

Soare Sorin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4216892/soare-sorin-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.

370
papers

5,163
citations

34
h-index

46
g-index

376
ext. papers

6,359
ext. citations

2.5
avg, IF

5.56
L-index

#	Paper	IF	Citations
370	Obtaining mechanical parameters for metallisation stress sensor design using nanoindentation. <i>International Journal of Materials Research</i> , 2022 , 96, 1262-1266	0.5	1
369	Plasma physics and control studies planned in JT-60SA for ITER and DEMO operations and risk mitigation. <i>Plasma Physics and Controlled Fusion</i> , 2022 , 64, 054004	2	0
368	A new tangential gamma-ray spectrometer for fast ion measurements in deuterium and deuterium-tritium plasmas of the Joint European Torus. <i>Review of Scientific Instruments</i> , 2021 , 92, 043531 ⁷	1.7	7
367	Advances in the physics studies for the JT-60SA tokamak exploitation and research plan. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 014009	2	10
366	Conceptual design of JT-60SA edge Thomson scattering diagnostic. <i>Journal of Instrumentation</i> , 2020 , 15, C01011-C01011	1	3
365	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. <i>Physics of Plasmas</i> , 2019 , 26, 072501	2.1	9
364	Interpretative and predictive modelling of Joint European Torus collisionality scans. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 115004	2	1
363	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
362	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
361	Determination of isotope ratio in the divertor of JET-ILW by high-resolution He spectroscopy: HD experiment and implications for DIII experiment. <i>Nuclear Fusion</i> , 2019 , 59, 046011	3.3	11
360	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
359	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
358	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
357	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
356	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
355	Multiphysics approach to plasma neutron source modelling at the JET tokamak. <i>Nuclear Fusion</i> , 2019 , 59, 096020	3.3	8
354	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

353	Energetic ion losses “channeling” mechanism and strategy for mitigation. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 084008	2	0
352	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
351	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. <i>Journal of Instrumentation</i> , 2019 , 14, C05019-C05019	1	7
350	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
349	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. <i>Nuclear Fusion</i> , 2019 , 59, 112021	3.3	55
348	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
347	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
346	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
345	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
344	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
343	Adaptive learning for disruption prediction in non-stationary conditions. <i>Nuclear Fusion</i> , 2019 , 59, 086037,3	3.3	12
342	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
341	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
340	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
339	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
338	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
337	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
336	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

335	Tritium distributions on W-coated divertor tiles used in the third JET ITER-like wall campaign. <i>Nuclear Materials and Energy</i> , 2019 , 18, 258-261	2.1	8
334	Fast ion synergistic effects in JET high performance pulses. <i>Nuclear Fusion</i> , 2019 , 59, 056005	3.3	9
333	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. <i>Nuclear Fusion</i> , 2019 , 59, 056007	3.3	14
332	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> , 2019 , 52, 045001	1.3	1
331	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
330	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 014027	2	10
329	Novel method for determination of tritium depth profiles in metallic samples. <i>Nuclear Fusion</i> , 2019 , 59, 106006	3.3	0
328	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
327	Modification of the Alfvén wave spectrum by pellet injection. <i>Nuclear Fusion</i> , 2019 , 59, 106031	3.3	3
326	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
325	Ion cyclotron resonance heating scenarios for DEMO. <i>Nuclear Fusion</i> , 2019 , 59, 106051	3.3	11
324	Erosion, screening, and migration of tungsten in the JET divertor. <i>Nuclear Fusion</i> , 2019 , 59, 096035	3.3	34
323	Role of fast ion pressure in the isotope effect in JET L-mode plasmas. <i>Nuclear Fusion</i> , 2019 , 59, 096030	3.3	10
322	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
321	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
320	Control of the hydrogen:deuterium isotope mixture using pellets in JET. <i>Nuclear Fusion</i> , 2019 , 59, 106047	3.3	4
319	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. <i>Journal of Instrumentation</i> , 2019 , 14, C09018-C09018	1	
318	Radial variation of heat transport in L-mode JET discharges. <i>Nuclear Fusion</i> , 2019 , 59, 056006	3.3	2

317	Long-lived coupled peeling ballooning modes preceding ELMs on JET. <i>Nuclear Fusion</i> , 2019 , 59, 056004	3.3	4
316	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
315	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
314	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
313	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. <i>Journal of Nuclear Materials</i> , 2019 , 516, 202-213	3.3	8
312	Analysis of the outer divertor hot spot activity in the protection video camera recordings at JET. <i>Fusion Engineering and Design</i> , 2019 , 139, 115-123	1.7	3
311	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
310	Improved neutron activation dosimetry for fusion. <i>Fusion Engineering and Design</i> , 2019 , 139, 109-114	1.7	6
309	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
308	Runaway electron beam control. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 014036	2	18
307	Testing of tritium breeder blanket activation foil spectrometer during JET operations. <i>Fusion Engineering and Design</i> , 2018 , 136, 258-264	1.7	5
306	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. <i>Nuclear Fusion</i> , 2018 , 58, 056002	3.3	23
305	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 082005	3.3	20
304	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
303	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
302	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
301	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. <i>Physics of Plasmas</i> , 2018 , 25, 042304	3.3	15
300	MHD spectroscopy of JET plasmas with pellets via Alfvén eigenmodes. <i>Nuclear Fusion</i> , 2018 , 58, 082008	3.3	6

