Rajinikant Makwana

List of Publications by Year
in descending order

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432	7,764	81434	169272
papers	citations	41 h-index	56 g-index

434	434	434	3429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Systematic study of the (n, 2n) reaction cross section for ¹²¹Sb and ¹²³Sb isotopes. Chinese Physics C, 2022, 46, 054002.	1.5	6
2	Cross-section of (n,2n) reaction for niobium and strontium isotopes between 13.97 to 20.02ÂMeV neutron energies. Applied Radiation and Isotopes, 2022, 182, 110142.	0.7	2
3	Cross-sectionÂmeasurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>114</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml:mi><mml:none /><mml:mrow><mml:mn>115</mml:mn><mml:mi>m</mml:mi></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> reaction for the production of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mmultiscripts><mml:mrow><mml:mi>I</mml:mi><mml:mi>n</mml:mi></mml:mrow><mml:none /><mml:none /><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>115</mml:mn><mml:mi>m</mml:mi></mml:mrow></mml:mmultiscripts></mml:math> by quasi-monoenergetic neutrons within 7.20ÂMeV. Radiation Physics and Chemistry, 2022, 199, 110270.	1.1	4
4	Multi-layered shielding materials for high energy space radiation. Radiation Physics and Chemistry, 2022, 197, 110131.	1.4	14
5	Cross-sections for production of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mmultiscripts><mml:mrow><mml:mi>I</mml:mi><mml:mi>n</mml:mi></mml:mrow><mml:none /><mml:none /><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>115</mml:mn><mml:mi>m</mml:mi></mml:mrow></mml:mmultiscripts></mml:math> by quasi-monoenergetic neutrons within 7.20ÂMeV. Radiation Physics and Chemistry, 2022, 199, 110270.	1.4	3
6	Study of (n, 2n) reaction cross sections for 107Ag within the energy range of 9â€“22ÂMeV. European Physical Journal Plus, 2021, 136, 1.	1.2	1
7	Novel concrete compositions for Î³-rays and neutron shielding using WC and B4C. Results in Materials, 2021, 10, 100177.	0.9	7
8	Measurement of cross sections for flux monitor reactions using quasi-monoenergetic neutrons. European Physical Journal Plus, 2021, 136, 1.	1.2	2
9	Measurement of (n,Âxn) reaction cross sections on ^{113,115}In isotopes using quasi-monoenergetic neutrons within 10â€“20 MeV. European Physical Journal Plus, 2020, 135, 1.	1.2	3
10	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. Plasma Physics and Controlled Fusion, 2019, 61, 014027.	0.9	23
11	Novel method for determination of tritium depth profiles in metallic samples. Nuclear Fusion, 2019, 59, 106006.	1.6	2
12	A power-balance model of the density limit in fusion plasmas: application to the L-mode tokamak. Nuclear Fusion, 2019, 59, 126011.	1.6	15
13	Modification of the AlfvÃ©n wave spectrum by pellet injection. Nuclear Fusion, 2019, 59, 106031.	1.6	3
14	Isotope identity experiments in JET-ILW with H and D L-mode plasmas. Nuclear Fusion, 2019, 59, 076028.	1.6	31
15	Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and implications for ITER. Nuclear Fusion, 2019, 59, 076038.	1.6	43
16	A new mechanism for increasing density peaking in tokamaks: improvement of the inward particle pinch with edge E Ã— B shearing. Plasma Physics and Controlled Fusion, 2019, 61, 104002.	0.9	12
17	Ion cyclotron resonance heating scenarios for DEMO. Nuclear Fusion, 2019, 59, 106051.	1.6	14
18	Erosion, screening, and migration of tungsten in the JET divertor. Nuclear Fusion, 2019, 59, 096035.	1.6	60

