Stefan Matejcik

List of Publications by Citations

596 papers	8,770 citations	41 h-index	56 g-index
612 ext. papers	10,368 ext. citations	2.5 avg, IF	6.06 L-index

#	Paper	IF	Citations
596	Electron attachment to the DNA bases thymine and cytosine. *Chemical Physics Letters*, **2003**, 377, 74-80	2.5	146
595	Overview of the JET results in support to ITER. *Nuclear Fusion*, **2017**, 57, 102001	3.3	125
594	Formation of C60− and C70− by free electron capture. Activation energy and effect of the internal energy on lifetime. *Chemical Physics Letters*, **1994**, 226, 213-218	2.5	111
593	High resolution dissociative electron attachment to gas phase adenine. *Journal of Chemical Physics*, **2006**, 125, 084304	3.9	104
592	Formation and decay of C−60 following free electron capture by C60. *Journal of Chemical Physics*, **1995**, 102, 2516-2521	3.9	80
591	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
590	Dissociative electron attachment to gas phase valine: a combined experimental and theoretical study. *Journal of Chemical Physics*, **2006**, 125, 204301	3.9	74
589	Dissociative electron attachment to gas phase alanine. *Chemical Physics Letters*, **2005**, 403, 107-112	2.5	72
588	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. *Physical Review Letters*, **2015**, 115, 215002	7.4	70
587	Beryllium migration in JET ITER-like wall plasmas. *Nuclear Fusion*, **2015**, 55, 063021	3.3	70
586	Pedestal confinement and stability in JET-ILW ELMy H-modes. *Nuclear Fusion*, **2015**, 55, 113031	3.3	69
585	An analysis of mass spectrometric study of negative ions extracted from negative corona discharge in air. *International Journal of Mass Spectrometry*, **2004**, 233, 317-324	1.9	67
584	Improved confinement in JET high-β plasmas with an ITER-like wall. *Nuclear Fusion*, **2015**, 55, 053031	3.3	63
583	Electron impact ionization of CH4: ionization energies and temperature effects. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2003**, 36, 261-271	1.3	63
582	Isotope effects on L-H threshold and confinement in tokamak plasmas. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014045	2	62
581	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. *Nuclear Materials and Energy*, **2017**, 12, 111-118	2.1	61
580	Experimental study of negative corona discharge in pure carbon dioxide and its mixtures with oxygen. *Journal Physics D: Applied Physics*, **2004**, 37, 64-73	3	60

579	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. *Physical Review Letters*, **2016**, 116, 065002	7.4	59
578	The varying influences of gas and electron temperatures on the rates of electron attachment to some selected molecules. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, 2941-2957	1.3	59
577	Overview of the JET results with the ITER-like wall. *Nuclear Fusion*, **2013**, 53, 104002	3.3	58
576	Dissociative electron attachment cross section to CHCl3 using a high resolution crossed beams technique. *Journal of Chemical Physics*, **1997**, 107, 8955-8962	3.9	57
575	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. *Nuclear Fusion*, **2019**, 59, 112021	3.3	55
574	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. *Nuclear Fusion*, **2015**, 55, 053015	3.3	55
573	WEST Physics Basis. *Nuclear Fusion*, **2015**, 55, 063017	3.3	54
572	A crossed beam high resolution study of dissociative electron attachment to CCl4. *International Journal of Mass Spectrometry and Ion Processes*, **1995**, 149-150, 311-319		53
571	Dual sightline measurements of MeV range deuterons with neutron and gamma-ray spectroscopy at JET. *Nuclear Fusion*, **2015**, 55, 123026	3.3	51
570	Electron attachment to 5-chloro uracil. *Journal of Chemical Physics*, **2003**, 118, 4107-4114	3.9	51
569	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. *Nature Physics*, **2017**, 13, 973-978	16.2	50
568	The role of dissociative electron attachment in focused electron beam induced processing: a case study on cobalt tricarbonyl nitrosyl. *Angewandte Chemie - International Edition*, **2011**, 50, 9475-7	16.4	50
567	Gas phase low energy electron induced decomposition of the focused electron beam induced deposition (FEBID) precursor trimethyl (methylcyclopentadienyl) platinum(IV) (MeCpPtMe3). *Physical Chemistry Chemical Physics*, **2012**, 14, 14611-8	3.6	49
566	Low energy electron driven reactions in single formic acid molecules (HCOOH) and their homogeneous clusters. *Physical Chemistry Chemical Physics*, **2005**, 7, 2212-6	3.6	48
565	Vibrationally Resolved Electron Attachment to Oxygen Clusters. *Physical Review Letters*, **1996**, 77, 3771-3774	7.4	48
564	Erosion and deposition in the JET divertor during the first ILW campaign. *Physica Scripta*, **2016**, T167, 014051	2.6	47
563	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014036	2	45
562	Corona discharge ion mobility spectrometry with orthogonal acceleration time of flight mass spectrometry for monitoring of volatile organic compounds. *Analytical Chemistry*, **2012**, 84, 5327-34	7.8	45

