

Stefan Matejcik

List of Publications by Year in descending order

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603
papers

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citations

41344

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66
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613
all docs

613
docs citations

613
times ranked

5399
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron attachment to the DNA bases thymine and cytosine. <i>Chemical Physics Letters</i> , 2003, 377, 74-80.	2.6	151
2	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , 2017, 57, 102001.	3.5	150
3	Formation of C ₆₀ ⁻ and C ₇₀ ⁻ by free electron capture. Activation energy and effect of the internal energy on lifetime. <i>Chemical Physics Letters</i> , 1994, 226, 213-218.	2.6	117
4	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.	1.3	116
5	High resolution dissociative electron attachment to gas phase adenine. <i>Journal of Chemical Physics</i> , 2006, 125, 084304.	3.0	110
6	Isotope effects on L-H threshold and confinement in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014045.	2.1	98
7	Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET. <i>Nuclear Materials and Energy</i> , 2017, 12, 111-118.	1.3	92
8	Vibrationally Resolved Electron Attachment to Oxygen Clusters. <i>Physical Review Letters</i> , 1996, 77, 3771-3774.	7.8	89
9	Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. <i>Physical Review Letters</i> , 2015, 115, 215002.	7.8	89
10	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. <i>Nuclear Fusion</i> , 2019, 59, 112021.	3.5	87
11	Formation and decay of C ₆₀ ⁻ following free electron capture by C ₆₀ . <i>Journal of Chemical Physics</i> , 1995, 102, 2516-2521.	3.0	85
12	Beryllium migration in JET ITER-like wall plasmas. <i>Nuclear Fusion</i> , 2015, 55, 063021.	3.5	83
13	WEST Physics Basis. <i>Nuclear Fusion</i> , 2015, 55, 063017.	3.5	82
14	Pedestal confinement and stability in JET-ILW ELMy H-modes. <i>Nuclear Fusion</i> , 2015, 55, 113031.	3.5	82
15	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 014036.	2.1	81
16	Improved confinement in JET high-β plasmas with an ITER-like wall. <i>Nuclear Fusion</i> , 2015, 55, 053031.	3.5	79
17	An analysis of mass spectrometric study of negative ions extracted from negative corona discharge in air. <i>International Journal of Mass Spectrometry</i> , 2004, 233, 317-324.	1.5	77
18	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using “fingerprints”. <i>Nuclear Fusion</i> , 2019, 59, 096001.	3.5	76

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19	Dissociative electron attachment to gas phase valine: A combined experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2006, 125, 204301.	3.0	74
20	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. <i>Nature Physics</i> , 2017, 13, 973-978.	16.7	73
21	Experimental study of negative corona discharge in pure carbon dioxide and its mixtures with oxygen. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 64-73.	2.8	72
22	Dissociative electron attachment to gas phase alanine. <i>Chemical Physics Letters</i> , 2005, 403, 107-112.	2.6	72
23	Overview of the JET results with the ITER-like wall. <i>Nuclear Fusion</i> , 2013, 53, 104002.	3.5	70
24	Electron impact ionization of CH ₄ : ionization energies and temperature effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 261-271.	1.5	68
25	WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. <i>Nuclear Fusion</i> , 2015, 55, 053015.	3.5	67
26	The varying influences of gas and electron temperatures on the rates of electron attachment to some selected molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 2941-2957.	1.5	65
27	Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. <i>Physical Review Letters</i> , 2016, 116, 065002.	7.8	64
28	Dissociative electron attachment cross section to CHCl ₃ using a high resolution crossed beams technique. <i>Journal of Chemical Physics</i> , 1997, 107, 8955-8962.	3.0	62
29	Electron attachment to 5-chloro uracil. <i>Journal of Chemical Physics</i> , 2003, 118, 4107-4114.	3.0	62
30	Dual sightline measurements of MeV range deuterons with neutron and gamma-ray spectroscopy at JET. <i>Nuclear Fusion</i> , 2015, 55, 123026.	3.5	60
31	Erosion, screening, and migration of tungsten in the JET divertor. <i>Nuclear Fusion</i> , 2019, 59, 096035.	3.5	60
32	A crossed beam high resolution study of dissociative electron attachment to CCl ₄ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 149-150, 311-319.	1.8	59
33	Runaway electron beam generation and mitigation during disruptions at JET-ILW. <i>Nuclear Fusion</i> , 2015, 55, 093013.	3.5	58
34	Melt damage to the JET ITER-like Wall and divertor. <i>Physica Scripta</i> , 2016, T167, 014070.	2.5	58
35	Erosion and deposition in the JET divertor during the first ILW campaign. <i>Physica Scripta</i> , 2016, T167, 014051.	2.5	58
36	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 124005.	2.1	57

