

Mark Turner

List of Publications by Citations

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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	The 2017 Plasma Roadmap: Low temperature plasma science and technology. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 323001	3	496
312	Standing wave and skin effects in large-area, high-frequency capacitive discharges. <i>Plasma Sources Science and Technology</i> , 2002 , 11, 283-293	3.5	279
311	Collisionless electron heating in an inductively coupled discharge. <i>Physical Review Letters</i> , 1993 , 71, 1844-1847	7.1	202
310	Independent control of ion current and ion impact energy onto electrodes in dual frequency plasma devices. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 697-701	3	186
309	Hysteresis and the E-to-H transition in radiofrequency inductive discharges. <i>Plasma Sources Science and Technology</i> , 1999 , 8, 313-324	3.5	171
308	Pressure heating of electrons in capacitively coupled rf discharges. <i>Physical Review Letters</i> , 1995 , 75, 1312-1315	7.4	140
307	Simulation benchmarks for low-pressure plasmas: Capacitive discharges. <i>Physics of Plasmas</i> , 2013 , 20, 013507	2.1	139
306	Frequency coupling in dual frequency capacitively coupled radio-frequency plasmas. <i>Applied Physics Letters</i> , 2006 , 89, 261502	3.4	136
305	Collisionless heating in capacitive discharges enhanced by dual-frequency excitation. <i>Physical Review Letters</i> , 2006 , 96, 205001	7.4	133
304	Electrostatic modelling of dual frequency rf plasma discharges. <i>Plasma Sources Science and Technology</i> , 2004 , 13, 493-503	3.5	132
303	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , 2017 , 57, 102001	3.3	125
302	Characterization of the E to H transition in a pulsed inductively coupled plasma discharge with internal coil geometry: bi-stability and hysteresis. <i>Plasma Sources Science and Technology</i> , 1999 , 8, 576-586	3.5	120
301	Collisionless electron heating by capacitive rf sheaths. <i>Physical Review Letters</i> , 2001 , 87, 135004	7.4	114
300	Concepts and characteristics of the MOST Reference Microplasma Jet. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 084003	3	109
299	Space and phase resolved plasma parameters in an industrial dual-frequency capacitively coupled radio-frequency discharge. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7008-7018	3	101
298	Analytical model of a dual frequency capacitive sheath. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 18103-18116	3.1	100
297	Collisionless heating in radio-frequency discharges: a review. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 194008	3	95

296	Hysteresis in the E- to H-mode transition in a planar coil, inductively coupled rf argon discharge. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 3082-3094	3	95
295	Anomalous sheath heating in a low pressure rf discharge in nitrogen. <i>Physical Review Letters</i> , 1992 , 69, 3511-3514	7.4	95
294	Kinetic properties of particle-in-cell simulations compromised by Monte Carlo collisions. <i>Physics of Plasmas</i> , 2006 , 13, 033506	2.1	77
293	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
292	Beryllium migration in JET ITER-like wall plasmas. <i>Nuclear Fusion</i> , 2015 , 55, 063021	3.3	70
291	Pedestal confinement and stability in JET-ILW ELMy H-modes. <i>Nuclear Fusion</i> , 2015 , 55, 113031	3.3	69
290	Improved confinement in JET high- β plasmas with an ITER-like wall. <i>Nuclear Fusion</i> , 2015 , 55, 053031	3.3	63
289	Heating mode transition induced by a magnetic field in a capacitive rf discharge. <i>Physical Review Letters</i> , 1996 , 76, 2069-2072	7.4	62
288	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
287	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
286	One-dimensional particle-in-cell simulation of a current-free double layer in an expanding plasma. <i>Physics of Plasmas</i> , 2005 , 12, 052317	2.1	59
285	Overview of the JET results with the ITER-like wall. <i>Nuclear Fusion</i> , 2013 , 53, 104002	3.3	58
284	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. <i>Nuclear Fusion</i> , 2015 , 55, 053015	3.3	55
283	WEST Physics Basis. <i>Nuclear Fusion</i> , 2015 , 55, 063017	3.3	54
282	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
281	Modelling of the dual frequency capacitive sheath in the intermediate pressure range. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 1451-1458	3	51
280	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. <i>Nature Physics</i> , 2017 , 13, 973-978	16.2	50
279	Foundations of modelling of nonequilibrium low-temperature plasmas. <i>Plasma Sources Science and Technology</i> , 2018 , 27, 023002	3.5	50

