

Stefan Matejcek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

596
papers

8,770
citations

41
h-index

56
g-index

612
ext. papers

10,368
ext. citations

2.5
avg, IF

6.06
L-index

#	Paper	IF	Citations
596	Dissociative Excitation of Nitromethane Induced by Electron Impact in the Ultraviolet - Visible Spectrum. <i>ChemPhysChem</i> , 2021 , 23, e202100705	3.2	0
595	Analysis of positional isomers of 2-3-4-alkoxyphenylcarbamic acid derivatives by a combination of TLC and IMS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021 , 1184, 122970	3.2	
594	Transport Characteristics of the Electrification and Lightning of the Gas Mixture Representing the Atmospheres of the Solar System Planets. <i>Atmosphere</i> , 2021 , 12, 438	2.7	
593	Application of multi-component fluid model in studies of the origin of skin burns during electrosurgical procedures. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 24, 1409-1418	2.1	
592	Monitoring of nonthermal plasma degradation of phthalates by ion mobility spectrometry. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2100032	3.4	
591	Efficient GPU implementation of the Particle-in-Cell/Monte-Carlo collisions method for 1D simulation of low-pressure capacitively coupled plasmas. <i>Computer Physics Communications</i> , 2021 , 263, 107913	4.2	2
590	Study of atmospheric pressure chemical ionization of phthalates in air by ion mobility spectrometry/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e9145	2.2	0
589	Finite Element Analysis of the Microwave Ablation Method for Enhanced Lung Cancer Treatment. <i>Cancers</i> , 2021 , 13,	6.6	4
588	Vacuum breakdown in microgaps between stainless-steel electrodes powered by direct-current and pulsed electric field. <i>Vacuum</i> , 2021 , 191, 110327	3.7	3
587	Step-scan Michelson Fourier-transform spectrometer for optical emission spectroscopy in UV-VIS spectral range. <i>Review of Scientific Instruments</i> , 2020 , 91, 033102	1.7	2
586	Electron ionization and photoionization of cyclopropylamine. <i>International Journal of Mass Spectrometry</i> , 2020 , 455, 116390	1.9	
585	Determination of nitrites and nitrates in plasma-activated deionized water by microchip capillary electrophoresis. <i>Contributions To Plasma Physics</i> , 2020 , 60, e202000014	1.4	7
584	Fast quantification of whisky lactone in oak wood by ion mobility spectrometer. <i>Talanta</i> , 2020 , 209, 1205667	3.67	4
583	Comparison of two cold atmospheric pressure plasma jet configurations in argon. <i>Contributions To Plasma Physics</i> , 2020 , 60, e201900127	1.4	9
582	Atmospheric Pressure Chemical Ionisation study of selected Volatile Organic Compounds (VOCs) by Ion Mobility Spectrometry coupled with orthogonal acceleration Time Of Flight Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , 2020 , 449, 116275	1.9	7
581	Ion chemistry of phthalates in selected ion flow tube mass spectrometry: isomeric effects and secondary reactions with water vapour. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16345-16352	3.6	2
580	Online detection and measurement of elemental mercury vapor by ion mobility spectrometry with chloroform dopant. <i>Journal of Chromatography A</i> , 2020 , 1634, 461676	4.5	2

