

# Chiara Marchetto

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6185720/chiara-marchetto-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

433  
papers

5,786  
citations

34  
h-index

46  
g-index

436  
ext. papers

7,134  
ext. citations

2.4  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
433	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 072501	2.1	9
432	Interpretative and predictive modelling of Joint European Torus collisionality scans. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 115004	2	1
431	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 112023	3.3	36
430	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using fingerprints. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 096001	3.3	43
429	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 106017	3.3	16
428	. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 1871-1877	1.3	1
427	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H $\beta$ spectroscopy: HD experiment and implications for DIII experiment. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 046011	3.3	11
426	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 18, 239-244	2.1	14
425	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. <i>Fusion Engineering and Design</i> , <b>2019</b> , 138, 254-266	1.7	4
424	The software and hardware architecture of the real-time protection of in-vessel components in JET-ILW. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 076016	3.3	7
423	Dependence on plasma shape and plasma fueling for small edge-localized mode regimes in TCV and ASDEX Upgrade. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 086020	3.3	20
422	Impact of fast ions on density peaking in JET: fluid and gyrokinetic modeling. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 075008	2	2
421	Geodesic acoustic mode evolution in L-mode approaching the LBI transition on JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 075007	2	4
420	Multiphysics approach to plasma neutron source modelling at the JET tokamak. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 096020	3.3	8
419	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> , <b>2019</b> , 19, 550-557	2.1	8
418	Energetic ion losses channeling mechanism and strategy for mitigation. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 084008	2	0
417	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 18, 331-338	2.1	24

416	Scenario development for DIII operation at JET. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 076037	3.3	23
415	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C05019-C05019	1	7
414	Modelling of the effect of ELMs on fuel retention at the bulk W divertor of JET. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 397-402	2.1	5
413	Simulation of neutron emission in neutral beam injection heated plasmas with the real-time code RABBIT. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 086002	3.3	2
412	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 112021	3.3	55
411	A wall-aligned grid generator for non-linear simulations of MHD instabilities in tokamak plasmas. <i>Computer Physics Communications</i> , <b>2019</b> , 243, 41-50	4.2	6
410	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> , <b>2019</b> , 19, 131-136	2.1	6
409	RF sheath modeling of experimentally observed plasma surface interactions with the JET ITER-Like Antenna. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 324-329	2.1	1
408	An assessment of nitrogen concentrations from spectroscopic measurements in the JET and ASDEX upgrade divertor. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 18, 147-152	2.1	5
407	Beryllium melting and erosion on the upper dump plates in JET during three ITER-like wall campaigns. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 086009	3.3	24
406	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> , <b>2019</b> , 19, 510-515	2.1	10
405	Adaptive learning for disruption prediction in non-stationary conditions. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 086033	3.3	12
404	On a fusion born triton effect in JET deuterium discharges with H-minority ion cyclotron range of frequencies heating. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 064001	3.3	3
403	COREDIV numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to JET-ILW DT experiments. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 056026	3.3	3
402	The effect of beryllium oxide on retention in JET ITER-like wall tiles. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 346-351	2.1	11
401	Deposition of impurity metals during campaigns with the JET ITER-like Wall. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 218-224	2.1	14
400	Investigation of deuterium trapping and release in the JET ITER-like wall divertor using TDS and TMAP. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 166-178	2.1	15
399	Investigation of deuterium trapping and release in the JET divertor during the third ILW campaign using TDS. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 300-306	2.1	9

398	First mirror test in JET for ITER: Complete overview after three ILW campaigns. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 59-66	2.1	16
397	Tritium distributions on W-coated divertor tiles used in the third JET ITER-like wall campaign. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 18, 258-261	2.1	8
396	Fast ion synergistic effects in JET high performance pulses. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 056005	3.3	9
395	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 056007	3.3	14
394	Population modelling of the He II energy levels in tokamak plasmas: I. Collisional excitation model. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2019</b> , 52, 045001	1.3	1
393	Approximate analytic expressions using Stokes model for tokamak polarimetry and their range of validity. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 055008	2	4
392	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 014027	2	10
391	Novel method for determination of tritium depth profiles in metallic samples. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 106006	3.3	0
390	A power-balance model of the density limit in fusion plasmas: application to the L-mode tokamak. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 126011	3.3	9
389	Modification of the Alfvén wave spectrum by pellet injection. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 106031	3.3	3
388	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 076028	3.3	12
387	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 076038	3.3	26
386	A new mechanism for increasing density peaking in tokamaks: improvement of the inward particle pinch with edge E <sub>B</sub> shearing. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 104002	2	9
385	Ion cyclotron resonance heating scenarios for DEMO. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 106051	3.3	11
384	Erosion, screening, and migration of tungsten in the JET divertor. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 096035	3.3	34
383	Role of fast ion pressure in the isotope effect in JET L-mode plasmas. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 096030	3.3	10
382	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 086056	3.3	27
381	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> , <b>2019</b> , 61, 075010	2	6

380	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 086047	3.3	21
379	Control of the hydrogen:deuterium isotope mixture using pellets in JET. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 106047	3.3	4
378	Deep neural networks for plasma tomography with applications to JET and COMPASS. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C09011-C09011	1	4
377	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C09018-C09018	1	
376	Radial variation of heat transport in L-mode JET discharges. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 056006	3.3	2
375	Long-lived coupled peeling ballooning modes preceding ELMs on JET. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 056004	3.3	4
374	Micro ion beam analysis for the erosion of beryllium marker tiles in a tokamak limiter. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 450, 200-204	1.2	1
373	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> , <b>2019</b> , 18, 131-140	2.1	21
372	Gyrokinetic simulations of toroidal Alfvén eigenmodes excited by energetic ions and external antennas on the Joint European Torus. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 026008	3.3	3
371	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> , <b>2019</b> , 516, 202-213	3.3	8
370	Analysis of the outer divertor hot spot activity in the protection video camera recordings at JET. <i>Fusion Engineering and Design</i> , <b>2019</b> , 139, 115-123	1.7	3
369	Material migration and fuel retention studies during the JET carbon divertor campaigns. <i>Fusion Engineering and Design</i> , <b>2019</b> , 138, 78-108	1.7	14
368	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> , <b>2019</b> , 18, 118-124	2.1	9
367	Improved neutron activation dosimetry for fusion. <i>Fusion Engineering and Design</i> , <b>2019</b> , 139, 109-114	1.7	6
366	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 016004	3.3	8
365	Current Research into Applications of Tomography for Fusion Diagnostics. <i>Journal of Fusion Energy</i> , <b>2019</b> , 38, 458-466	1.6	19
364	Runaway electron beam control. <i>Plasma Physics and Controlled Fusion</i> , <b>2019</b> , 61, 014036	2	18
363	Testing of tritium breeder blanket activation foil spectrometer during JET operations. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 258-264	1.7	5

