Rajinikant Makwana

List of Publications by Citations

430 papers	5,422 citations	34 h-index	44 g-index
434 ext. papers	6,706 ext. citations	2.4 avg, IF	5.63 L-index

#	Paper	IF	Citations
430	Overview of the JET results in support to ITER. *Nuclear Fusion*, **2017**, 57, 102001	3.3	125
429	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. *Physical Review Letters*, **2015**, 115, 215002	7.4	70
428	Beryllium migration in JET ITER-like wall plasmas. *Nuclear Fusion*, **2015**, 55, 063021	3.3	70
427	Pedestal confinement and stability in JET-ILW ELMy H-modes. *Nuclear Fusion*, **2015**, 55, 113031	3.3	69
426	Improved confinement in JET high plasmas with an ITER-like wall. *Nuclear Fusion*, **2015**, 55, 053031	3.3	63
425	Isotope effects on L-H threshold and confinement in tokamak plasmas. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014045	2	62
424	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. *Nuclear Materials and Energy*, **2017**, 12, 111-118	2.1	61
423	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. *Physical Review Letters*, **2016**, 116, 065002	7.4	59
422	Overview of the JET preparation for deuterium tritium operation with the ITER like-wall. *Nuclear Fusion*, **2019**, 59, 112021	3.3	55
421	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. *Nuclear Fusion*, **2015**, 55, 053015	3.3	55
420	Dual sightline measurements of MeV range deuterons with neutron and gamma-ray spectroscopy at JET. *Nuclear Fusion*, **2015**, 55, 123026	3.3	51
419	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. *Nature Physics*, **2017**, 13, 973-978	16.2	50
418	Erosion and deposition in the JET divertor during the first ILW campaign. *Physica Scripta*, **2016**, T167, 014051	2.6	47
417	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014036	2	45
416	Long-term fuel retention in JET ITER-like wall. *Physica Scripta*, **2016**, T167, 014075	2.6	44
415	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using fingerprints. *Nuclear Fusion*, **2019**, 59, 096001	3.3	43
414	First dust study in JET with the ITER-like wall: sampling, analysis and classification. *Nuclear Fusion*, **2015**, 55, 113033	3.3	43

413	Melt damage to the JET ITER-like Wall and divertor. *Physica Scripta*, **2016**, T167, 014070	2.6	43
412	Influence of theE Bdrift in high recycling divertors on target asymmetries. *Plasma Physics and Controlled Fusion*, **2015**, 57, 095002	2	41
411	The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. *Physics of Plasmas*, **2015**, 22, 055902	2.1	40
410	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. *Physics of Plasmas*, **2015**, 22, 062509	2.1	40
409	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. *Nuclear Fusion*, **2018**, 58, 034001	3.3	39
408	Ion target impact energy during Type I edge localized modes in JET ITER-like Wall. *Plasma Physics and Controlled Fusion*, **2015**, 57, 085006	2	38
407	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. *Nuclear Fusion*, **2016**, 56, 026007	3.3	38
406	Fusion yield measurements on JET and their calibration. *Fusion Engineering and Design*, **2014**, 89, 2766-2775	1.5	38
405	Recent progress towards a quantitative description of filamentary SOL transport. *Nuclear Fusion*, **2017**, 57, 056044	3.3	38
404	MeV-range velocity-space tomography from gamma-ray and neutron emission spectrometry measurements at JET. *Nuclear Fusion*, **2017**, 57, 056001	3.3	37
403	Progress in understanding disruptions triggered by massive gas injection via 3D non-linear MHD modelling with JOREK. *Plasma Physics and Controlled Fusion*, **2017**, 59, 014006	2	36
402	Overview of the JET ITER-like wall divertor. *Nuclear Materials and Energy*, **2017**, 12, 499-505	2.1	36
401	Runaway electron beam generation and mitigation during disruptions at JET-ILW. *Nuclear Fusion*, **2015**, 55, 093013	3.3	36
400	Overview of fuel inventory in JET with the ITER-like wall. *Nuclear Fusion*, **2017**, 57, 086045	3.3	35
399	Erosion, screening, and migration of tungsten in the JET divertor. *Nuclear Fusion*, **2019**, 59, 096035	3.3	34
398	JET and COMPASS asymmetrical disruptions. *Nuclear Fusion*, **2015**, 55, 113006	3.3	34
397	Overview of the JET results. *Nuclear Fusion*, **2015**, 55, 104001	3.3	34
396	Multi-machine scaling of the main SOL parallel heat flux width in tokamak limiter plasmas. *Plasma Physics and Controlled Fusion*, **2016**, 58, 074005	2	33

