Alexander Ya Lukin

List of Publications by Year in Descending Order

458 papers	5,772 citations	34 h-index	45 g-index
462 ext. papers	7,076 ext. citations	2.2 avg, IF	5.7 L-index

#	Paper	IF	Citations
458	Reference adiabatic calorimeter: hardware implementation and control algorithms. *Izmeritel□naya Tekhnika*, **2021**, 38-45	0.2	
457	Reconstruction of the Image Metric of Periodic Structures in an Opto-Digital Angle Measurement System. *Sensors*, **2021**, 21,	3.8	1
456	Thermal ablation of biological tissue by high intensity ultrasound. *Journal of Physics: Conference Series*, **2020**, 1565, 012060	0.3	
455	State Primary Standard of Unit of Specific Heat Capacity of Solids (Get 60-2019). *Measurement Techniques*, **2020**, 63, 407-413	0.4	1
454	High-Intensity Focused Ultrasound: Heating and Destruction of Biological Tissue. *Technical Physics*, **2020**, 65, 1455-1466	0.5	4
453	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. *Physics of Plasmas*, **2019**, 26, 072501	2.1	9
452	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using □ingerprints□*Nuclear Fusion*, **2019**, 59, 096001	3.3	43
451	. *IEEE Transactions on Plasma Science*, **2019**, 47, 1871-1877	1.3	1
450	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H□spectroscopy: HD□ experiment and implications for D□ experiment. *Nuclear Fusion*, **2019**, 59, 046011	3.3	11
449	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. *Nuclear Materials and Energy*, **2019**, 18, 239-244	2.1	14
448	The software and hardware architecture of the real-time protection of in-vessel components in JET-ILW. *Nuclear Fusion*, **2019**, 59, 076016	3.3	7
447	Impact of fast ions on density peaking in JET: fluid and gyrokinetic modeling. *Plasma Physics and Controlled Fusion*, **2019**, 61, 075008	2	2
446	Geodesic acoustic mode evolution in L-mode approaching the L□H transition on JET. *Plasma Physics and Controlled Fusion*, **2019**, 61, 075007	2	4
445	Multiphysics approach to plasma neutron source modelling at the JET tokamak. *Nuclear Fusion*, **2019**, 59, 096020	3.3	8
444	Dynamic modelling of local fuel inventory and desorption in the whole tokamak vacuum vessel for auto-consistent plasma-wall interaction simulations. *Nuclear Materials and Energy*, **2019**, 19, 550-557	2.1	8
443	Energetic ion losses □hanneling□mechanism and strategy for mitigation. *Plasma Physics and Controlled Fusion*, **2019**, 61, 084008	2	0
442	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. *Nuclear Materials and Energy*, **2019**, 18, 331-338	2.1	24

