

Marco Wischmeier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3863218/publications.pdf>

Version: 2024-02-01

403
papers

9,951
citations

44069

48
h-index

85541

71
g-index

404
all docs

404
docs citations

404
times ranked

3493
citing authors

#	ARTICLE	IF	CITATIONS
1	Impurity seeding for tokamak power exhaust: from present devices via ITER to DEMO. Plasma Physics and Controlled Fusion, 2013, 55, 124041.	2.1	303
2	On the physics guidelines for a tokamak DEMO. Nuclear Fusion, 2013, 53, 073019.	3.5	192
3	Partial detachment of high power discharges in ASDEX Upgrade. Nuclear Fusion, 2015, 55, 053026.	3.5	163
4	Overview on plasma operation with a full tungsten wall in ASDEX Upgrade. Journal of Nuclear Materials, 2013, 438, S34-S41.	2.7	156
5	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
6	Divertor studies in nitrogen induced completely detached H-modes in full tungsten ASDEX Upgrade. Nuclear Fusion, 2015, 55, 033004.	3.5	126
7	Advances in the physics basis for the European DEMO design. Nuclear Fusion, 2015, 55, 063003.	3.5	122
8	A new experimental classification of divertor detachment in ASDEX Upgrade. Nuclear Fusion, 2014, 54, 013001.	3.5	118
9	ELM divertor peak energy fluence scaling to ITER with data from JET, MAST and ASDEX upgrade. Nuclear Materials and Energy, 2017, 12, 84-90.	1.3	116
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	DEMO divertor limitations during and in between ELMs. Nuclear Fusion, 2014, 54, 114003.	3.5	107
12	An experimental investigation of the high density transition of the scrape-off layer transport in ASDEX Upgrade. Nuclear Fusion, 2014, 54, 123005.	3.5	106
13	Isotope effects on L-H threshold and confinement in tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014045.	2.1	98
14	High density operation for reactor-relevant power exhaust. Journal of Nuclear Materials, 2015, 463, 22-29.	2.7	97
15	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. Nuclear Materials and Energy, 2017, 12, 111-118.	1.3	92
16	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. Physical Review Letters, 2015, 115, 215002.	7.8	89
17	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
18	Beryllium migration in JET ITER-like wall plasmas. Nuclear Fusion, 2015, 55, 063021.	3.5	83

#	ARTICLE	IF	CITATIONS
19	WEST Physics Basis. Nuclear Fusion, 2015, 55, 063017.	3.5	82
20	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. Plasma Physics and Controlled Fusion, 2016, 58, 014036.	2.1	81
21	Improved confinement in JET high $\hat{2}$ plasmas with an ITER-like wall. Nuclear Fusion, 2015, 55, 053031.	3.5	79
22	The high field side high density region in SOLPS-modeling of nitrogen-seeded H-modes in ASDEX Upgrade. Nuclear Materials and Energy, 2017, 12, 193-199.	1.3	77
23	Impact of the ITER-like wall on divertor detachment and on the density limit in the JET tokamak. Journal of Nuclear Materials, 2013, 438, S139-S147.	2.7	76
24	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
25	Experimental studies and modeling of complete H-mode divertor detachment in ASDEX Upgrade. Journal of Nuclear Materials, 2015, 463, 128-134.	2.7	71
26	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
27	The role of the density profile in the ASDEX-Upgrade pedestal structure. Plasma Physics and Controlled Fusion, 2017, 59, 014017.	2.1	69
28	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. Nuclear Fusion, 2015, 55, 053015.	3.5	67
29	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. Physical Review Letters, 2016, 116, 065002.	7.8	64
30	Dual sightline measurements of MeV range deuterons with neutron and gamma-ray spectroscopy at JET. Nuclear Fusion, 2015, 55, 123026.	3.5	60
31	Erosion, screening, and migration of tungsten in the JET divertor. Nuclear Fusion, 2019, 59, 096035.	3.5	60
32	Parallel SOL flow on TCV. Journal of Nuclear Materials, 2007, 363-365, 505-510.	2.7	59
33	X-point radiation, its control and an ELM suppressed radiating regime at the ASDEX Upgrade tokamak. Nuclear Fusion, 2021, 61, 024001.	3.5	59
34	Erosion and deposition in the JET divertor during the first ILW campaign. Physica Scripta, 2016, T167, 014051.	2.5	58
35	Formation of the high density front in the inner far SOL at ASDEX Upgrade and JET. Journal of Nuclear Materials, 2015, 463, 541-545.	2.7	57
36	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. Plasma Physics and Controlled Fusion, 2017, 59, 124005.	2.1	57

#	ARTICLE	IF	CITATIONS
37	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. Nuclear Fusion, 2018, 58, 034001.	3.5	57
38	Key impact of finite-beta and fast ions in core and edge tokamak regions for the transition to advanced scenarios. Nuclear Fusion, 2015, 55, 053007.	3.5	56
39	Influence of the drift in high recycling divertors on target asymmetries. Plasma Physics and Controlled Fusion, 2015, 57, 095002.	2.1	56
40	Recent progress towards a quantitative description of filamentary SOL transport. Nuclear Fusion, 2017, 57, 056044.	3.5	56
41	Overview of ASDEX Upgrade results. Nuclear Fusion, 2017, 57, 102015.	3.5	53
42	Long-term fuel retention in JET ITER-like wall. Physica Scripta, 2016, T167, 014075.	2.5	52
43	MeV-range velocity-space tomography from gamma-ray and neutron emission spectrometry measurements at JET. Nuclear Fusion, 2017, 57, 056001.	3.5	52
44	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
45	First dust study in JET with the ITER-like wall: sampling, analysis and classification. Nuclear Fusion, 2015, 55, 113033.	3.5	51
46	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. Nuclear Fusion, 2016, 56, 026007.	3.5	51
47	Current understanding of divertor detachment: Experiments and modelling. Journal of Nuclear Materials, 2009, 390-391, 250-254.	2.7	50
48	Integrated modelling of ITER reference scenarios. Nuclear Fusion, 2009, 49, 075030.	3.5	50
49	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
50	The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. Physics of Plasmas, 2015, 22, 055902.	1.9	49
51	Analytical calculations for impurity seeded partially detached divertor conditions. Plasma Physics and Controlled Fusion, 2016, 58, 045013.	2.1	49
52	Progress in understanding disruptions triggered by massive gas injection via 3D non-linear MHD modelling with JOREK. Plasma Physics and Controlled Fusion, 2017, 59, 014006.	2.1	47
53	Overview of the JET ITER-like wall divertor. Nuclear Materials and Energy, 2017, 12, 499-505.	1.3	46
54	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. Physics of Plasmas, 2015, 22, .	1.9	45