395	First neutron spectroscopy measurements with a pixelated diamond detector at JET. *Review of Scientific Instruments*, **2016**, 87, 11D833	1.7	33
394	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
393	The role of MHD in causing impurity peaking in JET hybrid plasmas. *Nuclear Fusion*, **2016**, 56, 066002	3.3	31
392	Real-time control of divertor detachment in H-mode with impurity seeding using Langmuir probe feedback in JET-ITER-like wall. *Plasma Physics and Controlled Fusion*, **2017**, 59, 045001	2	31
391	The effects of impurities and core pressure on pedestal stability in Joint European Torus (JET)a). *Physics of Plasmas*, **2015**, 22, 056115	2.1	30
390	Gamma-ray spectroscopy at MHz counting rates with a compact LaBr detector and silicon photomultipliers for fusion plasma applications. *Review of Scientific Instruments*, **2016**, 87, 11E714	1.7	30
389	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
388	Studies of dust from JET with the ITER-Like Wall: Composition and internal structure. *Nuclear Materials and Energy*, **2017**, 12, 582-587	2.1	29
387	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. *Nuclear Fusion*, **2015**, 55, 123028	3.3	28
386	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. *Nuclear Fusion*, **2019**, 59, 086056	3.3	27
385	Discriminating the trapped electron modes contribution in density fluctuation spectra. *Nuclear Fusion*, **2015**, 55, 093021	3.3	27
384	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. *Nuclear Fusion*, **2015**, 55, 053028	3.3	26
383	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
382	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. *Plasma Physics and Controlled Fusion*, **2017**, 59, 124005	2	26
381	Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. *Nuclear Fusion*, **2015**, 55, 123001	3.3	26
380	Key impact of finite-beta and fast ions in core and edge tokamak regions for the transition to advanced scenarios. *Nuclear Fusion*, **2015**, 55, 053007	3.3	26
379	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
378	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. *Nuclear Fusion*, **2016**, 56, 026001	3.3	25

377	Plasma impact on diagnostic mirrors in JET. *Nuclear Materials and Energy*, **2017**, 12, 506-512	2.1	24
376	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. *Nuclear Materials and Energy*, **2019**, 18, 331-338	2.1	24
375	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
374	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. *Physica Scripta*, **2016**, T167, 014005	2.6	24
373	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
372	Scenario development for D‑T operation at JET. *Nuclear Fusion*, **2019**, 59, 076037	3.3	23
371	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. *Nuclear Fusion*, **2018**, 58, 056002	3.3	23
370	Fast ion energy distribution from third harmonic radio frequency heating measured with a single crystal diamond detector at the Joint European Torus. *Review of Scientific Instruments*, **2015**, 86, 103501	1.7	23
369	Plasma confinement at JET. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014034	2	23
368	Performance of the prototype LaBr spectrometer developed for the JET gamma-ray camera upgrade. *Review of Scientific Instruments*, **2016**, 87, 11E717	1.7	23
367	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. *Plasma Physics and Controlled Fusion*, **2017**, 59, 055001	2	22
366	Deep learning for plasma tomography using the bolometer system at JET. *Fusion Engineering and Design*, **2017**, 114, 18-25	1.7	22
365	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
364	Studies of the pedestal structure and inter-ELM pedestal evolution in JET with the ITER-like wall. *Nuclear Fusion*, **2017**, 57, 116012	3.3	22
363	Challenges in the extrapolation from DD to DT plasmas: experimental analysis and theory based predictions for JET-DT. *Plasma Physics and Controlled Fusion*, **2017**, 59, 014023	2	22
362	Erosion and deposition in the JET divertor during the second ITER-like wall campaign. *Physica Scripta*, **2017**, T170, 014058	2.6	22
361	Technological exploitation of Deuterium‑tritium operations at JET in support of ITER design, operation and safety. *Fusion Engineering and Design*, **2016**, 109-111, 278-285	1.7	22
360	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. *Nuclear Fusion*, **2018**, 58, 076028	3.3	22

