Soare Sorin

List of Publications by Year
in descending order

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374 papers	7,340 citations	71102 41 h-index	144013 57 g-index
376 all docs	376 docs citations	376 times ranked	3236 citing authors

#	Article	IF	Citations
1	Obtaining mechanical parameters for metallisation stress sensor design using nanoindentation. International Journal of Materials Research, 2022, 96, 1262-1266.	0.3	3
2	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
3	A new tangential gamma-ray spectrometer for fast ion measurements in deuterium and deuteriumâ€“tritium plasmas of the Joint European Torus. Review of Scientific Instruments, 2021, 92, 043537.	1.3	11
4	Advances in the physics studies for the JT-60SA tokamak exploitation and research plan. Plasma Physics and Controlled Fusion, 2020, 62, 014009.	2.1	18
5	Conceptual design of JT-60SA edge Thomson scattering diagnostic. Journal of Instrumentation, 2020, 15, C01011-C01011.	1.2	4
6	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. Plasma Physics and Controlled Fusion, 2019, 61, 014027.	2.1	23
7	Novel method for determination of tritium depth profiles in metallic samples. Nuclear Fusion, 2019, 59, 106006.	3.5	2
8	A power-balance model of the density limit in fusion plasmas: application to the L-mode tokamak. Nuclear Fusion, 2019, 59, 126011.	3.5	15
9	Modification of the AlfvÃ©n wave spectrum by pellet injection. Nuclear Fusion, 2019, 59, 106031.	3.5	3
10	A new mechanism for increasing density peaking in tokamaks: improvement of the inward particle pinch with edge E Ã— B shearing. Plasma Physics and Controlled Fusion, 2019, 61, 104002.	2.1	12
11	Ion cyclotron resonance heating scenarios for DEMO. Nuclear Fusion, 2019, 59, 106051.	3.5	14
12	Erosion, screening, and migration of tungsten in the JET divertor. Nuclear Fusion, 2019, 59, 096035.	3.5	60
13	Role of fast ion pressure in the isotope effect in JET L-mode plasmas. Nuclear Fusion, 2019, 59, 096030.	3.5	22
14	EDGE2D-EIRENE simulations of the influence of isotope effects and anomalous transport coefficients on near scrape-off layer radial electric field. Plasma Physics and Controlled Fusion, 2019, 61, 075010.	2.1	11
15	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. Nuclear Fusion, 2019, 59, 086047.	3.5	36
16	Control of the hydrogen:deuterium isotope mixture using pellets in JET. Nuclear Fusion, 2019, 59, 106047.	3.5	6
17	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. Journal of Instrumentation, 2019, 14, C09018-C09018.	1.2	0
18	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. Physics of Plasmas, 2019, 26, .	1.9	26

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19	Interpretative and predictive modelling of Joint European Torus collisionality scans. Plasma Physics and Controlled Fusion, 2019, 61, 115004.	2.1	4
20	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using â€˜fingerprintsâ€™. Nuclear Fusion, 2019, 59, 096001.	3.5	76
21	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. Nuclear Fusion, 2019, 59, 106017.	3.5	36
22	Determination of isotope ratio in the divertor of JET-ILW by high-resolution HÎ± spectroscopy: Hâ€“D experiment and implications for Dâ€“T experiment. Nuclear Fusion, 2019, 59, 046011.	3.5	23
23	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. Nuclear Materials and Energy, 2019, 18, 239-244.	1.3	24
24	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. Fusion Engineering and Design, 2019, 138, 254-266.	1.9	8
25	The software and hardware architecture of the real-time protection of in-vessel components in JET-ILW. Nuclear Fusion, 2019, 59, 076016.	3.5	9
26	Impact of fast ions on density peaking in JET: fluid and gyrokinetic modeling. Plasma Physics and Controlled Fusion, 2019, 61, 075008.	2.1	3
27	Geodesic acoustic mode evolution in L-mode approaching the Lâ€“H transition on JET. Plasma Physics and Controlled Fusion, 2019, 61, 075007.	2.1	6
28	Multiphysics approach to plasma neutron source modelling at the JET tokamak. Nuclear Fusion, 2019, 59, 096020.	3.5	12
29	Dynamic modelling of local fuel inventory and desorption in the whole tokamak vacuum vessel for auto-consistent plasma-wall interaction simulations. Nuclear Materials and Energy, 2019, 19, 550-557.	1.3	12
30	Energetic ion losses â€˜channelingâ€™ mechanism and strategy for mitigation. Plasma Physics and Controlled Fusion, 2019, 61, 084008.	2.1	1
31	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. Nuclear Materials and Energy, 2019, 18, 331-338.	1.3	36
32	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. Journal of Instrumentation, 2019, 14, C05019-C05019.	1.2	12
33	Modelling of the effect of ELMs on fuel retention at the bulk W divertor of JET. Nuclear Materials and Energy, 2019, 19, 397-402.	1.3	7
34	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
35	Comparison of the structure of the plasma-facing surface and tritium accumulation in beryllium tiles from JET ILW campaigns 2011â€“2012 and 2013â€“2014. Nuclear Materials and Energy, 2019, 19, 131-136.	1.3	7
36	RF sheath modeling of experimentally observed plasma surface interactions with the JET ITER-Like Antenna. Nuclear Materials and Energy, 2019, 19, 324-329.	1.3	5