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19	Role of fast ion pressure in the isotope effect in JET L-mode plasmas. Nuclear Fusion, 2019, 59, 096030.	1.6	22
20	Direct gyrokinetic comparison of pedestal transport in JET with carbon and ITER-like walls. Nuclear Fusion, 2019, 59, 086056.	1.6	53
21	EDGE2D-EIRENE simulations of the influence of isotope effects and anomalous transport coefficients on near scrape-off layer radial electric field. Plasma Physics and Controlled Fusion, 2019, 61, 075010.	0.9	11
22	First principles and integrated modelling achievements towards trustful fusion power predictions for JET and ITER. Nuclear Fusion, 2019, 59, 086047.	1.6	36
23	Control of the hydrogen:deuterium isotope mixture using pellets in JET. Nuclear Fusion, 2019, 59, 106047.	1.6	6
24	Deep neural networks for plasma tomography with applications to JET and COMPASS. Journal of Instrumentation, 2019, 14, C09011-C09011.	0.5	6
25	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. Journal of Instrumentation, 2019, 14, C09018-C09018.	0.5	0
26	Self-consistent pedestal prediction for JET-ILW in preparation of the DT campaign. Physics of Plasmas, 2019, 26, .	0.7	26
27	Measurement of neutron induced 86Sr(n, 2n)85Sr reaction cross sections at different neutron energies. Applied Radiation and Isotopes, 2019, 154, 108866.	0.7	1
28	Interpretative and predictive modelling of Joint European Torus collisionality scans. Plasma Physics and Controlled Fusion, 2019, 61, 115004.	0.9	4
29	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using â€˜fingerprintsâ€™. Nuclear Fusion, 2019, 59, 096001.	1.6	76
30	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. Nuclear Fusion, 2019, 59, 106017.	1.6	36
31	Recurrence Plots for Dynamic Analysis of Type-I ELMs at JET With a Carbon Wall. IEEE Transactions on Plasma Science, 2019, 47, 1871-1877.	0.6	3
32	Determination of isotope ratio in the divertor of JET-ILW by high-resolution HÎ± spectroscopy: Hâ€“D experiment and implications for Dâ€“T experiment. Nuclear Fusion, 2019, 59, 046011.	1.6	23
33	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. Nuclear Materials and Energy, 2019, 18, 239-244.	0.6	24
34	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. Fusion Engineering and Design, 2019, 138, 254-266.	1.0	8
35	The software and hardware architecture of the real-time protection of in-vessel components in JET-ILW. Nuclear Fusion, 2019, 59, 076016.	1.6	9
36	Impact of fast ions on density peaking in JET: fluid and gyrokinetic modeling. Plasma Physics and Controlled Fusion, 2019, 61, 075008.	0.9	3

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37	Geodesic acoustic mode evolution in L-mode approaching the Lâ€“H transition on JET. Plasma Physics and Controlled Fusion, 2019, 61, 075007.	0.9	6
38	Multiphysics approach to plasma neutron source modelling at the JET tokamak. Nuclear Fusion, 2019, 59, 096020.	1.6	12
39	Dynamic modelling of local fuel inventory and desorption in the whole tokamak vacuum vessel for auto-consistent plasma-wall interaction simulations. Nuclear Materials and Energy, 2019, 19, 550-557.	0.6	12
40	Energetic ion losses â€˜channelingâ€™ mechanism and strategy for mitigation. Plasma Physics and Controlled Fusion, 2019, 61, 084008.	0.9	1
41	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. Nuclear Materials and Energy, 2019, 18, 331-338.	0.6	36
42	Scenario development for Dâ€“T operation at JET. Nuclear Fusion, 2019, 59, 076037.	1.6	46
43	Diagnostic of fast-ion energy spectra and densities in magnetized plasmas. Journal of Instrumentation, 2019, 14, C05019-C05019.	0.5	12
44	Modelling of the effect of ELMs on fuel retention at the bulk W divertor of JET. Nuclear Materials and Energy, 2019, 19, 397-402.	0.6	7
45	Simulation of neutron emission in neutral beam injection heated plasmas with the real-time code RABBIT. Nuclear Fusion, 2019, 59, 086002.	1.6	8
46	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	1.6	87
47	Comparison of the structure of the plasma-facing surface and tritium accumulation in beryllium tiles from JET ILW campaigns 2011â€“2012 and 2013â€“2014. Nuclear Materials and Energy, 2019, 19, 131-136.	0.6	7
48	RF sheath modeling of experimentally observed plasma surface interactions with the JET ITER-Like Antenna. Nuclear Materials and Energy, 2019, 19, 324-329.	0.6	5
49	An assessment of nitrogen concentrations from spectroscopic measurements in the JET and ASDEX upgrade divertor. Nuclear Materials and Energy, 2019, 18, 147-152.	0.6	8
50	Beryllium melting and erosion on the upper dump plates in JET during three ITER-like wall campaigns. Nuclear Fusion, 2019, 59, 086009.	1.6	45
51	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET-ILW and PISCES-B experience. Nuclear Materials and Energy, 2019, 19, 510-515.	0.6	15
52	On a fusion born triton effect in JET deuterium discharges with H-minority ion cyclotron range of frequencies heating. Nuclear Fusion, 2019, 59, 064001.	1.6	4
53	COREDIV numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to JET-ILW DT experiments. Nuclear Fusion, 2019, 59, 056026.	1.6	4
54	The effect of beryllium oxide on retention in JET ITER-like wall tiles. Nuclear Materials and Energy, 2019, 19, 346-351.	0.6	15