278	Global models of electronegative discharges: critical evaluation and practical recommendations. <i>Plasma Sources Science and Technology</i> , 2008 , 17, 045003	3.5	48
277	Erosion and deposition in the JET divertor during the first ILW campaign. <i>Physica Scripta</i> , 2016 , T167, 014051	2.6	47
276	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014036	2	45
275	Long-term fuel retention in JET ITER-like wall. <i>Physica Scripta</i> , 2016 , T167, 014075	2.6	44
274	Uncertainty and error in complex plasma chemistry models. <i>Plasma Sources Science and Technology</i> , 2015 , 24, 035027	3.5	44
273	Electron heating mechanisms in dual-frequency capacitive discharges. <i>Plasma Sources Science and Technology</i> , 2007 , 16, 364-371	3.5	44
272	First dust study in JET with the ITER-like wall: sampling, analysis and classification. <i>Nuclear Fusion</i> , 2015 , 55, 113033	3.3	43
271	Overview of JET results. <i>Nuclear Fusion</i> , 2009 , 49, 104006	3.3	43
270	Melt damage to the JET ITER-like Wall and divertor. <i>Physica Scripta</i> , 2016 , T167, 014070	2.6	43
269	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
268	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
267	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
266	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
265	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
264	Comparison of measurements and particle-in-cell simulations of ion energy distribution functions in a capacitively coupled radio-frequency discharge. <i>Physics of Plasmas</i> , 2007 , 14, 103510	2.1	37
263	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
262	Overview of the JET ITER-like wall divertor. <i>Nuclear Materials and Energy</i> , 2017 , 12, 499-505	2.1	36
261	Runaway electron beam generation and mitigation during disruptions at JET-ILW. <i>Nuclear Fusion</i> , 2015 , 55, 093013	3.3	36

260	Overview of JET results. <i>Nuclear Fusion</i> , 2003 , 43, 1540-1554	3.3	35
259	JET and COMPASS asymmetrical disruptions. <i>Nuclear Fusion</i> , 2015 , 55, 113006	3.3	34
258	Overview of the JET results. <i>Nuclear Fusion</i> , 2015 , 55, 104001	3.3	34
257	. <i>IEEE Transactions on Plasma Science</i> , 1995 , 23, 636-643	1.3	34
256	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
255	Anomalous skin effect and collisionless power dissipation in inductively coupled discharges. <i>Journal of Applied Physics</i> , 2001 , 89, 3580-3589	2.5	33
254	First neutron spectroscopy measurements with a pixelated diamond detector at JET. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D833	1.7	33
253	. <i>IEEE Transactions on Electron Devices</i> , 1991 , 38, 767-771	2.9	32
252	The role of MHD in causing impurity peaking in JET hybrid plasmas. <i>Nuclear Fusion</i> , 2016 , 56, 066002	3.3	31
251	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
250	Plasma boundary sheath in the afterglow of a pulsed inductively coupled RF plasma. <i>Plasma Sources Science and Technology</i> , 2007 , 16, 355-363	3.5	31
249	Measured and simulated electron energy distribution functions in a low-pressure radio frequency discharge in argon. <i>Applied Physics Letters</i> , 1993 , 62, 3247-3249	3.4	31
248	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
247	Using the resonance hairpin probe and pulsed photodetachment technique as a diagnostic for negative ions in oxygen plasma. <i>Plasma Sources Science and Technology</i> , 2010 , 19, 065002	3.5	30
246	Simulation of kinetic effects in inductive discharges. <i>Plasma Sources Science and Technology</i> , 1996 , 5, 159-165	3.5	30
245	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
244	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
243	QDB: a new database of plasma chemistries and reactions. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 055014	3.5	29

242	Analysis of the excited argon atoms in the GEC RF reference cell by means of one-dimensional PIC simulations. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 2216-2222	3	29
241	Collisionless electron heating by capacitive radio-frequency plasma sheaths. <i>Plasma Sources Science and Technology</i> , 2001 , 10, 117-124	3.5	29
240	Simulation study of stochastic heating in single-frequency capacitively coupled discharges with critical evaluation of analytical models. <i>Plasma Sources Science and Technology</i> , 2013 , 22, 035014	3.5	28
239	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. <i>Nuclear Fusion</i> , 2015 , 55, 123028	3.3	28
238	Uncertainty and sensitivity analysis in complex plasma chemistry models. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 015003	3.5	27
237	Discriminating the trapped electron modes contribution in density fluctuation spectra. <i>Nuclear Fusion</i> , 2015 , 55, 093021	3.3	27
236	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. <i>Nuclear Fusion</i> , 2015 , 55, 053028	3.3	26
235	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
234	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
233	Influence of excitation frequency on the metastable atoms and electron energy distribution function in a capacitively coupled argon discharge. <i>Physics of Plasmas</i> , 2018 , 25, 063501	2.1	26
232	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
231	Atomic oxygen patterning from a biomedical needle-plasma source. <i>Journal of Applied Physics</i> , 2013 , 114, 123301	2.5	25
230	. <i>IEEE Transactions on Electron Devices</i> , 1991 , 38, 810-816	2.9	25
229	Effect of driving frequency on the electron energy distribution function and electron-sheath interaction in a low pressure capacitively coupled plasma. <i>Physics of Plasmas</i> , 2016 , 23, 110701	2.1	25
228	Plasma impact on diagnostic mirrors in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 506-512	2.1	24
227	Generation of reactive species by an atmospheric pressure plasma jet. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 065013	3.5	24
226	Boundary Conditions and Particle Loading for the Modeling of a Semi-infinite Plasma. <i>Journal of Computational Physics</i> , 2001 , 172, 348-355	4.1	24
225	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