299	Divertor currents optimization procedure for JET-ILW high flux expansion experiments. <i>Fusion Engineering and Design</i> , 2018 , 129, 115-119	1.7	1
298	A multi-machine scaling of halo current rotation. <i>Nuclear Fusion</i> , 2018 , 58, 016050	3.3	13
297	Plasma-wall interaction on the divertor tiles of JET ITER-like wall from the viewpoint of micro/nanosopic observations. <i>Fusion Engineering and Design</i> , 2018 , 136, 199-204	1.7	4
296	High fusion performance at highTi/Tein JET-ILW baseline plasmas with high NBI heating power and low gas puffing. <i>Nuclear Fusion</i> , 2018 , 58, 036020	3.3	14
295	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. <i>Nuclear Fusion</i> , 2018 , 58, 034001	3.3	39
294	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
293	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. <i>Nuclear Fusion</i> , 2018 , 58, 016023	3.3	10
292	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
291	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. <i>Nuclear Fusion</i> , 2018 , 58, 016046	3.3	7
290	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. <i>Physical Review A</i> , 2018 , 97,	2.6	10
289	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
288	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
287	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
286	Isotope effects on L-H threshold and confinement in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014045	2	62
285	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
284	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
283	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
282	ICRH antenna S-matrix measurements and plasma coupling characterisation at JET. <i>Nuclear Fusion</i> , 2018 , 58, 046012	3.3	2

281	First observation of the depolarization of Thomson scattering radiation by a fusion plasma. <i>Nuclear Fusion</i> , 2018 , 58, 044003	3-3	
280	Escaping alpha-particle monitor for burning plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 082009	3-3	1
279	Nonlinear dynamic analysis of D _α 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
278	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
277	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
276	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
275	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
274	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
273	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
272	Integrated modelling of H-mode pedestal and confinement in JET-ILW. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014042	2	16
271	14 MeV calibration of JET neutron detectors phase 2: in-vessel calibration. <i>Nuclear Fusion</i> , 2018 , 58, 106016	3-3	10
270	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
269	Electron acceleration in a JET disruption simulation. <i>Nuclear Fusion</i> , 2018 , 58, 106022	3-3	13
268	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
267	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
266	Scaling of the geodesic acoustic mode amplitude on JET. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 085006	2	5
265	First principle integrated modeling of multi-channel transport including Tungsten in JET. <i>Nuclear Fusion</i> , 2018 , 58, 096003	3-3	14
264	Alpha heating, isotopic mass, and fast ion effects in deuterium-tritium experiments. <i>Nuclear Fusion</i> , 2018 , 58, 096011	3-3	1

263	Pedestal evolution physics in low triangularity JET tokamak discharges with ITER-like wall. <i>Nuclear Fusion</i> , 2018 , 58, 016021	3.3	10
262	On the universality of power laws for tokamak plasma predictions. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 025028	2	6
261	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
260	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
259	On the Use of Transfer Entropy to Investigate the Time Horizon of Causal Influences between Signals. <i>Entropy</i> , 2018 , 20,	2.8	9
258	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
257	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
256	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
255	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
254	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
253	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
252	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
251	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
250	Assessment of the baseline scenario at $q_{95} \sim 3$ for ITER. <i>Nuclear Fusion</i> , 2018 , 58, 126010	3.3	15
249	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
248	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> , 2018 , 58, 096006	3.3	26
247	OVERVIEW OF NEUTRON MEASUREMENTS IN JET FUSION DEVICE. <i>Radiation Protection Dosimetry</i> , 2018 , 180, 102-108	0.9	1
246	Propagating transport-code input parameter uncertainties with deterministic sampling. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 125010	2	

245	Synthetic spectra of BeH, BeD and BeT for emission modeling in JET plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 185701	1.3	13
244	Assessment of the strength of kinetic effects of parallel electron transport in the SOL and divertor of JET high radiative H-mode plasmas using EDGE2D-EIRENE and KIPP codes. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 115011	2	5
243	First principles of modelling the stabilization of microturbulence by fast ions. <i>Nuclear Fusion</i> , 2018 , 58, 082024	3.3	10
242	Inter-ELM evolution of the edge current density in JET-ILW type I ELMy H-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 085003	2	4
241	Impact of electron-scale turbulence and multi-scale interactions in the JET tokamak. <i>Nuclear Fusion</i> , 2018 , 58, 124003	3.3	10
240	Equilibrium reconstruction at JET using Stokes model for polarimetry. <i>Nuclear Fusion</i> , 2018 , 58, 106032	3.3	16
239	Shutdown dose rate neutronics experiment during high performances DD operations at JET. <i>Fusion Engineering and Design</i> , 2018 , 136, 1545-1549	1.7	3
238	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. <i>Nuclear Fusion</i> , 2018 , 58, 076022	3.3	14
237	Analysis of plasma termination in the JET hybrid scenario. <i>Nuclear Fusion</i> , 2018 , 58, 076027	3.3	5
236	Maximum likelihood bolometric tomography for the determination of the uncertainties in the radiation emission on JET TOKAMAK. <i>Review of Scientific Instruments</i> , 2018 , 89, 053504	1.7	12
235	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
234	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. <i>Nuclear Fusion</i> , 2018 , 58, 076028	3.3	22
233	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> , 2018 , 60, 074008	2	17
232	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. <i>Nuclear Fusion</i> , 2018 , 58, 096029	3.3	15
231	Feasibility of a far infrared laser based polarimeter diagnostic system for the JT-60SA fusion experiment. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 075016	2	3
230	On the mechanisms governing gas penetration into a tokamak plasma during a massive gas injection. <i>Nuclear Fusion</i> , 2017 , 57, 016027	3.3	6
229	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> , 2017 , 847, 199-204	1.2	8
228	High power neon seeded JET discharges: Experiments and simulations. <i>Nuclear Materials and Energy</i> , 2017 , 12, 882-886	2.1	9