362	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 056002	3.3	23
361	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 082005	3.3	20
360	Characterisation of neutron generators and monitoring detectors for the in-vessel calibration of JET. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 233-238	1.7	5
359	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 026019	3.3	11
358	Sub-millisecond electron density profile measurement at the JET tokamak with the fast lithium beam emission spectroscopy system. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 043509	1.7	8
357	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 042304	3.3	15
356	On the potential of rule-based machine learning for disruption prediction on JET. <i>Fusion Engineering and Design</i> , <b>2018</b> , 130, 62-68	1.7	6
355	MHD spectroscopy of JET plasmas with pellets via Alfvén eigenmodes. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 082008	3.3	6
354	Real-time implementation with FPGA-based DAQ system of a probabilistic disruption predictor from scratch. <i>Fusion Engineering and Design</i> , <b>2018</b> , 129, 179-182	1.7	2
353	Evidence of $^9\text{Be} + p$ nuclear reactions during $2^{\text{nd}}$ and hydrogen minority ICRH in JET-ILW hydrogen and deuterium plasmas. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 026033	3.3	3
352	TAE stability calculations compared to TAE antenna results in JET. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 082007	3.3	5
351	Divertor currents optimization procedure for JET-ILW high flux expansion experiments. <i>Fusion Engineering and Design</i> , <b>2018</b> , 129, 115-119	1.7	1
350	A multi-machine scaling of halo current rotation. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 016050	3.3	13
349	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> , <b>2018</b> , 136, 199-204	1.7	4
348	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> , <b>2018</b> , 58, 036020	3.3	14
347	Full-Pulse Tomographic Reconstruction with Deep Neural Networks. <i>Fusion Science and Technology</i> , <b>2018</b> , 74, 47-56	1.1	15
346	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 034001	3.3	39
345	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> , <b>2018</b> , 29, 045502	2	20

344	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 016023	3.3	10
343	Light impurity transport in JET ILW L-mode plasmas. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 036009	3.3	6
342	14 MeV calibration of JET neutron detectors phase 1: calibration and characterization of the neutron source. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 026012	3.3	16
341	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 016046	3.3	7
340	Modelling of JET DT experiments in ILW configurations. <i>Contributions To Plasma Physics</i> , <b>2018</b> , 58, 739-745	4.5	0
339	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	10
338	Bayesian Integrated Data Analysis of Fast-Ion Measurements by Velocity-Space Tomography. <i>Fusion Science and Technology</i> , <b>2018</b> , 74, 23-36	1.1	9
337	Modelling of the neutron production in a mixed beam DT neutron generator. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 1089-1093	1.7	8
336	Analysis of possible improvement of the plasma performance in JET due to the inward spatial channelling of fast-ion energy. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 076012	3.3	7
335	Control and data acquisition software upgrade for JET gamma-ray diagnostics. <i>Fusion Engineering and Design</i> , <b>2018</b> , 128, 117-121	1.7	4
334	Isotope effects on L-H threshold and confinement in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 014045	2	62
333	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> , <b>2018</b> , 58, 056001	3.3	22
332	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 012303	2.1	11
331	Dust generation in tokamaks: Overview of beryllium and tungsten dust characterisation in JET with the ITER-like wall. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 579-586	1.7	32
330	Experimental validation of an analytical kinetic model for edge-localized modes in JET-ITER-like wall. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 066006	3.3	13
329	ICRH antenna S-matrix measurements and plasma coupling characterisation at JET. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 046012	3.3	2
328	First observation of the depolarization of Thomson scattering radiation by a fusion plasma. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 044003	3.3	
327	Escaping alpha-particle monitor for burning plasmas. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 082009	3.3	1

326	Nonlinear dynamic analysis of D <sub>α</sub> signals for type I edge localized modes characterization on JET with a carbon wall. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 025010	2	2
325	Test particles dynamics in the JOEUK 3D non-linear MHD code and application to electron transport in a disruption simulation. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 016043	3-3	20
324	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> , <b>2018</b> , 60, 014032	2	10
323	Activation Inventories after Exposure to DD/DT Neutrons in Safety Analysis of Nuclear Fusion Installations. <i>Radiation Protection Dosimetry</i> , <b>2018</b> , 180, 125-128	0.9	1
322	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 095003	3-3	8
321	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> , <b>2018</b> , 904, 202-213	1.2	6
320	Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 096013	3-3	12
319	Correlation of surface chemical states with hydrogen isotope retention in divertor tiles of JET with ITER-Like Wall. <i>Fusion Engineering and Design</i> , <b>2018</b> , 132, 24-28	1.7	13
318	Integrated modelling of H-mode pedestal and confinement in JET-ILW. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 014042	2	16
317	14 MeV calibration of JET neutron detectors phase 2: in-vessel calibration. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 106016	3-3	10
316	Real-time protection of the JET ITER-like wall based on near infrared imaging diagnostic systems. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 106021	3-3	9
315	Electron acceleration in a JET disruption simulation. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 106022	3-3	13
314	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 106037	3-3	14
313	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> , <b>2018</b> , 58, 096020	3-3	8
312	Scaling of the geodesic acoustic mode amplitude on JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 085006	2	5
311	First principle integrated modeling of multi-channel transport including Tungsten in JET. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 096003	3-3	14
310	Alpha heating, isotopic mass, and fast ion effects in deuterium-tritium experiments. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 096011	3-3	1
309	Thermal desorption spectrometry of beryllium plasma facing tiles exposed in the JET tokamak. <i>Fusion Engineering and Design</i> , <b>2018</b> , 133, 135-141	1.7	11