224	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
223	Use of particle-in-cell simulations to improve the actinometry technique for determination of absolute atomic oxygen density. <i>Plasma Sources Science and Technology</i> , 2013 , 22, 045004	3.5	23
222	Gas and heat dynamics of a micro-scaled atmospheric pressure plasma reference jet. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 444002	3	23
221	Plasma confinement at JET. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014034	2	23
220	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
219	Deep learning for plasma tomography using the bolometer system at JET. <i>Fusion Engineering and Design</i> , 2017 , 114, 18-25	1.7	22
218	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
217	The temporal evolution in plasma potential during laser photo-detachment used to diagnose electronegative plasma. <i>Plasma Sources Science and Technology</i> , 2011 , 20, 055003	3.5	22
216	On the global model approximation. <i>Plasma Sources Science and Technology</i> , 2009 , 18, 045024	3.5	22
215	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
214	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
213	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
212	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. <i>Nuclear Fusion</i> , 2016 , 56, 046009	3.3	21
211	. <i>IEEE Transactions on Plasma Science</i> , 1991 , 19, 350-360	1.3	21
210	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
209	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
208	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
207	Electron heating mode transitions in dual frequency capacitive discharges. <i>Applied Physics Letters</i> , 2006 , 89, 231502	3.4	20

206	Behaviour of a planar Langmuir probe in a laser ablation plasma. <i>Applied Surface Science</i> , 2005 , 247, 134-138	2.0	18
205	Simulation study of wave phenomena from the sheath region in single frequency capacitively coupled plasma discharges; field reversals and ion reflection. <i>Physics of Plasmas</i> , 2013 , 20, 073507	2.1	19
204	Numerical effects on energy distribution functions in particle-in-cell simulations with Monte Carlo collisions: choosing numerical parameters. <i>Plasma Sources Science and Technology</i> , 2013 , 22, 055001	3.5	19
203	Deuterium trapping and release in JET ITER-like wall divertor tiles. <i>Physica Scripta</i> , 2016 , T167, 014074	2.6	18
202	Plasma density and ion energy control via driving frequency and applied voltage in a collisionless capacitively coupled plasma discharge. <i>Physics of Plasmas</i> , 2018 , 25, 080705	2.1	18
201	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. <i>Nuclear Fusion</i> , 2016 , 56, 106026	3.3	18
200	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. <i>Nuclear Fusion</i> , 2016 , 56, 106010	3.3	18
199	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
198	Experience of handling beryllium, tritium and activated components from JET ITER like wall. <i>Physica Scripta</i> , 2016 , T167, 014057	2.6	17
197	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
196	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
195	Probing negative ion density and temperature using a resonance hairpin probe. <i>Plasma Sources Science and Technology</i> , 2015 , 24, 022001	3.5	17
194	A radio-frequency sheath model for complex waveforms. <i>Applied Physics Letters</i> , 2014 , 104, 164102	3.4	17
193	Investigation of the Formation Mechanism of Aligned Nano-Structured Siloxane Coatings Deposited Using an Atmospheric Plasma Jet. <i>Plasma Processes and Polymers</i> , 2013 , 10, 888-903	3.4	17
192	Modeling the self-sustained discharge-excited XeCl laser in two dimensions. <i>Journal of Applied Physics</i> , 1992 , 71, 2113-2122	2.5	17
191	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
190	14 MeV calibration of JET neutron detectorsPhase 1: calibration and characterization of the neutron source. <i>Nuclear Fusion</i> , 2018 , 58, 026012	3.3	16
189	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. <i>Nuclear Fusion</i> , 2017 , 57, 036027	3.3	16