227	Assessment of erosion, deposition and fuel retention in the JET-ILW divertor from ion beam analysis data. <i>Nuclear Materials and Energy</i> , 2017 , 12, 559-563	2.1	23
226	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> , 2017 , 12, 548-552	2.1	11
225	Energy balance in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 227-233	2.1	13
224	Possible influence of near SOL plasma on the H-mode power threshold. <i>Nuclear Materials and Energy</i> , 2017 , 12, 273-277	2.1	12
223	Progress in reducing ICRF-specific impurity release in ASDEX upgrade and JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 1194-1198	2.1	8
222	Gyrokinetic study of turbulent convection of heavy impurities in tokamak plasmas at comparable ion and electron heat fluxes. <i>Nuclear Fusion</i> , 2017 , 57, 022009	3.3	21
221	Progress in understanding disruptions triggered by massive gas injection via 3D non-linear MHD modelling with JOREK. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014006	2	36
220	Studies of dust from JET with the ITER-Like Wall: Composition and internal structure. <i>Nuclear Materials and Energy</i> , 2017 , 12, 582-587	2.1	29
219	Plasma impact on diagnostic mirrors in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 506-512	2.1	24
218	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> , 2017 , 59, 035003	2	21
217	ITER oriented neutronics benchmark experiments on neutron streaming and shutdown dose rate at JET. <i>Fusion Engineering and Design</i> , 2017 , 123, 171-176	1.7	16
216	Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. <i>Nuclear Fusion</i> , 2017 , 57, 076006	3.3	20
215	Plasma edge and plasma-wall interaction modelling: Lessons learned from metallic devices. <i>Nuclear Materials and Energy</i> , 2017 , 12, 3-17	2.1	13
214	Impact of the JET ITER-like wall on H-mode plasma fueling. <i>Nuclear Fusion</i> , 2017 , 57, 066024	3.3	4
213	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. <i>Nature Physics</i> , 2017 , 13, 973-978	16.2	50
212	Correlation analysis for energy losses, waiting times and durations of type I edge-localized modes in the Joint European Torus. <i>Nuclear Fusion</i> , 2017 , 57, 036026	3.3	2
211	Thermal analysis of protruding surfaces in the JET divertor. <i>Nuclear Fusion</i> , 2017 , 57, 066009	3.3	
210	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 055001	2	22

209	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments. <i>Fusion Engineering and Design</i> , 2017 , 123, 749-753	1.7	9
208	The effect of the isotope on the H-mode density limit. <i>Nuclear Fusion</i> , 2017 , 57, 086007	3.3	8
207	Micro-/nano-characterization of the surface structures on the divertor tiles from JET ITER-like wall. <i>Fusion Engineering and Design</i> , 2017 , 116, 1-4	1.7	14
206	Technical preparations for the in-vessel 14 MeV neutron calibration at JET. <i>Fusion Engineering and Design</i> , 2017 , 117, 107-114	1.7	10
205	The preparation of the Shutdown Dose Rate experiment for the next JET Deuterium-Tritium campaign. <i>Fusion Engineering and Design</i> , 2017 , 123, 1039-1043	1.7	5
204	Status of ITER material activation experiments at JET. <i>Fusion Engineering and Design</i> , 2017 , 124, 1150-1155	1.5	9
203	CeBr ₃ based detector for gamma-ray spectrometer upgrade at JET. <i>Fusion Engineering and Design</i> , 2017 , 123, 986-989	1.7	3
202	Expanding the role of impurity spectroscopy for investigating the physics of high-Z dissipative divertors. <i>Nuclear Materials and Energy</i> , 2017 , 12, 91-99	2.1	5
201	Overview of the JET ITER-like wall divertor. <i>Nuclear Materials and Energy</i> , 2017 , 12, 499-505	2.1	36
200	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 111-118	2.1	61
199	Main chamber wall plasma loads in JET-ITER-like wall at high radiated fraction. <i>Nuclear Materials and Energy</i> , 2017 , 12, 234-240	2.1	5
198	Structure, tritium depth profile and desorption from plasma-facing beryllium materials of ITER-Like-Wall at JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 642-647	2.1	12
197	3D simulations of gas puff effects on edge plasma and ICRF coupling in JET. <i>Nuclear Fusion</i> , 2017 , 57, 056042	3.3	8
196	Determining the prediction limits of models and classifiers with applications for disruption prediction in JET. <i>Nuclear Fusion</i> , 2017 , 57, 016024	3.3	4
195	Comparative H-mode density limit studies in JET and AUG. <i>Nuclear Materials and Energy</i> , 2017 , 12, 100-110	1.0	7
194	The effect of lower hybrid waves on JET plasma rotation. <i>Nuclear Fusion</i> , 2017 , 57, 034002	3.3	6
193	Be ITER-like wall at the JET tokamak under plasma. <i>Physica Scripta</i> , 2017 , T170, 014049	2.6	3
192	Global and pedestal confinement and pedestal structure in dimensionless collisionality scans of low-triangularity H-mode plasmas in JET-ILW. <i>Nuclear Fusion</i> , 2017 , 57, 016012	3.3	14