308	A one-dimensional tearing mode equation for pedestal stability studies in tokamaks. <i>Journal of Plasma Physics</i> , <b>2018</b> , 84,	2.7	1
307	Pedestal evolution physics in low triangularity JET tokamak discharges with ITER-like wall. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 016021	3.3	10
306	Equilibrium reconstruction in an iron core tokamak using a deterministic magnetisation model. <i>Computer Physics Communications</i> , <b>2018</b> , 223, 1-17	4.2	8
305	On the universality of power laws for tokamak plasma predictions. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 025028	2	6
304	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> , <b>2018</b> , 58, 016014	3.3	10
303	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> , <b>2018</b> , 17, 295-301	2.1	11
302	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> , <b>2018</b> , 58, 056010	3.3	30
301	On the Use of Transfer Entropy to Investigate the Time Horizon of Causal Influences between Signals. <i>Entropy</i> , <b>2018</b> , 20,	2.8	9
300	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 106034	3.3	6
299	Tritium retention characteristics in dust particles in JET with ITER-like wall. <i>Nuclear Materials and Energy</i> , <b>2018</b> , 17, 279-283	2.1	15
298	Shutdown dose rate measurements after the 2016 Deuterium-Deuterium campaign at JET. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 1348-1353	1.7	4
297	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> , <b>2018</b> , 89, 10D131	1.7	2
296	3D non-linear MHD simulation of the MHD response and density increase as a result of shattered pellet injection. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 126025	3.3	20
295	Application of the Denovo Discrete Ordinates Radiation Transport Code to Large-Scale Fusion Neutronics. <i>Fusion Science and Technology</i> , <b>2018</b> , 74, 303-314	1.1	3
294	JET diagnostic enhancements testing and commissioning in preparation for DT scientific campaigns. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 10K119	1.7	5
293	Dependence of the turbulent particle flux on hydrogen isotopes induced by collisionality. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 082517	2.1	10
292	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> , <b>2018</b> , 17, 174-181	2.1	5
291	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 026028	3.3	8

290	Assessment of the baseline scenario at q 95 ~ 3 for ITER. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 126010	3.3	15
289	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> , <b>2018</b> , 17, 182-187	2.1	3
288	Determination of 2D poloidal maps of the intrinsic W density for transport studies in JET-ILW. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 113501	1.7	8
287	Neutron emission spectroscopy of D plasmas at JET with a compact liquid scintillating neutron spectrometer. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 101113	1.7	7
286	Real-time-capable prediction of temperature and density profiles in a tokamak using RAPTOR and a first-principle-based transport model. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 096006	3.3	26
285	The upgraded JET gamma-ray cameras based on high resolution/high count rate compact spectrometers. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 101116	1.7	19
284	OVERVIEW OF NEUTRON MEASUREMENTS IN JET FUSION DEVICE. <i>Radiation Protection Dosimetry</i> , <b>2018</b> , 180, 102-108	0.9	1
283	Instrumentation for the upgrade to the JET core charge-exchange spectrometers. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 10D113	1.7	4
282	Propagating transport-code input parameter uncertainties with deterministic sampling. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 125010	2	
281	Synthetic spectra of BeH, BeD and BeT for emission modeling in JET plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2018</b> , 51, 185701	1.3	13
280	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> , <b>2018</b> , 60, 115011	2	5
279	Development of a new compact gamma-ray spectrometer optimised for runaway electron measurements. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 101134	1.7	10
278	First principles of modelling the stabilization of microturbulence by fast ions. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 082024	3.3	10
277	Inter-ELM evolution of the edge current density in JET-ILW type I ELMy H-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 085003	2	4
276	Impact of electron-scale turbulence and multi-scale interactions in the JET tokamak. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 124003	3.3	10
275	Equilibrium reconstruction at JET using Stokes model for polarimetry. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 106032	3.3	16
274	Generation of a plasma neutron source for Monte Carlo neutron transport calculations in the tokamak JET. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 1047-1051	1.7	8
273	Shutdown dose rate neutronics experiment during high performances DD operations at JET. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 1545-1549	1.7	3

272	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 076022	3.3	14
271	Analysis of plasma termination in the JET hybrid scenario. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 076027	3.3	5
270	Maximum likelihood bolometric tomography for the determination of the uncertainties in the radiation emission on JET TOKAMAK. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 053504	1.7	12
269	Activation material selection for multiple foil activation detectors in JET TT campaign. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 988-992	1.7	2
268	Preparation for commissioning of materials detritiation facility at Culham Science Centre. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 1391-1395	1.7	1
267	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 076028	3.3	22
266	W transport and accumulation control in the termination phase of JET H-mode discharges and implications for ITER. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 074008	2	17
265	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. <i>Nuclear Fusion</i> , <b>2018</b> , 58, 096029	3.3	15
264	On the mechanisms governing gas penetration into a tokamak plasma during a massive gas injection. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 016027	3.3	6
263	Calculations to support JET neutron yield calibration: Modelling of neutron emission from a compact DT neutron generator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 847, 199-204	1.2	8
262	High power neon seeded JET discharges: Experiments and simulations. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 882-886	2.1	9
261	Assessment of erosion, deposition and fuel retention in the JET-ILW divertor from ion beam analysis data. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 559-563	2.1	23
260	Beryllium film deposition in cavity samples in remote areas of the JET divertor during the 2011/2012 ITER-like wall campaign. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 548-552	2.1	11
259	Energy balance in JET. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 227-233	2.1	13
258	Possible influence of near SOL plasma on the H-mode power threshold. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 273-277	2.1	12
257	Progress in reducing ICRF-specific impurity release in ASDEX upgrade and JET. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 1194-1198	2.1	8
256	Gyrokinetic study of turbulent convection of heavy impurities in tokamak plasmas at comparable ion and electron heat fluxes. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 022009	3.3	21
255	Progress in understanding disruptions triggered by massive gas injection via 3D non-linear MHD modelling with JOREK. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 014006	2	36