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37	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
38	Beryllium melting and erosion on the upper dump plates in JET during three ITER-like wall campaigns. Nuclear Fusion, 2019, 59, 086009.	3.5	45
39	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET-ILW and PISCES-B experience. Nuclear Materials and Energy, 2019, 19, 510-515.	1.3	15
40	Adaptive learning for disruption prediction in non-stationary conditions. Nuclear Fusion, 2019, 59, 086037.	3.5	27
41	On a fusion born triton effect in JET deuterium discharges with H-minority ion cyclotron range of frequencies heating. Nuclear Fusion, 2019, 59, 064001.	3.5	4
42	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
43	The effect of beryllium oxide on retention in JET ITER-like wall tiles. Nuclear Materials and Energy, 2019, 19, 346-351.	1.3	15
44	Deposition of impurity metals during campaigns with the JET ITER-like Wall. Nuclear Materials and Energy, 2019, 19, 218-224.	1.3	23
45	Investigation of deuterium trapping and release in the JET ITER-like wall divertor using TDS and TMAP. Nuclear Materials and Energy, 2019, 19, 166-178.	1.3	18
46	Investigation of deuterium trapping and release in the JET divertor during the third ILW campaign using TDS. Nuclear Materials and Energy, 2019, 19, 300-306.	1.3	11
47	First mirror test in JET for ITER: Complete overview after three ILW campaigns. Nuclear Materials and Energy, 2019, 19, 59-66.	1.3	24
48	Tritium distributions on W-coated divertor tiles used in the third JET ITER-like wall campaign. Nuclear Materials and Energy, 2019, 18, 258-261.	1.3	10
49	Fast ion synergistic effects in JET high performance pulses. Nuclear Fusion, 2019, 59, 056005.	3.5	15
50	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. Nuclear Fusion, 2019, 59, 056007.	3.5	39
51	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
52	Approximate analytic expressions using Stokes model for tokamak polarimetry and their range of validity. Plasma Physics and Controlled Fusion, 2019, 61, 055008.	2.1	5
53	Radial variation of heat transport in L-mode JET discharges. Nuclear Fusion, 2019, 59, 056006.	3.5	3
54	Long-lived coupled peeling ballooning modes preceding ELMs on JET. Nuclear Fusion, 2019, 59, 056004.	3.5	11

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55	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
56	Impact of ICRF on the scrape-off layer and on plasma wall interactions: From present experiments to fusion reactor. Nuclear Materials and Energy, 2019, 18, 131-140.	1.3	34
57	Gyrokinetic simulations of toroidal AlfvÃ©n eigenmodes excited by energetic ions and external antennas on the Joint European Torus. Nuclear Fusion, 2019, 59, 026008.	3.5	7
58	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. Journal of Nuclear Materials, 2019, 516, 202-213.	2.7	18
59	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
60	Determination of tungsten sources in the JET-ILW divertor by spectroscopic imaging in the presence of a strong plasma continuum. Nuclear Materials and Energy, 2019, 18, 118-124.	1.3	16
61	Improved neutron activation dosimetry for fusion. Fusion Engineering and Design, 2019, 139, 109-114.	1.9	7
62	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. Nuclear Fusion, 2019, 59, 016004.	3.5	9
63	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
64	Testing of tritium breeder blanket activation foil spectrometer during JET operations. Fusion Engineering and Design, 2018, 136, 258-264.	1.9	7
65	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. Nuclear Fusion, 2018, 58, 056002.	3.5	44
66	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. Nuclear Fusion, 2018, 58, 082005.	3.5	34
67	Characterisation of neutron generators and monitoring detectors for the in-vessel calibration of JET. Fusion Engineering and Design, 2018, 136, 233-238.	1.9	5
68	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. Nuclear Fusion, 2018, 58, 026019.	3.5	20
69	Sub-millisecond electron density profile measurement at the JET tokamak with the fast lithium beam emission spectroscopy system. Review of Scientific Instruments, 2018, 89, 043509.	1.3	14
70	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. Physics of Plasmas, 2018, 25, .	1.9	29
71	MHD spectroscopy of JET plasmas with pellets via AlfvÃ©n eigenmodes. Nuclear Fusion, 2018, 58, 082008.	3.5	7
72	Divertor currents optimization procedure for JET-ILW high flux expansion experiments. Fusion Engineering and Design, 2018, 129, 115-119.	1.9	1