579	Online coupling of microchip electrophoresis with ion mobility spectrometry for direct analysis of complex liquid samples. <i>Sensors and Actuators B: Chemical</i> , 2020 , 302, 127183	8.5	5
578	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. <i>Physics of Plasmas</i> , 2019 , 26, 072501	2.1	9
577	Interpretative and predictive modelling of Joint European Torus collisionality scans. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 115004	2	1
576	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using Fingerprints. <i>Nuclear Fusion</i> , 2019 , 59, 096001	3.3	43
575	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. <i>Nuclear Fusion</i> , 2019 , 59, 106017	3.3	16
574	. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 1871-1877	1.3	1
573	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	2.1	14
572	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. <i>Fusion Engineering and Design</i> , 2019 , 138, 254-266	1.7	4
571	Experimental characterisation of atmospheric pressure electron gun. <i>International Journal of Mass Spectrometry</i> , 2019 , 439, 34-41	1.9	3
570	The software and hardware architecture of the real-time protection of in-vessel components in JET-ILW. <i>Nuclear Fusion</i> , 2019 , 59, 076016	3.3	7
569	Impact of fast ions on density peaking in JET: fluid and gyrokinetic modeling. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 075008	2	2
568	Geodesic acoustic mode evolution in L-mode approaching the L-H transition on JET. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 075007	2	4
567	Multiphysics approach to plasma neutron source modelling at the JET tokamak. <i>Nuclear Fusion</i> , 2019 , 59, 096020	3.3	8
566	Dynamic modelling of local fuel inventory and desorption in the whole tokamak vacuum vessel for auto-consistent plasma-wall interaction simulations. <i>Nuclear Materials and Energy</i> , 2019 , 19, 550-557	2.1	8
565	Energetic ion losses channeling mechanism and strategy for mitigation. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 084008	2	0
564	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. <i>Nuclear Materials and Energy</i> , 2019 , 18, 331-338	2.1	24
563	Scenario development for DIII operation at JET. <i>Nuclear Fusion</i> , 2019 , 59, 076037	3.3	23
562	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. <i>Journal of Instrumentation</i> , 2019 , 14, C05019-C05019	1	7

561	Modelling of the effect of ELMs on fuel retention at the bulk W divertor of JET. <i>Nuclear Materials and Energy</i> , 2019 , 19, 397-402	2.1	5
560	Isomer and conformer selective atmospheric pressure chemical ionisation of dimethyl phthalate. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13679-13685	3.6	7
559	Simulation of neutron emission in neutral beam injection heated plasmas with the real-time code RABBIT. <i>Nuclear Fusion</i> , 2019 , 59, 086002	3.3	2
558	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. <i>Nuclear Fusion</i> , 2019 , 59, 112021	3.3	55
557	A wall-aligned grid generator for non-linear simulations of MHD instabilities in tokamak plasmas. <i>Computer Physics Communications</i> , 2019 , 243, 41-50	4.2	6
556	Comparison of the structure of the plasma-facing surface and tritium accumulation in beryllium tiles from JET ILW campaigns 2011-2012 and 2013-2014. <i>Nuclear Materials and Energy</i> , 2019 , 19, 131-136	2.1	6
555	RF sheath modeling of experimentally observed plasma surface interactions with the JET ITER-Like Antenna. <i>Nuclear Materials and Energy</i> , 2019 , 19, 324-329	2.1	1
554	An assessment of nitrogen concentrations from spectroscopic measurements in the JET and ASDEX upgrade divertor. <i>Nuclear Materials and Energy</i> , 2019 , 18, 147-152	2.1	5
553	Beryllium melting and erosion on the upper dump plates in JET during three ITER-like wall campaigns. <i>Nuclear Fusion</i> , 2019 , 59, 086009	3.3	24
552	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET-ILW and PISCES-B experience. <i>Nuclear Materials and Energy</i> , 2019 , 19, 510-515	2.1	10
551	Adaptive learning for disruption prediction in non-stationary conditions. <i>Nuclear Fusion</i> , 2019 , 59, 086037.3	3.3	12
550	On a fusion born triton effect in JET deuterium discharges with H-minority ion cyclotron range of frequencies heating. <i>Nuclear Fusion</i> , 2019 , 59, 064001	3.3	3
549	COREDIV numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to JET-ILW DT experiments. <i>Nuclear Fusion</i> , 2019 , 59, 056026	3.3	3
548	Effect of Basicity and Structure on the Hydration of Protonated Molecules, Proton-Bound Dimer and Cluster Formation: An Ion Mobility-Time of Flight Mass Spectrometry and Theoretical Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1242-1253	3.5	8
547	The effect of beryllium oxide on retention in JET ITER-like wall tiles. <i>Nuclear Materials and Energy</i> , 2019 , 19, 346-351	2.1	11
546	Deposition of impurity metals during campaigns with the JET ITER-like Wall. <i>Nuclear Materials and Energy</i> , 2019 , 19, 218-224	2.1	14
545	Investigation of deuterium trapping and release in the JET ITER-like wall divertor using TDS and TMAP. <i>Nuclear Materials and Energy</i> , 2019 , 19, 166-178	2.1	15
544	Investigation of deuterium trapping and release in the JET divertor during the third ILW campaign using TDS. <i>Nuclear Materials and Energy</i> , 2019 , 19, 300-306	2.1	9