#	ARTICLE	IF	CITATIONS
55	Assessment of edge modeling in support of ITER. Journal of Nuclear Materials, 2011, 415, S523-S529.	2.7	44
56	Ion target impact energy during Type I edge localized modes in JET ITER-like Wall. Plasma Physics and Controlled Fusion, 2015, 57, 085006.	2.1	44
57	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. Nuclear Fusion, 2018, 58, 056002.	3.5	44
58	Real-time control of divertor detachment in H-mode with impurity seeding using Langmuir probe feedback in JET-ITER-like wall. Plasma Physics and Controlled Fusion, 2017, 59, 045001.	2.1	43
59	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. Nuclear Fusion, 2019, 59, 076038.	3.5	43
60	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
61	First neutron spectroscopy measurements with a pixelated diamond detector at JET. Review of Scientific Instruments, 2016, 87, 11D833.	1.3	42
62	Studies of dust from JET with the ITER-Like Wall: Composition and internal structure. Nuclear Materials and Energy, 2017, 12, 582-587.	1.3	41
63	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
64	On the role of filaments in perpendicular heat transport at the scrape-off layer. Nuclear Fusion, 2018, 58, 096015.	3.5	41
65	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. Nuclear Fusion, 2015, 55, 123028.	3.5	40
66	JET and COMPASS asymmetrical disruptions. Nuclear Fusion, 2015, 55, 113006.	3.5	40
67	SOLPS analysis of the MAST-U divertor with the effect of heating power and pumping on the access to detachment in the Super-x configuration. Plasma Physics and Controlled Fusion, 2015, 57, 115001.	2.1	40
68	Integrated modelling of H-mode pedestal and confinement in JET-ILW. Plasma Physics and Controlled Fusion, 2018, 60, 014042.	2.1	40
69	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
70	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
71	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
72	Characterization of the fluctuating detachment state in ASDEX Upgrade. Journal of Nuclear Materials, 2013, 438, S285-S290.	2.7	38

#	ARTICLE	IF	CITATIONS
73	Investigation into the formation of the scrape-off layer density shoulder in JET ITER-like wall L-mode and H-mode plasmas. Nuclear Fusion, 2018, 58, 056001.	3.5	38
74	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
75	Contrasting H-mode behaviour with deuterium fuelling and nitrogen seeding in the all-carbon and metallic versions of JET. Nuclear Fusion, 2014, 54, 073016.	3.5	37
76	Physics of Plasmas, 2015, 22, 056115.	1.9	37
77	The role of MHD in causing impurity peaking in JET hybrid plasmas. Nuclear Fusion, 2016, 56, 066002.	3.5	37
78	Detachment evolution on the TCV tokamak. Nuclear Materials and Energy, 2017, 12, 1071-1076.	1.3	37
79	Characterisation of highly radiating neon seeded plasmas in JET-ILW. Nuclear Fusion, 2019, 59, 126031.	3.5	37
80	Overview of ASDEX Upgrade results. Nuclear Fusion, 2013, 53, 104003.	3.5	36
81	Multi-machine scaling of the main SOL parallel heat flux width in tokamak limiter plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 074005.	2.1	36
82	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. Nuclear Fusion, 2019, 59, 106017.	3.5	36
83	Divertor power and particle fluxes between and during type-I ELMs in the ASDEX Upgrade. Nuclear Fusion, 2008, 48, 085008.	3.5	35
84	Influence of atomic physics on EDGE2D-EIRENE simulations of JET divertor detachment with carbon and beryllium/tungsten plasma-facing components. Nuclear Fusion, 2014, 54, 093012.	3.5	35
85	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuterium-tritium fusion plasma diagnostics. Measurement Science and Technology, 2018, 29, 045502.	2.6	35
86	SOLPS-ITER simulations of the TCV divertor upgrade. Plasma Physics and Controlled Fusion, 2019, 61, 085029.	2.1	35
87	First EMC3-Eirene simulations of the TCV snowflake divertor. Plasma Physics and Controlled Fusion, 2014, 56, 035009.	2.1	34
88	Dynamics and stability of divertor detachment in H-mode plasmas on JET. Plasma Physics and Controlled Fusion, 2017, 59, 095003.	2.1	34
89	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. Nuclear Fusion, 2018, 58, 082005.	3.5	34
90	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

#	ARTICLE	IF	CITATIONS
91	Overview of JET results. Nuclear Fusion, 2011, 51, 094008.	3.5	33
92	Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. Nuclear Fusion, 2015, 55, 123001.	3.5	33
93	Challenges in the extrapolation from DD to DT plasmas: experimental analysis and theory based predictions for JET-DT. Plasma Physics and Controlled Fusion, 2017, 59, 014023.	2.1	33
94	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. Nuclear Fusion, 2018, 58, 076028.	3.5	33
95	Developments towards an ELM-free pedestal radiative cooling scenario using noble gas seeding in ASDEX Upgrade. Nuclear Fusion, 2021, 61, 016002.	3.5	33
96	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. Plasma Physics and Controlled Fusion, 2017, 59, 055001.	2.1	32
97	Implications of high density operation on SOL transport: A multimachine investigation. Journal of Nuclear Materials, 2015, 463, 123-127.	2.7	31
98	Experimental estimation of tungsten impurity sputtering due to Type I ELMs in JET-ITER-like wall using pedestal electron cyclotron emission and target Langmuir probe measurements. Physica Scripta, 2016, T167, 014005.	2.5	31
99	Gamma-ray spectroscopy at MHz counting rates with a compact LaBr ₃ detector and silicon photomultipliers for fusion plasma applications. Review of Scientific Instruments, 2016, 87, 11E714.	1.3	31
100	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. Nuclear Fusion, 2016, 56, 046009.	3.5	31
101	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. Nuclear Fusion, 2019, 59, 076028.	3.5	31
102	Validation of the ICRF antenna coupling code RPLICASOL against TOPICA and experiments. Nuclear Fusion, 2019, 59, 046001.	3.5	31
103	Electron density determination in the divertor volume of ASDEX Upgrade via Stark broadening of the Balmer lines. Plasma Physics and Controlled Fusion, 2014, 56, 025010.	2.1	30
104	Scaling of the divertor power spreading (S-factor) in open and closed divertor operation in JET and ASDEX Upgrade. Journal of Nuclear Materials, 2015, 463, 49-54.	2.7	30
105	Velocity-space sensitivities of neutron emission spectrometers at the tokamaks JET and ASDEX Upgrade in deuterium plasmas. Review of Scientific Instruments, 2017, 88, 073506.	1.3	30
106	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30
107	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. Nuclear Fusion, 2015, 55, 053028.	3.5	29
108	Axisymmetric oscillations at Lâ€“H transitions in JET: M-mode. Nuclear Fusion, 2017, 57, 022021.	3.5	29