441	Scenario development for DT operation at JET. *Nuclear Fusion*, **2019**, 59, 076037	3.3	23
440	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. *Journal of Instrumentation*, **2019**, 14, C05019-C05019	1	7
439	Modelling of the effect of ELMs on fuel retention at the bulk W divertor of JET. *Nuclear Materials and Energy*, **2019**, 19, 397-402	2.1	5
438	Simulation of neutron emission in neutral beam injection heated plasmas with the real-time code RABBIT. *Nuclear Fusion*, **2019**, 59, 086002	3.3	2
437	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. *Nuclear Fusion*, **2019**, 59, 112021	3.3	55
436	A wall-aligned grid generator for non-linear simulations of MHD instabilities in tokamak plasmas. *Computer Physics Communications*, **2019**, 243, 41-50	4.2	6
435	Comparison of the structure of the plasma-facing surface and tritium accumulation in beryllium tiles from JET ILW campaigns 2011–2012 and 2013–2014. *Nuclear Materials and Energy*, **2019**, 19, 131-136	2.1	6
434	RF sheath modeling of experimentally observed plasma surface interactions with the JET ITER-Like Antenna. *Nuclear Materials and Energy*, **2019**, 19, 324-329	2.1	1
433	An assessment of nitrogen concentrations from spectroscopic measurements in the JET and ASDEX upgrade divertor. *Nuclear Materials and Energy*, **2019**, 18, 147-152	2.1	5
432	Beryllium melting and erosion on the upper dump plates in JET during three ITER-like wall campaigns. *Nuclear Fusion*, **2019**, 59, 086009	3.3	24
431	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET-ILW and PISCES-B experience. *Nuclear Materials and Energy*, **2019**, 19, 510-515	2.1	10
430	On a fusion born triton effect in JET deuterium discharges with H-minority ion cyclotron range of frequencies heating. *Nuclear Fusion*, **2019**, 59, 064001	3.3	3
429	COREDIV numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to JET-ILW DT experiments. *Nuclear Fusion*, **2019**, 59, 056026	3.3	3
428	The effect of beryllium oxide on retention in JET ITER-like wall tiles. *Nuclear Materials and Energy*, **2019**, 19, 346-351	2.1	11
427	Deposition of impurity metals during campaigns with the JET ITER-like Wall. *Nuclear Materials and Energy*, **2019**, 19, 218-224	2.1	14
426	Investigation of deuterium trapping and release in the JET ITER-like wall divertor using TDS and TMAP. *Nuclear Materials and Energy*, **2019**, 19, 166-178	2.1	15
425	Investigation of deuterium trapping and release in the JET divertor during the third ILW campaign using TDS. *Nuclear Materials and Energy*, **2019**, 19, 300-306	2.1	9
424	First mirror test in JET for ITER: Complete overview after three ILW campaigns. *Nuclear Materials and Energy*, **2019**, 19, 59-66	2.1	16

423	Tritium distributions on W-coated divertor tiles used in the third JET ITER-like wall campaign. *Nuclear Materials and Energy*, **2019**, 18, 258-261	2.1	8
422	Fast ion synergistic effects in JET high performance pulses. *Nuclear Fusion*, **2019**, 59, 056005	3.3	9
421	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. *Nuclear Fusion*, **2019**, 59, 056007	3.3	14
420	Population modelling of the He II energy levels in tokamak plasmas: I. Collisional excitation model. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2019**, 52, 045001	1.3	1
419	Approximate analytic expressions using Stokes model for tokamak polarimetry and their range of validity. *Plasma Physics and Controlled Fusion*, **2019**, 61, 055008	2	4
418	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. *Plasma Physics and Controlled Fusion*, **2019**, 61, 014027	2	10
417	Novel method for determination of tritium depth profiles in metallic samples. *Nuclear Fusion*, **2019**, 59, 106006	3.3	0
416	A power-balance model of the density limit in fusion plasmas: application to the L-mode tokamak. *Nuclear Fusion*, **2019**, 59, 126011	3.3	9
415	Modification of the Alfvē wave spectrum by pellet injection. *Nuclear Fusion*, **2019**, 59, 106031	3.3	3
414	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. *Nuclear Fusion*, **2019**, 59, 076028	3.3	12
413	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. *Nuclear Fusion*, **2019**, 59, 076038	3.3	26
412	A new mechanism for increasing density peaking in tokamaks: improvement of the inward particle pinch with edge E □B shearing. *Plasma Physics and Controlled Fusion*, **2019**, 61, 104002	2	9
411	Ion cyclotron resonance heating scenarios for DEMO. *Nuclear Fusion*, **2019**, 59, 106051	3.3	11
410	Erosion, screening, and migration of tungsten in the JET divertor. *Nuclear Fusion*, **2019**, 59, 096035	3.3	34
409	Role of fast ion pressure in the isotope effect in JET L-mode plasmas. *Nuclear Fusion*, **2019**, 59, 096030	3.3	10
408	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. *Nuclear Fusion*, **2019**, 59, 086056	3.3	27
407	EDGE2D-EIRENE simulations of the influence of isotope effects and anomalous transport coefficients on near scrape-off layer radial electric field. *Plasma Physics and Controlled Fusion*, **2019**, 61, 075010	2	6
406	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. *Nuclear Fusion*, **2019**, 59, 086047	3.3	21