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37	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. Nuclear Fusion, 2018, 58, 034001.	3.5	57
38	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.	3.5	56
39	Influence of the E \times B drift in high recycling divertors on target asymmetries. Plasma Physics and Controlled Fusion, 2015, 57, 095002.	2.1	56
40	Recent progress towards a quantitative description of filamentary SOL transport. Nuclear Fusion, 2017, 57, 056044.	3.5	56
41	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, 9475-9477.	13.8	54
42	Mass spectrometry of atmospheric pressure plasmas. Plasma Sources Science and Technology, 2015, 24, 044008.	3.1	54
43	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. Nuclear Fusion, 2019, 59, 086056.	3.5	53
44	Gas phase low energy electron induced decomposition of the focused electron beam induced deposition (FEBID) precursor trimethyl (methylcyclopentadienyl) platinum(iv) (MeCpPtMe ₃). Physical Chemistry Chemical Physics, 2012, 14, 14611.	2.8	52
45	Long-term fuel retention in JET ITER-like wall. Physica Scripta, 2016, T167, 014075.	2.5	52
46	MeV-range velocity-space tomography from gamma-ray and neutron emission spectrometry measurements at JET. Nuclear Fusion, 2017, 57, 056001.	3.5	52
47	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.	1.9	52
48	Corona Discharge Ion Mobility Spectrometry with Orthogonal Acceleration Time of Flight Mass Spectrometry for Monitoring of Volatile Organic Compounds. Analytical Chemistry, 2012, 84, 5327-5334.	6.5	51
49	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.	3.0	51
50	First dust study in JET with the ITER-like wall: sampling, analysis and classification. Nuclear Fusion, 2015, 55, 113033.	3.5	51
51	Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. Nuclear Fusion, 2016, 56, 026007.	3.5	51
52	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
53	The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. Physics of Plasmas, 2015, 22, 055902.	1.9	49
54	Dissociative electron attachment study to nitromethane. Journal of Chemical Physics, 2002, 117, 7989-7994.	3.0	48

#	ARTICLE	IF	CITATIONS
55	Low energy electron driven reactions in single formic acid molecules (HCOOH) and their homogeneous clusters. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2212.	2.8	48
56	The role of the field emission effect in direct-current argon discharges for the gaps ranging from 1 to 100 Åµm. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 015302.	2.8	47
57	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.	2.1	47
58	Overview of fuel inventory in JET with the ITER-like wall. <i>Nuclear Fusion</i> , 2017, 57, 086045.	3.5	47
59	Overview of the JET ITER-like wall divertor. <i>Nuclear Materials and Energy</i> , 2017, 12, 499-505.	1.3	46
60	Scenario development for Dâ€™T operation at JET. <i>Nuclear Fusion</i> , 2019, 59, 076037.	3.5	46
61	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	45
62	Beryllium melting and erosion on the upper dump plates in JET during three ITER-like wall campaigns. <i>Nuclear Fusion</i> , 2019, 59, 086009.	3.5	45
63	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.	2.1	44
64	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. <i>Nuclear Fusion</i> , 2018, 58, 056002.	3.5	44
65	Dissociative electron attachment to ozone using a high-resolution crossed beams technique. <i>Chemical Physics Letters</i> , 1996, 255, 112-118.	2.6	43
66	Dissociative electron attachment to using a high-resolution crossed-beams technique. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 6217-6225.	1.5	43
67	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.	2.1	43
68	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. <i>Nuclear Fusion</i> , 2019, 59, 076038.	3.5	43
69	Temperature dependencies in dissociative electron attachment to CCl ₄ , CCl ₂ F ₂ , CHCl ₃ and CHBr ₃ . <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 9-19.	1.5	42
70	First neutron spectroscopy measurements with a pixelated diamond detector at JET. <i>Review of Scientific Instruments</i> , 2016, 87, 11D833.	1.3	42
71	Studies of dust from JET with the ITER-Like Wall: Composition and internal structure. <i>Nuclear Materials and Energy</i> , 2017, 12, 582-587.	1.3	41
72	Real-time-capable prediction of temperature and density profiles in a tokamak using RAPTOR and a first-principle-based transport model. <i>Nuclear Fusion</i> , 2018, 58, 096006.	3.5	41

