

Alexander Ya Lukin

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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	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , 2017 , 57, 102001	3.3	125
457	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
456	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. <i>Physical Review Letters</i> , 2015 , 115, 215002	7.4	70
455	Beryllium migration in JET ITER-like wall plasmas. <i>Nuclear Fusion</i> , 2015 , 55, 063021	3.3	70
454	Pedestal confinement and stability in JET-ILW ELMy H-modes. <i>Nuclear Fusion</i> , 2015 , 55, 113031	3.3	69
453	Improved confinement in JET high- β plasmas with an ITER-like wall. <i>Nuclear Fusion</i> , 2015 , 55, 053031	3.3	63
452	Isotope effects on L-H threshold and confinement in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014045	2	62
451	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
450	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
449	Overview of the JET results with the ITER-like wall. <i>Nuclear Fusion</i> , 2013 , 53, 104002	3.3	58
448	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. <i>Nuclear Fusion</i> , 2019 , 59, 112021	3.3	55
447	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. <i>Nuclear Fusion</i> , 2015 , 55, 053015	3.3	55
446	WEST Physics Basis. <i>Nuclear Fusion</i> , 2015 , 55, 063017	3.3	54
445	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
444	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. <i>Nature Physics</i> , 2017 , 13, 973-978	16.2	50
443	Erosion and deposition in the JET divertor during the first ILW campaign. <i>Physica Scripta</i> , 2016 , T167, 014051	2.6	47
442	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014036	2	45

441	Long-term fuel retention in JET ITER-like wall. <i>Physica Scripta</i> , 2016 , T167, 014075	2.6	44
440	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
439	First dust study in JET with the ITER-like wall: sampling, analysis and classification. <i>Nuclear Fusion</i> , 2015 , 55, 113033	3.3	43
438	Melt damage to the JET ITER-like Wall and divertor. <i>Physica Scripta</i> , 2016 , T167, 014070	2.6	43
437	Influence of the E \times B drift in high recycling divertors on target asymmetries. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 095002	2	41
436	The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. <i>Physics of Plasmas</i> , 2015 , 22, 055902	2.1	40
435	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
434	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. <i>Nuclear Fusion</i> , 2018 , 58, 034001	3.3	39
433	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
432	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
431	Recent progress towards a quantitative description of filamentary SOL transport. <i>Nuclear Fusion</i> , 2017 , 57, 056044	3.3	38
430	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
429	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
428	Overview of the JET ITER-like wall divertor. <i>Nuclear Materials and Energy</i> , 2017 , 12, 499-505	2.1	36
427	Runaway electron beam generation and mitigation during disruptions at JET-ILW. <i>Nuclear Fusion</i> , 2015 , 55, 093013	3.3	36
426	Overview of fuel inventory in JET with the ITER-like wall. <i>Nuclear Fusion</i> , 2017 , 57, 086045	3.3	35
425	Erosion, screening, and migration of tungsten in the JET divertor. <i>Nuclear Fusion</i> , 2019 , 59, 096035	3.3	34
424	JET and COMPASS asymmetrical disruptions. <i>Nuclear Fusion</i> , 2015 , 55, 113006	3.3	34

423	Overview of the JET results. <i>Nuclear Fusion</i> , 2015 , 55, 104001	3.3	34
422	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
421	First neutron spectroscopy measurements with a pixelated diamond detector at JET. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D833	1.7	33
420	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
419	The role of MHD in causing impurity peaking in JET hybrid plasmas. <i>Nuclear Fusion</i> , 2016 , 56, 066002	3.3	31
418	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
417	The effects of impurities and core pressure on pedestal stability in Joint European Torus (JET)a). <i>Physics of Plasmas</i> , 2015 , 22, 056115	2.1	30
416	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> , 2016 , 87, 11E714	1.7	30
415	Effect of the relative shift between the electron density and temperature pedestal position on the pedestal stability in JET-ILW and comparison with JET-C. <i>Nuclear Fusion</i> , 2018 , 58, 056010	3.3	30
414	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
413	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. <i>Nuclear Fusion</i> , 2015 , 55, 123028	3.3	28
412	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. <i>Nuclear Fusion</i> , 2019 , 59, 086056	3.3	27
411	Discriminating the trapped electron modes contribution in density fluctuation spectra. <i>Nuclear Fusion</i> , 2015 , 55, 093021	3.3	27
410	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. <i>Nuclear Fusion</i> , 2015 , 55, 053028	3.3	26
409	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. <i>Nuclear Fusion</i> , 2019 , 59, 076038	3.3	26
408	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
407	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
406	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