#	ARTICLE	IF	CITATIONS
109	3D non-linear MHD simulation of the MHD response and density increase as a result of shattered pellet injection. Nuclear Fusion, 2018, 58, 126025.	3.5	29
110	EMC3-Eirene simulations of the spatial dependence of the tungsten divertor retention in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2011, 53, 125010.	2.1	28
111	Plasma confinement at JET. Plasma Physics and Controlled Fusion, 2016, 58, 014034.	2.1	28
112	Assessment of erosion, deposition and fuel retention in the JET-ILW divertor from ion beam analysis data. Nuclear Materials and Energy, 2017, 12, 559-563.	1.3	28
113	Heat flux pattern in detached L-modes and ELM mitigated H-modes with rotating magnetic perturbations in ASDEX Upgrade. Nuclear Fusion, 2017, 57, 116006.	3.5	28
114	Overview of ASDEX Upgrade results. Nuclear Fusion, 2011, 51, 094012.	3.5	27
115	Characterisation of the deuterium recycling at the W divertor target plates in JET during steady-state plasma conditions and ELMs. Physica Scripta, 2016, T167, 014076.	2.5	27
116	Numerical study of potential heat flux mitigation effects in the TCV snowflake divertor. Plasma Physics and Controlled Fusion, 2016, 58, 045027.	2.1	27
117	Gyrokinetic study of turbulent convection of heavy impurities in tokamak plasmas at comparable ion and electron heat fluxes. Nuclear Fusion, 2017, 57, 022009.	3.5	27
118	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
119	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. Physica Scripta, 2017, T170, 014018.	2.5	27
120	Adaptive learning for disruption prediction in non-stationary conditions. Nuclear Fusion, 2019, 59, 086037.	3.5	27
121	Recent results from the electron cyclotron heated plasmas in Tokamak Å Configuration Variable (TCV). Physics of Plasmas, 2003, 10, 1796-1802.	1.9	26
122	An Analytical Expression for the Electric Field and Particle Tracing in Modelling of Be Erosion Experiments at the JET ITER-like Wall. Contributions To Plasma Physics, 2016, 56, 640-645.	1.1	26
123	TCV divertor upgrade for alternative magnetic configurations. Nuclear Materials and Energy, 2017, 12, 1106-1111.	1.3	26
124	Dimensionless scalings of confinement, heat transport and pedestal stability in JET-ILW and comparison with JET-C. Plasma Physics and Controlled Fusion, 2017, 59, 014014.	2.1	26
125	W transport and accumulation control in the termination phase of JET H-mode discharges and implications for ITER. Plasma Physics and Controlled Fusion, 2018, 60, 074008.	2.1	26
126	Langmuir probe electronics upgrade on the tokamak Å configuration variable. Review of Scientific Instruments, 2019, 90, 083502.	1.3	26

#	ARTICLE	IF	CITATIONS
127	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	26
128	An overview of results from the TCV tokamak. <i>Nuclear Fusion</i> , 2003, 43, 1619-1631.	3.5	25
129	Fast ion energy distribution from third harmonic radio frequency heating measured with a single crystal diamond detector at the Joint European Torus. <i>Review of Scientific Instruments</i> , 2015, 86, 103501.	1.3	25
130	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 045011.	2.1	25
131	Plasma impact on diagnostic mirrors in JET. <i>Nuclear Materials and Energy</i> , 2017, 12, 506-512.	1.3	25
132	The "neutron deficit"™ in the JET tokamak. <i>Nuclear Fusion</i> , 2017, 57, 076029.	3.5	25
133	Measurements of neutral gas fluxes under different plasma and divertor regimes in ASDEX Upgrade. <i>Journal of Nuclear Materials</i> , 2009, 390-391, 494-497.	2.7	24
134	Interpretation of radiative divertor studies with impurity seeding in type-I ELMy H-mode plasmas in JET-ILW using EDGE2Ê"EIRENE. <i>Journal of Nuclear Materials</i> , 2015, 463, 135-142.	2.7	24
135	Performance of the prototype LaBr3 spectrometer developed for the JET gamma-ray camera upgrade. <i>Review of Scientific Instruments</i> , 2016, 87, 11E717.	1.3	24
136	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. <i>Nuclear Fusion</i> , 2016, 56, 106026.	3.5	24
137	Impact of divertor geometry on H-mode confinement in the JET metallic wall. <i>Nuclear Fusion</i> , 2017, 57, 086025.	3.5	24
138	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. <i>Nuclear Materials and Energy</i> , 2019, 18, 239-244.	1.3	24
139	X-point potential well formation in diverted tokamaks with unfavorable magnetic field direction. <i>Nuclear Fusion</i> , 2020, 60, 054005.	3.5	24
140	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. <i>Nuclear Fusion</i> , 2012, 52, 103006.	3.5	23
141	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. <i>Nuclear Fusion</i> , 2016, 56, 106010.	3.5	23
142	Proposal of an alternative upper divertor in ASDEX Upgrade supported by EMC3-EIRENE simulations. <i>Nuclear Materials and Energy</i> , 2017, 12, 1037-1042.	1.3	23
143	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. <i>Nuclear Fusion</i> , 2017, 57, 102014.	3.5	23
144	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. <i>Nuclear Fusion</i> , 2017, 57, 036027.	3.5	23

#	ARTICLE	IF	CITATIONS
145	Impact of electron-scale turbulence and multi-scale interactions in the JET tokamak. Nuclear Fusion, 2018, 58, 124003.	3.5	23
146	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. Plasma Physics and Controlled Fusion, 2019, 61, 014027.	2.1	23
147	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H α spectroscopy: H α -D experiment and implications for D-T experiment. Nuclear Fusion, 2019, 59, 046011.	3.5	23
148	Safety factor profile requirements for electron ITB formation in TCV. Plasma Physics and Controlled Fusion, 2005, 47, B107-B120.	2.1	22
149	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
150	Determination of tungsten and molybdenum concentrations from an x-ray range spectrum in JET with the ITER-like wall configuration. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144023.	1.5	22
151	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. Plasma Physics and Controlled Fusion, 2016, 58, 115005.	2.1	22
152	Neutron emission spectroscopy of DT plasmas at enhanced energy resolution with diamond detectors. Review of Scientific Instruments, 2016, 87, 11D822.	1.3	22
153	Modelling of transitions between L- and H-mode in JET high plasma current plasmas and application to ITER scenarios including tungsten behaviour. Nuclear Fusion, 2017, 57, 086023.	3.5	22
154	Fine metal dust particles on the wall probes from JET-ILW. Physica Scripta, 2017, T170, 014038.	2.5	22
155	14 MeV calibration of JET neutron detectors – phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
156	First principles of modelling the stabilization of microturbulence by fast ions. Nuclear Fusion, 2018, 58, 082024.	3.5	22
157	First principle integrated modeling of multi-channel transport including Tungsten in JET. Nuclear Fusion, 2018, 58, 096003.	3.5	22
158	Evolution of nitrogen concentration and ammonia production in N ₂ -seeded H-mode discharges at ASDEX Upgrade. Nuclear Fusion, 2019, 59, 046010.	3.5	22
159	Influence of cross-field drifts and chemical sputtering on simulations of divertor particle and heat loads in ohmic and L-mode plasmas in DIII-D, AUG, and JET using UEDGE. Journal of Nuclear Materials, 2011, 415, S530-S534.	2.7	21
160	Relevance of collisionality in the transport model assumptions for divertor detachment multi-fluid modelling on JET. Journal of Nuclear Materials, 2011, 415, S535-S539.	2.7	21
161	Radiation asymmetries during the thermal quench of massive gas injection disruptions in JET. Nuclear Fusion, 2015, 55, 123027.	3.5	21
162	Experimental evaluation of stable long term operation of semiconductor magnetic sensors at ITER relevant environment. Nuclear Fusion, 2015, 55, 083006.	3.5	21