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73	A multi-machine scaling of halo current rotation. Nuclear Fusion, 2018, 58, 016050.	3.5	18
74	Plasma-wall interaction on the divertor tiles of JET ITER-like wall from the viewpoint of micro/nanoscopic observations. Fusion Engineering and Design, 2018, 136, 199-204.	1.9	5
75	High fusion performance at highT_i/T_ein JET-ILW baseline plasmas with high NBI heating power and low gas puffing. Nuclear Fusion, 2018, 58, 036020.	3.5	23
76	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. Nuclear Fusion, 2018, 58, 034001.	3.5	57
77	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuteriumâ€“tritium fusion plasma diagnostics. Measurement Science and Technology, 2018, 29, 045502.	2.6	35
78	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. Nuclear Fusion, 2018, 58, 016023.	3.5	17
79	14 MeV calibration of JET neutron detectorsâ€”phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
80	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. Nuclear Fusion, 2018, 58, 016046.	3.5	9
81	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. Physical Review A, 2018, 97, .	2.5	17
82	Bayesian Integrated Data Analysis of Fast-Ion Measurements by Velocity-Space Tomography. Fusion Science and Technology, 2018, 74, 23-36.	1.1	15
83	Modelling of the neutron production in a mixed beam DT neutron generator. Fusion Engineering and Design, 2018, 136, 1089-1093.	1.9	9
84	Analysis of possible improvement of the plasma performance in JET due to the inward spatial channelling of fast-ion energy. Nuclear Fusion, 2018, 58, 076012.	3.5	8
85	Isotope effects on L-H threshold and confinement in tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014045.	2.1	98
86	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
87	Dust generation in tokamaks: Overview of beryllium and tungsten dust characterisation in JET with the ITER-like wall. Fusion Engineering and Design, 2018, 136, 579-586.	1.9	52
88	Experimental validation of an analytical kinetic model for edge-localized modes in JET-ITER-like wall. Nuclear Fusion, 2018, 58, 066006.	3.5	20
89	ICRH antennaS-matrix measurements and plasma coupling characterisation at JET. Nuclear Fusion, 2018, 58, 046012.	3.5	5
90	First observation of the depolarization of Thomson scattering radiation by a fusion plasma. Nuclear Fusion, 2018, 58, 044003.	3.5	0

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91	Escaping alpha-particle monitor for burning plasmas. Nuclear Fusion, 2018, 58, 082009.	3.5	3
92	Nonlinear dynamic analysis of DÎ±signals for type I edge localized modes characterization on JET with a carbon wall. Plasma Physics and Controlled Fusion, 2018, 60, 025010.	2.1	3
93	Test particles dynamics in the JOREK 3D non-linear MHD code and application to electron transport in a disruption simulation. Nuclear Fusion, 2018, 58, 016043.	3.5	26
94	Analysis of ELM stability with extended MHD models in JET, JT-60U and future JT-60SA tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014032.	2.1	17
95	Pedestal evolution physics in low triangularity JET tokamak discharges with ITER-like wall. Nuclear Fusion, 2018, 58, 016021.	3.5	14
96	On the universality of power laws for tokamak plasma predictions. Plasma Physics and Controlled Fusion, 2018, 60, 025028.	2.1	8
97	Comparison of runaway electron generation parameters in small, medium-sized and large tokamaksâ€”A survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET. Nuclear Fusion, 2018, 58, 016014.	3.5	12
98	Identification of BeO and BeOxDy in melted zones of the JET Be limiter tiles: Raman study using comparison with laboratory samples. Nuclear Materials and Energy, 2018, 17, 295-301.	1.3	20
99	On the Use of Transfer Entropy to Investigate the Time Horizon of Causal Influences between Signals. Entropy, 2018, 20, 627.	2.2	14
100	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. Nuclear Fusion, 2018, 58, 106034.	3.5	6
101	Tritium retention characteristics in dust particles in JET with ITER-like wall. Nuclear Materials and Energy, 2018, 17, 279-283.	1.3	20
102	Shutdown dose rate measurements after the 2016 Deuterium-Deuterium campaign at JET. Fusion Engineering and Design, 2018, 136, 1348-1353.	1.9	5
103	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
104	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
105	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
106	On the role of finite grid extent in SOLPS-ITER edge plasma simulations for JET H-mode discharges with metallic wall. Nuclear Materials and Energy, 2018, 17, 174-181.	1.3	8
107	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. Nuclear Fusion, 2018, 58, 026028.	3.5	17
108	Assessment of the baseline scenario atq₉₅~ 3 for ITER. Nuclear Fusion, 2018, 58, 126010.	3.5	26