543	First mirror test in JET for ITER: Complete overview after three ILW campaigns. <i>Nuclear Materials and Energy</i> , 2019 , 19, 59-66	2.1	16
542	Fast ion synergistic effects in JET high performance pulses. <i>Nuclear Fusion</i> , 2019 , 59, 056005	3.3	9
541	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. <i>Nuclear Fusion</i> , 2019 , 59, 056007	3.3	14
540	Approximate analytic expressions using Stokes model for tokamak polarimetry and their range of validity. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 055008	2	4
539	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 014027	2	10
538	Novel method for determination of tritium depth profiles in metallic samples. <i>Nuclear Fusion</i> , 2019 , 59, 106006	3.3	0
537	A power-balance model of the density limit in fusion plasmas: application to the L-mode tokamak. <i>Nuclear Fusion</i> , 2019 , 59, 126011	3.3	9
536	Modification of the Alfvén wave spectrum by pellet injection. <i>Nuclear Fusion</i> , 2019 , 59, 106031	3.3	3
535	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. <i>Nuclear Fusion</i> , 2019 , 59, 076028	3.3	12
534	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. <i>Nuclear Fusion</i> , 2019 , 59, 076038	3.3	26
533	A new mechanism for increasing density peaking in tokamaks: improvement of the inward particle pinch with edge E _∥ shearing. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 104002	2	9
532	Ion cyclotron resonance heating scenarios for DEMO. <i>Nuclear Fusion</i> , 2019 , 59, 106051	3.3	11
531	Erosion, screening, and migration of tungsten in the JET divertor. <i>Nuclear Fusion</i> , 2019 , 59, 096035	3.3	34
530	Role of fast ion pressure in the isotope effect in JET L-mode plasmas. <i>Nuclear Fusion</i> , 2019 , 59, 096030	3.3	10
529	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. <i>Nuclear Fusion</i> , 2019 , 59, 086056	3.3	27
528	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	6
527	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. <i>Nuclear Fusion</i> , 2019 , 59, 086047	3.3	21
526	Control of the hydrogen:deuterium isotope mixture using pellets in JET. <i>Nuclear Fusion</i> , 2019 , 59, 106043	3.3	4

525	Deep neural networks for plasma tomography with applications to JET and COMPASS. <i>Journal of Instrumentation</i> , 2019 , 14, C09011-C09011	1	4
524	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. <i>Journal of Instrumentation</i> , 2019 , 14, C09018-C09018	1	
523	Radial variation of heat transport in L-mode JET discharges. <i>Nuclear Fusion</i> , 2019 , 59, 056006	3-3	2
522	Long-lived coupled peeling ballooning modes preceding ELMs on JET. <i>Nuclear Fusion</i> , 2019 , 59, 056004	3-3	4
521	Diagnostics of Collisions between Electrons and Water Molecules in Near-ultraviolet and Visible Wavelengths. <i>Astrophysical Journal</i> , 2019 , 885, 167	4-7	5
520	Micro ion beam analysis for the erosion of beryllium marker tiles in a tokamak limiter. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 450, 200-204	1-2	1
519	Impact of ICRF on the scrape-off layer and on plasma wall interactions: From present experiments to fusion reactor. <i>Nuclear Materials and Energy</i> , 2019 , 18, 131-140	2-1	21
518	Study of Atmospheric Pressure Chemical Ionization Mechanism in Corona Discharge Ion Source with and without NH Dopant by Ion Mobility Spectrometry combined with Mass Spectrometry: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 313-322	2-8	23
517	Gyrokinetic simulations of toroidal Alfvén eigenmodes excited by energetic ions and external antennas on the Joint European Torus. <i>Nuclear Fusion</i> , 2019 , 59, 026008	3-3	3
516	Material migration and fuel retention studies during the JET carbon divertor campaigns. <i>Fusion Engineering and Design</i> , 2019 , 138, 78-108	1-7	14
515	Determination of tungsten sources in the JET-ILW divertor by spectroscopic imaging in the presence of a strong plasma continuum. <i>Nuclear Materials and Energy</i> , 2019 , 18, 118-124	2-1	9
514	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. <i>Nuclear Fusion</i> , 2019 , 59, 016004	3-3	8
513	Current Research into Applications of Tomography for Fusion Diagnostics. <i>Journal of Fusion Energy</i> , 2019 , 38, 458-466	1-6	19
512	Runaway electron beam control. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 014036	2	18
511	Testing of tritium breeder blanket activation foil spectrometer during JET operations. <i>Fusion Engineering and Design</i> , 2018 , 136, 258-264	1-7	5
510	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. <i>Nuclear Fusion</i> , 2018 , 58, 056002	3-3	23
509	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 082005	3-3	20
508	Characterisation of neutron generators and monitoring detectors for the in-vessel calibration of JET. <i>Fusion Engineering and Design</i> , 2018 , 136, 233-238	1-7	5