#	ARTICLE	IF	CITATIONS
163	EMC3-Eirene simulations of particle- and energy fluxes to main chamber- and divertor plasma facing components in ASDEX Upgrade compared to experiments. Journal of Nuclear Materials, 2015, 463, 744-747.	2.7	20
164	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. Plasma Physics and Controlled Fusion, 2016, 58, 014026.	2.1	20
165	Deuterium trapping and release in JET ITER-like wall divertor tiles. Physica Scripta, 2016, T167, 014074.	2.5	20
166	Simulation of neutral gas flow in the JET sub-divertor. Fusion Engineering and Design, 2017, 121, 13-21.	1.9	20
167	Physics and operation oriented activities in preparation of the JT-60SA tokamak exploitation. Nuclear Fusion, 2017, 57, 085001.	3.5	20
168	Tritium retention characteristics in dust particles in JET with ITER-like wall. Nuclear Materials and Energy, 2018, 17, 279-283.	1.3	20
169	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. Nuclear Fusion, 2018, 58, 076022.	3.5	20
170	Investigation of conventional and Super-X divertor configurations of MAST Upgrade using scrape-off layer plasma simulation. Plasma Physics and Controlled Fusion, 2014, 56, 075008.	2.1	19
171	Neutronics experiments and analyses in preparation of DT operations at JET. Fusion Engineering and Design, 2016, 109-111, 895-905.	1.9	19
172	JET experiments with tritium and deuterium-tritium mixtures. Fusion Engineering and Design, 2016, 109-111, 925-936.	1.9	19
173	Impact of toroidal and poloidal mode spectra on the control of non-axisymmetric fields in tokamaks. Physics of Plasmas, 2017, 24, .	1.9	19
174	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. Nuclear Fusion, 2018, 58, 096029.	3.5	19
175	Preliminary analysis of alternative divertors for DEMO. Nuclear Materials and Energy, 2021, 26, 100908.	1.3	19
176	Simulation of ASDEX Upgrade Ohmic plasmas for SOLPS code validation. Nuclear Fusion, 2009, 49, 015004.	3.5	18
177	L to H mode transition: parametric dependencies of the temperature threshold. Nuclear Fusion, 2015, 55, 073015.	3.5	18
178	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. Physica Scripta, 2016, 91, 064003.	2.5	18
179	Response function of single crystal synthetic diamond detectors to 1-4 MeV neutrons for spectroscopy of D plasmas. Review of Scientific Instruments, 2016, 87, 11D823.	1.3	18
180	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. Physica Scripta, 2016, T167, 014077.	2.5	18

#	ARTICLE	IF	CITATIONS
181	Experience of handling beryllium, tritium and activated components from JET ITER like wall. <i>Physica Scripta</i> , 2016, T167, 014057.	2.5	18
182	The role and application of ion beam analysis for studies of plasma-facing components in controlled fusion devices. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 371, 4-11.	1.4	18
183	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , 2016, 56, 026006.	3.5	18
184	Energy balance in JET. <i>Nuclear Materials and Energy</i> , 2017, 12, 227-233.	1.3	18
185	SOL parallel momentum loss in ASDEX Upgrade and comparison with SOLPS. <i>Nuclear Materials and Energy</i> , 2017, 12, 181-186.	1.3	18
186	A multi-machine scaling of halo current rotation. <i>Nuclear Fusion</i> , 2018, 58, 016050.	3.5	18
187	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. <i>Journal of Nuclear Materials</i> , 2019, 516, 202-213.	2.7	18
188	Advances in the physics studies for the JT-60SA tokamak exploitation and research plan. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014009.	2.1	18
189	Impurity transport and divertor retention in Ar and N seeded SOLPS 5.0 simulations for ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 085013.	2.1	18
190	Divertor plasma flow near the lower x-point in ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 857-872.	2.1	17
191	L-mode radiative plasma edge studies for model validation in ASDEX Upgrade and JET. <i>Journal of Nuclear Materials</i> , 2013, 438, S321-S325.	2.7	17
192	Benchmarking the GENE and GYRO codes through the relative roles of electromagnetic and $E \times B$ stabilization in JET high-performance discharges. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 125018.	1.7	17
193	Improved ERO modelling for spectroscopy of physically and chemically assisted eroded beryllium from the JET-ILW. <i>Nuclear Materials and Energy</i> , 2016, 9, 604-609.	1.3	17
194	Plasma edge and plasma-wall interaction modelling: Lessons learned from metallic devices. <i>Nuclear Materials and Energy</i> , 2017, 12, 3-17.	1.3	17
195	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. <i>Nuclear Fusion</i> , 2018, 58, 016023.	3.5	17
196	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. <i>Nuclear Fusion</i> , 2018, 58, 026028.	3.5	17
197	Synthetic spectra of BeH, BeD and BeT for emission modeling in JET plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 185701.	1.5	17
198	AXUV bolometer and Lyman- α camera systems on the TCV tokamak. <i>Review of Scientific Instruments</i> , 2004, 75, 4139-4141.	1.3	16

#	ARTICLE	IF	CITATIONS
199	Recent ASDEX Upgrade research in support of ITER and DEMO. Nuclear Fusion, 2015, 55, 104010.	3.5	16
200	Possible influence of near SOL plasma on the H-mode power threshold. Nuclear Materials and Energy, 2017, 12, 273-277.	1.3	16
201	Overview of recent physics results from MAST. Nuclear Fusion, 2017, 57, 102007.	3.5	16
202	Axisymmetric global Alfvén eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. Physics of Plasmas, 2017, 24, .	1.9	16
203	Bayesian electron density inference from JET lithium beam emission spectra using Gaussian processes. Nuclear Fusion, 2017, 57, 036017.	3.5	16
204	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
205	Dependence of the turbulent particle flux on hydrogen isotopes induced by collisionality. Physics of Plasmas, 2018, 25, 082517.	1.9	16
206	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. Nuclear Fusion, 2018, 58, 095003.	3.5	16
207	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
208	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
209	Investigation of local carbon transport in the ASDEX Upgrade divertor using $^{13}\text{CH}_4$ puffing. Journal of Nuclear Materials, 2009, 390-391, 68-71.	2.7	15
210	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
211	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
212	Bayesian Integrated Data Analysis of Fast-Ion Measurements by Velocity-Space Tomography. Fusion Science and Technology, 2018, 74, 23-36.	1.1	15
213	SOLPS-ITER modeling with activated drifts for a snowflake divertor in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2020, 62, 045005.	2.1	15
214	The influence of molecular dynamics on divertor detachment in TCV. Contributions To Plasma Physics, 2004, 44, 268-273.	1.1	14
215	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
216	Deep deuterium retention and Be/W mixing at tungsten coated surfaces in the JET divertor. Physica Scripta, 2016, T167, 014061.	2.5	14