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109	Heat flux analysis of Type-I ELM impact on a sloped, protruding surface in the JET bulk tungsten divertor. Nuclear Materials and Energy, 2018, 17, 182-187.	1.3	3
110	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
111	OVERVIEW OF NEUTRON MEASUREMENTS IN JET FUSION DEVICE. Radiation Protection Dosimetry, 2018, 180, 102-108.	0.8	3
112	Propagating transport-code input parameter uncertainties with deterministic sampling. Plasma Physics and Controlled Fusion, 2018, 60, 125010.	2.1	0
113	Synthetic spectra of BeH, BeD and BeT for emission modeling in JET plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 185701.	1.5	17
114	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. Plasma Physics and Controlled Fusion, 2018, 60, 115011.	2.1	12
115	First principles of modelling the stabilization of microturbulence by fast ions. Nuclear Fusion, 2018, 58, 082024.	3.5	22
116	Inter-ELM evolution of the edge current density in JET-ILW type I ELMy H-mode plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 085003.	2.1	4
117	Impact of electron-scale turbulence and multi-scale interactions in the JET tokamak. Nuclear Fusion, 2018, 58, 124003.	3.5	23
118	Equilibrium reconstruction at JET using Stokes model for polarimetry. Nuclear Fusion, 2018, 58, 106032.	3.5	20
119	Shutdown dose rate neutronics experiment during high performances DD operations at JET. Fusion Engineering and Design, 2018, 136, 1545-1549.	1.9	5
120	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. Nuclear Fusion, 2018, 58, 076022.	3.5	20
121	Analysis of plasma termination in the JET hybrid scenario. Nuclear Fusion, 2018, 58, 076027.	3.5	9
122	Maximum likelihood bolometric tomography for the determination of the uncertainties in the radiation emission on JET TOKAMAK. Review of Scientific Instruments, 2018, 89, 053504.	1.3	25
123	Activation material selection for multiple foil activation detectors in JET TT campaign. Fusion Engineering and Design, 2018, 136, 988-992.	1.9	3
124	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. Nuclear Fusion, 2018, 58, 076028.	3.5	33
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	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. Nuclear Fusion, 2018, 58, 096029.	3.5	19

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127	Feasibility of a far infrared laser based polarimeter diagnostic system for the JT-60SA fusion experiment. Plasma Physics and Controlled Fusion, 2018, 60, 075016.	2.1	3
128	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
129	TLD calibration for neutron fluence measurements at JET fusion facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 202-213.	1.6	7
130	Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. Nuclear Fusion, 2018, 58, 096013.	3.5	17
131	Correlation of surface chemical states with hydrogen isotope retention in divertor tiles of JET with ITER-Like Wall. Fusion Engineering and Design, 2018, 132, 24-28.	1.9	15
132	Integrated modelling of H-mode pedestal and confinement in JET-ILW. Plasma Physics and Controlled Fusion, 2018, 60, 014042.	2.1	40
133	14 MeV calibration of JET neutron detectorsâ€"phase 2: in-vessel calibration. Nuclear Fusion, 2018, 58, 106016.	3.5	20
134	Real-time protection of the JET ITER-like wall based on near infrared imaging diagnostic systems. Nuclear Fusion, 2018, 58, 106021.	3.5	14
135	Electron acceleration in a JET disruption simulation. Nuclear Fusion, 2018, 58, 106022.	3.5	21
136	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. Nuclear Fusion, 2018, 58, 106037.	3.5	29
137	Observations and modelling of ion cyclotron emission observed in JET plasmas using a sub-harmonic arc detection system during ion cyclotron resonance heating. Nuclear Fusion, 2018, 58, 096020.	3.5	14
138	Scaling of the geodesic acoustic mode amplitude on JET. Plasma Physics and Controlled Fusion, 2018, 60, 085006.	2.1	5
139	First principle integrated modeling of multi-channel transport including Tungsten in JET. Nuclear Fusion, 2018, 58, 096003.	3.5	22
140	Alpha heating, isotopic mass, and fast ion effects in deuteriumâ€"tritium experiments. Nuclear Fusion, 2018, 58, 096011.	3.5	3
141	On the mechanisms governing gas penetration into a tokamak plasma during a massive gas injection. Nuclear Fusion, 2017, 57, 016027.	3.5	8
142	Calculations to support JET neutron yield calibration: Modelling of neutron emission from a compact DT neutron generator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 847, 199-204.	1.6	12
143	High power neon seeded JET discharges: Experiments and simulations. Nuclear Materials and Energy, 2017, 12, 882-886.	1.3	13
144	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

