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List of Publications by Year
in descending order

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216	6,125	57631	118652
papers	citations	44 h-index	62 g-index

216	216	216	2128
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Confinement and profile changes induced by the presence of positive or negative radial electric fields in the edge of the TEXTOR tokamak. Nuclear Fusion, 1992, 32, 837-853.	1.6	197
2	Overview of the results on divertor heat loads in RMP controlled H-mode plasmas on DIII-D. Nuclear Fusion, 2009, 49, 095013.	1.6	136
3	Radiative edges under control by impurity fluxes. Plasma Physics and Controlled Fusion, 1993, 35, B167-B175.	0.9	131
4	High Confinement and High Density with Stationary Plasma Energy and Strong Edge Radiation in the TEXTOR-94 Tokamak. Physical Review Letters, 1996, 77, 2487-2490.	2.9	114
5	Diagnostic mirrors for ITER: A material choice and the impact of erosion and deposition on their performance. Journal of Nuclear Materials, 2007, 363-365, 1395-1402.	1.3	94
6	Change of the Magnetic-Field Topology by an Ergodic Divertor and the Effect on the Plasma Structure and Transport. Physical Review Letters, 2006, 96, 035004.	2.9	91
7	Improved plasma performance in TEXTOR with silicon coated surfaces. Physical Review Letters, 1993, 71, 1549-1552.	2.9	90
8	Aspects of three dimensional transport for ELM control experiments in ITER-similar shape plasmas at low collisionality in DIII-D. Plasma Physics and Controlled Fusion, 2008, 50, 124029.	0.9	89
9	Characterization of the deuterium recycling flux in front of a graphite surface in the TEXTOR tokamak. Plasma Physics and Controlled Fusion, 2005, 47, 615-634.	0.9	87
10	Identification and analysis of transport domains in the stochastic boundary of TEXTOR-DED for different mode spectra. Nuclear Fusion, 2008, 48, 024009.	1.6	80
11	Status of electron temperature and density measurement with beam emission spectroscopy on thermal helium at TEXTOR. Plasma Physics and Controlled Fusion, 2008, 50, 115004.	0.9	79
12	Plasma edge physics with siliconization in TEXTOR. Journal of Nuclear Materials, 1995, 220-222, 25-35.	1.3	76
13	Impact of the ITER-like wall on divertor detachment and on the density limit in the JET tokamak. Journal of Nuclear Materials, 2013, 438, S139-S147.	1.3	76
14	Toroidal Plasma Rotation Induced by the Dynamic Ergodic Divertor in the TEXTOR Tokamak. Physical Review Letters, 2005, 94, 015003.	2.9	73
15	Molybdenum test limiter experiments in TEXTOR. Nuclear Fusion, 1994, 34, 1417-1429.	1.6	69
16	Overview of radiative improved mode results on TEXTOR-94. Nuclear Fusion, 1999, 39, 1637-1648.	1.6	69
17	Plasma edge physics in the textor tokamak with poloidal and toroidal limiters. Journal of Nuclear Materials, 1989, 162-164, 24-37.	1.3	66
18	Improved confinement with edge radiative cooling at high densities and high heating power in TEXTOR. Nuclear Fusion, 1994, 34, 825-836.	1.6	66