561	Long-term fuel retention in JET ITER-like wall. *Physica Scripta*, **2016**, T167, 014075	2.6	44
560	Absolute cross sections for dissociative electron attachment and dissociative ionization of cobalt tricarbonyl nitrosyl in the energy range from 0 eV to 140 eV. *Journal of Chemical Physics*, **2013**, 138, 044305	3.9	44
559	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using fingerprints. *Nuclear Fusion*, **2019**, 59, 096001	3.3	43
558	First dust study in JET with the ITER-like wall: sampling, analysis and classification. *Nuclear Fusion*, **2015**, 55, 113033	3.3	43
557	Melt damage to the JET ITER-like Wall and divertor. *Physica Scripta*, **2016**, T167, 014070	2.6	43
556	Dissociative electron attachment study to nitromethane. *Journal of Chemical Physics*, **2002**, 117, 7989-7994	3.9	42
555	Influence of the E B drift in high recycling divertors on target asymmetries. *Plasma Physics and Controlled Fusion*, **2015**, 57, 095002	2	41
554	The role of the field emission effect in direct-current argon discharges for the gaps ranging from 1 to 100 μm. *Journal Physics D: Applied Physics*, **2013**, 46, 015302	3	41
553	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
552	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. *Physics of Plasmas*, **2015**, 22, 062509	2.1	40
551	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. *Nuclear Fusion*, **2018**, 58, 034001	3.3	39
550	Mass spectrometry of atmospheric pressure plasmas. *Plasma Sources Science and Technology*, **2015**, 24, 044008	3.5	38
549	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
548	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. *Nuclear Fusion*, **2016**, 56, 026007	3.3	38
547	Recent progress towards a quantitative description of filamentary SOL transport. *Nuclear Fusion*, **2017**, 57, 056044	3.3	38
546	Dissociative electron attachment to using a high-resolution crossed-beams technique. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, 6217-6225	1.3	38
545	Temperature dependencies in dissociative electron attachment to CCl4, CCl2F2, CHCl3 and CHBr3. *International Journal of Mass Spectrometry*, **2003**, 223-224, 9-19	1.9	38
544	Dissociative electron attachment to ozone using a high-resolution crossed beams technique. *Chemical Physics Letters*, **1996**, 255, 112-118	2.5	38