188	Axisymmetric oscillations at L-H transitions in JET: M-mode. <i>Nuclear Fusion</i> , 2017 , 57, 022021	3.3	16
187	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
186	One-dimensional simulation of an ion beam generated by a current-free double-Layer. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 334-335	1.3	16
185	Electromagnetic shock-wave generation in a lumped element delay line containing nonlinear ferroelectric capacitors. <i>Applied Physics Letters</i> , 1990 , 56, 2471-2473	3.4	16
184	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
183	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. <i>Physica Scripta</i> , 2016 , 91, 064003	2.6	16
182	Three-Dimensional Fluid Model for Atmospheric Pressure Dielectric Barrier Discharge Plasma. <i>Plasma Processes and Polymers</i> , 2015 , 12, 1104-1116	3.4	15
181	L to H mode transition: parametric dependencies of the temperature threshold. <i>Nuclear Fusion</i> , 2015 , 55, 073015	3.3	15
180	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
179	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
178	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
177	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
176	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
175	Application of transfer entropy to causality detection and synchronization experiments in tokamaks. <i>Nuclear Fusion</i> , 2016 , 56, 026006	3.3	14
174	Radiation asymmetries during the thermal quench of massive gas injection disruptions in JET. <i>Nuclear Fusion</i> , 2015 , 55, 123027	3.3	14
173	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. <i>Physica Scripta</i> , 2016 , T167, 014077	2.6	14
172	Energy balance in JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 227-233	2.1	13
171	The effect of intermediate frequency on sheath dynamics in collisionless current driven triple frequency capacitive plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 013509	2.1	13

170	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
169	Electric field filamentation and higher harmonic generation in very high frequency capacitive discharges. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 365201	3	13
168	Collisionless sheath heating in current-driven capacitively coupled plasma discharges via higher order sinusoidal signals. <i>Plasma Sources Science and Technology</i> , 2015 , 24, 025037	3.5	13
167	Investigation of atomic oxygen density in a capacitively coupled O ₂ /SF ₆ discharge using two-photon absorption laser-induced fluorescence spectroscopy and a Langmuir probe. <i>Plasma Sources Science and Technology</i> , 2013 , 22, 045013	3.5	13
166	Anomalous collisionality in low-pressure plasmas. <i>Physics of Plasmas</i> , 2013 , 20, 124503	2.1	13
165	Theory for the self-bias formation in capacitively coupled plasmas excited by arbitrary waveforms. <i>Plasma Sources Science and Technology</i> , 2013 , 22, 065013	3.5	13
164	Electron heating in multiple-frequency capacitive discharges. <i>Plasma Physics and Controlled Fusion</i> , 2006 , 48, B231-B237	2	13
163	Benchmarking the GENE and GYRO codes through the relative roles of electromagnetic and E × B stabilization in JET high-performance discharges. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 125018	2	13
162	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
161	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
160	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
159	Investigation of the electron kinetics in O ₂ capacitively coupled plasma with the use of a Langmuir probe. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 065009	3.5	12
158	Structure, tritium depth profile and desorption from plasma-facing beryllium materials of ITER-Like-Wall at JET. <i>Nuclear Materials and Energy</i> , 2017 , 12, 642-647	2.1	12
157	Computer Simulation in Low-Temperature Plasma Physics: Future Challenges. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1600121	3.4	12
156	Electric field nonlinearity in very high frequency capacitive discharges at constant electron plasma frequency. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 045003	3.5	12
155	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
154	Influence of select discharge parameters on electric field transients triggered in collisionless very high frequency capacitive discharges. <i>Physics of Plasmas</i> , 2019 , 26, 103508	2.1	12
153	Gyrokinetic study of turbulence suppression in a JET-ILW power scan. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 115005	2	12

152	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
151	Beryllium film deposition in cavity samples in remote areas of the JET divertor during the 2011-2012 ITER-like wall campaign. <i>Nuclear Materials and Energy</i> , 2017 , 12, 548-552	2.1	11
150	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H α spectroscopy: HD experiment and implications for DIII experiment. <i>Nuclear Fusion</i> , 2019 , 59, 046011	3.3	11
149	Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition. <i>Radiation Physics and Chemistry</i> , 2015 , 116, 359-364	2.5	11
148	Investigation of wave emission phenomena in dual frequency capacitive discharges using particle-in-cell simulation. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 285201	3	11
147	Diagnostic application of magnetic islands rotation in JET. <i>Nuclear Fusion</i> , 2016 , 56, 076004	3.3	11
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145	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. <i>Physical Review A</i> , 2018 , 97,	2.6	10
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