507	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. <i>Nuclear Fusion</i> , 2018 , 58, 026019	3.3	11
506	Sub-millisecond electron density profile measurement at the JET tokamak with the fast lithium beam emission spectroscopy system. <i>Review of Scientific Instruments</i> , 2018 , 89, 043509	1.7	8
505	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. <i>Physics of Plasmas</i> , 2018 , 25, 042304	3.1	15
504	On the potential of rule-based machine learning for disruption prediction on JET. <i>Fusion Engineering and Design</i> , 2018 , 130, 62-68	1.7	6
503	Dissociative electron attachment and electronic excitation in Fe(CO). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11692-11701	3.6	28
502	MHD spectroscopy of JET plasmas with pellets via Alfvén eigenmodes. <i>Nuclear Fusion</i> , 2018 , 58, 082008	3.3	6
501	Real-time implementation with FPGA-based DAQ system of a probabilistic disruption predictor from scratch. <i>Fusion Engineering and Design</i> , 2018 , 129, 179-182	1.7	2
500	Evidence of $^9\text{Be} + p$ nuclear reactions during 2H and hydrogen minority ICRH in JET-ILW hydrogen and deuterium plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 026033	3.3	3
499	TAE stability calculations compared to TAE antenna results in JET. <i>Nuclear Fusion</i> , 2018 , 58, 082007	3.3	5
498	Divertor currents optimization procedure for JET-ILW high flux expansion experiments. <i>Fusion Engineering and Design</i> , 2018 , 129, 115-119	1.7	1
497	A multi-machine scaling of halo current rotation. <i>Nuclear Fusion</i> , 2018 , 58, 016050	3.3	13
496	Plasma-wall interaction on the divertor tiles of JET ITER-like wall from the viewpoint of micro/nanoscale observations. <i>Fusion Engineering and Design</i> , 2018 , 136, 199-204	1.7	4
495	High fusion performance at high T_i/T_e in JET-ILW baseline plasmas with high NBI heating power and low gas puffing. <i>Nuclear Fusion</i> , 2018 , 58, 036020	3.3	14
494	Full-Pulse Tomographic Reconstruction with Deep Neural Networks. <i>Fusion Science and Technology</i> , 2018 , 74, 47-56	1.1	15
493	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. <i>Nuclear Fusion</i> , 2018 , 58, 034001	3.3	39
492	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuterium-tritium fusion plasma diagnostics. <i>Measurement Science and Technology</i> , 2018 , 29, 045502	2	20
491	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. <i>Nuclear Fusion</i> , 2018 , 58, 016023	3.3	10
490	Light impurity transport in JET ILW L-mode plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 036009	3.3	6

