Mark Turner

List of Publications by Year in Descending Order

313 papers	7,722 citations	43 h-index	72 g-index
333 ext. papers	8,860 ext. citations	2.6 avg, IF	6.17 L-index

#	Paper	IF	Citations
313	Ion energy distribution function in very high frequency capacitive discharges excited by saw-tooth waveform. *Physics of Plasmas*, **2021**, 28, 103502	2.1	2
312	Driving frequency effect on discharge parameters and higher harmonic generation in capacitive discharges at constant power densities. *Journal Physics D: Applied Physics*, **2021**, 54, 055205	3	6
311	Dynamics of scrape-off layer filaments in detached conditions. *Nuclear Fusion*, **2020**, 60, 126047	3.3	1
310	Electric field nonlinearity in very high frequency capacitive discharges at constant electron plasma frequency. *Plasma Sources Science and Technology*, **2020**, 29, 045003	3.5	12
309	High frequency sheath modulation and higher harmonic generation in a low pressure very high frequency capacitively coupled plasma excited by sawtooth waveform. *Plasma Sources Science and Technology*, **2020**, 29, 114001	3.5	5
308	From hierarchies to networks: The organizational evolution of the international drug trade. *International Journal of Law, Crime and Justice*, **2020**, 63, 100436	0.9	1
307	Precise Definition of a "Monolayer Point" in Polymer Brush Films for Fabricating Highly Coherent TiO Thin Films by Vapor-Phase Infiltration. *Langmuir*, **2020**, 36, 12394-12402	4	5
306	Experimental investigation of electron heating modes in capacitively coupled radio-frequency oxygen discharge. *Plasma Sources Science and Technology*, **2019**, 28, 115008	3.5	3
305	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H$_\alpha$ spectroscopy: HD experiment and implications for DT experiment. *Nuclear Fusion*, **2019**, 59, 046011	3.3	11
304	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. *Fusion Engineering and Design*, **2019**, 138, 254-266	1.7	4
303	Electric field filamentation and higher harmonic generation in very high frequency capacitive discharges. *Journal Physics D: Applied Physics*, **2019**, 52, 365201	3	13
302	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
301	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
300	Influence of select discharge parameters on electric field transients triggered in collisionless very high frequency capacitive discharges. *Physics of Plasmas*, **2019**, 26, 103508	2.1	12
299	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
298	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
297	Improved neutron activation dosimetry for fusion. *Fusion Engineering and Design*, **2019**, 139, 109-114	1.7	6

296	Influence of plasma background on 3D scrape-off layer filaments. *Plasma Physics and Controlled Fusion*, **2019**, 61, 025008	2	3
295	Foundations of modelling of nonequilibrium low-temperature plasmas. *Plasma Sources Science and Technology*, **2018**, 27, 023002	3.5	50
294	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
293	14 MeV calibration of JET neutron detectors—phase 1: calibration and characterization of the neutron source. *Nuclear Fusion*, **2018**, 58, 026012	3.3	16
292	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. *Physical Review A*, **2018**, 97,	2.6	10
291	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
290	Plasma density and ion energy control via driving frequency and applied voltage in a collisionless capacitively coupled plasma discharge. *Physics of Plasmas*, **2018**, 25, 080705	2.1	18
289	Influence of excitation frequency on the metastable atoms and electron energy distribution function in a capacitively coupled argon discharge. *Physics of Plasmas*, **2018**, 25, 063501	2.1	26
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	High power neon seeded JET discharges: Experiments and simulations. *Nuclear Materials and Energy*, **2017**, 12, 882-886	2.1	9
286	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
285	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
284	Energy balance in JET. *Nuclear Materials and Energy*, **2017**, 12, 227-233	2.1	13
283	Possible influence of near SOL plasma on the H-mode power threshold. *Nuclear Materials and Energy*, **2017**, 12, 273-277	2.1	12
282	The effect of intermediate frequency on sheath dynamics in collisionless current driven triple frequency capacitive plasmas. *Physics of Plasmas*, **2017**, 24, 013509	2.1	13
281	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
280	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
279	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