359	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
358	Assessment of SOLPS5.0 divertor solutions with drifts and currents against L-mode experiments in ASDEX Upgrade and JET. *Plasma Physics and Controlled Fusion*, **2017**, 59, 035003	2	21
357	Velocity-space sensitivities of neutron emission spectrometers at the tokamaks JET and ASDEX Upgrade in deuterium plasmas. *Review of Scientific Instruments*, **2017**, 88, 073506	1.7	21
356	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. *Nuclear Fusion*, **2016**, 56, 046009	3.3	21
355	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. *Nuclear Fusion*, **2019**, 59, 086047	3.3	21
354	Experience on divertor fuel retention after two ITER-Like Wall campaigns. *Physica Scripta*, **2017**, T170, 014063	2.6	21
353	An Analytical Expression for the Electric Field and Particle Tracing in Modelling of Be Erosion Experiments at the JET ITER-like Wall. *Contributions To Plasma Physics*, **2016**, 56, 640-645	1.4	21
352	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
351	Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. *Nuclear Fusion*, **2017**, 57, 076006	3.3	20
350	Fuel inventory and deposition in castellated structures in JET-ILW. *Nuclear Fusion*, **2017**, 57, 066027	3.3	20
349	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. *Nuclear Fusion*, **2018**, 58, 082005	3.3	20
348	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
347	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
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	Dimensionless scalings of confinement, heat transport and pedestal stability in JET-ILW and comparison with JET-C. *Plasma Physics and Controlled Fusion*, **2017**, 59, 014014	2	20
344	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
343	Dynamics and stability of divertor detachment in H-mode plasmas on JET. *Plasma Physics and Controlled Fusion*, **2017**, 59, 095003	2	19
342	Current Research into Applications of Tomography for Fusion Diagnostics. *Journal of Fusion Energy*, **2019**, 38, 458-466	1.6	19

341	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
340	Deuterium trapping and release in JET ITER-like wall divertor tiles. *Physica Scripta*, **2016**, T167, 014074	2.6	18
339	Impact of divertor geometry on H-mode confinement in the JET metallic wall. *Nuclear Fusion*, **2017**, 57, 086025	3.3	18
338	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. *Nuclear Fusion*, **2016**, 56, 106026	3.3	18
337	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. *Nuclear Fusion*, **2016**, 56, 106010	3.3	18
336	Runaway electron beam control. *Plasma Physics and Controlled Fusion*, **2019**, 61, 014036	2	18
335	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. *Plasma Physics and Controlled Fusion*, **2016**, 58, 045011	2	17
334	Experience of handling beryllium, tritium and activated components from JET ITER like wall. *Physica Scripta*, **2016**, T167, 014057	2.6	17
333	Neutronics experiments and analyses in preparation of DT operations at JET. *Fusion Engineering and Design*, **2016**, 109-111, 895-905	1.7	17
332	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014026	2	17
331	Measurements of the cross sections of the W186(n,)W187, W182(n,p)Ta182, Gd154(n,2n)Gd153, and Gd160(n,2n)Gd159 reactions at neutron energies of 5 to 17 MeV. *Physical Review C*, **2017**, 96,	2.7	17
330	The neutron deficit in the JET tokamak. *Nuclear Fusion*, **2017**, 57, 076029	3.3	17
329	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
328	ITER oriented neutronics benchmark experiments on neutron streaming and shutdown dose rate at JET. *Fusion Engineering and Design*, **2017**, 123, 171-176	1.7	16
327	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. *Nuclear Fusion*, **2019**, 59, 106017	3.3	16
326	14 MeV calibration of JET neutron detectors phase 1: calibration and characterization of the neutron source. *Nuclear Fusion*, **2018**, 58, 026012	3.3	16
325	Integrated modelling of H-mode pedestal and confinement in JET-ILW. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014042	2	16
324	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. *Nuclear Fusion*, **2017**, 57, 036027	3.3	16