543	MeV-range velocity-space tomography from gamma-ray and neutron emission spectrometry measurements at JET. *Nuclear Fusion*, **2017**, 57, 056001	3.3	37
542	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
541	Overview of the JET ITER-like wall divertor. *Nuclear Materials and Energy*, **2017**, 12, 499-505	2.1	36
540	Runaway electron beam generation and mitigation during disruptions at JET-ILW. *Nuclear Fusion*, **2015**, 55, 093013	3.3	36
539	Overview of fuel inventory in JET with the ITER-like wall. *Nuclear Fusion*, **2017**, 57, 086045	3.3	35
538	Experimental and theoretical studies of the breakdown voltage characteristics at micrometre separations in air. *Europhysics Letters*, **2011**, 95, 35002	1.6	35
537	Atmospheric Pressure Corona Discharge Ionisation and Ion Mobility Spectrometry/Mass Spectrometry study of the negative corona discharge in high purity oxygen and oxygen/nitrogen mixtures. *International Journal of Mass Spectrometry*, **2010**, 293, 23-27	1.9	35
536	Erosion, screening, and migration of tungsten in the JET divertor. *Nuclear Fusion*, **2019**, 59, 096035	3.3	34
535	JET and COMPASS asymmetrical disruptions. *Nuclear Fusion*, **2015**, 55, 113006	3.3	34
534	Overview of the JET results. *Nuclear Fusion*, **2015**, 55, 104001	3.3	34
533	Low-energy electron interactions with tungsten hexacarbonyl--W(CO)6. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 2093-8	2.2	34
532	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
531	The nucleophilic displacement (SN2) reaction F⁻ + CH3Cl → FCH3 + Cl⁻ induced by resonant electron capture in gas phase clusters. *Physical Chemistry Chemical Physics*, **2000**, 2, 1001-1005	3.6	33
530	Formation of SF5⁻ in electron attachment to SF6; swarm and beam results reconciled. *Chemical Physics Letters*, **1995**, 240, 481-488	2.5	33
529	First neutron spectroscopy measurements with a pixelated diamond detector at JET. *Review of Scientific Instruments*, **2016**, 87, 11D833	1.7	33
528	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
527	Effects of temperature on the dissociative electron attachment to N2O. *Chemical Physics Letters*, **1998**, 292, 177-182	2.5	32
526	Electron impact multiple ionization of neon, argon and xenon atoms close to threshold: appearance energies and Wannier exponents. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2002**, 35, 2993-3007	1.3	32

525	The role of MHD in causing impurity peaking in JET hybrid plasmas. *Nuclear Fusion*, **2016**, 56, 066002	3.3	31
524	Electron ionization of W(CO)6: Appearance energies. *International Journal of Mass Spectrometry*, **2012**, 314, 42-48	1.9	31
523	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
522	Free Electron Attachment and Rydberg Electron Transfer to NF3Molecules and Clusters. *Journal of Physical Chemistry A*, **1997**, 101, 9942-9947	2.8	31
521	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
520	Packed Bed DBD Discharge Experiments in Admixtures of N2 and CH4. *Plasma Chemistry and Plasma Processing*, **2010**, 30, 565-577	3.6	30
519	Dissociative electron attachment to SF6: production of SF5 at temperatures below 300 K. *International Journal of Mass Spectrometry and Ion Processes*, **1995**, 144, L13-L17		30
518	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
517	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
516	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
515	Dissociative electron attachment and electronic excitation in Fe(CO). *Physical Chemistry Chemical Physics*, **2018**, 20, 11692-11701	3.6	28
514	The Breakdown Phenomena in Micrometer Scale Direct-Current Gas Discharges. *Plasma Chemistry and Plasma Processing*, **2014**, 34, 55-64	3.6	28
513	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. *Nuclear Fusion*, **2015**, 55, 123028	3.3	28
512	Experimental and theoretical studies of the direct-current breakdown voltage in argon at micrometer separations. *Physica Scripta*, **2011**, 83, 045503	2.6	28
511	Electron attachment to molecules and clusters of atmospheric relevance: oxygen and ozone. *Plasma Sources Science and Technology*, **1997**, 6, 140-146	3.5	28
510	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. *Nuclear Fusion*, **2019**, 59, 086056	3.3	27
509	Discriminating the trapped electron modes contribution in density fluctuation spectra. *Nuclear Fusion*, **2015**, 55, 093021	3.3	27
508	Temporary anion states and dissociative electron attachment to nitrobenzene derivatives. *International Journal of Mass Spectrometry*, **2007**, 264, 22-37	1.9	27