254	Studies of dust from JET with the ITER-Like Wall: Composition and internal structure. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 582-587	2.1	29
253	Plasma impact on diagnostic mirrors in JET. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 506-512	2.1	24
252	Hybrid cancellation of ripple disturbances arising in AC/DC converters. <i>Automatica</i> , <b>2017</b> , 77, 344-352	5.7	4
251	Assessment of SOLPS5.0 divertor solutions with drifts and currents against L-mode experiments in ASDEX Upgrade and JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 035003	2	21
250	ITER oriented neutronics benchmark experiments on neutron streaming and shutdown dose rate at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 171-176	1.7	16
249	Generation of the neutron response function of an NE213 scintillator for fusion applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 866, 222-229	1.2	4
248	Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 076006	3.3	20
247	Hardware architecture of the data acquisition and processing system for the JET Neutron Camera Upgrade (NCU) project. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 873-876	1.7	8
246	Commissioning and first results of the reinstated JET ICRF ILA. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 285-288	1.7	5
245	Plasma edge and plasma-wall interaction modelling: Lessons learned from metallic devices. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 3-17	2.1	13
244	Impact of the JET ITER-like wall on H-mode plasma fueling. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 066024	3.3	4
243	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. <i>Nature Physics</i> , <b>2017</b> , 13, 973-978	16.2	50
242	Correlation analysis for energy losses, waiting times and durations of type I edge-localized modes in the Joint European Torus. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 036026	3.3	2
241	Thermal analysis of protruding surfaces in the JET divertor. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 066009	3.3	
240	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 055001	2	22
239	Classification of ELM types in Joint European Torus based on global plasma parameters using discriminant analysis. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 717-721	1.7	1
238	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 749-753	1.7	9
237	Simulation of neutral gas flow in the JET sub-divertor. <i>Fusion Engineering and Design</i> , <b>2017</b> , 121, 13-21	1.7	13

236	Calculation of the profile-dependent neutron backscatter matrix for the JET neutron camera system. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 865-868	1.7	3
235	The effect of the isotope on the H-mode density limit. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 086007	3.3	8
234	The emissivity of W coatings deposited on carbon materials for fusion applications. <i>Fusion Engineering and Design</i> , <b>2017</b> , 114, 192-195	1.7	7
233	Micro-/nano-characterization of the surface structures on the divertor tiles from JET ITER-like wall. <i>Fusion Engineering and Design</i> , <b>2017</b> , 116, 1-4	1.7	14
232	Technical preparations for the in-vessel 14 MeV neutron calibration at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 117, 107-114	1.7	10
231	The preparation of the Shutdown Dose Rate experiment for the next JET Deuterium-Tritium campaign. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 1039-1043	1.7	5
230	Status of ITER material activation experiments at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 124, 1150-1155	1.7	9
229	CeBr <sub>3</sub> Based detector for gamma-ray spectrometer upgrade at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 986-989	1.7	3
228	Expanding the role of impurity spectroscopy for investigating the physics of high-Z dissipative divertors. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 91-99	2.1	5
227	Overview of the JET ITER-like wall divertor. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 499-505	2.1	36
226	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 111-118	2.1	61
225	Main chamber wall plasma loads in JET-ITER-like wall at high radiated fraction. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 234-240	2.1	5
224	Structure, tritium depth profile and desorption from plasma-facing beryllium materials of ITER-Like-Wall at JET. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 642-647	2.1	12
223	3D simulations of gas puff effects on edge plasma and ICRF coupling in JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 056042	3.3	8
222	Determining the prediction limits of models and classifiers with applications for disruption prediction in JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 016024	3.3	4
221	Comparative H-mode density limit studies in JET and AUG. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 100-110	2.1	7
220	The effect of lower hybrid waves on JET plasma rotation. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 034002	3.3	6
219	Deep learning for plasma tomography using the bolometer system at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 114, 18-25	1.7	22

218	Be ITER-like wall at the JET tokamak under plasma. <i>Physica Scripta</i> , <b>2017</b> , T170, 014049	2.6	3
217	Global and pedestal confinement and pedestal structure in dimensionless collisionality scans of low-triangularity H-mode plasmas in JET-ILW. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 016012	3.3	14
216	Fuel inventory and deposition in castellated structures in JET-ILW. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 066027	3.3	20
215	Velocity-space sensitivities of neutron emission spectrometers at the tokamaks JET and ASDEX Upgrade in deuterium plasmas. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 073506	1.7	21
214	A tool to support the construction of reliable disruption databases. <i>Fusion Engineering and Design</i> , <b>2017</b> , 125, 139-153	1.7	9
213	Calibration of neutron detectors on the Joint European Torus. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 103505	1.7	14
212	Self-consistent coupling of DSMC method and SOLPS code for modeling tokamak particle exhaust. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 066037	3.3	5
211	Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 086024	3.3	19
210	On efficiency and interpretation of sawteeth pacing with on-axis ICRH modulation in JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 126057	3.3	5
209	Towards self-consistent plasma modelisation in presence of neoclassical tearing mode and sawteeth: effects on transport coefficients. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 125012	2	2
208	Transient induced tungsten melting at the Joint European Torus (JET). <i>Physica Scripta</i> , <b>2017</b> , T170, 014013	3.3	15
207	Evaluation of the plasma hydrogen isotope content by residual gas analysis at JET and AUG. <i>Physica Scripta</i> , <b>2017</b> , T170, 014021	2.6	5
206	Numerical analysis of ELM stability with rotation and ion diamagnetic drift effects in JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 126001	3.3	5
205	Simulation of JET ITER-Like Wall pulses at high neon seeding rate. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 126021	3.3	5
204	Studies of the pedestal structure and inter-ELM pedestal evolution in JET with the ITER-like wall. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 116012	3.3	22
203	Real-time control of divertor detachment in H-mode with impurity seeding using Langmuir probe feedback in JET-ITER-like wall. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 045001	2	31
202	Investigation and plasma cleaning of first mirrors coated with relevant ITER contaminants: beryllium and tungsten. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 086019	3.3	13
201	The global build-up to intrinsic ELM bursts and comparison with pellet triggered ELMs seen in JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 022017	3.3	2