191	Fuel inventory and deposition in castellated structures in JET-ILW. <i>Nuclear Fusion</i> , 2017 , 57, 066027	3.3	20
190	A tool to support the construction of reliable disruption databases. <i>Fusion Engineering and Design</i> , 2017 , 125, 139-153	1.7	9
189	Calibration of neutron detectors on the Joint European Torus. <i>Review of Scientific Instruments</i> , 2017 , 88, 103505	1.7	14
188	Self-consistent coupling of DSMC method and SOLPS code for modeling tokamak particle exhaust. <i>Nuclear Fusion</i> , 2017 , 57, 066037	3.3	5
187	New Bond Coat Materials for Thermal Barrier Coating Systems Processed Via Different Routes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012045	0.4	3
186	Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures. <i>Nuclear Fusion</i> , 2017 , 57, 086024	3.3	19
185	On efficiency and interpretation of sawteeth pacing with on-axis ICRH modulation in JET. <i>Nuclear Fusion</i> , 2017 , 57, 126057	3.3	5
184	Towards self-consistent plasma modelisation in presence of neoclassical tearing mode and sawteeth: effects on transport coefficients. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 125012	2	2
183	Transient induced tungsten melting at the Joint European Torus (JET). <i>Physica Scripta</i> , 2017 , T170, 014013	3.3	15
182	Evaluation of the plasma hydrogen isotope content by residual gas analysis at JET and AUG. <i>Physica Scripta</i> , 2017 , T170, 014021	2.6	5
181	Numerical analysis of ELM stability with rotation and ion diamagnetic drift effects in JET. <i>Nuclear Fusion</i> , 2017 , 57, 126001	3.3	5
180	Simulation of JET ITER-Like Wall pulses at high neon seeding rate. <i>Nuclear Fusion</i> , 2017 , 57, 126021	3.3	5
179	Studies of the pedestal structure and inter-ELM pedestal evolution in JET with the ITER-like wall. <i>Nuclear Fusion</i> , 2017 , 57, 116012	3.3	22
178	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> , 2017 , 59, 045001	2	31
177	Investigation and plasma cleaning of first mirrors coated with relevant ITER contaminants: beryllium and tungsten. <i>Nuclear Fusion</i> , 2017 , 57, 086019	3.3	13
176	The global build-up to intrinsic ELM bursts and comparison with pellet triggered ELMs seen in JET. <i>Nuclear Fusion</i> , 2017 , 57, 022017	3.3	2
175	Dynamics and stability of divertor detachment in H-mode plasmas on JET. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 095003	2	19
174	Quartz micro-balance results of pulse-resolved erosion/deposition in the JET-ILW divertor. <i>Nuclear Materials and Energy</i> , 2017 , 12, 478-482	2.1	4

173	The isotope effect on divertor conditions and neutral pumping in horizontal divertor configurations in JET-ILW Ohmic plasmas. <i>Nuclear Materials and Energy</i> , 2017 , 12, 791-797	2.1	6
172	ELM divertor peak energy fluence scaling to ITER with data from JET, MAST and ASDEX upgrade. <i>Nuclear Materials and Energy</i> , 2017 , 12, 84-90	2.1	74
171	Surface composition and structure of divertor tiles following the JET tokamak operation with the ITER-like wall. <i>Nuclear Fusion</i> , 2017 , 57, 076027	3.3	8
170	Real time control developments at JET in preparation for deuterium-tritium operation. <i>Fusion Engineering and Design</i> , 2017 , 123, 535-540	1.7	7
169	Erosion at the inner wall of JET during the discharge campaign 2013-2014. <i>Nuclear Materials and Energy</i> , 2017 , 11, 20-24	2.1	10
168	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , 2017 , 57, 102001	3.3	125
167	Deuterium retention in the divertor tiles of JET ITER-Like wall. <i>Nuclear Materials and Energy</i> , 2017 , 12, 655-661	2.1	10
166	Gyrokinetic simulations of particle transport in pellet fuelled JET discharges. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 105005	2	1
165	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. <i>Nuclear Fusion</i> , 2017 , 57, 036027	3.3	16
164	Impact of divertor geometry on H-mode confinement in the JET metallic wall. <i>Nuclear Fusion</i> , 2017 , 57, 086025	3.3	18
163	Overview of fuel inventory in JET with the ITER-like wall. <i>Nuclear Fusion</i> , 2017 , 57, 086045	3.3	35
162	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> , 2017 , 57, 086023	3.3	17
161	Analysis of activation and damage of ITER material samples expected from DD/DT campaign at JET. <i>Fusion Engineering and Design</i> , 2017 , 125, 307-313	1.7	6
160	EDGE2D-EIRENE simulations of the impact of poloidal flux expansion on the radiative divertor performance in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 786-790	2.1	3
159	Assessment of divertor heat load with and without external magnetic perturbation. <i>Nuclear Fusion</i> , 2017 , 57, 066045	3.3	9
158	Intra-ELM tungsten sputtering in JET ITER-like wall: analytical studies of Be impurity and ELM type influence. <i>Physica Scripta</i> , 2017 , T170, 014065	2.6	3
157	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> , 2017 , 59, 014023	2	22
156	Impurity re-distribution in the corner regions of the JET divertor. <i>Physica Scripta</i> , 2017 , T170, 014060	2.6	5