278	Plasma impact on diagnostic mirrors in JET. *Nuclear Materials and Energy*, **2017**, 12, 506-512	2.1	24
277	Hybrid cancellation of ripple disturbances arising in AC/DC converters. *Automatica*, **2017**, 77, 344-352	5.7	4
276	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
275	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
274	Investigation of the electron kinetics in O2capacitively coupled plasma with the use of a Langmuir probe. *Plasma Sources Science and Technology*, **2017**, 26, 065009	3.5	12
273	Generation of the neutron response function of an NE213 scintillator for fusion applications. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 866, 222-229	1.2	4
272	Hardware architecture of the data acquisition and processing system for the JET Neutron Camera Upgrade (NCU) project. *Fusion Engineering and Design*, **2017**, 123, 873-876	1.7	8
271	Commissioning and first results of the reinstated JET ICRF ILA. *Fusion Engineering and Design*, **2017**, 123, 285-288	1.7	5
270	Plasma edge and plasma-wall interaction modelling: Lessons learned from metallic devices. *Nuclear Materials and Energy*, **2017**, 12, 3-17	2.1	13
269	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. *Nature Physics*, **2017**, 13, 973-978	16.2	50
268	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments. *Fusion Engineering and Design*, **2017**, 123, 749-753	1.7	9
267	Calculation of the profile-dependent neutron backscatter matrix for the JET neutron camera system. *Fusion Engineering and Design*, **2017**, 123, 865-868	1.7	3
266	The emissivity of W coatings deposited on carbon materials for fusion applications. *Fusion Engineering and Design*, **2017**, 114, 192-195	1.7	7
265	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
264	Technical preparations for the in-vessel 14 MeV neutron calibration at JET. *Fusion Engineering and Design*, **2017**, 117, 107-114	1.7	10
263	The preparation of the Shutdown Dose Rate experiment for the next JET Deuterium-Tritium campaign. *Fusion Engineering and Design*, **2017**, 123, 1039-1043	1.7	5
262	Status of ITER material activation experiments at JET. *Fusion Engineering and Design*, **2017**, 124, 1150-1155	1.7	9
261	$CeBr_3$-based detector for gamma-ray spectrometer upgrade at JET. *Fusion Engineering and Design*, **2017**, 123, 986-989	1.7	3

260	Expanding the role of impurity spectroscopy for investigating the physics of high-Z dissipative divertors. *Nuclear Materials and Energy*, **2017**, 12, 91-99	2.1	5
259	Overview of the JET ITER-like wall divertor. *Nuclear Materials and Energy*, **2017**, 12, 499-505	2.1	36
258	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. *Nuclear Materials and Energy*, **2017**, 12, 111-118	2.1	61
257	Main chamber wall plasma loads in JET-ITER-like wall at high radiated fraction. *Nuclear Materials and Energy*, **2017**, 12, 234-240	2.1	5
256	Influence of plasma background including neutrals on scrape-off layer filaments using 3D simulations. *Nuclear Materials and Energy*, **2017**, 12, 825-830	2.1	6
255	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
254	QDB: a new database of plasma chemistries and reactions. *Plasma Sources Science and Technology*, **2017**, 26, 055014	3.5	29
253	Determining the prediction limits of models and classifiers with applications for disruption prediction in JET. *Nuclear Fusion*, **2017**, 57, 016024	3.3	4
252	Comparative H-mode density limit studies in JET and AUG. *Nuclear Materials and Energy*, **2017**, 12, 100-110	2.1	7
251	The effect of lower hybrid waves on JET plasma rotation. *Nuclear Fusion*, **2017**, 57, 034002	3.3	6
250	Deep learning for plasma tomography using the bolometer system at JET. *Fusion Engineering and Design*, **2017**, 114, 18-25	1.7	22
249	Computer Simulation in Low-Temperature Plasma Physics: Future Challenges. *Plasma Processes and Polymers*, **2017**, 14, 1600121	3.4	12
248	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
247	A tool to support the construction of reliable disruption databases. *Fusion Engineering and Design*, **2017**, 125, 139-153	1.7	9
246	A model for tailored-waveform radiofrequency sheaths. *Journal Physics D: Applied Physics*, **2017**, 50, 23LT02	3	8
245	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
244	The global build-up to intrinsic ELM bursts and comparison with pellet triggered ELMs seen in JET. *Nuclear Fusion*, **2017**, 57, 022017	3.3	2
243	The 2017 Plasma Roadmap: Low temperature plasma science and technology. *Journal Physics D: Applied Physics*, **2017**, 50, 323001	3	496