#	Article	IF	Citations
19	Construction of the plasma-wall experiment Magnum-PSI. Fusion Engineering and Design, 2010, 85, 1455-1459.	1.0	64
20	Development of laser-based diagnostics for surface characterisation of wall components in fusion devices. Fusion Engineering and Design, 2011, 86, 1336-1340.	1.0	64
21	Limiter Lock Systems at TEXTOR: Flexible Tools for Plasma-Wall Investigation. Fusion Science and Technology, 2005, 47, 138-145.	0.6	62
22	Measurement and monte carlo computations of HÎ± profiles in front of a TEXTOR limiter. Journal of Nuclear Materials, 1992, 196-198, 1059-1064.	1.3	61
23	Effect of the dynamic ergodic divertor in the TEXTOR tokamak on MHD stability, plasma rotation and transport. Nuclear Fusion, 2005, 45, 1700-1707.	1.6	58
24	Resonant Pedestal Pressure Reduction Induced by a Thermal Transport Enhancement due to Stochastic Magnetic Boundary Layers in High Temperature Plasmas. Physical Review Letters, 2009, 103, 165005.	2.9	58
25	Density limits in TEXTOR-94 auxiliary heated discharges. Nuclear Fusion, 1999, 39, 765-776.	1.6	56
26	Modelling of carbon transport in fusion devices: evidence of enhanced re-erosion of in-situ re-deposited carbon. Journal of Nuclear Materials, 2004, 328, 62-66.	1.3	56
27	Modelling of tritium retention and target lifetime of the ITER divertor using the ERO code. Journal of Nuclear Materials, 2007, 363-365, 91-95.	1.3	56
28	Hydrocarbon injection for quantification of chemical erosion yields in tokamaks. Journal of Nuclear Materials, 2007, 363-365, 1119-1128.	1.3	56
29	Analysis of tungsten melt-layer motion and splashing under tokamak conditions at TEXTOR. Nuclear Fusion, 2011, 51, 083008.	1.6	56
30	Plasma edge research on TEXTOR. Plasma Physics and Controlled Fusion, 1987, 29, 1321-1332.	0.9	55
31	High confinement and high density with stationary plasma energy and strong edge radiation cooling in the upgraded Torus Experiment for Technology Oriented Research (TEXTOR-94). Physics of Plasmas, 1997, 4, 1690-1698.	0.7	54
32	Tungsten melt layer motion and splashing on castellated tungsten surfaces at the tokamak TEXTOR. Journal of Nuclear Materials, 2011, 415, S78-S82.	1.3	53
33	Evidence of hot spot formation on carbon limiters due to thermal electron emission. Nuclear Fusion, 1993, 33, 953-961.	1.6	52
34	Recent progress toward high performance above the Greenwald density limit in impurity seeded discharges in limiter and divertor tokamaks. Physics of Plasmas, 2001, 8, 2188-2198.	0.7	52
35	Transport studies of high-Zelements in neon edge radiation cooled discharges in TEXTOR-94. Plasma Physics and Controlled Fusion, 1997, 39, 1615-1634.	0.9	51
36	Scaling radiative plasmas to ITER. Journal of Nuclear Materials, 1997, 241-243, 450-455.	1.3	51

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37	Overview of experiments with radiation cooling at high confinement and high density in limited and diverted discharges. Plasma Physics and Controlled Fusion, 1999, 41, A379-A399.	0.9	51
38	Experience with bulk tungsten test-limiters under high heat loads: melting and melt layer propagation. Physica Scripta, 2007, T128, 81-86.	1.2	51
39	Development of a mirror-based endoscope for divertor spectroscopy on JET with the new ITER-like wall (invited). Review of Scientific Instruments, 2012, 83, 10D511.	0.6	49
40	Comparison of tokamak behaviour with tungsten and low-Zplasma facing materials. Plasma Physics and Controlled Fusion, 2000, 42, B293-B310.	0.9	48
41	Investigations of single crystal and polycrystalline metal mirrors under erosion conditions in TEXTOR. Fusion Engineering and Design, 2007, 82, 123-132.	1.0	48
42	Effect of surface roughness and substrate material on carbon erosion and deposition in the TEXTOR tokamak. Plasma Physics and Controlled Fusion, 2008, 50, 095008.	0.9	47
43	Localized recycling as a trigger of MARFE. Journal of Nuclear Materials, 1999, 266-269, 958-962.	1.3	46
44	Particle confinement control with resonant magnetic perturbations at TEXTOR. Journal of Nuclear Materials, 2009, 390-391, 330-334.	1.3	46
45	First results from TEXTOR. Plasma Physics and Controlled Fusion, 1984, 26, 23-35.	0.9	42
46	Influence of impurity radiation losses on plasma edge properties in TEXTOR. Journal of Nuclear Materials, 1990, 176-177, 273-277.	1.3	42
47	Nature of high-Z impurity accumulation in tokamaks. Nuclear Fusion, 1997, 37, 1691-1708.	1.6	41
48	PSI research in the ITER divertor parameter range at the FOM PSI-lab. Physica Scripta, 2007, T128, 18-22.	1.2	41
49	Effect of antenna phasing and wall conditioning on ICRH in TEXTOR. Plasma Physics and Controlled Fusion, 1989, 31, 921-939.	0.9	39
50	Results from a double Li-beam technique for measurement of both radial and poloidal components of electron density fluctuations using two thermal beams. Plasma Physics and Controlled Fusion, 2005, 47, 409-440.	0.9	39
51	Impact of stochastic magnetic fields on plasma rotation and radial electric fields in the plasma edge of the tokamak TEXTOR. Journal of Nuclear Materials, 2007, 363-365, 698-702.	1.3	39
52	Impurity sources in TEXTOR. Journal of Nuclear Materials, 1987, 145-147, 574-579.	1.3	38
53	Erosion of a tungsten limiter under high heat flux in TEXTOR. Journal of Nuclear Materials, 2007, 363-365, 96-100.	1.3	38
54	Plasmaâ€“surface interaction in the context of ITER. Physical Chemistry Chemical Physics, 2006, 8, 1761-1774.	1.3	37