155	Experience on divertor fuel retention after two ITER-Like Wall campaigns. <i>Physica Scripta</i> , 2017 , T170, 014063	2.6	21
154	The near infrared imaging system for the real-time protection of the JET ITER-like wall. <i>Physica Scripta</i> , 2017 , T170, 014027	2.6	7
153	Activation measurements in support of the 14 MeV neutron calibration of JET neutron monitors. <i>Fusion Engineering and Design</i> , 2017 , 125, 50-56	1.7	9
152	MeV-range velocity-space tomography from gamma-ray and neutron emission spectrometry measurements at JET. <i>Nuclear Fusion</i> , 2017 , 57, 056001	3.3	37
151	Characterization of a compact LaBr ₃ (Ce) detector with Silicon photomultipliers at high 14 MeV neutron fluxes. <i>Journal of Instrumentation</i> , 2017 , 12, C10007-C10007	1	8
150	Fine metal dust particles on the wall probes from JET-ILW. <i>Physica Scripta</i> , 2017 , T170, 014038	2.6	15
149	Statistical validation of predictive TRANSP simulations of baseline discharges in preparation for extrapolation to JET DIII. <i>Nuclear Fusion</i> , 2017 , 57, 066032	3.3	8
148	An analytical expression for ion velocities at the wall including the sheath electric field and surface biasing for erosion modeling at JET ILW. <i>Nuclear Materials and Energy</i> , 2017 , 12, 341-345	2.1	10
147	Recent progress towards a quantitative description of filamentary SOL transport. <i>Nuclear Fusion</i> , 2017 , 57, 056044	3.3	38
146	Axisymmetric oscillations at LH transitions in JET: M-mode. <i>Nuclear Fusion</i> , 2017 , 57, 022021	3.3	16
145	Dimensionless scalings of confinement, heat transport and pedestal stability in JET-ILW and comparison with JET-C. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014014	2	20
144	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 124005	2	26
143	Synthetic neutron camera and spectrometer in JET based on AFSI-ASCOT simulations. <i>Journal of Instrumentation</i> , 2017 , 12, C09010-C09010	1	6
142	Physics and operation oriented activities in preparation of the JT-60SA tokamak exploitation. <i>Nuclear Fusion</i> , 2017 , 57, 085001	3.3	15
141	Axisymmetric global Alfvén eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. <i>Physics of Plasmas</i> , 2017 , 24, 122505	2.1	9
140	Metallic mirrors for plasma diagnosis in current and future reactors: tests for ITER and DEMO. <i>Physica Scripta</i> , 2017 , T170, 014061	2.6	8
139	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. <i>Physica Scripta</i> , 2017 , T170, 014018	2.6	16
138	Analyses of microstructure, composition and retention of hydrogen isotopes in divertor tiles of JET with the ITER-like wall. <i>Physica Scripta</i> , 2017 , T170, 014031	2.6	10

137	Mitigation of divertor heat loads by strike point sweeping in high power JET discharges. <i>Physica Scripta</i> , 2017 , T170, 014040	2.6	7
136	Bayesian electron density inference from JET lithium beam emission spectra using Gaussian processes. <i>Nuclear Fusion</i> , 2017 , 57, 036017	3.3	9
135	Synthetic NPA diagnostic for energetic particles in JET plasmas. <i>Journal of Instrumentation</i> , 2017 , 12, C11025-C11025	1	3
134	Comparison of JET AVDE disruption data with M3D simulations and implications for ITER. <i>Physics of Plasmas</i> , 2017 , 24, 102512	2.1	9
133	Erosion and deposition in the JET divertor during the second ITER-like wall campaign. <i>Physica Scripta</i> , 2017 , T170, 014058	2.6	22
132	Tritium analysis of divertor tiles used in JET ITER-like wall campaigns by means of β -ray induced x-ray spectrometry. <i>Physica Scripta</i> , 2017 , T170, 014014	2.6	4
131	Time-resolved deposition in the remote region of the JET-ILW divertor: measurements and modelling. <i>Physica Scripta</i> , 2017 , T170, 014059	2.6	5
130	The neutron deficit in the JET tokamak. <i>Nuclear Fusion</i> , 2017 , 57, 076029	3.3	17
129	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> , 2016 , 58, 123001	2	4
128	The role of MHD in causing impurity peaking in JET hybrid plasmas. <i>Nuclear Fusion</i> , 2016 , 56, 066002	3.3	31
127	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 045011	2	17
126	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. <i>Physical Review Letters</i> , 2016 , 116, 065002	7.4	59
125	Improved ERO modelling for spectroscopy of physically and chemically assisted eroded beryllium from the JET-ILW. <i>Nuclear Materials and Energy</i> , 2016 , 9, 604-609	2.1	14
124	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. <i>Nuclear Fusion</i> , 2016 , 56, 046009	3.3	21
123	Plasma turbulence measured with fast frequency swept reflectometry in JET H-mode plasmas. <i>Nuclear Fusion</i> , 2016 , 56, 126019	3.3	4
122	Characteristics of pre-ELM structures during ELM control experiment on JET with $n = 2$ magnetic perturbations. <i>Nuclear Fusion</i> , 2016 , 56, 092011	3.3	
121	Evaluation of reconstruction errors and identification of artefacts for JET gamma and neutron tomography. <i>Review of Scientific Instruments</i> , 2016 , 87, 013502	1.7	5
120	A generalized Abel inversion method for gamma-ray imaging of thermonuclear plasmas. <i>Journal of Instrumentation</i> , 2016 , 11, C03001-C03001	1	2