489	14 MeV calibration of JET neutron detectors phase 1: calibration and characterization of the neutron source. <i>Nuclear Fusion</i> , 2018 , 58, 026012	3.3	16
488	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. <i>Nuclear Fusion</i> , 2018 , 58, 016046	3.3	7
487	Modelling of JET DT experiments in ILW configurations. <i>Contributions To Plasma Physics</i> , 2018 , 58, 739-745	4.5	0
486	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. <i>Physical Review A</i> , 2018 , 97,	2.6	10
485	Bayesian Integrated Data Analysis of Fast-Ion Measurements by Velocity-Space Tomography. <i>Fusion Science and Technology</i> , 2018 , 74, 23-36	1.1	9
484	Modelling of the neutron production in a mixed beam DT neutron generator. <i>Fusion Engineering and Design</i> , 2018 , 136, 1089-1093	1.7	8
483	Analysis of possible improvement of the plasma performance in JET due to the inward spatial channelling of fast-ion energy. <i>Nuclear Fusion</i> , 2018 , 58, 076012	3.3	7
482	Control and data acquisition software upgrade for JET gamma-ray diagnostics. <i>Fusion Engineering and Design</i> , 2018 , 128, 117-121	1.7	4
481	Isotope effects on L-H threshold and confinement in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014045	2	62
480	Investigation into the formation of the scrape-off layer density shoulder in JET ITER-like wall L-mode and H-mode plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 056001	3.3	22
479	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. <i>Physics of Plasmas</i> , 2018 , 25, 012303	2.1	11
478	Dust generation in tokamaks: Overview of beryllium and tungsten dust characterisation in JET with the ITER-like wall. <i>Fusion Engineering and Design</i> , 2018 , 136, 579-586	1.7	32
477	Experimental validation of an analytical kinetic model for edge-localized modes in JET-ITER-like wall. <i>Nuclear Fusion</i> , 2018 , 58, 066006	3.3	13
476	ICRH antenna S-matrix measurements and plasma coupling characterisation at JET. <i>Nuclear Fusion</i> , 2018 , 58, 046012	3.3	2
475	First observation of the depolarization of Thomson scattering radiation by a fusion plasma. <i>Nuclear Fusion</i> , 2018 , 58, 044003	3.3	
474	Escaping alpha-particle monitor for burning plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 082009	3.3	1
473	Nonlinear dynamic analysis of DE signals for type I edge localized modes characterization on JET with a carbon wall. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 025010	2	2
472	Test particles dynamics in the JOEREK 3D non-linear MHD code and application to electron transport in a disruption simulation. <i>Nuclear Fusion</i> , 2018 , 58, 016043	3.3	20

471	Analysis of ELM stability with extended MHD models in JET, JT-60U and future JT-60SA tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014032	2	10
470	Activation Inventories after Exposure to DD/DT Neutrons in Safety Analysis of Nuclear Fusion Installations. <i>Radiation Protection Dosimetry</i> , 2018 , 180, 125-128	0.9	1
469	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. <i>Nuclear Fusion</i> , 2018 , 58, 095003	3.3	8
468	TLD calibration for neutron fluence measurements at JET fusion facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 904, 202-213	1.2	6
467	Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. <i>Nuclear Fusion</i> , 2018 , 58, 096013	3.3	12
466	A First Analysis of JET Plasma Profile-Based Indicators for Disruption Prediction and Avoidance. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 2691-2698	1.3	20
465	Correlation of surface chemical states with hydrogen isotope retention in divertor tiles of JET with ITER-Like Wall. <i>Fusion Engineering and Design</i> , 2018 , 132, 24-28	1.7	13
464	Integrated modelling of H-mode pedestal and confinement in JET-ILW. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014042	2	16
463	Dissociation of dicyclohexyl phthalate molecule induced by low-energy electron impact. <i>Journal of Chemical Physics</i> , 2018 , 148, 214305	3.9	2
462	14 MeV calibration of JET neutron detectors phase 2: in-vessel calibration. <i>Nuclear Fusion</i> , 2018 , 58, 106016	3.3	10
461	Real-time protection of the JET ITER-like wall based on near infrared imaging diagnostic systems. <i>Nuclear Fusion</i> , 2018 , 58, 106021	3.3	9
460	Electron acceleration in a JET disruption simulation. <i>Nuclear Fusion</i> , 2018 , 58, 106022	3.3	13
459	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. <i>Nuclear Fusion</i> , 2018 , 58, 106037	3.3	14
458	Observations and modelling of ion cyclotron emission observed in JET plasmas using a sub-harmonic arc detection system during ion cyclotron resonance heating. <i>Nuclear Fusion</i> , 2018 , 58, 096020	3.3	8
457	Scaling of the geodesic acoustic mode amplitude on JET. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 085006	2	5
456	First principle integrated modeling of multi-channel transport including Tungsten in JET. <i>Nuclear Fusion</i> , 2018 , 58, 096003	3.3	14
455	Alpha heating, isotopic mass, and fast ion effects in deuterium-tritium experiments. <i>Nuclear Fusion</i> , 2018 , 58, 096011	3.3	1
454	Thermal desorption spectrometry of beryllium plasma facing tiles exposed in the JET tokamak. <i>Fusion Engineering and Design</i> , 2018 , 133, 135-141	1.7	11