507	Reactions in condensed formic acid (HCOOH) induced by low energy (Physical Chemistry Chemical Physics, **2005**, 7, 1277-82	3.6	27
506	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. *Nuclear Fusion*, **2015**, 55, 053028	3.3	26
505	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
504	Dissociative electron attachment to hexafluoroacetylacetone and its bidentate metal complexes M(hfac)2; M = Cu, Pd. *Journal of Chemical Physics*, **2013**, 138, 234309	3.9	26
503	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
502	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
501	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
500	Resonance electron capture by serine. *Journal of Physical Chemistry A*, **2010**, 114, 1677-83	2.8	26
499	Reactions in trifluoroacetic acid (CF3COOH) induced by low energy electron attachment. *Chemical Physics Letters*, **2006**, 419, 228-232	2.5	26
498	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
497	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. *Nuclear Fusion*, **2016**, 56, 026001	3.3	25
496	Dissociative electron attachment to CF2Cl2. *European Physical Journal D*, **1999**, 49, 383-392		25
495	Plasma impact on diagnostic mirrors in JET. *Nuclear Materials and Energy*, **2017**, 12, 506-512	2.1	24
494	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. *Nuclear Materials and Energy*, **2019**, 18, 331-338	2.1	24
493	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
492	Acetone and the precursor ligand acetylacetone: distinctly different electron beam induced decomposition?. *Physical Chemistry Chemical Physics*, **2015**, 17, 1204-16	3.6	24
491	Transport and stability of negative ions generated by negative corona discharge in air studied using ion mobility-oaTOF spectrometry. *International Journal of Mass Spectrometry*, **2013**, 334, 19-26	1.9	24
490	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

489	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
488	Scenario development for DT operation at JET. *Nuclear Fusion*, **2019**, 59, 076037	3.3	23
487	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. *Nuclear Fusion*, **2018**, 58, 056002	3.3	23
486	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
485	Electron attachment to chlorouracil: a comparison between 6-ClU and 5-ClU. *Journal of Chemical Physics*, **2004**, 120, 704-9	3.9	23
484	Electron attachment to oxygen clusters studied with high energy resolution. *Journal of Chemical Physics*, **1999**, 111, 3548-3558	3.9	23
483	Plasma confinement at JET. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014034	2	23
482	Performance of the prototype LaBr spectrometer developed for the JET gamma-ray camera upgrade. *Review of Scientific Instruments*, **2016**, 87, 11E717	1.7	23
481	Study of Atmospheric Pressure Chemical Ionization Mechanism in Corona Discharge Ion Source with and without NH Dopant by Ion Mobility Spectrometry combined with Mass Spectrometry: A Theoretical and Experimental Study. *Journal of Physical Chemistry A*, **2019**, 123, 313-322	2.8	23
480	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. *Plasma Physics and Controlled Fusion*, **2017**, 59, 055001	2	22
479	Deep learning for plasma tomography using the bolometer system at JET. *Fusion Engineering and Design*, **2017**, 114, 18-25	1.7	22
478	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
477	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
476	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
475	Erosion and deposition in the JET divertor during the second ITER-like wall campaign. *Physica Scripta*, **2017**, T170, 014058	2.6	22
474	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
473	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. *Nuclear Fusion*, **2018**, 58, 076028	3.3	22
472	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

471	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
470	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
469	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. *Nuclear Fusion*, **2016**, 56, 046009	3.3	21
468	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. *Nuclear Fusion*, **2019**, 59, 086047	3.3	21
467	Experience on divertor fuel retention after two ITER-Like Wall campaigns. *Physica Scripta*, **2017**, T170, 014063	2.6	21
466	Low-energy electron attachment to mixed ozone/oxygen clusters. *Chemical Physics Letters*, **1996**, 261, 437-442	2.5	21
465	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
464	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
463	Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. *Nuclear Fusion*, **2017**, 57, 076006	3.3	20
462	Fuel inventory and deposition in castellated structures in JET-ILW. *Nuclear Fusion*, **2017**, 57, 066027	3.3	20
461	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. *Nuclear Fusion*, **2018**, 58, 082005	3.3	20
460	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
459	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
458	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
457	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
456	Electron impact ionization of furanose alcohols. *Journal of Chemical Physics*, **2010**, 132, 104308	3.9	20
455	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
454	The breakdown voltage characteristics and the secondary electron production in direct current hydrogen discharges for the gaps ranging from 1 μm to 100 μm. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 1048-1052	2.3	19