119	Experience of handling beryllium, tritium and activated components from JET ITER like wall. <i>Physica Scripta</i> , 2016 , T167, 014057	2.6	17
118	Stabilization of sawteeth with third harmonic deuterium ICRF-accelerated beam in JET plasmas. <i>Physics of Plasmas</i> , 2016 , 23, 012505	2.1	4
117	Tritium distributions on tungsten and carbon tiles used in the JET divertor. <i>Physica Scripta</i> , 2016 , T167, 014009	2.6	9
116	Multi-machine scaling of the main SOL parallel heat flux width in tokamak limiter plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 074005	2	33
115	Global optimization driven by genetic algorithms for disruption predictors based on APODIS architecture. <i>Fusion Engineering and Design</i> , 2016 , 112, 1014-1018	1.7	5
114	Characterization of a diamond detector to be used as neutron yield monitor during the in-vessel calibration of JET neutron detectors in preparation of the DT experiment. <i>Fusion Engineering and Design</i> , 2016 , 106, 93-98	1.7	8
113	Neutronics experiments and analyses in preparation of DT operations at JET. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 895-905	1.7	17
112	The role and application of ion beam analysis for studies of plasma-facing components in controlled fusion devices. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 371, 4-11	1.2	14
111	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014026	2	17
110	Deuterium trapping and release in JET ITER-like wall divertor tiles. <i>Physica Scripta</i> , 2016 , T167, 014074	2.6	18
109	Erosion and deposition in the JET divertor during the first ILW campaign. <i>Physica Scripta</i> , 2016 , T167, 014051	2.6	47
108	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014036	2	45
107	Real-time control of ELM and sawtooth frequencies: similarities and differences. <i>Nuclear Fusion</i> , 2016 , 56, 016008	3.3	7
106	Studies of Be migration in the JET tokamak using AMS with 10 Be marker. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 371, 370-375	1.2	9
105	JET experiments with tritium and deuterium-tritium mixtures. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 925-936	1.7	10
104	Deposition in the inner and outer corners of the JET divertor with carbon wall and metallic ITER-like wall. <i>Physica Scripta</i> , 2016 , T167, 014052	2.6	9
103	JET experience on managing radioactive waste and implications for ITER. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 979-985	1.7	6
102	Radiation damage and nuclear heating studies in selected functional materials during the JET DT campaign. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 1011-1015	1.7	12

101	Modelling of plasma-edge and plasma-wall interaction physics at JET with the metallic first-wall. <i>Physica Scripta</i> , 2016 , T167, 014078	2.6	2
100	Long-term fuel retention in JET ITER-like wall. <i>Physica Scripta</i> , 2016 , T167, 014075	2.6	44
99	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> , 2016 , T167, 014049	2.6	5
98	Advances in understanding and utilising ELM control in JET. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014017	2	5
97	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. <i>Nuclear Fusion</i> , 2016 , 56, 026001	3.3	25
96	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. <i>Nuclear Fusion</i> , 2016 , 56, 026007	3.3	38
95	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , 2016 , 56, 026006	3.3	14
94	Raman microscopy investigation of beryllium materials. <i>Physica Scripta</i> , 2016 , T167, 014027	2.6	8
93	Risk Mitigation for ITER by a Prolonged and Joint International Operation of JET. <i>Journal of Fusion Energy</i> , 2016 , 35, 85-93	1.6	3
92	On determining the prediction limits of mathematical models for time series. <i>Journal of Instrumentation</i> , 2016 , 11, C07013-C07013	1	1
91	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> , 2016 , 87, 013507	1.7	5
90	Bayesian modelling of the emission spectrum of the Joint European Torus Lithium Beam Emission Spectroscopy system. <i>Review of Scientific Instruments</i> , 2016 , 87, 023501	1.7	8
89	Characterisation of the deuterium recycling at the W divertor target plates in JET during steady-state plasma conditions and ELMs. <i>Physica Scripta</i> , 2016 , T167, 014076	2.6	16
88	Simulating the nitrogen migration in Be/W tokamaks with WallDYN. <i>Physica Scripta</i> , 2016 , T167, 014079	2.6	4
87	Classification of JET Neutron and Gamma Emissivity Profiles. <i>Journal of Instrumentation</i> , 2016 , 11, C05021-C05021		
86	Upgrades of Diagnostic Techniques and Technologies for JET Next D-T Campaigns. <i>IEEE Transactions on Nuclear Science</i> , 2016 , 63, 1674-1681	1.7	4
85	Core fusion power gain and alpha heating in JET, TFTR, and ITER. <i>Nuclear Fusion</i> , 2016 , 56, 056002	3.3	4
84	Plasma confinement at JET. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014034	2	23