453	Pedestal evolution physics in low triangularity JET tokamak discharges with ITER-like wall. <i>Nuclear Fusion</i> , 2018 , 58, 016021	3.3	10
452	Equilibrium reconstruction in an iron core tokamak using a deterministic magnetisation model. <i>Computer Physics Communications</i> , 2018 , 223, 1-17	4.2	8
451	On the universality of power laws for tokamak plasma predictions. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 025028	2	6
450	Comparison of runaway electron generation parameters in small, medium-sized and large tokamaks – a survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET. <i>Nuclear Fusion</i> , 2018 , 58, 016014	3.3	10
449	Identification of BeO and BeOxDy in melted zones of the JET Be limiter tiles: Raman study using comparison with laboratory samples. <i>Nuclear Materials and Energy</i> , 2018 , 17, 295-301	2.1	11
448	Effect of the relative shift between the electron density and temperature pedestal position on the pedestal stability in JET-ILW and comparison with JET-C. <i>Nuclear Fusion</i> , 2018 , 58, 056010	3.3	30
447	On the Use of Transfer Entropy to Investigate the Time Horizon of Causal Influences between Signals. <i>Entropy</i> , 2018 , 20,	2.8	9
446	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. <i>Nuclear Fusion</i> , 2018 , 58, 106034	3.3	6
445	Tritium retention characteristics in dust particles in JET with ITER-like wall. <i>Nuclear Materials and Energy</i> , 2018 , 17, 279-283	2.1	15
444	Shutdown dose rate measurements after the 2016 Deuterium-Deuterium campaign at JET. <i>Fusion Engineering and Design</i> , 2018 , 136, 1348-1353	1.7	4
443	Application of the VUV and the soft x-ray systems on JET for the study of intrinsic impurity behavior in neon seeded hybrid discharges. <i>Review of Scientific Instruments</i> , 2018 , 89, 10D131	1.7	2
442	3D non-linear MHD simulation of the MHD response and density increase as a result of shattered pellet injection. <i>Nuclear Fusion</i> , 2018 , 58, 126025	3.3	20
441	Application of the Denovo Discrete Ordinates Radiation Transport Code to Large-Scale Fusion Neutronics. <i>Fusion Science and Technology</i> , 2018 , 74, 303-314	1.1	3
440	JET diagnostic enhancements testing and commissioning in preparation for DT scientific campaigns. <i>Review of Scientific Instruments</i> , 2018 , 89, 10K119	1.7	5
439	Dependence of the turbulent particle flux on hydrogen isotopes induced by collisionality. <i>Physics of Plasmas</i> , 2018 , 25, 082517	2.1	10
438	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	2.1	5
437	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 026028	3.3	8
436	Assessment of the baseline scenario at $q_{95} \sim 3$ for ITER. <i>Nuclear Fusion</i> , 2018 , 58, 126010	3.3	15

435	Heat flux analysis of Type-I ELM impact on a sloped, protruding surface in the JET bulk tungsten divertor. <i>Nuclear Materials and Energy</i> , 2018 , 17, 182-187	2.1	3
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4 ¹⁴	Activation material selection for multiple foil activation detectors in JET TT campaign. <i>Fusion Engineering and Design</i> , 2018 , 136, 988-992	1.7	2
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