323	Axisymmetric oscillations at LH transitions in JET: M-mode. *Nuclear Fusion*, **2017**, 57, 022021	3.3	16
322	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. *Physica Scripta*, **2017**, T170, 014018	2.6	16
321	Determination of tungsten and molybdenum concentrations from an x-ray range spectrum in JET with the ITER-like wall configuration. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2015**, 48, 144023	1.3	16
320	Characterisation of the deuterium recycling at the W divertor target plates in JET during steady-state plasma conditions and ELMs. *Physica Scripta*, **2016**, T167, 014076	2.6	16
319	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. *Physica Scripta*, **2016**, 91, 064003	2.6	16
318	Equilibrium reconstruction at JET using Stokes model for polarimetry. *Nuclear Fusion*, **2018**, 58, 106032	3.3	16
317	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
316	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. *Physics of Plasmas*, **2018**, 25, 042304	2.1	15
315	Full-Pulse Tomographic Reconstruction with Deep Neural Networks. *Fusion Science and Technology*, **2018**, 74, 47-56	1.1	15
314	Preparation and Neutronic Studies of Tungsten Carbide Composite. *Fusion Science and Technology*, **2014**, 65, 241-247	1.1	15
313	Transient induced tungsten melting at the Joint European Torus (JET). *Physica Scripta*, **2017**, T170, 014013	2.6	15
312	Fine metal dust particles on the wall probes from JET-ILW. *Physica Scripta*, **2017**, T170, 014038	2.6	15
311	L to H mode transition: parametric dependencies of the temperature threshold. *Nuclear Fusion*, **2015**, 55, 073015	3.3	15
310	Tritium retention characteristics in dust particles in JET with ITER-like wall. *Nuclear Materials and Energy*, **2018**, 17, 279-283	2.1	15
309	Assessment of the baseline scenario at q 95 ~ 3 for ITER. *Nuclear Fusion*, **2018**, 58, 126010	3.3	15
308	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. *Nuclear Fusion*, **2018**, 58, 096029	3.3	15
307	Micro-/nano-characterization of the surface structures on the divertor tiles from JET ITER-like wall. *Fusion Engineering and Design*, **2017**, 116, 1-4	1.7	14
306	Global and pedestal confinement and pedestal structure in dimensionless collisionality scans of low-triangularity H-mode plasmas in JET-ILW. *Nuclear Fusion*, **2017**, 57, 016012	3.3	14

305	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
304	Deposition of impurity metals during campaigns with the JET ITER-like Wall. *Nuclear Materials and Energy*, **2019**, 19, 218-224	2.1	14
303	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. *Nuclear Fusion*, **2019**, 59, 056007	3.3	14
302	Experimental evaluation of stable long term operation of semiconductor magnetic sensors at ITER relevant environment. *Nuclear Fusion*, **2015**, 55, 083006	3.3	14
301	Calibration of neutron detectors on the Joint European Torus. *Review of Scientific Instruments*, **2017**, 88, 103505	1.7	14
300	High fusion performance at highTi/Tein JET-ILW baseline plasmas with high NBI heating power and low gas puffing. *Nuclear Fusion*, **2018**, 58, 036020	3.3	14
299	Improved ERO modelling for spectroscopy of physically and chemically assisted eroded beryllium from the JET-ILW. *Nuclear Materials and Energy*, **2016**, 9, 604-609	2.1	14
298	The role and application of ion beam analysis for studies of plasma-facing components in controlled fusion devices. *Nuclear Instruments & Methods in Physics Research B*, **2016**, 371, 4-11	1.2	14
297	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. *Nuclear Fusion*, **2016**, 56, 026006	3.3	14
296	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. *Nuclear Fusion*, **2018**, 58, 106037	3.3	14
295	First principle integrated modeling of multi-channel transport including Tungsten in JET. *Nuclear Fusion*, **2018**, 58, 096003	3.3	14
294	Impact of toroidal and poloidal mode spectra on the control of non-axisymmetric fields in tokamaks. *Physics of Plasmas*, **2017**, 24, 056117	2.1	14
293	Radiation asymmetries during the thermal quench of massive gas injection disruptions in JET. *Nuclear Fusion*, **2015**, 55, 123027	3.3	14
292	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. *Physica Scripta*, **2016**, T167, 014077	2.6	14
291	Material migration and fuel retention studies during the JET carbon divertor campaigns. *Fusion Engineering and Design*, **2019**, 138, 78-108	1.7	14
290	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. *Nuclear Fusion*, **2018**, 58, 076022	3.3	14
289	Energy balance in JET. *Nuclear Materials and Energy*, **2017**, 12, 227-233	2.1	13
288	Plasma edge and plasma-wall interaction modelling: Lessons learned from metallic devices. *Nuclear Materials and Energy*, **2017**, 12, 3-17	2.1	13