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73	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.	1.5	40
74	The Breakdown Phenomena in Micrometer Scale Direct-Current Gas Discharges. Plasma Chemistry and Plasma Processing, 2014, 34, 55-64.	2.4	40
75	Inferring divertor plasma properties from hydrogen Balmer and Paschen series spectroscopy in JET-ILW. Nuclear Fusion, 2015, 55, 123028.	3.5	40
76	JET and COMPASS asymmetrical disruptions. Nuclear Fusion, 2015, 55, 113006.	3.5	40
77	Dissociative electron attachment and electronic excitation in Fe(CO) ₅ . Physical Chemistry Chemical Physics, 2018, 20, 11692-11701.	2.8	40
78	Integrated modelling of H-mode pedestal and confinement in JET-ILW. Plasma Physics and Controlled Fusion, 2018, 60, 014042.	2.1	40
79	Application of Gaussian process regression to plasma turbulent transport model validation via integrated modelling. Nuclear Fusion, 2019, 59, 056007.	3.5	39
80	Experimental and theoretical studies of the breakdown voltage characteristics at micrometre separations in air. Europhysics Letters, 2011, 95, 35002.	2.0	38
81	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.	3.5	38
82	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.	3.5	38
83	The nucleophilic displacement (SN2) reaction F + CH ₃ Cl → CH ₃ F + Cl ⁻ induced by resonant electron capture in gas phase clusters. Physical Chemistry Chemical Physics, 2000, 2, 1001-1005.	2.8	37
84	Low-energy electron interactions with tungsten hexacarbonyl W(CO) ₆ . Rapid Communications in Mass Spectrometry, 2012, 26, 2093-2098.	1.5	37
85	Physics of Plasmas, 2015, 22, 056115.	1.9	37
86	The role of MHD in causing impurity peaking in JET hybrid plasmas. Nuclear Fusion, 2016, 56, 066002.	3.5	37
87	Multi-machine scaling of the main SOL parallel heat flux width in tokamak limiter plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 074005.	2.1	36
88	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. Nuclear Fusion, 2016, 56, 026001.	3.5	36
89	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. Nuclear Fusion, 2019, 59, 086047.	3.5	36
90	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. Nuclear Fusion, 2019, 59, 106017.	3.5	36

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91	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. Nuclear Materials and Energy, 2019, 18, 331-338.	1.3	36
92	Effects of temperature on the dissociative electron attachment to N ₂ O. Chemical Physics Letters, 1998, 292, 177-182.	2.6	35
93	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.	2.6	35
94	Dissociative electron attachment to SF ₆ : production of SF ₅ ⁻ at temperatures below 300 K. International Journal of Mass Spectrometry and Ion Processes, 1995, 144, L13-L17.	1.8	34
95	Electron attachment to molecules and clusters of atmospheric relevance: oxygen and ozone. Plasma Sources Science and Technology, 1997, 6, 140-146.	3.1	34
96	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.	1.5	34
97	Packed Bed DBD Discharge Experiments in Admixtures of N ₂ and CH ₄ . Plasma Chemistry and Plasma Processing, 2010, 30, 565-577.	2.4	34
98	Experimental and theoretical studies of the direct-current breakdown voltage in argon at micrometer separations. Physica Scripta, 2011, 83, 045503.	2.5	34
99	Electron ionization of W(CO) ₆ : Appearance energies. International Journal of Mass Spectrometry, 2012, 314, 42-48.	1.5	34
100	Deep learning for plasma tomography using the bolometer system at JET. Fusion Engineering and Design, 2017, 114, 18-25.	1.9	34
101	Dynamics and stability of divertor detachment in H-mode plasmas on JET. Plasma Physics and Controlled Fusion, 2017, 59, 095003.	2.1	34
102	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. Nuclear Fusion, 2018, 58, 082005.	3.5	34
103	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.	1.3	34
104	Formation of SF ₅ ⁻ in electron attachment to SF ₆ ; swarm and beam results reconciled. Chemical Physics Letters, 1995, 240, 481-488.	2.6	33
105	Discriminating the trapped electron modes contribution in density fluctuation spectra. Nuclear Fusion, 2015, 55, 093021.	3.5	33
106	Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. Nuclear Fusion, 2015, 55, 123001.	3.5	33
107	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.	2.1	33
108	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. Nuclear Fusion, 2018, 58, 076028.	3.5	33