83	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> , 2016 , T167, 014005	2.6	24
82	Comparative gyrokinetic analysis of JET baseline H-mode core plasmas with carbon wall and ITER-like wall. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 045021	2	2
81	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> , 2016 , 56, 640-645	1.4	21
80	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. <i>Physica Scripta</i> , 2016 , 91, 064003	2.6	16
79	ITER-like antenna capacitors voltage probes: Circuit/electromagnetic calculations and calibrations. <i>Review of Scientific Instruments</i> , 2016 , 87, 104705	1.7	6
78	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 115005	2	12
77	MHD marking using the MSE polarimeter optics in ILW JET plasmas. <i>Review of Scientific Instruments</i> , 2016 , 87, 11E556	1.7	
76	Benchmarking the GENE and GYRO codes through the relative roles of electromagnetic and E \times B stabilization in JET high-performance discharges. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 125018	2	13
75	Deep deuterium retention and Be/W mixing at tungsten coated surfaces in the JET divertor. <i>Physica Scripta</i> , 2016 , T167, 014061	2.6	13
74	JET diagnostic enhancements in preparation for DT operations. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D443	1.7	5
73	Melt damage to the JET ITER-like Wall and divertor. <i>Physica Scripta</i> , 2016 , T167, 014070	2.6	43
72	Performance of the prototype LaBr spectrometer developed for the JET gamma-ray camera upgrade. <i>Review of Scientific Instruments</i> , 2016 , 87, 11E717	1.7	23
71	Neutron emission spectroscopy of DT plasmas at enhanced energy resolution with diamond detectors. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D822	1.7	13
70	Response function of single crystal synthetic diamond detectors to 1-4 MeV neutrons for spectroscopy of D plasmas. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D823	1.7	12
69	How to assess the efficiency of synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , 2016 , 56, 076008	3.3	8
68	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> , 2016 , 58, 125014	2	4
67	Numerical calculations of non-inductive current driven by microwaves in JET. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 125001	2	3
66	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. <i>Nuclear Fusion</i> , 2016 , 56, 106026	3.3	18

65	Technological exploitation of Deuterium-Tritium operations at JET in support of ITER design, operation and safety. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 278-285	1.7	22
64	JET Tokamak, preparation of a safety case for tritium operations. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 1308-1312	1.7	3
63	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. <i>Physica Scripta</i> , 2016 , T167, 014077	2.6	14
62	Neutronic analysis of JET external neutron monitor response. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 99-103	1.7	4
61	Advanced design of the Mechanical Tritium Pumping System for JET DTE2. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 359-364	1.7	9
60	The non-thermal origin of the tokamak low-density stability limit. <i>Nuclear Fusion</i> , 2016 , 56, 056010	3.3	2
59	Diagnostic application of magnetic islands rotation in JET. <i>Nuclear Fusion</i> , 2016 , 56, 076004	3.3	11
58	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. <i>Nuclear Fusion</i> , 2016 , 56, 106010	3.3	18
57	Turbulent transport analysis of JET H-mode and hybrid plasmas using QuaLiKiz and Trapped Gyro Landau Fluid. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 035003	2	6
56	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. <i>Nuclear Fusion</i> , 2015 , 55, 053015	3.3	55
55	Plasma isotopic changeover experiments in JET under carbon and ITER-like wall conditions. <i>Nuclear Fusion</i> , 2015 , 55, 043021	3.3	8
54	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. <i>Nuclear Fusion</i> , 2015 , 55, 053028	3.3	26
53	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> , 2015 , 57, 065002	2	1
52	Integrated core-divertor modelling for ITER including impurity: effect of tungsten on fusion performance in H-mode and hybrid scenario. <i>Nuclear Fusion</i> , 2015 , 55, 053032	3.3	5
51	Improved confinement in JET high plasmas with an ITER-like wall. <i>Nuclear Fusion</i> , 2015 , 55, 053031	3.3	63
50	Influence of the E _z drift in high recycling divertors on target asymmetries. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 095002	2	41
49	Ion target impact energy during Type I edge localized modes in JET ITER-like Wall. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 085006	2	38
48	Experimental evaluation of stable long term operation of semiconductor magnetic sensors at ITER relevant environment. <i>Nuclear Fusion</i> , 2015 , 55, 083006	3.3	14