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55	n function of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mmultiscripts><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mi>n</mml:mi><mml:mi>a</mml:mi><mml:mi>t</mml:mi></mml:mrow></mml:mmultiscripts><mml:mi>i</mml:m		

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73	Material migration and fuel retention studies during the JET carbon divertor campaigns. Fusion Engineering and Design, 2019, 138, 78-108.	1.0	25
74	Determination of tungsten sources in the JET-ILW divertor by spectroscopic imaging in the presence of a strong plasma continuum. Nuclear Materials and Energy, 2019, 18, 118-124.	0.6	16
75	Improved neutron activation dosimetry for fusion. Fusion Engineering and Design, 2019, 139, 109-114.	1.0	7
76	Measurement of 232Th and 238U neutron capture cross-sections in the energy range 5â€“17â€¯MeV. Applied Radiation and Isotopes, 2019, 143, 72-78.	0.7	6
77	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. Nuclear Fusion, 2019, 59, 016004.	1.6	9
78	Current Research into Applications of Tomography for Fusion Diagnostics. Journal of Fusion Energy, 2019, 38, 458-466.	0.5	33
79	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	0.9	26
80	Testing of tritium breeder blanket activation foil spectrometer during JET operations. Fusion Engineering and Design, 2018, 136, 258-264.	1.0	7
81	Adaptive predictors based on probabilistic SVM for real time disruption mitigation on JET. Nuclear Fusion, 2018, 58, 056002.	1.6	44
82	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. Nuclear Fusion, 2018, 58, 082005.	1.6	34
83	Characterisation of neutron generators and monitoring detectors for the in-vessel calibration of JET. Fusion Engineering and Design, 2018, 136, 233-238.	1.0	5
84	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. Nuclear Fusion, 2018, 58, 026019.	1.6	20
85	Sub-millisecond electron density profile measurement at the JET tokamak with the fast lithium beam emission spectroscopy system. Review of Scientific Instruments, 2018, 89, 043509.	0.6	14
86	Non-Maxwellian fast particle effects in gyrokinetic GENE simulations. Physics of Plasmas, 2018, 25, .	0.7	29
87	On the potential of ruled-based machine learning for disruption prediction on JET. Fusion Engineering and Design, 2018, 130, 62-68.	1.0	10
88	MHD spectroscopy of JET plasmas with pellets via AlfvÃ©n eigenmodes. Nuclear Fusion, 2018, 58, 082008.	1.6	7
89	Evidence of9Beâ€‰â€‰+â€‰â€‰pnuclear reactions during 2Ï‰CHand hydrogen minority ICRH in JET-ILW hydrogen and deuterium plasmas. Nuclear Fusion, 2018, 58, 026033.	1.6	3
90	TAE stability calculations compared to TAE antenna results in JET. Nuclear Fusion, 2018, 58, 082007.	1.6	11