405	Control of the hydrogen:deuterium isotope mixture using pellets in JET. *Nuclear Fusion*, **2019**, 59, 106047	3.3	4
404	Deep neural networks for plasma tomography with applications to JET and COMPASS. *Journal of Instrumentation*, **2019**, 14, C09011-C09011	1	4
403	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. *Journal of Instrumentation*, **2019**, 14, C09018-C09018	1	
402	Radial variation of heat transport in L-mode JET discharges. *Nuclear Fusion*, **2019**, 59, 056006	3.3	2
401	Long-lived coupled peeling ballooning modes preceding ELMs on JET. *Nuclear Fusion*, **2019**, 59, 056004	3.3	4
400	Micro ion beam analysis for the erosion of beryllium marker tiles in a tokamak limiter. *Nuclear Instruments & Methods in Physics Research B*, **2019**, 450, 200-204	1.2	1
399	Impact of ICRF on the scrape-off layer and on plasma wall interactions: From present experiments to fusion reactor. *Nuclear Materials and Energy*, **2019**, 18, 131-140	2.1	21
398	Gyrokinetic simulations of toroidal Alfvén eigenmodes excited by energetic ions and external antennas on the Joint European Torus. *Nuclear Fusion*, **2019**, 59, 026008	3.3	3
397	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. *Journal of Nuclear Materials*, **2019**, 516, 202-213	3.3	8
396	Analysis of the outer divertor hot spot activity in the protection video camera recordings at JET. *Fusion Engineering and Design*, **2019**, 139, 115-123	1.7	3
395	Material migration and fuel retention studies during the JET carbon divertor campaigns. *Fusion Engineering and Design*, **2019**, 138, 78-108	1.7	14
394	Determination of tungsten sources in the JET-ILW divertor by spectroscopic imaging in the presence of a strong plasma continuum. *Nuclear Materials and Energy*, **2019**, 18, 118-124	2.1	9
393	Improved neutron activation dosimetry for fusion. *Fusion Engineering and Design*, **2019**, 139, 109-114	1.7	6
392	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. *Nuclear Fusion*, **2019**, 59, 016004	3.3	8
391	Current Research into Applications of Tomography for Fusion Diagnostics. *Journal of Fusion Energy*, **2019**, 38, 458-466	1.6	19
390	Runaway electron beam control. *Plasma Physics and Controlled Fusion*, **2019**, 61, 014036	2	18
389	Testing of tritium breeder blanket activation foil spectrometer during JET operations. *Fusion Engineering and Design*, **2018**, 136, 258-264	1.7	5
388	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. *Nuclear Fusion*, **2018**, 58, 056002	3.3	23