242	A 3D electromagnetic model of the iron core in JET. *Fusion Engineering and Design*, **2017**, 123, 527-531	1.7	2
241	Quartz micro-balance results of pulse-resolved erosion/deposition in the JET-ILW divertor. *Nuclear Materials and Energy*, **2017**, 12, 478-482	2.1	4
240	The isotope effect on divertor conditions and neutral pumping in horizontal divertor configurations in JET-ILW Ohmic plasmas. *Nuclear Materials and Energy*, **2017**, 12, 791-797	2.1	6
239	ELM divertor peak energy fluence scaling to ITER with data from JET, MAST and ASDEX upgrade. *Nuclear Materials and Energy*, **2017**, 12, 84-90	2.1	74
238	Development of MPPC-based detectors for high count rate DT campaigns at JET. *Fusion Engineering and Design*, **2017**, 123, 940-944	1.7	4
237	Real time control developments at JET in preparation for deuterium-tritium operation. *Fusion Engineering and Design*, **2017**, 123, 535-540	1.7	7
236	Erosion at the inner wall of JET during the discharge campaign 2013–2014. *Nuclear Materials and Energy*, **2017**, 11, 20-24	2.1	10
235	Overview of the JET results in support to ITER. *Nuclear Fusion*, **2017**, 57, 102001	3.3	125
234	Response of the imaging cameras to hard radiation during JET operation. *Fusion Engineering and Design*, **2017**, 123, 669-673	1.7	8
233	Deuterium retention in the divertor tiles of JET ITER-Like wall. *Nuclear Materials and Energy*, **2017**, 12, 655-661	2.1	10
232	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. *Nuclear Fusion*, **2017**, 57, 036027	3.3	16
231	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
230	An analytical expression for ion velocities at the wall including the sheath electric field and surface biasing for erosion modeling at JET ILW. *Nuclear Materials and Energy*, **2017**, 12, 341-345	2.1	10
229	Axisymmetric oscillations at L–H transitions in JET: M-mode. *Nuclear Fusion*, **2017**, 57, 022021	3.3	16
228	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
227	Bayesian electron density inference from JET lithium beam emission spectra using Gaussian processes. *Nuclear Fusion*, **2017**, 57, 036017	3.3	9
226	Gyrokinetic modeling of impurity peaking in JET H-mode plasmas. *Physics of Plasmas*, **2017**, 24, 062511	2.1	9
225	A prototype fully digital data acquisition system upgrade for the TOFOR neutron spectrometer at JET. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2016**, 833, 94-104	1.2	3

224	Sparse representation of signals: from astrophysics to real-time data analysis for fusion plasmas and system optimization analysis for ITER and TCV. *Plasma Physics and Controlled Fusion*, **2016**, 58, 123001	2	4
223	The role of MHD in causing impurity peaking in JET hybrid plasmas. *Nuclear Fusion*, **2016**, 56, 066002	3.3	31
222	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. *Plasma Physics and Controlled Fusion*, **2016**, 58, 045011	2	17
221	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. *Physical Review Letters*, **2016**, 116, 065002	7.4	59
220	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
219	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. *Nuclear Fusion*, **2016**, 56, 046009	3.3	21
218	Plasma turbulence measured with fast frequency swept reflectometry in JET H-mode plasmas. *Nuclear Fusion*, **2016**, 56, 126019	3.3	4
217	Characteristics of pre-ELM structures during ELM control experiment on JET with$n = 2$ magnetic perturbations. *Nuclear Fusion*, **2016**, 56, 092011	3.3	
216	Evaluation of reconstruction errors and identification of artefacts for JET gamma and neutron tomography. *Review of Scientific Instruments*, **2016**, 87, 013502	1.7	5
215	A generalized Abel inversion method for gamma-ray imaging of thermonuclear plasmas. *Journal of Instrumentation*, **2016**, 11, C03001-C03001	1	2
214	COREDIV and SOLPS Numerical Simulations of the Nitrogen Seeded JET ILW L-mode Discharges. *Contributions To Plasma Physics*, **2016**, 56, 760-765	1.4	5
213	Modelling of the JET DT Experiments in Carbon and ITER-like Wall Configurations. *Contributions To Plasma Physics*, **2016**, 56, 766-771	1.4	3
212	Effect of PFC Recycling Conditions on JET Pedestal Density. *Contributions To Plasma Physics*, **2016**, 56, 754-759	1.4	6
211	Experience of handling beryllium, tritium and activated components from JET ITER like wall. *Physica Scripta*, **2016**, T167, 014057	2.6	17
210	Stabilization of sawteeth with third harmonic deuterium ICRF-accelerated beam in JET plasmas. *Physics of Plasmas*, **2016**, 23, 012505	2.1	4
209	Tritium distributions on tungsten and carbon tiles used in the JET divertor. *Physica Scripta*, **2016**, T167, 014009	2.6	9
208	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
207	Thermo-mechanical properties of W/Mo markers coatings deposited on bulk W. *Physica Scripta*, **2016**, T167, 014028	2.6	0