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91	Divertor currents optimization procedure for JET-ILW high flux expansion experiments. Fusion Engineering and Design, 2018, 129, 115-119.	1.0	1
92	A multi-machine scaling of halo current rotation. Nuclear Fusion, 2018, 58, 016050.	1.6	18
93	Plasma-wall interaction on the divertor tiles of JET ITER-like wall from the viewpoint of micro/nanoscopic observations. Fusion Engineering and Design, 2018, 136, 199-204.	1.0	5
94	High fusion performance at highT_i/T_ein JET-ILW baseline plasmas with high NBI heating power and low gas puffing. Nuclear Fusion, 2018, 58, 036020.	1.6	23
95	Full-Pulse Tomographic Reconstruction with Deep Neural Networks. Fusion Science and Technology, 2018, 74, 47-56.	0.6	22
96	Correlation of the tokamak H-mode density limit with ballooning stability at the separatrix. Nuclear Fusion, 2018, 58, 034001.	1.6	57
97	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuteriumâ€“tritium fusion plasma diagnostics. Measurement Science and Technology, 2018, 29, 045502.	1.4	35
98	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. Nuclear Fusion, 2018, 58, 016023.	1.6	17
99	Light impurity transport in JET ILW L-mode plasmas. Nuclear Fusion, 2018, 58, 036009.	1.6	13
100	14 MeV calibration of JET neutron detectorsâ€”phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	1.6	22
101	Estimation of (n, p) and (n, Î±) Cross Section of Radionuclide ⁶⁰Co for Fusion Technology Applications. Fusion Science and Technology, 2018, 73, 545-551.	0.6	0
102	ERO modeling and sensitivity analysis of locally enhanced beryllium erosion by magnetically connected antennas. Nuclear Fusion, 2018, 58, 016046.	1.6	9
103	Investigation of (n, p), (n, 2n) reaction cross sections for Sn isotopes for fusion reactor applications. Applied Radiation and Isotopes, 2018, 133, 31-37.	0.7	6
104	High-resolution tungsten spectroscopy relevant to the diagnostic of high-temperature tokamak plasmas. Physical Review A, 2018, 97, .	1.0	17
105	Bayesian Integrated Data Analysis of Fast-Ion Measurements by Velocity-Space Tomography. Fusion Science and Technology, 2018, 74, 23-36.	0.6	15
106	Modelling of the neutron production in a mixed beam DT neutron generator. Fusion Engineering and Design, 2018, 136, 1089-1093.	1.0	9
107	Analysis of possible improvement of the plasma performance in JET due to the inward spatial channelling of fast-ion energy. Nuclear Fusion, 2018, 58, 076012.	1.6	8
108	Control and data acquisition software upgrade for JET gamma-ray diagnostics. Fusion Engineering and Design, 2018, 128, 117-121.	1.0	4

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109	Isotope effects on L-H threshold and confinement in tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014045.	0.9	98
110	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.	1.6	38
111	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. Physics of Plasmas, 2018, 25, .	0.7	14
112	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.	1.0	52
113	ICRH antennaS-matrix measurements and plasma coupling characterisation at JET. Nuclear Fusion, 2018, 58, 046012.	1.6	5
114	First observation of the depolarization of Thomson scattering radiation by a fusion plasma. Nuclear Fusion, 2018, 58, 044003.	1.6	0
115	Escaping alpha-particle monitor for burning plasmas. Nuclear Fusion, 2018, 58, 082009.	1.6	3
116	Nonlinear dynamic analysis of DÎ±signals for type I edge localized modes characterization on JET with a carbon wall. Plasma Physics and Controlled Fusion, 2018, 60, 025010.	0.9	3
117	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.	1.6	26
118	Analysis of ELM stability with extended MHD models in JET, JT-60U and future JT-60SA tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014032.	0.9	17
119	Pedestal evolution physics in low triangularity JET tokamak discharges with ITER-like wall. Nuclear Fusion, 2018, 58, 016021.	1.6	14
120	Equilibrium reconstruction in an iron core tokamak using a deterministic magnetisation model. Computer Physics Communications, 2018, 223, 1-17.	3.0	12
121	On the universality of power laws for tokamak plasma predictions. Plasma Physics and Controlled Fusion, 2018, 60, 025028.	0.9	8
122	Comparison of runaway electron generation parameters in small, medium-sized and large tokamaksâ€"A survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET. Nuclear Fusion, 2018, 58, 016014.	1.6	12
123	Identification of BeO and BeOxDy in melted zones of the JET Be limiter tiles: Raman study using comparison with laboratory samples. Nuclear Materials and Energy, 2018, 17, 295-301.	0.6	20
124	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.	1.6	38
125	On the Use of Transfer Entropy to Investigate the Time Horizon of Causal Influences between Signals. Entropy, 2018, 20, 627.	1.1	14
126	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. Nuclear Fusion, 2018, 58, 106034.	1.6	6

