.1	3
179	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
180	2D fluid modeling of the ASDEX upgrade scrape-off layer up to the first wall. Computer Physics Communications, 2008, 179, 194-198.	7.5	7

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181	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
182	ASCOT simulations of electron energy distribution at the divertor targets in an ASDEX Upgrade H-mode discharge. Plasma Physics and Controlled Fusion, 2008, 50, 065021.	2.1	3
183	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
184	Effect of conditions for gas recirculation on divertor operation in ITER. Nuclear Fusion, 2007, 47, 698-705.	3.5	49
185	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
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