#	ARTICLE	IF	CITATIONS
217	How to assess the efficiency of synchronization experiments in tokamaks. Nuclear Fusion, 2016, 56, 076008.	3.5	14
218	Deposition in the inner and outer corners of the JET divertor with carbon wall and metallic ITER-like wall. Physica Scripta, 2016, T167, 014052.	2.5	14
219	Raman microscopy investigation of beryllium materials. Physica Scripta, 2016, T167, 014027.	2.5	14
220	Beryllium film deposition in cavity samples in remote areas of the JET divertor during the 2011â€“2012 ITER-like wall campaign. Nuclear Materials and Energy, 2017, 12, 548-552.	1.3	14
221	Micro-/nano-characterization of the surface structures on the divertor tiles from JET ITER-like wall. Fusion Engineering and Design, 2017, 116, 1-4.	1.9	14
222	Structure, tritium depth profile and desorption from â€“plasma-facingâ€™ beryllium materials of ITER-Like-Wall at JET. Nuclear Materials and Energy, 2017, 12, 642-647.	1.3	14
223	3D simulations of gas puff effects on edge plasma and ICRF coupling in JET. Nuclear Fusion, 2017, 57, 056042.	3.5	14
224	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. Physics of Plasmas, 2018, 25, .	1.9	14
225	Divertor detachment during pure helium plasmas in JET. Journal of Nuclear Materials, 2003, 313-316, 980-985.	2.7	13
226	Accessibility and properties of ELMy H-mode and ITB plasmas in TCV. Plasma Physics and Controlled Fusion, 2003, 45, A351-A365.	2.1	13
227	Mass spectrometry analysis of the impurity content in N2 seeded discharges in JET-ILW. Journal of Nuclear Materials, 2015, 463, 684-687.	2.7	13
228	Radiation damage and nuclear heating studies in selected functional materials during the JET DT campaign. Fusion Engineering and Design, 2016, 109-111, 1011-1015.	1.9	13
229	High power neon seeded JET discharges: Experiments and simulations. Nuclear Materials and Energy, 2017, 12, 882-886.	1.3	13
230	Comparative H-mode density limit studies in JET and AUG. Nuclear Materials and Energy, 2017, 12, 100-110.	1.3	13
231	Analyses of microstructure, composition and retention of hydrogen isotopes in divertor tiles of JET with the ITER-like wall. Physica Scripta, 2017, T170, 014031.	2.5	13
232	Light impurity transport in JET ILW L-mode plasmas. Nuclear Fusion, 2018, 58, 036009.	3.5	13
233	Determination of 2D poloidal maps of the intrinsic W density for transport studies in JET-ILW. Review of Scientific Instruments, 2018, 89, 113501.	1.3	13
234	Real-time plasma state monitoring and supervisory control on TCV. Nuclear Fusion, 2019, 59, 026017.	3.5	13

#	ARTICLE	IF	CITATIONS
235	Gyrokinetic modeling of impurity peaking in JET H-mode plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	13
236	Effect of E \times B driven transport on the deposition of carbon in the outer divertor of ASDEX Upgrade. <i>Journal of Nuclear Materials</i> , 2011, 415, S231-S234.	2.7	12
237	Design and concept validation of the new solid tungsten divertor for ASDEX Upgrade. <i>Fusion Engineering and Design</i> , 2013, 88, 577-580.	1.9	12
238	Trapped electron mode driven electron heat transport in JET: experimental investigation and gyro-kinetic theory validation. <i>Nuclear Fusion</i> , 2015, 55, 113016.	3.5	12
239	Diagnostic application of magnetic islands rotation in JET. <i>Nuclear Fusion</i> , 2016, 56, 076004.	3.5	12
240	Studies of Be migration in the JET tokamak using AMS with ¹⁰ Be marker. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 371, 370-375.	1.4	12
241	A tool to support the construction of reliable disruption databases. <i>Fusion Engineering and Design</i> , 2017, 125, 139-153.	1.9	12
242	Assessment of divertor heat load with and without external magnetic perturbation. <i>Nuclear Fusion</i> , 2017, 57, 066045.	3.5	12
243	Metallic mirrors for plasma diagnosis in current and future reactors: tests for ITER and DEMO. <i>Physica Scripta</i> , 2017, T170, 014061.	2.5	12
244	Divertor, scrape-off layer and pedestal particle dynamics in the ELM cycle on ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 025002.	2.1	12
245	Assessment of the strength of kinetic effects of parallel electron transport in the SOL and divertor of JET high radiative H-mode plasmas using EDGE2D-EIRENE and KIPP codes. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 115011.	2.1	12
246	A new mechanism for increasing density peaking in tokamaks: improvement of the inward particle pinch with edge E \times B shearing. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 104002.	2.1	12
247	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. <i>Journal of Instrumentation</i> , 2019, 14, C05019-C05019.	1.2	12
248	Numerical modelling of an enhanced perpendicular transport regime in the scrape-off layer of ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 075003.	2.1	12
249	SOLPS5 modelling of the type III ELMing H-mode on TCV. <i>Journal of Nuclear Materials</i> , 2007, 363-365, 1037-1043.	2.7	11
250	Overview of ASDEX Upgrade results. <i>Nuclear Fusion</i> , 2009, 49, 104009.	3.5	11
251	On the interpretation of high-resolution x-ray spectra from JET with an ITER-like wall. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144028.	1.5	11
252	Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition. <i>Radiation Physics and Chemistry</i> , 2015, 116, 359-364.	2.8	11

#	ARTICLE	IF	CITATIONS
253	Numerical simulations of JET discharges with the ITER-like wall for different nitrogen seeding scenarios. <i>Journal of Nuclear Materials</i> , 2015, 463, 577-581.	2.7	11
254	Statistical validation of predictive TRANSP simulations of baseline discharges in preparation for extrapolation to JET D ⁺ . <i>Nuclear Fusion</i> , 2017, 57, 066032.	3.5	11
255	Poloidal asymmetries in the edge density profiles on ASDEX Upgrade. <i>Nuclear Fusion</i> , 2018, 58, 026005.	3.5	11
256	EDGE2D-EIRENE simulations of the influence of isotope effects and anomalous transport coefficients on near scrape-off layer radial electric field. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 075010.	2.1	11
257	The diffusion limit of ballistic transport in the scrape-off layer. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	11
258	An overview of JET edge modelling activities. <i>Journal of Nuclear Materials</i> , 2003, 313-316, 868-872.	2.7	10
259	Density limit of H-mode plasmas on JET-ILW. <i>Journal of Nuclear Materials</i> , 2015, 463, 445-449.	2.7	10
260	Bayesian modelling of the emission spectrum of the Joint European Torus Lithium Beam Emission Spectroscopy system. <i>Review of Scientific Instruments</i> , 2016, 87, 023501.	1.3	10
261	Tritium distributions on tungsten and carbon tiles used in the JET divertor. <i>Physica Scripta</i> , 2016, T167, 014009.	2.5	10
262	Simulation of JET ITER-Like Wall pulses at high neon seeding rate. <i>Nuclear Fusion</i> , 2017, 57, 126021.	3.5	10
263	An analytical expression for ion velocities at the wall including the sheath electric field and surface biasing for erosion modeling at JET ILW. <i>Nuclear Materials and Energy</i> , 2017, 12, 341-345.	1.3	10
264	Tritium distributions on W-coated divertor tiles used in the third JET ITER-like wall campaign. <i>Nuclear Materials and Energy</i> , 2019, 18, 258-261.	1.3	10
265	Peculiarity of highly radiating multi-impurity seeded H _α -mode plasmas on JET with ITER-like wall. <i>Physica Scripta</i> , 2020, T171, 014055.	2.5	10
266	Shaping effects on scrape-off layer plasma turbulence: A rigorous validation of three-dimensional simulations against TCV measurements. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	10
267	EDGE2D-EIRENE modelling of divertor detachment in JET high triangularity L-mode plasmas in carbon and Be/W environment. <i>Journal of Nuclear Materials</i> , 2013, 438, S638-S642.	2.7	9
268	Modelling the Effect of the Super-X Divertor in MAST Upgrade on Transition to Detachment and Distribution of Volumetric Power Losses. <i>Contributions To Plasma Physics</i> , 2014, 54, 448-453.	1.1	9
269	The effect of the Super-X divertor of MAST Upgrade on impurity radiation as modelled by SOLPS. <i>Journal of Nuclear Materials</i> , 2015, 463, 1209-1213.	2.7	9
270	Experimental investigation of neon seeding in the snowflake configuration in TCV. <i>Journal of Nuclear Materials</i> , 2015, 463, 1196-1199.	2.7	9