200	Dynamics and stability of divertor detachment in H-mode plasmas on JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 095003	2	19
199	A 3D electromagnetic model of the iron core in JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 527-531	1.7	2
198	Quartz micro-balance results of pulse-resolved erosion/deposition in the JET-ILW divertor. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 478-482	2.1	4
197	The isotope effect on divertor conditions and neutral pumping in horizontal divertor configurations in JET-ILW Ohmic plasmas. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 791-797	2.1	6
196	ELM divertor peak energy fluence scaling to ITER with data from JET, MAST and ASDEX upgrade. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 84-90	2.1	74
195	Surface composition and structure of divertor tiles following the JET tokamak operation with the ITER-like wall. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 076027	3.3	8
194	Development of MPPC-based detectors for high count rate DT campaigns at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 940-944	1.7	4
193	Real time control developments at JET in preparation for deuterium-tritium operation. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 535-540	1.7	7
192	Erosion at the inner wall of JET during the discharge campaign 2013-2014. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 11, 20-24	2.1	10
191	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 102001	3.3	125
190	Response of the imaging cameras to hard radiation during JET operation. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 669-673	1.7	8
189	Deuterium retention in the divertor tiles of JET ITER-Like wall. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 655-661	2.1	10
188	Gyrokinetic simulations of particle transport in pellet fuelled JET discharges. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 105005	2	1
187	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 036027	3.3	16
186	Impact of divertor geometry on H-mode confinement in the JET metallic wall. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 086025	3.3	18
185	Overview of fuel inventory in JET with the ITER-like wall. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 086045	3.3	35
184	Modelling of transitions between L- and H-mode in JET high plasma current plasmas and application to ITER scenarios including tungsten behaviour. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 086023	3.3	17
183	Analysis of activation and damage of ITER material samples expected from DD/DT campaign at JET. <i>Fusion Engineering and Design</i> , <b>2017</b> , 125, 307-313	1.7	6

182	EDGE2D-EIRENE simulations of the impact of poloidal flux expansion on the radiative divertor performance in JET. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 786-790	2.1	3
181	Assessment of divertor heat load with and without external magnetic perturbation. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 066045	3.3	9
180	Intra-ELM tungsten sputtering in JET ITER-like wall: analytical studies of Be impurity and ELM type influence. <i>Physica Scripta</i> , <b>2017</b> , T170, 014065	2.6	3
179	Challenges in the extrapolation from DD to DT plasmas: experimental analysis and theory based predictions for JET-DT. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 014023	2	22
178	Impurity re-distribution in the corner regions of the JET divertor. <i>Physica Scripta</i> , <b>2017</b> , T170, 014060	2.6	5
177	Experience on divertor fuel retention after two ITER-Like Wall campaigns. <i>Physica Scripta</i> , <b>2017</b> , T170, 014063	2.6	21
176	The near infrared imaging system for the real-time protection of the JET ITER-like wall. <i>Physica Scripta</i> , <b>2017</b> , T170, 014027	2.6	7
175	Activation measurements in support of the 14 MeV neutron calibration of JET neutron monitors. <i>Fusion Engineering and Design</i> , <b>2017</b> , 125, 50-56	1.7	9
174	MeV-range velocity-space tomography from gamma-ray and neutron emission spectrometry measurements at JET. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 056001	3.3	37
173	Characterization of a compact LaBr3(Ce) detector with Silicon photomultipliers at high 14 MeV neutron fluxes. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C10007-C10007	1	8
172	Fine metal dust particles on the wall probes from JET-ILW. <i>Physica Scripta</i> , <b>2017</b> , T170, 014038	2.6	15
171	Statistical validation of predictive TRANSP simulations of baseline discharges in preparation for extrapolation to JET DIII. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 066032	3.3	8
170	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> , <b>2017</b> , 12, 341-345	2.1	10
169	Recent progress towards a quantitative description of filamentary SOL transport. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 056044	3.3	38
168	Axisymmetric oscillations at LBI transitions in JET: M-mode. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 022021	3.3	16
167	Dimensionless scalings of confinement, heat transport and pedestal stability in JET-ILW and comparison with JET-C. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 014014	2	20
166	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , <b>2017</b> , 59, 124005	2	26
165	Synthetic neutron camera and spectrometer in JET based on AFSI-ASCOT simulations. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C09010-C09010	1	6



164	Axisymmetric global Alfvén eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 122505	2.1	9
163	Metallic mirrors for plasma diagnosis in current and future reactors: tests for ITER and DEMO. <i>Physica Scripta</i> , <b>2017</b> , T170, 014061	2.6	8
162	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. <i>Physica Scripta</i> , <b>2017</b> , T170, 014018	2.6	16
161	Analyses of microstructure, composition and retention of hydrogen isotopes in divertor tiles of JET with the ITER-like wall. <i>Physica Scripta</i> , <b>2017</b> , T170, 014031	2.6	10
160	Mitigation of divertor heat loads by strike point sweeping in high power JET discharges. <i>Physica Scripta</i> , <b>2017</b> , T170, 014040	2.6	7
159	Dynamic power balance analysis in JET. <i>Physica Scripta</i> , <b>2017</b> , T170, 014035	2.6	2
158	Bayesian electron density inference from JET lithium beam emission spectra using Gaussian processes. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 036017	3.3	9
157	Synthetic NPA diagnostic for energetic particles in JET plasmas. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C11025-C11025	1	3
156	Comparison of JET AVDE disruption data with M3D simulations and implications for ITER. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 102512	2.1	9
155	Erosion and deposition in the JET divertor during the second ITER-like wall campaign. <i>Physica Scripta</i> , <b>2017</b> , T170, 014058	2.6	22
154	Detection of Causal Relations in Time Series Affected by Noise in Tokamaks Using Geodesic Distance on Gaussian Manifolds. <i>Entropy</i> , <b>2017</b> , 19, 569	2.8	1
153	Tritium analysis of divertor tiles used in JET ITER-like wall campaigns by means of $\beta$ -ray induced x-ray spectrometry. <i>Physica Scripta</i> , <b>2017</b> , T170, 014014	2.6	4
152	Time-resolved deposition in the remote region of the JET-ILW divertor: measurements and modelling. <i>Physica Scripta</i> , <b>2017</b> , T170, 014059	2.6	5
151	The neutron deficit in the JET tokamak. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 076029	3.3	17
150	A prototype fully digital data acquisition system upgrade for the TOFOR neutron spectrometer at JET. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2016</b> , 833, 94-104	1.2	3
149	Sparse representation of signals: from astrophysics to real-time data analysis for fusion plasmas and system optimization analysis for ITER and TCV. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 123001	2	4
148	The role of MHD in causing impurity peaking in JET hybrid plasmas. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 066002	3.3	31
147	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 045011	2	17