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109	Current Research into Applications of Tomography for Fusion Diagnostics. <i>Journal of Fusion Energy</i> , 2019, 38, 458-466.	1.2	33
110	Free Electron Attachment and Rydberg Electron Transfer to NF ₃ Molecules and Clusters. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9942-9947.	2.5	32
111	Ion cyclotron resonance heating for tungsten control in various JET H-mode scenarios. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 055001.	2.1	32
112	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.	2.5	31
113	Gamma-ray spectroscopy at MHz counting rates with a compact LaBr ₃ detector and silicon photomultipliers for fusion plasma applications. <i>Review of Scientific Instruments</i> , 2016, 87, 11E714.	1.3	31
114	Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. <i>Nuclear Fusion</i> , 2016, 56, 046009.	3.5	31
115	A First Analysis of JET Plasma Profile-Based Indicators for Disruption Prediction and Avoidance. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2691-2698.	1.3	31
116	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. <i>Nuclear Fusion</i> , 2019, 59, 076028.	3.5	31
117	Study of Atmospheric Pressure Chemical Ionization Mechanism in Corona Discharge Ion Source with and without NH ₃ Dopant by Ion Mobility Spectrometry combined with Mass Spectrometry: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 313-322.	2.5	31
118	Dissociative electron attachment to hexafluoroacetylacetone and its bidentate metal complexes M(hfac) ₂ ; M = Cu, Pd. <i>Journal of Chemical Physics</i> , 2013, 138, 234309.	3.0	30
119	Velocity-space sensitivities of neutron emission spectrometers at the tokamaks JET and ASDEX Upgrade in deuterium plasmas. <i>Review of Scientific Instruments</i> , 2017, 88, 073506.	1.3	30
120	Studies of the pedestal structure and inter-ELM pedestal evolution in JET with the ITER-like wall. <i>Nuclear Fusion</i> , 2017, 57, 116012.	3.5	30
121	Reactions in trifluoroacetic acid (CF ₃ COOH) induced by low energy electron attachment. <i>Chemical Physics Letters</i> , 2006, 419, 228-232.	2.6	29
122	Temporary anion states and dissociative electron attachment to nitrobenzene derivatives. <i>International Journal of Mass Spectrometry</i> , 2007, 264, 22-37.	1.5	29
123	Benchmark experiments on neutron streaming through JET Torus Hall penetrations. <i>Nuclear Fusion</i> , 2015, 55, 053028.	3.5	29
124	Axisymmetric oscillations at Lâ€“H transitions in JET: M-mode. <i>Nuclear Fusion</i> , 2017, 57, 022021.	3.5	29
125	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	29
126	3D non-linear MHD simulation of the MHD response and density increase as a result of shattered pellet injection. <i>Nuclear Fusion</i> , 2018, 58, 126025.	3.5	29