#	ARTICLE	IF	CITATIONS
271	Model-based radiation scalings for the ITER-like divertors of JET and ASDEX Upgrade. <i>Journal of Nuclear Materials</i> , 2015, 463, 546-550.	2.7	9
272	JET diagnostic enhancements in preparation for DT operations. <i>Review of Scientific Instruments</i> , 2016, 87, 11D443.	1.3	9
273	Stability and propagation of the high field side high density front in the fluctuating state of detachment in ASDEX Upgrade. <i>Nuclear Materials and Energy</i> , 2017, 12, 1152-1156.	1.3	9
274	The effect of the isotope on the H-mode density limit. <i>Nuclear Fusion</i> , 2017, 57, 086007.	3.5	9
275	The emissivity of W coatings deposited on carbon materials for fusion applications. <i>Fusion Engineering and Design</i> , 2017, 114, 192-195.	1.9	9
276	Investigation of the effects of impurity seeding under different magnetic configurations in L-mode plasma in EAST tokamak. <i>Physics of Plasmas</i> , 2017, 24, 092514.	1.9	9
277	An optimized upper divertor with divertor-coils to study enhanced divertor configurations in ASDEX Upgrade. <i>Fusion Engineering and Design</i> , 2017, 123, 508-512.	1.9	9
278	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. <i>Nuclear Fusion</i> , 2018, 58, 016046.	3.5	9
279	Generation of a plasma neutron source for Monte Carlo neutron transport calculations in the tokamak JET. <i>Fusion Engineering and Design</i> , 2018, 136, 1047-1051.	1.9	9
280	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. <i>Nuclear Fusion</i> , 2019, 59, 016004.	3.5	9
281	H-mode confinement in the pellet-enforced high-density regime of the all-metal-wall tokamak ASDEX Upgrade. <i>Nuclear Fusion</i> , 2020, 60, 092003.	3.5	9
282	SOLPS-ITER validation with TCV L-mode discharges. <i>Physics of Plasmas</i> , 2021, 28, 082508.	1.9	9
283	Plasma isotopic changeover experiments in JET under carbon and ITER-like wall conditions. <i>Nuclear Fusion</i> , 2015, 55, 043021.	3.5	8
284	Characterization of a diamond detector to be used as neutron yield monitor during the in-vessel calibration of JET neutron detectors in preparation of the DT experiment. <i>Fusion Engineering and Design</i> , 2016, 106, 93-98.	1.9	8
285	The near infrared imaging system for the real-time protection of the JET ITER-like wall. <i>Physica Scripta</i> , 2017, T170, 014027.	2.5	8
286	Characterization of a compact $\text{LaBr}_3(\text{Ce})$ detector with Silicon photomultipliers at high 14 MeV neutron fluxes. <i>Journal of Instrumentation</i> , 2017, 12, C10007-C10007.	1.2	8
287	On the universality of power laws for tokamak plasma predictions. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 025028.	2.1	8
288	On the role of finite grid extent in SOLPS-ITER edge plasma simulations for JET H-mode discharges with metallic wall. <i>Nuclear Materials and Energy</i> , 2018, 17, 174-181.	1.3	8

#	ARTICLE	IF	CITATIONS
289	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. Fusion Engineering and Design, 2019, 138, 254-266.	1.9	8
290	An assessment of nitrogen concentrations from spectroscopic measurements in the JET and ASDEX upgrade divertor. Nuclear Materials and Energy, 2019, 18, 147-152.	1.3	8
291	Effect of magnetic perturbations for ELM control on divertor power loads, detachment and consequences of field penetration in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2019, 61, 014008.	2.1	8
292	SOLPS-ITER modeling of ASDEX Upgrade L-mode detachment states. Plasma Physics and Controlled Fusion, 2021, 63, 105005.	2.1	8
293	Near- and far scrape-off layer transport studies in detached, small-ELM ASDEX Upgrade discharges by means of EMC3-EIRENE. Plasma Physics and Controlled Fusion, 2020, 62, 105016.	2.1	8
294	Experimental investigation of L- and H-mode detachment via the divertor Thomson scattering at ASDEX Upgrade. Nuclear Fusion, 2022, 62, 066027.	3.5	8
295	Radiation distributions in TCV. Journal of Nuclear Materials, 2007, 363-365, 1104-1109.	2.7	7
296	Outer divertor of ASDEX Upgrade in low-density L-mode discharges in forward and reversed magnetic field: II. Analysis of local impurity migration. Nuclear Fusion, 2012, 52, 103007.	3.5	7
297	Turbulent transport analysis of JET H-mode and hybrid plasmas using QuaLiKiz and Trapped Gyro Landau Fluid. Plasma Physics and Controlled Fusion, 2015, 57, 035003.	2.1	7
298	Edge profile analysis of Joint European Torus (JET) Thomson scattering data: Quantifying the systematic error due to edge localised mode synchronisation. Review of Scientific Instruments, 2016, 87, 013507.	1.3	7
299	Real-time control of ELM and sawtooth frequencies: similarities and differences. Nuclear Fusion, 2016, 56, 016008.	3.5	7
300	JET experience on managing radioactive waste and implications for ITER. Fusion Engineering and Design, 2016, 109-111, 979-985.	1.9	7
301	Advances in understanding and utilising ELM control in JET. Plasma Physics and Controlled Fusion, 2016, 58, 014017.	2.1	7
302	Expanding the role of impurity spectroscopy for investigating the physics of high-Z dissipative divertors. Nuclear Materials and Energy, 2017, 12, 91-99.	1.3	7
303	Main chamber wall plasma loads in JET-ITER-like wall at high radiated fraction. Nuclear Materials and Energy, 2017, 12, 234-240.	1.3	7
304	Real time control developments at JET in preparation for deuterium-tritium operation. Fusion Engineering and Design, 2017, 123, 535-540.	1.9	7
305	Synthetic neutron camera and spectrometer in JET based on AFSI-ASCOT simulations. Journal of Instrumentation, 2017, 12, C09010-C09010.	1.2	7
306	Molecular ND Band Spectroscopy in the Divertor Region of Nitrogen Seeded JET Discharges. Journal of Physics: Conference Series, 2018, 959, 012009.	0.4	7