405	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
404	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
403	A repetitive pellet injection system for steady state fuelling in EAST superconducting tokamak. <i>Fusion Engineering and Design</i> , 2014 , 89, 99-103	1.7	25
402	Plasma impact on diagnostic mirrors in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 506-512	2.1	24
401	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
400	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
399	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
398	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
397	Scenario development for DIII operation at JET. <i>Nuclear Fusion</i> , 2019 , 59, 076037	3.3	23
396	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. <i>Nuclear Fusion</i> , 2018 , 58, 056002	3.3	23
395	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> , 2015 , 86, 103501 ^{1.7}	1.7	23
394	Plasma confinement at JET. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014034	2	23
393	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
392	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
391	Deep learning for plasma tomography using the bolometer system at JET. <i>Fusion Engineering and Design</i> , 2017 , 114, 18-25	1.7	22
390	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
389	Status of the JET high frequency pellet injector. <i>Fusion Engineering and Design</i> , 2013 , 88, 1064-1068	1.7	22
388	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

387	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
386	Erosion and deposition in the JET divertor during the second ITER-like wall campaign. <i>Physica Scripta</i> , 2017 , T170, 014058	2.6	22
385	Screw extruder for solid hydrogen. <i>Technical Physics</i> , 2000 , 45, 106-111	0.5	22
384	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
383	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. <i>Nuclear Fusion</i> , 2018 , 58, 076028	3.3	22
382	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
381	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
380	Velocity-space sensitivities of neutron emission spectrometers at the tokamaks JET and ASDEX Upgrade in deuterium plasmas. <i>Review of Scientific Instruments</i> , 2017 , 88, 073506	1.7	21
379	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. <i>Nuclear Fusion</i> , 2016 , 56, 046009	3.3	21
378	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
377	Experience on divertor fuel retention after two ITER-Like Wall campaigns. <i>Physica Scripta</i> , 2017 , T170, 014063	2.6	21
376	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
375	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
374	Recent progress in the quantitative validation of JOEKO simulations of ELMs in JET. <i>Nuclear Fusion</i> , 2017 , 57, 076006	3.3	20
373	Fuel inventory and deposition in castellated structures in JET-ILW. <i>Nuclear Fusion</i> , 2017 , 57, 066027	3.3	20
372	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. <i>Nuclear Fusion</i> , 2018 , 58, 082005	3.3	20
371	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
370	Test particles dynamics in the JOEKO 3D non-linear MHD code and application to electron transport in a disruption simulation. <i>Nuclear Fusion</i> , 2018 , 58, 016043	3.3	20

369	A First Analysis of JET Plasma Profile-Based Indicators for Disruption Prediction and Avoidance. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 2691-2698	1.3	20
368	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
367	Repetitive fueling pellet injection in large helical device. <i>Fusion Engineering and Design</i> , 2003 , 69, 11-14	1.7	20
366	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
365	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
364	Dynamics and stability of divertor detachment in H-mode plasmas on JET. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 095003	2	19
363	A new pellet injector for steady state fuelling in Tore Supra. <i>Fusion Engineering and Design</i> , 2003 , 69, 5-9	1.7	19
362	Current Research into Applications of Tomography for Fusion Diagnostics. <i>Journal of Fusion Energy</i> , 2019 , 38, 458-466	1.6	19
361	The upgraded JET gamma-ray cameras based on high resolution/high count rate compact spectrometers. <i>Review of Scientific Instruments</i> , 2018 , 89, 101116	1.7	19
360	Deuterium trapping and release in JET ITER-like wall divertor tiles. <i>Physica Scripta</i> , 2016 , T167, 014074	2.6	18
359	Impact of divertor geometry on H-mode confinement in the JET metallic wall. <i>Nuclear Fusion</i> , 2017 , 57, 086025	3.3	18
358	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. <i>Nuclear Fusion</i> , 2016 , 56, 106026	3.3	18
357	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. <i>Nuclear Fusion</i> , 2016 , 56, 106010	3.3	18
356	Runaway electron beam control. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 014036	2	18
355	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
354	Experience of handling beryllium, tritium and activated components from JET ITER like wall. <i>Physica Scripta</i> , 2016 , T167, 014057	2.6	17
353	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
352	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