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127	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. Nuclear Fusion, 2018, 58, 106037.	3.5	29
128	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.	1.5	28
129	Plasma confinement at JET. Plasma Physics and Controlled Fusion, 2016, 58, 014034.	2.1	28
130	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.	1.3	28
131	Dissociative electron attachment to CF ₂ Cl ₂ . European Physical Journal D, 1999, 49, 383-392.	0.4	27
132	Electron attachment to chlorouracil: A comparison between 6-ClU and 5-ClU. Journal of Chemical Physics, 2004, 120, 704-709.	3.0	27
133	Reactions in condensed formic acid (HCOOH) induced by low energy (<20 eV) electrons. Physical Chemistry Chemical Physics, 2005, 7, 1277.	2.8	27
134	Resonance Electron Capture by Serine. Journal of Physical Chemistry A, 2010, 114, 1677-1683.	2.5	27
135	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.	2.5	27
136	Gyrokinetic study of turbulent convection of heavy impurities in tokamak plasmas at comparable ion and electron heat fluxes. Nuclear Fusion, 2017, 57, 022009.	3.5	27
137	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.	2.1	27
138	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. Physica Scripta, 2017, T170, 014018.	2.5	27
139	Erosion and deposition in the JET divertor during the second ITER-like wall campaign. Physica Scripta, 2017, T170, 014058.	2.5	27
140	Adaptive learning for disruption prediction in non-stationary conditions. Nuclear Fusion, 2019, 59, 086037.	3.5	27
141	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.	1.1	26
142	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.	1.9	26
143	Experience on divertor fuel retention after two ITER-Like Wall campaigns. Physica Scripta, 2017, T170, 014063.	2.5	26
144	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.	2.1	26

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145	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.	3.5	26
146	Assessment of the baseline scenario at $q \sim 3$ for ITER. Nuclear Fusion, 2018, 58, 126010.	3.5	26
147	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.	2.1	26
148	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. Physics of Plasmas, 2019, 26, .	1.9	26
149	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
150	Low-energy electron attachment to mixed ozone/oxygen clusters. Chemical Physics Letters, 1996, 261, 437-442.	2.6	25
151	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.	1.3	25
152	Electron-induced ionization and dissociative ionization of iron pentacarbonyl molecules. European Physical Journal D, 2015, 69, 1.	1.3	25
153	Acetone and the precursor ligand acetylacetone: distinctly different electron beam induced decomposition?. Physical Chemistry Chemical Physics, 2015, 17, 1204-1216.	2.8	25
154	Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 045011.	2.1	25
155	Plasma impact on diagnostic mirrors in JET. Nuclear Materials and Energy, 2017, 12, 506-512.	1.3	25
156	Recent progress in the quantitative validation of JOREK simulations of ELMs in JET. Nuclear Fusion, 2017, 57, 076006.	3.5	25
157	Fuel inventory and deposition in castellated structures in JET-ILW. Nuclear Fusion, 2017, 57, 066027.	3.5	25
158	Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures. Nuclear Fusion, 2017, 57, 086024.	3.5	25
159	Maximum likelihood bolometric tomography for the determination of the uncertainties in the radiation emission on JET TOKAMAK. Review of Scientific Instruments, 2018, 89, 053504.	1.3	25
160	Material migration and fuel retention studies during the JET carbon divertor campaigns. Fusion Engineering and Design, 2019, 138, 78-108.	1.9	25
161	The \hat{n} neutron deficit™ in the JET tokamak. Nuclear Fusion, 2017, 57, 076029.	3.5	25
162	Electron attachment to oxygen clusters studied with high energy resolution. Journal of Chemical Physics, 1999, 111, 3548-3558.	3.0	24

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163	Specific O ₂ ⁺ generation in corona discharge for ion mobility spectrometry. <i>Talanta</i> , 2011, 85, 400-405.	5.5	24
164	A corona discharge atmospheric pressure chemical ionization source with selective NO ⁺ formation and its application for monoaromatic VOC detection. <i>Analyst</i> , 2013, 138, 6907.	3.5	24
165	Performance of the prototype LaBr ₃ spectrometer developed for the JET gamma-ray camera upgrade. <i>Review of Scientific Instruments</i> , 2016, 87, 11E717.	1.3	24
166	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. <i>Nuclear Fusion</i> , 2016, 56, 106026.	3.5	24
167	Impact of divertor geometry on H-mode confinement in the JET metallic wall. <i>Nuclear Fusion</i> , 2017, 57, 086025.	3.5	24
168	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. <i>Nuclear Materials and Energy</i> , 2019, 18, 239-244.	1.3	24
169	First mirror test in JET for ITER: Complete overview after three ILW campaigns. <i>Nuclear Materials and Energy</i> , 2019, 19, 59-66.	1.3	24
170	Asymmetric toroidal eddy currents (ATEC) to explain sideways forces at JET. <i>Nuclear Fusion</i> , 2016, 56, 106010.	3.5	23
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