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127	Tritium retention characteristics in dust particles in JET with ITER-like wall. Nuclear Materials and Energy, 2018, 17, 279-283.	0.6	20
128	Shutdown dose rate measurements after the 2016 Deuterium-Deuterium campaign at JET. Fusion Engineering and Design, 2018, 136, 1348-1353.	1.0	5
129	Application of the VUV and the soft x-ray systems on JET for the study of intrinsic impurity behavior in neon seeded hybrid discharges. Review of Scientific Instruments, 2018, 89, 10D131.	0.6	4
130	3D non-linear MHD simulation of the MHD response and density increase as a result of shattered pellet injection. Nuclear Fusion, 2018, 58, 126025.	1.6	29
131	Application of the Denovo Discrete Ordinates Radiation Transport Code to Large-Scale Fusion Neutronics. Fusion Science and Technology, 2018, 74, 303-314.	0.6	5
132	JET diagnostic enhancements testing and commissioning in preparation for DT scientific campaigns. Review of Scientific Instruments, 2018, 89, 10K119.	0.6	7
133	Dependence of the turbulent particle flux on hydrogen isotopes induced by collisionality. Physics of Plasmas, 2018, 25, 082517.	0.7	16
134	On the role of finite grid extent in SOLPS-ITER edge plasma simulations for JET H-mode discharges with metallic wall. Nuclear Materials and Energy, 2018, 17, 174-181.	0.6	8
135	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. Nuclear Fusion, 2018, 58, 026028.	1.6	17
136	Assessment of the baseline scenario atq₉₅~ 3 for ITER. Nuclear Fusion, 2018, 58, 126010.	1.6	26
137	Heat flux analysis of Type-I ELM impact on a sloped, protruding surface in the JET bulk tungsten divertor. Nuclear Materials and Energy, 2018, 17, 182-187.	0.6	3
138	Determination of 2D poloidal maps of the intrinsic W density for transport studies in JET-ILW. Review of Scientific Instruments, 2018, 89, 113501.	0.6	13
139	Neutron emission spectroscopy of D plasmas at JET with a compact liquid scintillating neutron spectrometer. Review of Scientific Instruments, 2018, 89, 10I113.	0.6	8
140	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.	1.6	41
141	The upgraded JET gamma-ray cameras based on high resolution/high count rate compact spectrometers. Review of Scientific Instruments, 2018, 89, 10I116.	0.6	21
142	OVERVIEW OF NEUTRON MEASUREMENTS IN JET FUSION DEVICE. Radiation Protection Dosimetry, 2018, 180, 102-108.	0.4	3
143	Instrumentation for the upgrade to the JET core charge-exchange spectrometers. Review of Scientific Instruments, 2018, 89, 10D113.	0.6	23
144	Propagating transport-code input parameter uncertainties with deterministic sampling. Plasma Physics and Controlled Fusion, 2018, 60, 125010.	0.9	0