287	Simulation of neutral gas flow in the JET sub-divertor. *Fusion Engineering and Design*, **2017**, 121, 13-21	1.7	13
286	A multi-machine scaling of halo current rotation. *Nuclear Fusion*, **2018**, 58, 016050	3.3	13
285	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
284	Electron acceleration in a JET disruption simulation. *Nuclear Fusion*, **2018**, 58, 106022	3.3	13
283	Investigation and plasma cleaning of first mirrors coated with relevant ITER contaminants: beryllium and tungsten. *Nuclear Fusion*, **2017**, 57, 086019	3.3	13
282	Benchmarking the GENE and GYRO codes through the relative roles of electromagnetic andE Bstabilization in JET high-performance discharges. *Plasma Physics and Controlled Fusion*, **2016**, 58, 125018	2	13
281	Deep deuterium retention and Be/W mixing at tungsten coated surfaces in the JET divertor. *Physica Scripta*, **2016**, T167, 014061	2.6	13
280	Neutron emission spectroscopy of DT plasmas at enhanced energy resolution with diamond detectors. *Review of Scientific Instruments*, **2016**, 87, 11D822	1.7	13
279	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
278	Possible influence of near SOL plasma on the H-mode power threshold. *Nuclear Materials and Energy*, **2017**, 12, 273-277	2.1	12
277	Structure, tritium depth profile and desorption from plasma-facing beryllium materials of ITER-Like-Wall at JET. *Nuclear Materials and Energy*, **2017**, 12, 642-647	2.1	12
276	Radiation damage and nuclear heating studies in selected functional materials during the JET DT campaign. *Fusion Engineering and Design*, **2016**, 109-111, 1011-1015	1.7	12
275	Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. *Nuclear Fusion*, **2018**, 58, 096013	3.3	12
274	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. *Nuclear Fusion*, **2019**, 59, 076028	3.3	12
273	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. *Plasma Physics and Controlled Fusion*, **2016**, 58, 115005	2	12
272	Response function of single crystal synthetic diamond detectors to 1-4 MeV neutrons for spectroscopy of D plasmas. *Review of Scientific Instruments*, **2016**, 87, 11D823	1.7	12
271	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
270	Beryllium film deposition in cavity samples in remote areas of the JET divertor during the 2011 2012 ITER-like wall campaign. *Nuclear Materials and Energy*, **2017**, 12, 548-552	2.1	11

269	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H spectroscopy: HD experiment and implications for DT experiment. *Nuclear Fusion*, **2019**, 59, 046011	3.3	11
268	The effect of beryllium oxide on retention in JET ITER-like wall tiles. *Nuclear Materials and Energy*, **2019**, 19, 346-351	2.1	11
267	Systematic analysis of the neutron-induced reaction cross sections for Monat isotopes within 10 20 MeV. *Physical Review C*, **2019**, 99,	2.7	11
266	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. *Nuclear Fusion*, **2018**, 58, 026019	3.3	11
265	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. *Physics of Plasmas*, **2018**, 25, 012303	2.1	11
264	Thermal desorption spectrometry of beryllium plasma facing tiles exposed in the JET tokamak. *Fusion Engineering and Design*, **2018**, 133, 135-141	1.7	11
263	Ion cyclotron resonance heating scenarios for DEMO. *Nuclear Fusion*, **2019**, 59, 106051	3.3	11
262	Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition. *Radiation Physics and Chemistry*, **2015**, 116, 359-364	2.5	11
261	Diagnostic application of magnetic islands rotation in JET. *Nuclear Fusion*, **2016**, 56, 076004	3.3	11
260	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
259	Technical preparations for the in-vessel 14 MeV neutron calibration at JET. *Fusion Engineering and Design*, **2017**, 117, 107-114	1.7	10
258	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
257	Tritium breeding mock-up experiments containing lithium titanate ceramic pebbles and lead irradiated with DT neutrons. *Fusion Engineering and Design*, **2015**, 95, 50-58	1.7	10
256	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. *Nuclear Fusion*, **2018**, 58, 016023	3.3	10
255	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. *Physical Review A*, **2018**, 97,	2.6	10
254	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
253	JET experiments with tritium and deuterium tritium mixtures. *Fusion Engineering and Design*, **2016**, 109-111, 925-936	1.7	10
252	14 MeV calibration of JET neutron detectors hase 2: in-vessel calibration. *Nuclear Fusion*, **2018**, 58, 106016	3.3	10

251	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. *Plasma Physics and Controlled Fusion*, **2019**, 61, 014027	2	10
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