146	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. <i>Physical Review Letters</i> , <b>2016</b> , 116, 065002	7.4	59
145	Improved ERO modelling for spectroscopy of physically and chemically assisted eroded beryllium from the JET-ILW. <i>Nuclear Materials and Energy</i> , <b>2016</b> , 9, 604-609	2.1	14
144	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 046009	3.9	21
143	Plasma turbulence measured with fast frequency swept reflectometry in JET H-mode plasmas. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 126019	3.3	4
142	Characteristics of pre-ELM structures during ELM control experiment on JET with $n = 2$ magnetic perturbations. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 092011	3.3	
141	Evaluation of reconstruction errors and identification of artefacts for JET gamma and neutron tomography. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 013502	1.7	5
140	A generalized Abel inversion method for gamma-ray imaging of thermonuclear plasmas. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, C03001-C03001	1	2
139	COREDIV and SOLPS Numerical Simulations of the Nitrogen Seeded JET ILW L-mode Discharges. <i>Contributions To Plasma Physics</i> , <b>2016</b> , 56, 760-765	1.4	5
138	Modelling of the JET DT Experiments in Carbon and ITER-like Wall Configurations. <i>Contributions To Plasma Physics</i> , <b>2016</b> , 56, 766-771	1.4	3
137	Effect of PFC Recycling Conditions on JET Pedestal Density. <i>Contributions To Plasma Physics</i> , <b>2016</b> , 56, 754-759	1.4	6
136	Experience of handling beryllium, tritium and activated components from JET ITER like wall. <i>Physica Scripta</i> , <b>2016</b> , T167, 014057	2.6	17
135	Stabilization of sawteeth with third harmonic deuterium ICRF-accelerated beam in JET plasmas. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 012505	2.1	4
134	Tritium distributions on tungsten and carbon tiles used in the JET divertor. <i>Physica Scripta</i> , <b>2016</b> , T167, 014009	2.6	9
133	Multi-machine scaling of the main SOL parallel heat flux width in tokamak limiter plasmas. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 074005	2	33
132	Comparison of H-mode plasmas in JET-ILW and JET-C with and without nitrogen seeding. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 046012	3.3	18
131	Thermo-mechanical properties of W/Mo markers coatings deposited on bulk W. <i>Physica Scripta</i> , <b>2016</b> , T167, 014028	2.6	0
130	In situ wavelength calibration of the edge CXS spectrometers on JET. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11E525	1.7	6
129	Global optimization driven by genetic algorithms for disruption predictors based on APODIS architecture. <i>Fusion Engineering and Design</i> , <b>2016</b> , 112, 1014-1018	1.7	5

128	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> , <b>2016</b> , 106, 93-98	1.7	8
127	Neutronics experiments and analyses in preparation of DT operations at JET. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 895-905	1.7	17
126	The role and application of ion beam analysis for studies of plasma-facing components in controlled fusion devices. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 4-11	1.2	14
125	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 014026	2	17
124	Deuterium trapping and release in JET ITER-like wall divertor tiles. <i>Physica Scripta</i> , <b>2016</b> , T167, 014074	2.6	18
123	X-ray micro-laminography for the analysis of W-CFC samples retrieved from JET ITER-like wall. <i>Physica Scripta</i> , <b>2016</b> , T167, 014050	2.6	1
122	Erosion and deposition in the JET divertor during the first ILW campaign. <i>Physica Scripta</i> , <b>2016</b> , T167, 014051	2.6	47
121	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 014036	2	45
120	Real-time control of ELM and sawtooth frequencies: similarities and differences. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 016008	3.3	7
119	Studies of Be migration in the JET tokamak using AMS with <sup>10</sup> Be marker. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 370-375	1.2	9
118	JET experiments with tritium and deuterium-tritium mixtures. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 925-936	1.7	10
117	Deposition in the inner and outer corners of the JET divertor with carbon wall and metallic ITER-like wall. <i>Physica Scripta</i> , <b>2016</b> , T167, 014052	2.6	9
116	JET experience on managing radioactive waste and implications for ITER. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 979-985	1.7	6
115	Radiation damage and nuclear heating studies in selected functional materials during the JET DT campaign. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 1011-1015	1.7	12
114	Modelling of plasma-edge and plasma-wall interaction physics at JET with the metallic first-wall. <i>Physica Scripta</i> , <b>2016</b> , T167, 014078	2.6	2
113	Long-term fuel retention in JET ITER-like wall. <i>Physica Scripta</i> , <b>2016</b> , T167, 014075	2.6	44
112	Investigation on the erosion/deposition processes in the ITER-like wall divertor at JET using glow discharge optical emission spectrometry technique. <i>Physica Scripta</i> , <b>2016</b> , T167, 014049	2.6	5
111	Advances in understanding and utilising ELM control in JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 014017	2	5