47	The merits of ion cyclotron resonance heating schemes for sawtooth control in tokamak plasmas. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	4
46	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. <i>Physical Review Letters</i> , 2015 , 115, 215002	7.4	70
45	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. <i>Nuclear Fusion</i> , 2015 , 55, 123028	3.3	28
44	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. <i>Physics of Plasmas</i> , 2015 , 22, 062509	2.1	40
43	Robust regression with CUDA and its application to plasma reflectometry. <i>Review of Scientific Instruments</i> , 2015 , 86, 113507	1.7	1
42	WEST Physics Basis. <i>Nuclear Fusion</i> , 2015 , 55, 063017	3.3	54
41	Runaway electron beam generation and mitigation during disruptions at JET-ILW. <i>Nuclear Fusion</i> , 2015 , 55, 093013	3.3	36
40	Discriminating the trapped electron modes contribution in density fluctuation spectra. <i>Nuclear Fusion</i> , 2015 , 55, 093021	3.3	27
39	Trapped electron mode driven electron heat transport in JET: experimental investigation and gyro-kinetic theory validation. <i>Nuclear Fusion</i> , 2015 , 55, 113016	3.3	7
38	Pedestal confinement and stability in JET-ILW ELMy H-modes. <i>Nuclear Fusion</i> , 2015 , 55, 113031	3.3	69
37	First dust study in JET with the ITER-like wall: sampling, analysis and classification. <i>Nuclear Fusion</i> , 2015 , 55, 113033	3.3	43
36	Radiation asymmetries during the thermal quench of massive gas injection disruptions in JET. <i>Nuclear Fusion</i> , 2015 , 55, 123027	3.3	14
35	L to H mode transition: parametric dependencies of the temperature threshold. <i>Nuclear Fusion</i> , 2015 , 55, 073015	3.3	15
34	Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. <i>Nuclear Fusion</i> , 2015 , 55, 123001	3.3	26
33	JET and COMPASS asymmetrical disruptions. <i>Nuclear Fusion</i> , 2015 , 55, 113006	3.3	34
32	Dual sightline measurements of MeV range deuterons with neutron and gamma-ray spectroscopy at JET. <i>Nuclear Fusion</i> , 2015 , 55, 123026	3.3	51
31	Conceptual Design of the Mechanical Tritium Pumping System for JET DTE2. <i>Fusion Science and Technology</i> , 2015 , 68, 630-634	1.1	4
30	Studies of the non-axisymmetric plasma boundary displacement in JET in presence of externally applied magnetic field. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 104003	2	2

29	Overview of the JET results. <i>Nuclear Fusion</i> , 2015 , 55, 104001	3.3	34
28	On the interpretation of high-resolution x-ray spectra from JET with an ITER-like wall. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 144028	1.3	10
27	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> , 2015 , 48, 144023	1.3	16
26	Free boundary equilibrium in 3D tokamaks with toroidal rotation. <i>Nuclear Fusion</i> , 2015 , 55, 063032	3.3	2
25	Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition. <i>Radiation Physics and Chemistry</i> , 2015 , 116, 359-364	2.5	11
24	Key impact of finite-beta and fast ions in core and edge tokamak regions for the transition to advanced scenarios. <i>Nuclear Fusion</i> , 2015 , 55, 053007	3.3	26
23	Beryllium migration in JET ITER-like wall plasmas. <i>Nuclear Fusion</i> , 2015 , 55, 063021	3.3	70
22	Fusion alpha-particle diagnostics for DT experiments on the joint European torus 2014 ,		7
21	Overview of the JET results with the ITER-like wall. <i>Nuclear Fusion</i> , 2013 , 53, 104002	3.3	58
20	Definition of the radiation fields for the JET gamma-ray spectrometer diagnostics. <i>Fusion Engineering and Design</i> , 2013 , 88, 1366-1370	1.7	3
19	Tandem collimators for the JET tangential gamma-ray spectrometer. <i>Fusion Engineering and Design</i> , 2011 , 86, 1359-1364	1.7	2
18	Implementation and testing of the JET gamma-ray cameras neutron filters pneumatic system. <i>Fusion Engineering and Design</i> , 2011 , 86, 1196-1199	1.7	1
17	Overview of JET results. <i>Nuclear Fusion</i> , 2011 , 51, 094008	3.3	18
16	Overview of JET results. <i>Nuclear Fusion</i> , 2009 , 49, 104006	3.3	43
15	Design of the JET upgraded gamma-ray cameras. <i>Fusion Engineering and Design</i> , 2009 , 84, 2052-2057	1.7	5
14	Upgrade of the JET Gamma-Ray Cameras. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
13	The maximum likelihood reconstruction method for JET neutron tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 595, 623-630	1.2	19
12	Test chip for the development and evaluation of sensors for measuring stress in metal interconnects. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2005 , 18, 255-261	2.6	10

11	Calibration of MEMS-based test structures for predicting thermomechanical stress in integrated circuit interconnect structures. <i>IEEE Transactions on Device and Materials Reliability</i> , 2005 , 5, 713-719	1.6	8
10	Sensitivity of a Rotating Beam Sensor for Stress Evaluation in Aluminium Thin Films. <i>Materials Science Forum</i> , 2005 , 490-491, 649-654	0.4	2
9	Obtaining mechanical parameters for metallisation stress sensor design using nanoindentation. <i>International Journal of Materials Research</i> , 2005 , 96, 1262-1266		3
8	Nanoindentation assessment of aluminium metallisation; the effect of creep and pile-up. <i>Surface and Coatings Technology</i> , 2004 , 177-178, 497-503	4.4	23
7	Dependence of process parameters on stress generation in aluminum thin films. <i>IEEE Transactions on Device and Materials Reliability</i> , 2004 , 4, 482-487	1.6	14
6	Overview of JET results. <i>Nuclear Fusion</i> , 2003 , 43, 1540-1554	3.3	35
5	Direct measurement of residual stress in integrated circuit interconnect features. <i>Microelectronics Reliability</i> , 2003 , 43, 1797-1801	1.2	5
4	Direct measurement of residual stress in sub-micron interconnects. <i>Semiconductor Science and Technology</i> , 2003 , 18, 992-996	1.8	26
3	Hinge Sensitivity in a Micro-Rotating Structure for predicting Induced Thermo Mechanical Stress in Integrated Circuit Metal Interconnects. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 795, 52		
2	Determination of mechanical parameters for rotating MEMS structures as a function of deposition method. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 795, 535		0
1	Assessment of aluminium metallisation by nanoindentation. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		0