351	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
350	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
349	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
348	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
347	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
346	Integrated modelling of H-mode pedestal and confinement in JET-ILW. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014042	2	16
345	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. <i>Nuclear Fusion</i> , 2017 , 57, 036027	3.3	16
344	Axisymmetric oscillations at LH transitions in JET: M-mode. <i>Nuclear Fusion</i> , 2017 , 57, 022021	3.3	16
343	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
342	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
341	A liquid autocollimation refractometer. <i>Measurement Techniques</i> , 2006 , 49, 815-819	0.4	16
340	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
339	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. <i>Physica Scripta</i> , 2016 , 91, 064003	2.6	16
338	Equilibrium reconstruction at JET using Stokes model for polarimetry. <i>Nuclear Fusion</i> , 2018 , 58, 106032	3.3	16
337	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
336	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. <i>Physics of Plasmas</i> , 2018 , 25, 042304	3.1	15
335	Full-Pulse Tomographic Reconstruction with Deep Neural Networks. <i>Fusion Science and Technology</i> , 2018 , 74, 47-56	1.1	15
334	Transient induced tungsten melting at the Joint European Torus (JET). <i>Physica Scripta</i> , 2017 , T170, 014013	1.3	15

333	Fine metal dust particles on the wall probes from JET-ILW. <i>Physica Scripta</i> , 2017 , T170, 014038	2.6	15
332	L to H mode transition: parametric dependencies of the temperature threshold. <i>Nuclear Fusion</i> , 2015 , 55, 073015	3.3	15
331	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
330	Assessment of the baseline scenario at $q_{95} \sim 3$ for ITER. <i>Nuclear Fusion</i> , 2018 , 58, 126010	3.3	15
329	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
328	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
327	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
326	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
325	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
324	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. <i>Nuclear Fusion</i> , 2019 , 59, 056007	3.3	14
323	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
322	Calibration of neutron detectors on the Joint European Torus. <i>Review of Scientific Instruments</i> , 2017 , 88, 103505	1.7	14
321	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
320	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
319	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
318	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , 2016 , 56, 026006	3.3	14
317	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
316	First principle integrated modeling of multi-channel transport including Tungsten in JET. <i>Nuclear Fusion</i> , 2018 , 58, 096003	3.3	14

315	Impact of toroidal and poloidal mode spectra on the control of non-axisymmetric fields in tokamaks. <i>Physics of Plasmas</i> , 2017 , 24, 056117	2.1	14
314	Radiation asymmetries during the thermal quench of massive gas injection disruptions in JET. <i>Nuclear Fusion</i> , 2015 , 55, 123027	3.3	14
313	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. <i>Physica Scripta</i> , 2016 , T167, 014077	2.6	14
312	Material migration and fuel retention studies during the JET carbon divertor campaigns. <i>Fusion Engineering and Design</i> , 2019 , 138, 78-108	1.7	14
311	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. <i>Nuclear Fusion</i> , 2018 , 58, 076022	3.3	14
310	Energy balance in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 227-233	2.1	13
309	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
308	Simulation of neutral gas flow in the JET sub-divertor. <i>Fusion Engineering and Design</i> , 2017 , 121, 13-21	1.7	13
307	A multi-machine scaling of halo current rotation. <i>Nuclear Fusion</i> , 2018 , 58, 016050	3.3	13
306	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
305	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
304	Electron acceleration in a JET disruption simulation. <i>Nuclear Fusion</i> , 2018 , 58, 106022	3.3	13
303	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
302	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
301	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
300	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
299	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
298	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

297	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
296	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
295	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. <i>Nuclear Fusion</i> , 2019 , 59, 076028	3.3	12
294	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 115005	2	12
293	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
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