110	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 026001	3.3	25
109	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 026007	3.3	38
108	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 026006	3.3	14
107	Raman microscopy investigation of beryllium materials. <i>Physica Scripta</i> , <b>2016</b> , T167, 014027	2.6	8
106	Risk Mitigation for ITER by a Prolonged and Joint International Operation of JET. <i>Journal of Fusion Energy</i> , <b>2016</b> , 35, 85-93	1.6	3
105	On determining the prediction limits of mathematical models for time series. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, C07013-C07013	1	1
104	An FPGA-based bolometer for the MAST-U Super-X divertor. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11E721	1.7	8
103	Study of the triton-burnup process in different JET scenarios using neutron monitor based on CVD diamond. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D835	1.7	4
102	Edge profile analysis of Joint European Torus (JET) Thomson scattering data: Quantifying the systematic error due to edge localised mode synchronisation. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 013507	1.7	5
101	Bayesian modelling of the emission spectrum of the Joint European Torus Lithium Beam Emission Spectroscopy system. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 023501	1.7	8
100	Characterisation of the deuterium recycling at the W divertor target plates in JET during steady-state plasma conditions and ELMs. <i>Physica Scripta</i> , <b>2016</b> , T167, 014076	2.6	16
99	Simulating the nitrogen migration in Be/W tokamaks with WallDYN. <i>Physica Scripta</i> , <b>2016</b> , T167, 014079	2.6	4
98	Classification of JET Neutron and Gamma Emissivity Profiles. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, C05021-C05021		
97	Core fusion power gain and alpha heating in JET, TFTR, and ITER. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 056002	3.3	4
96	Plasma confinement at JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 014034	2	23
95	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. <i>Physica Scripta</i> , <b>2016</b> , T167, 014005	2.6	24
94	Comparative gyrokinetic analysis of JET baseline H-mode core plasmas with carbon wall and ITER-like wall. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 045021	2	2
93	An Analytical Expression for the Electric Field and Particle Tracing in Modelling of Be Erosion Experiments at the JET ITER-like Wall. <i>Contributions To Plasma Physics</i> , <b>2016</b> , 56, 640-645	1.4	21

92	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. <i>Physica Scripta</i> , <b>2016</b> , 91, 064003	2.6	16
91	ITER-like antenna capacitors voltage probes: Circuit/electromagnetic calculations and calibrations. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 104705	1.7	6
90	First neutron spectroscopy measurements with a pixelated diamond detector at JET. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D833	1.7	33
89	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 115005	2	12
88	MHD marking using the MSE polarimeter optics in ILW JET plasmas. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11E556	1.7	
87	Ion temperature and toroidal rotation in JET's low torque plasmas. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11E557	1.7	2
86	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> , <b>2016</b> , 58, 125018	2	13
85	Deep deuterium retention and Be/W mixing at tungsten coated surfaces in the JET divertor. <i>Physica Scripta</i> , <b>2016</b> , T167, 014061	2.6	13
84	JET diagnostic enhancements in preparation for DT operations. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D443	1.7	5
83	Melt damage to the JET ITER-like Wall and divertor. <i>Physica Scripta</i> , <b>2016</b> , T167, 014070	2.6	43
82	Performance of the prototype LaBr spectrometer developed for the JET gamma-ray camera upgrade. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11E717	1.7	23
81	Gamma-ray spectroscopy at MHz counting rates with a compact LaBr detector and silicon photomultipliers for fusion plasma applications. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11E714	1.7	30
80	Neutron emission spectroscopy of DT plasmas at enhanced energy resolution with diamond detectors. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D822	1.7	13
79	Response function of single crystal synthetic diamond detectors to 1-4 MeV neutrons for spectroscopy of D plasmas. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D823	1.7	12
78	A classification scheme for edge-localized modes based on their probability distributions. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D404	1.7	3
77	How to assess the efficiency of synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 076003	3	8
76	Scaling of the frequencies of the type one edge localized modes and their effect on the tungsten source in JET ITER-like wall. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 125014	2	4
75	Extending helium partial pressure measurement technology to JET DTE2 and ITER. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 11D442	1.7	7

74	Numerical calculations of non-inductive current driven by microwaves in JET. <i>Plasma Physics and Controlled Fusion</i> , <b>2016</b> , 58, 125001	2	3
73	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 106026	3.3	18
72	Technological exploitation of Deuterium-Tritium operations at JET in support of ITER design, operation and safety. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 278-285	1.7	22
71	JET Tokamak, preparation of a safety case for tritium operations. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 1308-1312	1.7	3
70	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. <i>Physica Scripta</i> , <b>2016</b> , T167, 014077	2.6	14
69	Neutronic analysis of JET external neutron monitor response. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 99-103	1.7	4
68	Advanced design of the Mechanical Tritium Pumping System for JET DTE2. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 359-364	1.7	9
67	The non-thermal origin of the tokamak low-density stability limit. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 056010	3.3	2
66	Diagnostic application of magnetic islands rotation in JET. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 076004	3.3	11
65	Kinematic background discrimination methods using a fully digital data acquisition system for TOFOR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2016</b> , 838, 82-88	1.2	2
64	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 106010	3.3	18
63	Turbulent transport analysis of JET H-mode and hybrid plasmas using QualiKiz and Trapped Gyro Landau Fluid. <i>Plasma Physics and Controlled Fusion</i> , <b>2015</b> , 57, 035003	2	6
62	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 053015	3.3	55
61	Plasma isotopic changeover experiments in JET under carbon and ITER-like wall conditions. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 043021	3.3	8
60	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 053028	3.3	26
59	Comparative analysis of core heat transport of JET high density H-mode plasmas in carbon wall and ITER-like wall. <i>Plasma Physics and Controlled Fusion</i> , <b>2015</b> , 57, 065002	2	1
58	Integrated core-divertor modelling for ITER including impurity: effect of tungsten on fusion performance in H-mode and hybrid scenario. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 053032	3.3	5
57	Improved confinement in JET high plasmas with an ITER-like wall. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 053031	3.3	63

56	The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 055902	2.1	40
55	Experiments on magneto-hydrodynamics instabilities with ECH/ECCD in FTU using a minimal real-time control system. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 083010	3.3	3
54	The effects of impurities and core pressure on pedestal stability in Joint European Torus (JET)a). <i>Physics of Plasmas</i> , <b>2015</b> , 22, 056115	2.1	30
53	Influence of the E $\times$ B drift in high recycling divertors on target asymmetries. <i>Plasma Physics and Controlled Fusion</i> , <b>2015</b> , 57, 095002	2	41
52	Ion target impact energy during Type I edge localized modes in JET ITER-like Wall. <i>Plasma Physics and Controlled Fusion</i> , <b>2015</b> , 57, 085006	2	38
51	Overview of the FTU results. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 104005	3.3	5
50	Experimental evaluation of stable long term operation of semiconductor magnetic sensors at ITER relevant environment. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 083006	3.3	14
49	The merits of ion cyclotron resonance heating schemes for sawtooth control in tokamak plasmas. <i>Journal of Plasma Physics</i> , <b>2015</b> , 81,	2.7	4
48	Interpretation of radiative divertor studies with impurity seeding in type-I ELMy H-mode plasmas in JET-ILW using EDGE2D-EIRENE. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 463, 135-142	3.3	24
47	Divertor plasma conditions and neutral dynamics in horizontal and vertical divertor configurations in JET-ILW low confinement mode plasmas. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 463, 471-476	3.3	17
46	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. <i>Physical Review Letters</i> , <b>2015</b> , 115, 215002	7.4	70
45	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 123028	3.3	28
44	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> , <b>2015</b> , 86, 103501	1.7	23
43	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 062509	2.1	40
42	Robust regression with CUDA and its application to plasma reflectometry. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 113507	1.7	1
41	Improved EDGE2D-EIRENE simulations of JET ITER-like wall L-mode discharges utilising poloidal VUV/visible spectral emission profiles. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 463, 582-585	3.3	6
40	The global build-up to intrinsic edge localized mode bursts seen in divertor full flux loops in JET. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 072506	2.1	4
39	WEST Physics Basis. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 063017	3.3	54