387	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. *Nuclear Fusion*, **2018**, 58, 082005	3.3	20
386	Characterisation of neutron generators and monitoring detectors for the in-vessel calibration of JET. *Fusion Engineering and Design*, **2018**, 136, 233-238	1.7	5
385	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. *Nuclear Fusion*, **2018**, 58, 026019	3.3	11
384	Sub-millisecond electron density profile measurement at the JET tokamak with the fast lithium beam emission spectroscopy system. *Review of Scientific Instruments*, **2018**, 89, 043509	1.7	8
383	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. *Physics of Plasmas*, **2018**, 25, 042304	2.1	15
382	MHD spectroscopy of JET plasmas with pellets via Alfvén eigenmodes. *Nuclear Fusion*, **2018**, 58, 082008	3.3	6
381	Real-time implementation with FPGA-based DAQ system of a probabilistic disruption predictor from scratch. *Fusion Engineering and Design*, **2018**, 129, 179-182	1.7	2
380	Evidence of $^{9}Be(H,p)^{9}Be$ nuclear reactions during 2ω$_{CH}$ hydrogen minority ICRH in JET-ILW hydrogen and deuterium plasmas. *Nuclear Fusion*, **2018**, 58, 026033	3.3	3
379	TAE stability calculations compared to TAE antenna results in JET. *Nuclear Fusion*, **2018**, 58, 082007	3.3	5
378	Divertor currents optimization procedure for JET-ILW high flux expansion experiments. *Fusion Engineering and Design*, **2018**, 129, 115-119	1.7	1
377	A multi-machine scaling of halo current rotation. *Nuclear Fusion*, **2018**, 58, 016050	3.3	13
376	Plasma-wall interaction on the divertor tiles of JET ITER-like wall from the viewpoint of micro/nanoscopic observations. *Fusion Engineering and Design*, **2018**, 136, 199-204	1.7	4
375	High fusion performance at highT_i/T_e in JET-ILW baseline plasmas with high NBI heating power and low gas puffing. *Nuclear Fusion*, **2018**, 58, 036020	3.3	14
374	Full-Pulse Tomographic Reconstruction with Deep Neural Networks. *Fusion Science and Technology*, **2018**, 74, 47-56	1.1	15
373	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. *Nuclear Fusion*, **2018**, 58, 034001	3.3	39
372	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuterium–tritium fusion plasma diagnostics. *Measurement Science and Technology*, **2018**, 29, 045502	2	20
371	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. *Nuclear Fusion*, **2018**, 58, 016023	3.3	10
370	Light impurity transport in JET ILW L-mode plasmas. *Nuclear Fusion*, **2018**, 58, 036009	3.3	6

369	14 MeV calibration of JET neutron detectors—phase 1: calibration and characterization of the neutron source. *Nuclear Fusion*, **2018**, 58, 026012	3.3	16
368	10 Hz pellet injection control system integration for EAST. *Fusion Engineering and Design*, **2018**, 126, 130-138	1.7	3
367	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. *Nuclear Fusion*, **2018**, 58, 016046	3.3	7
366	Modelling of JET DT experiments in ILW configurations. *Contributions To Plasma Physics*, **2018**, 58, 739-745	1.4	0
365	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. *Physical Review A*, **2018**, 97,	2.6	10
364	Bayesian Integrated Data Analysis of Fast-Ion Measurements by Velocity-Space Tomography. *Fusion Science and Technology*, **2018**, 74, 23-36	1.1	9
363	Modelling of the neutron production in a mixed beam DT neutron generator. *Fusion Engineering and Design*, **2018**, 136, 1089-1093	1.7	8
362	Control and data acquisition software upgrade for JET gamma-ray diagnostics. *Fusion Engineering and Design*, **2018**, 128, 117-121	1.7	4
361	Isotope effects on L-H threshold and confinement in tokamak plasmas. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014045	2	62
360	Investigation into the formation of the scrape-off layer density shoulder in JET ITER-like wall L-mode and H-mode plasmas. *Nuclear Fusion*, **2018**, 58, 056001	3.3	22
359	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. *Physics of Plasmas*, **2018**, 25, 012303	2.1	11
358	Dust generation in tokamaks: Overview of beryllium and tungsten dust characterisation in JET with the ITER-like wall. *Fusion Engineering and Design*, **2018**, 136, 579-586	1.7	32
357	Experimental validation of an analytical kinetic model for edge-localized modes in JET-ITER-like wall. *Nuclear Fusion*, **2018**, 58, 066006	3.3	13
356	ICRH antennaS-matrix measurements and plasma coupling characterisation at JET. *Nuclear Fusion*, **2018**, 58, 046012	3.3	2
355	First observation of the depolarization of Thomson scattering radiation by a fusion plasma. *Nuclear Fusion*, **2018**, 58, 044003	3.3	
354	Escaping alpha-particle monitor for burning plasmas. *Nuclear Fusion*, **2018**, 58, 082009	3.3	1
353	Nonlinear dynamic analysis of D signals for type I edge localized modes characterization on JET with a carbon wall. *Plasma Physics and Controlled Fusion*, **2018**, 60, 025010	2	2
352	Test particles dynamics in the JOREK 3D non-linear MHD code and application to electron transport in a disruption simulation. *Nuclear Fusion*, **2018**, 58, 016043	3.3	20