453	A corona discharge atmospheric pressure chemical ionization source with selective NO(+) formation and its application for monoaromatic VOC detection. *Analyst, The*, **2013**, 138, 6907-12	5	19
452	Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures. *Nuclear Fusion*, **2017**, 57, 086024	3.3	19
451	Dynamics and stability of divertor detachment in H-mode plasmas on JET. *Plasma Physics and Controlled Fusion*, **2017**, 59, 095003	2	19
450	Specific O_2^- generation in corona discharge for ion mobility spectrometry. *Talanta*, **2011**, 85, 400-5	6.2	19
449	Electron impact ionization of alanine: Appearance energies of the ions. *International Journal of Mass Spectrometry*, **2006**, 252, 228-233	1.9	19
448	Current Research into Applications of Tomography for Fusion Diagnostics. *Journal of Fusion Energy*, **2019**, 38, 458-466	1.6	19
447	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
446	Electron-induced ionization and dissociative ionization of iron pentacarbonyl molecules. *European Physical Journal D*, **2015**, 69, 1	1.3	18
445	Deuterium trapping and release in JET ITER-like wall divertor tiles. *Physica Scripta*, **2016**, T167, 014074	2.6	18
444	Electron impact excitation of methane: determination of appearance energies for dissociation products. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2013**, 46, 045203	1.3	18
443	Impact of divertor geometry on H-mode confinement in the JET metallic wall. *Nuclear Fusion*, **2017**, 57, 086025	3.3	18
442	Electron ionization and dissociation of aliphatic amino acids. *Journal of Chemical Physics*, **2012**, 137, 105101	3.9	18
441	Specific formation of negative ions from leucine and isoleucine molecules. *Journal of Chemical Physics*, **2010**, 132, 014301	3.9	18
440	Identification of isomers of nitrotoluene via free electron attachment. *Analytical Chemistry*, **2007**, 79, 6585-91	7.8	18
439	Dissociative electron attachment to NO molecules and NO clusters. *Physical Review A*, **1998**, 57, R697-R700	2.9	18
438	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. *Nuclear Fusion*, **2016**, 56, 106026	3.3	18
437	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. *Nuclear Fusion*, **2016**, 56, 106010	3.3	18
436	Runaway electron beam control. *Plasma Physics and Controlled Fusion*, **2019**, 61, 014036	2	18

435	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. *Plasma Physics and Controlled Fusion*, **2016**, 58, 045011	2	17
434	Experience of handling beryllium, tritium and activated components from JET ITER like wall. *Physica Scripta*, **2016**, T167, 014057	2.6	17
433	Neutronics experiments and analyses in preparation of DT operations at JET. *Fusion Engineering and Design*, **2016**, 109-111, 895-905	1.7	17
432	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. *Plasma Physics and Controlled Fusion*, **2016**, 58, 014026	2	17
431	Modelling of transitions between L- and H-mode in JET high plasma current plasmas and application to ITER scenarios including tungsten behaviour. *Nuclear Fusion*, **2017**, 57, 086023	3.3	17
430	The □neutron deficit□ in the JET tokamak. *Nuclear Fusion*, **2017**, 57, 076029	3.3	17
429	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
428	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
427	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. *Nuclear Fusion*, **2019**, 59, 106017	3.3	16
426	First mirror test in JET for ITER: Complete overview after three ILW campaigns. *Nuclear Materials and Energy*, **2019**, 19, 59-66	2.1	16
425	14 MeV calibration of JET neutron detectors□phase 1: calibration and characterization of the neutron source. *Nuclear Fusion*, **2018**, 58, 026012	3.3	16
424	Integrated modelling of H-mode pedestal and confinement in JET-ILW. *Plasma Physics and Controlled Fusion*, **2018**, 60, 014042	2	16
423	Sawtooth pacing with on-axis ICRH modulation in JET-ILW. *Nuclear Fusion*, **2017**, 57, 036027	3.3	16
422	Axisymmetric oscillations at L□H transitions in JET: M-mode. *Nuclear Fusion*, **2017**, 57, 022021	3.3	16
421	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. *Physica Scripta*, **2017**, T170, 014018	2.6	16
420	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
419	Electron Attachment to Uracil, Thymine and Cytosine. *Physica Scripta*, **2004**, 110, 252	2.6	16
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417	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
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