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145	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
146	Energy balance in JET. Nuclear Materials and Energy, 2017, 12, 227-233.	1.3	18
147	Possible influence of near SOL plasma on the H-mode power threshold. Nuclear Materials and Energy, 2017, 12, 273-277.	1.3	16
148	Progress in reducing ICRF-specific impurity release in ASDEX upgrade and JET. Nuclear Materials and Energy, 2017, 12, 1194-1198.	1.3	11
149	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
150	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
151	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
152	Plasma impact on diagnostic mirrors in JET. Nuclear Materials and Energy, 2017, 12, 506-512.	1.3	25
153	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
154	ITER oriented neutronics benchmark experiments on neutron streaming and shutdown dose rate at JET. Fusion Engineering and Design, 2017, 123, 171-176.	1.9	20
155	Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. Nuclear Fusion, 2017, 57, 076006.	3.5	25
156	Plasma edge and plasma-wall interaction modelling: Lessons learned from metallic devices. Nuclear Materials and Energy, 2017, 12, 3-17.	1.3	17
157	Impact of the JET ITER-like wall on H-mode plasma fueling. Nuclear Fusion, 2017, 57, 066024.	3.5	6
158	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
159	Correlation analysis for energy losses, waiting times and durations of type I edge-localized modes in the Joint European Torus. Nuclear Fusion, 2017, 57, 036026.	3.5	3
160	Thermal analysis of protruding surfaces in the JET divertor. Nuclear Fusion, 2017, 57, 066009.	3.5	1
161	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. Plasma Physics and Controlled Fusion, 2017, 59, 055001.	2.1	32
162	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments. Fusion Engineering and Design, 2017, 123, 749-753.	1.9	11

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163	The effect of the isotope on the H-mode density limit. Nuclear Fusion, 2017, 57, 086007.	3.5	9
164	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
165	Technical preparations for the in-vessel 14 MeV neutron calibration at JET. Fusion Engineering and Design, 2017, 117, 107-114.	1.9	10
166	The preparation of the Shutdown Dose Rate experiment for the next JET Deuterium-Tritium campaign. Fusion Engineering and Design, 2017, 123, 1039-1043.	1.9	7
167	Status of ITER material activation experiments at JET. Fusion Engineering and Design, 2017, 124, 1150-1155.	1.9	10
168	CeBr3â€“based detector for gamma-ray spectrometer upgrade at JET. Fusion Engineering and Design, 2017, 123, 986-989.	1.9	4
169	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
170	Overview of the JET ITER-like wall divertor. Nuclear Materials and Energy, 2017, 12, 499-505.	1.3	46
171	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. Nuclear Materials and Energy, 2017, 12, 111-118.	1.3	92
172	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
173	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
174	3D simulations of gas puff effects on edge plasma and ICRF coupling in JET. Nuclear Fusion, 2017, 57, 056042.	3.5	14
175	Determining the prediction limits of models and classifiers with applications for disruption prediction in JET. Nuclear Fusion, 2017, 57, 016024.	3.5	4
176	Comparative H-mode density limit studies in JET and AUG. Nuclear Materials and Energy, 2017, 12, 100-110.	1.3	13
177	The effect of lower hybrid waves on JET plasma rotation. Nuclear Fusion, 2017, 57, 034002.	3.5	6
178	Be ITER-like wall at the JET tokamak under plasma. Physica Scripta, 2017, T170, 014049.	2.5	4
179	Global and pedestal confinement and pedestal structure in dimensionless collisionality scans of low-triangularity H-mode plasmas in JET-ILW. Nuclear Fusion, 2017, 57, 016012.	3.5	22
180	Fuel inventory and deposition in castellated structures in JET-ILW. Nuclear Fusion, 2017, 57, 066027.	3.5	25

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181	A tool to support the construction of reliable disruption databases. Fusion Engineering and Design, 2017, 125, 139-153.	1.9	12
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