#	ARTICLE	IF	CITATIONS
307	Improved neutron activation dosimetry for fusion. Fusion Engineering and Design, 2019, 139, 109-114.	1.9	7
308	Experimental verification of X-point potential well formation in unfavorable magnetic field direction. Nuclear Materials and Energy, 2020, 25, 100839.	1.3	7
309	Self-sustained divertor oscillations in ASDEX Upgrade. Nuclear Fusion, 2020, 60, 076013.	3.5	7
310	The operational space for divertor power exhaust in DEMO with a super-X divertor. Nuclear Fusion, 2021, 61, 076007.	3.5	7
311	Modelling of $^{13}\text{CH}_4$ injection and local carbon deposition at the outer divertor of ASDEX Upgrade. Physica Scripta, 2009, T138, 014019.	2.5	7
312	Modelling of Carbon Transport in the Outer Divertor Plasma of ASDEX Upgrade. Contributions To Plasma Physics, 2010, 50, 439-444.	1.1	6
313	Comparative analysis of core heat transport of JET high density H-mode plasmas in carbon wall and ITER-like wall. Plasma Physics and Controlled Fusion, 2015, 57, 065002.	2.1	6
314	Integrated core "SOL" divertor modelling for ITER including impurity: effect of tungsten on fusion performance in H-mode and hybrid scenario. Nuclear Fusion, 2015, 55, 053032.	3.5	6
315	Simulating the nitrogen migration in Be/W tokamaks with WallDYN. Physica Scripta, 2016, T167, 014079.	2.5	6
316	Sparse representation of signals: from astrophysics to real-time data analysis for fusion plasmas and system optimization analysis for ITER and TCV. Plasma Physics and Controlled Fusion, 2016, 58, 123001.	2.1	6
317	Evaluation of reconstruction errors and identification of artefacts for JET gamma and neutron tomography. Review of Scientific Instruments, 2016, 87, 013502.	1.3	6
318	COREDIV and SOLPS Numerical Simulations of the Nitrogen Seeded JET ILW L-mode Discharges. Contributions To Plasma Physics, 2016, 56, 760-765.	1.1	6
319	Effect of PFC Recycling Conditions on JET Pedestal Density. Contributions To Plasma Physics, 2016, 56, 754-759.	1.1	6
320	Global optimization driven by genetic algorithms for disruption predictors based on APODIS architecture. Fusion Engineering and Design, 2016, 112, 1014-1018.	1.9	6
321	Investigation on the erosion/deposition processes in the ITER-like wall divertor at JET using glow discharge optical emission spectrometry technique. Physica Scripta, 2016, T167, 014049.	2.5	6
322	Impact of the JET ITER-like wall on H-mode plasma fueling. Nuclear Fusion, 2017, 57, 066024.	3.5	6
323	The effect of lower hybrid waves on JET plasma rotation. Nuclear Fusion, 2017, 57, 034002.	3.5	6
324	Evaluation of the plasma hydrogen isotope content by residual gas analysis at JET and AUG. Physica Scripta, 2017, T170, 014021.	2.5	6

#	ARTICLE	IF	CITATIONS
325	Quartz micro-balance results of pulse-resolved erosion/deposition in the JET-ILW divertor. Nuclear Materials and Energy, 2017, 12, 478-482.	1.3	6
326	Analysis of activation and damage of ITER material samples expected from DD/DT campaign at JET. Fusion Engineering and Design, 2017, 125, 307-313.	1.9	6
327	Impurity re-distribution in the corner regions of the JET divertor. Physica Scripta, 2017, T170, 014060.	2.5	6
328	Self-consistent coupling of DSMC method and SOLPS code for modeling tokamak particle exhaust. Nuclear Fusion, 2017, 57, 066037.	3.5	6
329	ELM-induced cold pulse propagation in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2019, 61, 045003.	2.1	6
330	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
331	Tritium analysis of divertor tiles used in JET ITER-like wall campaigns by means of $\langle i \rangle^2$ -ray induced x-ray spectrometry. Physica Scripta, 2017, T170, 014014.	2.5	6
332	Time-resolved deposition in the remote region of the JET-ILW divertor: measurements and modelling. Physica Scripta, 2017, T170, 014059.	2.5	6
333	Plasma physics and control studies planned in JT-60SA for ITER and DEMO operations and risk mitigation. Plasma Physics and Controlled Fusion, 2022, 64, 054004.	2.1	6
334	ECH physics and new operational regimes on TCV. Plasma Physics and Controlled Fusion, 2002, 44, B85-B97.	2.1	5
335	The merits of ion cyclotron resonance heating schemes for sawtooth control in tokamak plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	5
336	Core fusion power gain and alpha heating in JET, TFTR, and ITER. Nuclear Fusion, 2016, 56, 056002.	3.5	5
337	Neutronic analysis of JET external neutron monitor response. Fusion Engineering and Design, 2016, 109-111, 99-103.	1.9	5
338	The non-thermal origin of the tokamak low-density stability limit. Nuclear Fusion, 2016, 56, 056010.	3.5	5
339	Plasma turbulence measured with fast frequency swept reflectometry in JET H-mode plasmas. Nuclear Fusion, 2016, 56, 126019.	3.5	5
340	Generation of the neutron response function of an NE213 scintillator for fusion applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 866, 222-229.	1.6	5
341	Development of MPPC-based detectors for high count rate DT campaigns at JET. Fusion Engineering and Design, 2017, 123, 940-944.	1.9	5
342	Determination of the stochastic layer properties induced by magnetic perturbations via heat pulse experiments at ASDEX upgrade. Nuclear Materials and Energy, 2017, 12, 831-837.	1.3	5

#	ARTICLE	IF	CITATIONS
343	Plasma-wall interaction on the divertor tiles of JET ITER-like wall from the viewpoint of micro/nanosopic observations. Fusion Engineering and Design, 2018, 136, 199-204.	1.9	5
344	Application of the Denovo Discrete Ordinates Radiation Transport Code to Large-Scale Fusion Neutronics. Fusion Science and Technology, 2018, 74, 303-314.	1.1	5
345	Scaling of the geodesic acoustic mode amplitude on JET. Plasma Physics and Controlled Fusion, 2018, 60, 085006.	2.1	5
346	2D and 3D studies of the X-divertor configuration in the future upper divertor of ASDEX upgrade. Nuclear Materials and Energy, 2019, 19, 107-112.	1.3	5
347	Impact of drifts in the ASDEX upgrade upper open divertor using SOLPS-ITER. Contributions To Plasma Physics, 2020, 60, e201900166.	1.1	5
348	Assessment of Scrape-Off Layer and divertor plasma conditions in JT-60SA with tungsten wall and nitrogen injection. Nuclear Materials and Energy, 2021, 26, 100895.	1.3	5
349	The global build-up to intrinsic edge localized mode bursts seen in divertor full flux loops in JET. Physics of Plasmas, 2015, 22, .	1.9	4
350	Scaling of the frequencies of the type one edge localized modes and their effect on the tungsten source in JET ITER-like wall. Plasma Physics and Controlled Fusion, 2016, 58, 125014.	2.1	4
351	Stabilization of sawteeth with third harmonic deuterium ICRF-accelerated beam in JET plasmas. Physics of Plasmas, 2016, 23, 012505.	1.9	4
352	Risk Mitigation for ITER by a Prolonged and Joint International Operation of JET. Journal of Fusion Energy, 2016, 35, 85-93.	1.2	4
353	CeBr ₃ -based detector for gamma-ray spectrometer upgrade at JET. Fusion Engineering and Design, 2017, 123, 986-989.	1.9	4
354	Determining the prediction limits of models and classifiers with applications for disruption prediction in JET. Nuclear Fusion, 2017, 57, 016024.	3.5	4
355	Investigation of sustainable high-Î ² scenarios in the JT-60SA C-wall. Nuclear Fusion, 2017, 57, 116010.	3.5	4
356	Synthetic NPA diagnostic for energetic particles in JET plasmas. Journal of Instrumentation, 2017, 12, C11025-C11025.	1.2	4
357	Application of the VUV and the soft x-ray systems on JET for the study of intrinsic impurity behavior in neon seeded hybrid discharges. Review of Scientific Instruments, 2018, 89, 10D131.	1.3	4
358	Interpretative and predictive modelling of Joint European Torus collisionality scans. Plasma Physics and Controlled Fusion, 2019, 61, 115004.	2.1	4
359	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
360	COREDIV numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to JET-ILW DT experiments. Nuclear Fusion, 2019, 59, 056026.	3.5	4