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145	Synthetic spectra of BeH, BeD and BeT for emission modeling in JET plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 185701.	0.6	17
146	Assessment of the strength of kinetic effects of parallel electron transport in the SOL and divertor of JET high radiative H-mode plasmas using EDGE2D-EIRENE and KIPP codes. Plasma Physics and Controlled Fusion, 2018, 60, 115011.	0.9	12
147	Development of a new compact gamma-ray spectrometer optimised for runaway electron measurements. Review of Scientific Instruments, 2018, 89, 10I134.	0.6	12
148	First principles of modelling the stabilization of microturbulence by fast ions. Nuclear Fusion, 2018, 58, 082024.	1.6	22
149	Inter-ELM evolution of the edge current density in JET-ILW type I ELMy H-mode plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 085003.	0.9	4
150	Impact of electron-scale turbulence and multi-scale interactions in the JET tokamak. Nuclear Fusion, 2018, 58, 124003.	1.6	23
151	Excitation function of the p+natAg reactions in the energy range 10â€“22 MeV. Nuclear Physics A, 2018, 979, 102-112.	0.6	3
152	Equilibrium reconstruction at JET using Stokes model for polarimetry. Nuclear Fusion, 2018, 58, 106032.	1.6	20
153	Generation of a plasma neutron source for Monte Carlo neutron transport calculations in the tokamak JET. Fusion Engineering and Design, 2018, 136, 1047-1051.	1.0	9
154	Shutdown dose rate neutronics experiment during high performances DD operations at JET. Fusion Engineering and Design, 2018, 136, 1545-1549.	1.0	5
155	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. Nuclear Fusion, 2018, 58, 076022.	1.6	20
156	Analysis of plasma termination in the JET hybrid scenario. Nuclear Fusion, 2018, 58, 076027.	1.6	9
157	Maximum likelihood bolometric tomography for the determination of the uncertainties in the radiation emission on JET TOKAMAK. Review of Scientific Instruments, 2018, 89, 053504.	0.6	25
158	Activation material selection for multiple foil activation detectors in JET TT campaign. Fusion Engineering and Design, 2018, 136, 988-992.	1.0	3
159	Preparation for commissioning of materials detritiation facility at Culham Science Centre. Fusion Engineering and Design, 2018, 136, 1391-1395.	1.0	5
160	Fast H isotope and impurity mixing in ion-temperature-gradient turbulence. Nuclear Fusion, 2018, 58, 076028.	1.6	33
161	Measurement of ¹⁰⁰Mo(n, 2n)⁹⁹Mo reaction cross- sections using 10-20 MeV quasi-monoenergetic neutrons. , 2018, , .		1
162	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.	0.9	26

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163	Neutral pathways and heat flux widths in vertical- and horizontal-target EDGE2D-EIRENE simulations of JET. Nuclear Fusion, 2018, 58, 096029.	1.6	19
164	Molecular ND Band Spectroscopy in the Divertor Region of Nitrogen Seeded JET Discharges. Journal of Physics: Conference Series, 2018, 959, 012009.	0.3	7
165	Neutron induced reaction cross-section for the plasma facing fusion reactor material - Tungsten isotopes. , 2018, , .		1
166	Measurement of Th232(n,Î³) reaction cross sections in the neutron energy range of 11â€“19 MeV. Physical Review C, 2018, 98, .	1.1	5
167	Activation Inventories after Exposure to DD/DT Neutrons in Safety Analysis of Nuclear Fusion Installations. Radiation Protection Dosimetry, 2018, 180, 125-128.	0.4	1
168	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. Nuclear Fusion, 2018, 58, 095003.	1.6	16
169	TLD calibration for neutron fluence measurements at JET fusion facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 202-213.	0.7	7
170	Excitation functions of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">Nb</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>93</mml:mn></mml:mrow></mml:mmultiscripts></mml:math> reaction in the energy range 10â€“22 MeV. Nuclear Physics A, 2018, 978, 160-172.	0.6	10
171	Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. Nuclear Fusion, 2018, 58, 096013.	1.6	17
172	A First Analysis of JET Plasma Profile-Based Indicators for Disruption Prediction and Avoidance. IEEE Transactions on Plasma Science, 2018, 46, 2691-2698.	0.6	31
173	Correlation of surface chemical states with hydrogen isotope retention in divertor tiles of JET with ITER-Like Wall. Fusion Engineering and Design, 2018, 132, 24-28.	1.0	15
174	Integrated modelling of H-mode pedestal and confinement in JET-ILW. Plasma Physics and Controlled Fusion, 2018, 60, 014042.	0.9	40
175	14 MeV calibration of JET neutron detectorsâ€”phase 2: in-vessel calibration. Nuclear Fusion, 2018, 58, 106016.	1.6	20
176	Real-time protection of the JET ITER-like wall based on near infrared imaging diagnostic systems. Nuclear Fusion, 2018, 58, 106021.	1.6	14
177	Electron acceleration in a JET disruption simulation. Nuclear Fusion, 2018, 58, 106022.	1.6	21
178	Neutron capture cross-sections for 159Tb isotope in the energy range of 5 to 17â€¯MeV. Applied Radiation and Isotopes, 2018, 141, 10-14.	0.7	1
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