206	In situ wavelength calibration of the edge CXS spectrometers on JET. *Review of Scientific Instruments*, **2016**, 87, 11E525	1.7	6
205	Global optimization driven by genetic algorithms for disruption predictors based on APODIS architecture. *Fusion Engineering and Design*, **2016**, 112, 1014-1018	1.7	5
204	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. *Fusion Engineering and Design*, **2016**, 106, 93-98	1.7	8
203	Neutronics experiments and analyses in preparation of DT operations at JET. *Fusion Engineering and Design*, **2016**, 109-111, 895-905	1.7	17
202	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
201	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014026	2	17
200	Deuterium trapping and release in JET ITER-like wall divertor tiles. *Physica Scripta*, **2016**, T167, 014074	2.6	18
199	X-ray micro-laminography for theex situanalysis of W-CFC samples retrieved from JET ITER-like wall. *Physica Scripta*, **2016**, T167, 014050	2.6	1
198	Erosion and deposition in the JET divertor during the first ILW campaign. *Physica Scripta*, **2016**, T167, 014051	2.6	47
197	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014036	2	45
196	Real-time control of ELM and sawtooth frequencies: similarities and differences. *Nuclear Fusion*, **2016**, 56, 016008	3.3	7
195	Uncertainty and sensitivity analysis in complex plasma chemistry models. *Plasma Sources Science and Technology*, **2016**, 25, 015003	3.5	27
194	Studies of Be migration in the JET tokamak using AMS with 10 Be marker. *Nuclear Instruments & Methods in Physics Research B*, **2016**, 371, 370-375	1.2	9
193	JET experiments with tritium and deuterium–tritium mixtures. *Fusion Engineering and Design*, **2016**, 109-111, 925-936	1.7	10
192	Deposition in the inner and outer corners of the JET divertor with carbon wall and metallic ITER-like wall. *Physica Scripta*, **2016**, T167, 014052	2.6	9
191	JET experience on managing radioactive waste and implications for ITER. *Fusion Engineering and Design*, **2016**, 109-111, 979-985	1.7	6
190	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
189	Modelling of plasma-edge and plasma–wall interaction physics at JET with the metallic first-wall. *Physica Scripta*, **2016**, T167, 014078	2.6	2

188	Long-term fuel retention in JET ITER-like wall. *Physica Scripta*, **2016**, T167, 014075	2.6	44
187	Investigation on the erosion/deposition processes in the ITER-like wall divertor at JET using glow discharge optical emission spectrometry technique. *Physica Scripta*, **2016**, T167, 014049	2.6	5
186	Advances in understanding and utilising ELM control in JET. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014017	2	5
185	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. *Nuclear Fusion*, **2016**, 56, 026001	3.3	25
184	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. *Nuclear Fusion*, **2016**, 56, 026007	3.3	38
183	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. *Nuclear Fusion*, **2016**, 56, 026006	3.3	14
182	Raman microscopy investigation of beryllium materials. *Physica Scripta*, **2016**, T167, 014027	2.6	8
181	Risk Mitigation for ITER by a Prolonged and Joint International Operation of JET. *Journal of Fusion Energy*, **2016**, 35, 85-93	1.6	3
180	On determining the prediction limits of mathematical models for time series. *Journal of Instrumentation*, **2016**, 11, C07013-C07013	1	1
179	An FPGA-based bolometer for the MAST-U Super-X divertor. *Review of Scientific Instruments*, **2016**, 87, 11E721	1.7	8
178	Study of the triton-burnup process in different JET scenarios using neutron monitor based on CVD diamond. *Review of Scientific Instruments*, **2016**, 87, 11D835	1.7	4
177	Edge profile analysis of Joint European Torus (JET) Thomson scattering data: Quantifying the systematic error due to edge localised mode synchronisation. *Review of Scientific Instruments*, **2016**, 87, 013507	1.7	5
176	Bayesian modelling of the emission spectrum of the Joint European Torus Lithium Beam Emission Spectroscopy system. *Review of Scientific Instruments*, **2016**, 87, 023501	1.7	8
175	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
174	Physics of Cold Plasma **2016**, 17-51		10
173	Simulating the nitrogen migration in Be/W tokamaks with WallDYN. *Physica Scripta*, **2016**, T167, 014079	2.6	4
172	Classification of JET Neutron and Gamma Emissivity Profiles. *Journal of Instrumentation*, **2016**, 11, C05021-C05021		1
171	Two-photon absorption laser induced fluorescence measurement of atomic oxygen density in an atmospheric pressure air plasma jet. *Plasma Sources Science and Technology*, **2016**, 25, 045023	3.5	6