#	ARTICLE	IF	CITATIONS
361	Study of detachment in future ASDEX Upgrade alternative divertor configurations by means of EMC3-EIRENE. Nuclear Materials and Energy, 2021, 26, 100950.	1.3	4
362	Predictions of radiation pattern and in-out asymmetries in the DEMO scrape-off layer using fluid neutrals. Nuclear Fusion, 2022, 62, 056015.	3.5	4
363	Progress in Edge Plasma Transport Modeling on JET. Contributions To Plasma Physics, 2008, 48, 190-195.	1.1	3
364	Free boundary equilibrium in 3D tokamaks with toroidal rotation. Nuclear Fusion, 2015, 55, 063032.	3.5	3
365	Comparative gyrokinetic analysis of JET baseline H-mode core plasmas with carbon wall and ITER-like wall. Plasma Physics and Controlled Fusion, 2016, 58, 045021.	2.1	3
366	Numerical calculations of non-inductive current driven by microwaves in JET. Plasma Physics and Controlled Fusion, 2016, 58, 125001.	2.1	3
367	JET Tokamak, preparation of a safety case for tritium operations. Fusion Engineering and Design, 2016, 109-111, 1308-1312.	1.9	3
368	Modelling of the JET DT Experiments in Carbon and ITER-like Wall Configurations. Contributions To Plasma Physics, 2016, 56, 766-771.	1.1	3
369	Modeling of argon seeding in ASDEX Upgrade H-mode plasma with SOLPS5.0. Nuclear Materials and Energy, 2017, 12, 1146-1151.	1.3	3
370	EDGE2D-EIRENE simulations of the impact of poloidal flux expansion on the radiative divertor performance in JET. Nuclear Materials and Energy, 2017, 12, 786-790.	1.3	3
371	Intra-ELM tungsten sputtering in JET ITER-like wall: analytical studies of Be impurity and ELM type influence. Physica Scripta, 2017, T170, 014065.	2.5	3
372	Escaping alpha-particle monitor for burning plasmas. Nuclear Fusion, 2018, 58, 082009.	3.5	3
373	Alpha heating, isotopic mass, and fast ion effects in deuterium-tritium experiments. Nuclear Fusion, 2018, 58, 096011.	3.5	3
374	Impact of fast ions on density peaking in JET: fluid and gyrokinetic modeling. Plasma Physics and Controlled Fusion, 2019, 61, 075008.	2.1	3
375	Radial variation of heat transport in L-mode JET discharges. Nuclear Fusion, 2019, 59, 056006.	3.5	3
376	Analysis of the outer divertor hot spot activity in the protection video camera recordings at JET. Fusion Engineering and Design, 2019, 139, 115-123.	1.9	3
377	Divertor modelling of septum assessment experiments in JET MkII GB. Contributions To Plasma Physics, 2004, 44, 241-246.	1.1	2
378	Studies of the non-axisymmetric plasma boundary displacement in JET in presence of externally applied magnetic field. Plasma Physics and Controlled Fusion, 2015, 57, 104003.	2.1	2

#	ARTICLE	IF	CITATIONS
379	A generalized Abel inversion method for gamma-ray imaging of thermonuclear plasmas. Journal of Instrumentation, 2016, 11, C03001-C03001.	1.2	2
380	Thermo-mechanical properties of W/Mo markers coatings deposited on bulk W. Physica Scripta, 2016, T167, 014028.	2.5	2
381	Modelling of plasma-edge and plasma-wall interaction physics at JET with the metallic first-wall. Physica Scripta, 2016, T167, 014078.	2.5	2
382	Towards self-consistent plasma modelisation in presence of neoclassical tearing mode and sawteeth: effects on transport coefficients. Plasma Physics and Controlled Fusion, 2017, 59, 125012.	2.1	2
383	Gyrokinetic simulations of particle transport in pellet fuelled JET discharges. Plasma Physics and Controlled Fusion, 2017, 59, 105005.	2.1	2
384	Dynamic power balance analysis in JET. Physica Scripta, 2017, T170, 014035.	2.5	2
385	Novel method for determination of tritium depth profiles in metallic samples. Nuclear Fusion, 2019, 59, 106006.	3.5	2
386	Effect of magnetic perturbation fields on power decay length in EMC3-EIRENE simulations and comparison to experiment in ASDEX upgrade. Nuclear Materials and Energy, 2019, 19, 205-210.	1.3	2
387	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
388	Summary of the 3rd IAEA technical meeting on divertor concepts. Nuclear Fusion, 2020, 60, 097001.	3.5	2
389	Comparison of SOLPS5.0 and SOLPS-ITER simulations for ASDEX upgrade L-mode. Contributions To Plasma Physics, 2020, 60, e201900120.	1.1	2
390	Towards assessment of plasma edge transport in Neon seeded plasmas in disconnected double null configuration in EAST with SOLPS-ITER. Nuclear Materials and Energy, 2021, 26, 100926.	1.3	2
391	Parameter dependencies of the experimental nitrogen concentration required for detachment on ASDEX Upgrade and JET. Nuclear Materials and Energy, 2021, 28, 101000.	1.3	2
392	X-ray micro-laminography for the <i>ex situ</i> analysis of W-CFC samples retrieved from JET ITER-like wall. Physica Scripta, 2016, T167, 014050.	2.5	1
393	Classification of ELM types in Joint European Torus based on global plasma parameters using discriminant analysis. Fusion Engineering and Design, 2017, 123, 717-721.	1.9	1
394	Population modelling of the He II energy levels in tokamak plasmas: I. Collisional excitation model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 045001.	1.5	1
395	Micro ion beam analysis for the erosion of beryllium marker tiles in a tokamak limiter. Nuclear Instruments & Methods in Physics Research B, 2019, 450, 200-204.	1.4	1
396	On determining the prediction limits of mathematical models for time series. Journal of Instrumentation, 2016, 11, C07013-C07013.	1.2	1

#	ARTICLE	IF	CITATIONS
397	Pressure balance between midplane and inner and outer divertor in ASDEX Upgrade H-mode discharges. Journal of Nuclear Materials, 2009, 390-391, 278-281.	2.7	0
398	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
399	Classification of JET Neutron and Gamma Emissivity Profiles. Journal of Instrumentation, 2016, 11, C05021-C05021.	1.2	0
400	MHD marking using the MSE polarimeter optics in ILW JET plasmas. Review of Scientific Instruments, 2016, 87, 11E556.	1.3	0
401	Characteristics of pre-ELM structures during ELM control experiment on JET with $n=2$ magnetic perturbations. Nuclear Fusion, 2016, 56, 092011.	3.5	0
402	Propagating transport-code input parameter uncertainties with deterministic sampling. Plasma Physics and Controlled Fusion, 2018, 60, 125010.	2.1	0
403	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. Journal of Instrumentation, 2019, 14, C09018-C09018.	1.2	0