351	Analysis of ELM stability with extended MHD models in JET, JT-60U and future JT-60SA tokamak plasmas. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014032	2	10
350	Activation Inventories after Exposure to DD/DT Neutrons in Safety Analysis of Nuclear Fusion Installations. *Radiation Protection Dosimetry*, **2018**, 180, 125-128	0.9	1
349	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. *Nuclear Fusion*, **2018**, 58, 095003	3.3	8
348	TLD calibration for neutron fluence measurements at JET fusion facility. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 904, 202-213	1.2	6
347	Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. *Nuclear Fusion*, **2018**, 58, 096013	3.3	12
346	A First Analysis of JET Plasma Profile-Based Indicators for Disruption Prediction and Avoidance. *IEEE Transactions on Plasma Science*, **2018**, 46, 2691-2698	1.3	20
345	Correlation of surface chemical states with hydrogen isotope retention in divertor tiles of JET with ITER-Like Wall. *Fusion Engineering and Design*, **2018**, 132, 24-28	1.7	13
344	Integrated modelling of H-mode pedestal and confinement in JET-ILW. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014042	2	16
343	14 MeV calibration of JET neutron detectors—phase 2: in-vessel calibration. *Nuclear Fusion*, **2018**, 58, 106016	3.3	10
342	Real-time protection of the JET ITER-like wall based on near infrared imaging diagnostic systems. *Nuclear Fusion*, **2018**, 58, 106021	3.3	9
341	Electron acceleration in a JET disruption simulation. *Nuclear Fusion*, **2018**, 58, 106022	3.3	13
340	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. *Nuclear Fusion*, **2018**, 58, 106037	3.3	14
339	Observations and modelling of ion cyclotron emission observed in JET plasmas using a sub-harmonic arc detection system during ion cyclotron resonance heating. *Nuclear Fusion*, **2018**, 58, 096020	3.3	8
338	Scaling of the geodesic acoustic mode amplitude on JET. *Plasma Physics and Controlled Fusion*, **2018** , 60, 085006	2	5
337	First principle integrated modeling of multi-channel transport including Tungsten in JET. *Nuclear Fusion*, **2018**, 58, 096003	3.3	14
336	Alpha heating, isotopic mass, and fast ion effects in deuterium–tritium experiments. *Nuclear Fusion*, **2018**, 58, 096011	3.3	1
335	Thermal desorption spectrometry of beryllium plasma facing tiles exposed in the JET tokamak. *Fusion Engineering and Design*, **2018**, 133, 135-141	1.7	11
334	Estimation of metrological characteristics of a high-precision digital autocollimator using an angle encoder. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2018**, 85, 406	0.9	5