170	Core fusion power gain and alpha heating in JET, TFTR, and ITER. *Nuclear Fusion*, **2016**, 56, 056002	3.3	4
169	Plasma confinement at JET. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014034	2	23
168	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
167	Comparative gyrokinetic analysis of JET baseline H-mode core plasmas with carbon wall and ITER-like wall. *Plasma Physics and Controlled Fusion*, **2016**, 58, 045021	2	2
166	Concepts and characteristics of the COST Reference Microplasma Jet *Journal Physics D: Applied Physics*, **2016**, 49, 084003	3	109
165	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
164	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. *Physica Scripta*, **2016**, 91, 064003	2.6	16
163	ITER-like antenna capacitors voltage probes: Circuit/electromagnetic calculations and calibrations. *Review of Scientific Instruments*, **2016**, 87, 104705	1.7	6
162	First neutron spectroscopy measurements with a pixelated diamond detector at JET. *Review of Scientific Instruments*, **2016**, 87, 11D833	1.7	33
161	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. *Plasma Physics and Controlled Fusion*, **2016**, 58, 115005	2	12
160	MHD marking using the MSE polarimeter optics in ILW JET plasmas. *Review of Scientific Instruments*, **2016**, 87, 11E556	1.7	
159	Ion temperature and toroidal rotation in JET's low torque plasmas. *Review of Scientific Instruments*, **2016**, 87, 11E557	1.7	2
158	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
157	Deep deuterium retention and Be/W mixing at tungsten coated surfaces in the JET divertor. *Physica Scripta*, **2016**, T167, 014061	2.6	13
156	JET diagnostic enhancements in preparation for DT operations. *Review of Scientific Instruments*, **2016**, 87, 11D443	1.7	5
155	Melt damage to the JET ITER-like Wall and divertor. *Physica Scripta*, **2016**, T167, 014070	2.6	43
154	Comparison of dust transport modelling codes in a tokamak plasma. *Physics of Plasmas*, **2016**, 23, 102506	2.1	5
153	Performance of the prototype LaBr spectrometer developed for the JET gamma-ray camera upgrade. *Review of Scientific Instruments*, **2016**, 87, 11E717	1.7	23

152	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
151	Neutron emission spectroscopy of DT plasmas at enhanced energy resolution with diamond detectors. *Review of Scientific Instruments*, **2016**, 87, 11D822	1.7	13
150	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
149	A classification scheme for edge-localized modes based on their probability distributions. *Review of Scientific Instruments*, **2016**, 87, 11D404	1.7	3
148	Effect of driving frequency on the electron energy distribution function and electron-sheath interaction in a low pressure capacitively coupled plasma. *Physics of Plasmas*, **2016**, 23, 110701	2.1	25
147	How to assess the efficiency of synchronization experiments in tokamaks. *Nuclear Fusion*, **2016**, 56, 076008	3.3	8
146	Scaling of the frequencies of the type one edge localized modes and their effect on the tungsten source in JET ITER-like wall. *Plasma Physics and Controlled Fusion*, **2016**, 58, 125014	2	4
145	Extending helium partial pressure measurement technology to JET DTE2 and ITER. *Review of Scientific Instruments*, **2016**, 87, 11D442	1.7	7
144	Numerical calculations of non-inductive current driven by microwaves in JET. *Plasma Physics and Controlled Fusion*, **2016**, 58, 125001	2	3
143	Verification of particle-in-cell simulations with Monte Carlo collisions. *Plasma Sources Science and Technology*, **2016**, 25, 054007	3.5	9
142	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. *Nuclear Fusion*, **2016**, 56, 106026	3.3	18
141	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
140	JET Tokamak, preparation of a safety case for tritium operations. *Fusion Engineering and Design*, **2016**, 109-111, 1308-1312	1.7	3
139	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. *Physica Scripta*, **2016**, T167, 014077	2.6	14
138	Neutronic analysis of JET external neutron monitor response. *Fusion Engineering and Design*, **2016**, 109-111, 99-103	1.7	4
137	Advanced design of the Mechanical Tritium Pumping System for JET DTE2. *Fusion Engineering and Design*, **2016**, 109-111, 359-364	1.7	9
136	The non-thermal origin of the tokamak low-density stability limit. *Nuclear Fusion*, **2016**, 56, 056010	3.3	2
135	Diagnostic application of magnetic islands rotation in JET. *Nuclear Fusion*, **2016**, 56, 076004	3.3	11

134	Kinematic background discrimination methods using a fully digital data acquisition system for TOFOR. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2016**, 838, 82-88	1.2	2
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132	Turbulent transport analysis of JET H-mode and hybrid plasmas using QuaLiKiz and Trapped Gyro Landau Fluid. *Plasma Physics and Controlled Fusion*, **2015**, 57, 035003	2	6
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