38	Runaway electron beam generation and mitigation during disruptions at JET-ILW. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 093013	3-3	36
37	Discriminating the trapped electron modes contribution in density fluctuation spectra. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 093021	3-3	27
36	Trapped electron mode driven electron heat transport in JET: experimental investigation and gyro-kinetic theory validation. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 113016	3-3	7
35	Pedestal confinement and stability in JET-ILW ELMy H-modes. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 113031	3-3	69
34	First dust study in JET with the ITER-like wall: sampling, analysis and classification. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 113033	3-3	43
33	Radiation asymmetries during the thermal quench of massive gas injection disruptions in JET. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 123027	3-3	14
32	L to H mode transition: parametric dependencies of the temperature threshold. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 073015	3-3	15
31	Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 123001	3-3	26
30	JET and COMPASS asymmetrical disruptions. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 113006	3-3	34
29	Dual sightline measurements of MeV range deuterons with neutron and gamma-ray spectroscopy at JET. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 123026	3-3	51
28	Conceptual Design of the Mechanical Tritium Pumping System for JET DTE2. <i>Fusion Science and Technology</i> , <b>2015</b> , 68, 630-634	1-1	4
27	Studies of the non-axisymmetric plasma boundary displacement in JET in presence of externally applied magnetic field. <i>Plasma Physics and Controlled Fusion</i> , <b>2015</b> , 57, 104003	2	2
26	Overview of the JET results. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 104001	3-3	34
25	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> , <b>2015</b> , 48, 144028	1-3	10
24	Determination of tungsten and molybdenum concentrations from an x-ray range spectrum in JET with the ITER-like wall configuration. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 144023	1-3	16
23	Free boundary equilibrium in 3D tokamaks with toroidal rotation. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 063032	3-3	2
22	Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition. <i>Radiation Physics and Chemistry</i> , <b>2015</b> , 116, 359-364	2-5	11
21	Key impact of finite-beta and fast ions in core and edge tokamak regions for the transition to advanced scenarios. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 053007	3-3	26



20	Beryllium migration in JET ITER-like wall plasmas. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 063021	3.3	70
19	Development of real-time MHD markers based on biorthogonal decomposition of signals from Mirnov coils. <i>Plasma Physics and Controlled Fusion</i> , <b>2014</b> , 56, 114012	2	14
18	Towards the detection of magnetohydrodynamics instabilities in a fusion reactor <b>2014</b> ,		2
17	Influence of atomic physics on EDGE2D-EIRENE simulations of JET divertor detachment with carbon and beryllium/tungsten plasma-facing components. <i>Nuclear Fusion</i> , <b>2014</b> , 54, 093012	3.3	28
16	Testing and commissioning the multinode ECRH realtime control system on the FTU tokamak. <i>Fusion Engineering and Design</i> , <b>2014</b> , 89, 214-223	1.7	6
15	Hardware and software architecture for the integration of the new EC waves launcher in FTU control system. <i>Fusion Engineering and Design</i> , <b>2013</b> , 88, 1050-1054	1.7	1
14	A real-time data acquisition and elaboration system for instabilities control in the FTU tokamak. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 720, 186-188	1.2	
13	An overview of FTU results. <i>Nuclear Fusion</i> , <b>2013</b> , 53, 104012	3.3	2
12	Fast elaboration of diagnostic data for real time control in FTU tokamak. <i>EPJ Web of Conferences</i> , <b>2012</b> , 32, 02015	0.3	2
11	Specifications and implementation of the RT MHD control system for the EC launcher of FTU. <i>EPJ Web of Conferences</i> , <b>2012</b> , 32, 04015	0.3	4
10	A Real-Time system for data acquisition, elaboration and actuator's control for magnetohydrodynamics instabilities in the FTU tokamak <b>2012</b> ,		1
9	The Real-Time system for MHD activity control in the FTU tokamak. <i>EPJ Web of Conferences</i> , <b>2012</b> , 32, 02003	0.3	2
8	Asymmetric tearing mode in the presence of viscosity. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 112108	2.1	11
7	Finite Larmor radius effects in the nonlinear dynamics of collisionless magnetic reconnection. <i>Plasma Physics and Controlled Fusion</i> , <b>2011</b> , 53, 035008	2	12
6	Overview of JET results. <i>Nuclear Fusion</i> , <b>2011</b> , 51, 094008	3.3	18
5	MHD Structure Analysis by Singular Value Decomposition as a Tool for ECRH RT-Control of Instabilities on FTU <b>2009</b> ,		2
4	Generation of a Nonuniform Transverse Ion Flow by a Propagating Electrostatic Wave in a Strongly Magnetized Hot Plasma. <i>Transport Theory and Statistical Physics</i> , <b>2005</b> , 34, 173-190		1
3	Turbulence healing via plasma-wave interaction: the results of a study via kinetic codes. <i>Computer Physics Communications</i> , <b>2005</b> , 169, 207-209	4.2	

- 2 Vlasov-Maxwell kinetic simulations of radio-frequency-driven ion flows in magnetized plasmas. *Physical Review E*, **2003**, 67, 026405 2.4 5
- 1 Chaos healing by separatrix disappearance and quasisingle helicity states of the reversed field pinch. *Physical Review Letters*, **2000**, 85, 3169-72 7.4 91