333	Digital goniometer with a two-dimensional scale. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2018**, 85, 269	0.9	2
332	Pedestal evolution physics in low triangularity JET tokamak discharges with ITER-like wall. *Nuclear Fusion*, **2018**, 58, 016021	3.3	10
331	Equilibrium reconstruction in an iron core tokamak using a deterministic magnetisation model. *Computer Physics Communications*, **2018**, 223, 1-17	4.2	8
330	On the universality of power laws for tokamak plasma predictions. *Plasma Physics and Controlled Fusion*, **2018**, 60, 025028	2	6
329	Comparison of runaway electron generation parameters in small, medium-sized and large tokamaksâ A survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET. *Nuclear Fusion*, **2018**, 58, 016014	3.3	10
328	Identification of BeO and BeOxDy in melted zones of the JET Be limiter tiles: Raman study using comparison with laboratory samples. *Nuclear Materials and Energy*, **2018**, 17, 295-301	2.1	11
327	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. *Nuclear Fusion*, **2018**, 58, 056010	3.3	30
326	On the Use of Transfer Entropy to Investigate the Time Horizon of Causal Influences between Signals. *Entropy*, **2018**, 20,	2.8	9
325	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. *Nuclear Fusion*, **2018**, 58, 106034	3.3	6
324	Tritium retention characteristics in dust particles in JET with ITER-like wall. *Nuclear Materials and Energy*, **2018**, 17, 279-283	2.1	15
323	Shutdown dose rate measurements after the 2016 Deuterium-Deuterium campaign at JET. *Fusion Engineering and Design*, **2018**, 136, 1348-1353	1.7	4
322	Application of the VUV and the soft x-ray systems on JET for the study of intrinsic impurity behavior in neon seeded hybrid discharges. *Review of Scientific Instruments*, **2018**, 89, 10D131	1.7	2
321	3D non-linear MHD simulation of the MHD response and density increase as a result of shattered pellet injection. *Nuclear Fusion*, **2018**, 58, 126025	3.3	20
320	Application of the Denovo Discrete Ordinates Radiation Transport Code to Large-Scale Fusion Neutronics. *Fusion Science and Technology*, **2018**, 74, 303-314	1.1	3
319	JET diagnostic enhancements testing and commissioning in preparation for DT scientific campaigns. *Review of Scientific Instruments*, **2018**, 89, 10K119	1.7	5
318	Dependence of the turbulent particle flux on hydrogen isotopes induced by collisionality. *Physics of Plasmas*, **2018**, 25, 082517	2.1	10
317	On the role of finite grid extent in SOLPS-ITER edge plasma simulations for JET H-mode discharges with metallic wall. *Nuclear Materials and Energy*, **2018**, 17, 174-181	2.1	5
316	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. *Nuclear Fusion*, **2018**, 58, 026028	3.3	8

315	Assessment of the baseline scenario at q 95 ~ 3 for ITER. *Nuclear Fusion*, **2018**, 58, 126010	3.3	15
314	Heat flux analysis of Type-I ELM impact on a sloped, protruding surface in the JET bulk tungsten divertor. *Nuclear Materials and Energy*, **2018**, 17, 182-187	2.1	3
313	Determination of 2D poloidal maps of the intrinsic W density for transport studies in JET-ILW. *Review of Scientific Instruments*, **2018**, 89, 113501	1.7	8
312	Neutron emission spectroscopy of D plasmas at JET with a compact liquid scintillating neutron spectrometer. *Review of Scientific Instruments*, **2018**, 89, 10I113	1.7	7
311	Real-time-capable prediction of temperature and density profiles in a tokamak using RAPTOR and a first-principle-based transport model. *Nuclear Fusion*, **2018**, 58, 096006	3.3	26
310	The upgraded JET gamma-ray cameras based on high resolution/high count rate compact spectrometers. *Review of Scientific Instruments*, **2018**, 89, 10I116	1.7	19
309	OVERVIEW OF NEUTRON MEASUREMENTS IN JET FUSION DEVICE. *Radiation Protection Dosimetry*, **2018**, 180, 102-108	0.9	1
308	Instrumentation for the upgrade to the JET core charge-exchange spectrometers. *Review of Scientific Instruments*, **2018**, 89, 10D113	1.7	4
307	Propagating transport-code input parameter uncertainties with deterministic sampling. *Plasma Physics and Controlled Fusion*, **2018**, 60, 125010	2	
306	Synthetic spectra of BeH, BeD and BeT for emission modeling in JET plasmas. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2018**, 51, 185701	1.3	13
305	Assessment of the strength of kinetic effects of parallel electron transport in the SOL and divertor of JET high radiative H-mode plasmas using EDGE2D-EIRENE and KIPP codes. *Plasma Physics and Controlled Fusion*, **2018**, 60, 115011	2	5
304	Development of a new compact gamma-ray spectrometer optimised for runaway electron measurements. *Review of Scientific Instruments*, **2018**, 89, 10I134	1.7	10
303	First principles of modelling the stabilization of microturbulence by fast ions. *Nuclear Fusion*, **2018**, 58, 082024	3.3	10
302	Inter-ELM evolution of the edge current density in JET-ILW type I ELMy H-mode plasmas. *Plasma Physics and Controlled Fusion*, **2018**, 60, 085003	2	4
301	Impact of electron-scale turbulence and multi-scale interactions in the JET tokamak. *Nuclear Fusion*, **2018**, 58, 124003	3.3	10
300	Equilibrium reconstruction at JET using Stokes model for polarimetry. *Nuclear Fusion*, **2018**, 58, 106032	3.3	16
299	Generation of a plasma neutron source for Monte Carlo neutron transport calculations in the tokamak JET. *Fusion Engineering and Design*, **2018**, 136, 1047-1051	1.7	8
298	Shutdown dose rate neutronics experiment during high performances DD operations at JET. *Fusion Engineering and Design*, **2018**, 136, 1545-1549	1.7	3

297	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. *Nuclear Fusion*, **2018**, 58, 076022	3.3	14
296	Analysis of plasma termination in the JET hybrid scenario. *Nuclear Fusion*, **2018**, 58, 076027	3.3	5
295	Maximum likelihood bolometric tomography for the determination of the uncertainties in the radiation emission on JET TOKAMAK. *Review of Scientific Instruments*, **2018**, 89, 053504	1.7	12
294	Activation material selection for multiple foil activation detectors in JET TT campaign. *Fusion Engineering and Design*, **2018**, 136, 988-992	1.7	2
293	Preparation for commissioning of materials detritiation facility at Culham Science Centre. *Fusion Engineering and Design*, **2018**, 136, 1391-1395	1.7	1
292	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. *Nuclear Fusion*, **2018**, 58, 076028	3.3	22
291	W transport and accumulation control in the termination phase of JET H-mode discharges and implications for ITER. *Plasma Physics and Controlled Fusion*, **2018**, 60, 074008	2	17
290	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. *Nuclear Fusion*, **2018**, 58, 096029	3.3	15
289	Molecular ND Band Spectroscopy in the Divertor Region of Nitrogen Seeded JET Discharges. *Journal of Physics: Conference Series*, **2018**, 959, 012009	0.3	6
288	On the mechanisms governing gas penetration into a tokamak plasma during a massive gas injection. *Nuclear Fusion*, **2017**, 57, 016027	3.3	6
287	Calculations to support JET neutron yield calibration: Modelling of neutron emission from a compact DT neutron generator. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 847, 199-204	1.2	8
286	High power neon seeded JET discharges: Experiments and simulations. *Nuclear Materials and Energy*, **2017**, 12, 882-886	2.1	9
285	Assessment of erosion, deposition and fuel retention in the JET-ILW divertor from ion beam analysis data. *Nuclear Materials and Energy*, **2017**, 12, 559-563	2.1	23
284	Beryllium film deposition in cavity samples in remote areas of the JET divertor during the 20112012 ITER-like wall campaign. *Nuclear Materials and Energy*, **2017**, 12, 548-552	2.1	11
283	Energy balance in JET. *Nuclear Materials and Energy*, **2017**, 12, 227-233	2.1	13
282	Development and integration of a 50 Hz pellet injection system for the Experimental Advanced Superconducting Tokamak (EAST). *Fusion Engineering and Design*, **2017**, 114, 40-46	1.7	6
281	Possible influence of near SOL plasma on the H-mode power threshold. *Nuclear Materials and Energy*, **2017**, 12, 273-277	2.1	12
280	Progress in reducing ICRF-specific impurity release in ASDEX upgrade and JET. *Nuclear Materials and Energy*, **2017**, 12, 1194-1198	2.1	8

279	Gyrokinetic study of turbulent convection of heavy impurities in tokamak plasmas at comparable ion and electron heat fluxes. *Nuclear Fusion*, **2017**, 57, 022009	3.3	21
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