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55	Influence of the dynamic ergodic divertor on transport properties in TEXTOR. Nuclear Fusion, 2007, 47, 522-534.	1.6	37
56	First tests of diagnostic mirrors in a tokamak divertor: An overview of experiments in DIII-D. Fusion Engineering and Design, 2008, 83, 79-89.	1.0	37
57	On the measurement of molecular particle fluxes in fusion boundary plasmas. Journal of Nuclear Materials, 2003, 313-316, 967-971.	1.3	36
58	New linear plasma devices in the trilateral euregio cluster for an integrated approach to plasma surface interactions in fusion reactors. Fusion Engineering and Design, 2011, 86, 1797-1800.	1.0	36
59	Properties of the TEXTOR boundary layer. Journal of Nuclear Materials, 1984, 128-129, 157-162.	1.3	35
60	Invited paper: ICRF/Edge physics research on textor. Fusion Engineering and Design, 1990, 12, 149-170.	1.0	35
61	Hydrogen release from plasma-facing components into fusion plasmas - recent results from a spectroscopic approach. Plasma Physics and Controlled Fusion, 2001, 43, A349-A373.	0.9	35
62	Plasma-wall interaction and plasma performance in textor â€" A review. Journal of Nuclear Materials, 1987, 145-147, 3-14.	1.3	34
63	The dynamic ergodic divertor in the TEXTOR tokamak: plasma response to dynamic helical magnetic field perturbations. Plasma Physics and Controlled Fusion, 2004, 46, B143-B155.	0.9	34
64	Three-dimensional modeling of plasma edge transport and divertor fluxes during application of resonant magnetic perturbations on ITER. Nuclear Fusion, 2016, 56, 066008.	1.6	34
65	Transport and improved confinement in high power edge radiation cooling experiments on TEXTOR. Nuclear Fusion, 1996, 36, 39-53.	1.6	33
66	Laser techniques implementation for wall surface characterization and conditioning. Physica Scripta, 2009, T138, 014008.	1.2	33
67	Ion cyclotron resonance heating on TEXTOR. Plasma Physics and Controlled Fusion, 1986, 28, 71-83.	0.9	32
68	Transport and divertor properties of the dynamic ergodic divertor. Plasma Physics and Controlled Fusion, 2005, 47, B237-B248.	0.9	32
69	Investigations of castellated structures for ITER: The effect of castellation shaping and alignment on fuel retention and impurity deposition in gaps. Journal of Nuclear Materials, 2009, 390-391, 556-559.	1.3	32
70	In situ characterisation of hydrocarbon layers in TEXTOR by laser induced ablation and laser induced breakdown spectroscopy. Journal of Nuclear Materials, 2011, 415, S1195-S1198.	1.3	32
71	Observations of low frequency density fluctuations in a tokamak edge plasma. Nuclear Fusion, 1988, 28, 1460-1465.	1.6	31
72	Removal of carbon layers by oxygen glow discharges in TEXTOR. Journal of Nuclear Materials, 2007, 363-365, 929-932.	1.3	31

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73	Modelling of13CH4injection experiments with graphite and tungsten test limiters in TEXTOR using the coupled code ERO-SDTrimSP. Plasma Physics and Controlled Fusion, 2008, 50, 015006.	0.9	31
74	Study of the feasibility of applying laser-induced breakdown spectroscopy forin-situcharacterization of deposited layers in fusion devices. Physica Scripta, 2011, T145, 014028.	1.2	31
75	Quantification of tungsten sputtering at W/C twin limiters in TEXTOR with the aid of local WF6injection. Physica Scripta, 2011, T145, 014016.	1.2	30
76	Rotation and radial electric field in the plasma edge with resonant magnetic perturbation at TEXTOR. Nuclear Fusion, 2011, 51, 063030.	1.6	30
77	Helium exhaust in plasmas with strong radiative edge cooling. Journal of Nuclear Materials, 1992, 196-198, 633-636.	1.3	29
78	Investigation of carbon transport by13CH4injection through graphite and tungsten test limiters in TEXTOR. Plasma Physics and Controlled Fusion, 2006, 48, 1401-1412.	0.9	29
79	Effects of impurities released from high Z test limiter on plasma performance in TEXTOR. Journal of Nuclear Materials, 1995, 220-222, 240-243.	1.3	28
80	MARFE feedback experiments on TEXTOR-94. Journal of Nuclear Materials, 1999, 266-269, 666-672.	1.3	28
81	A bulk tungsten divertor row for the outer strike point in JET. Fusion Engineering and Design, 2009, 84, 1289-1293.	1.0	28
82	Development of in situ cleaning techniques for diagnostic mirrors in ITER. Fusion Engineering and Design, 2011, 86, 1780-1783.	1.0	28
83	The influence of impurities on limiter tokamak plasmas and relevant mechanisms. Plasma Physics and Controlled Fusion, 1995, 37, A241-A253.	0.9	27
84	The influence of plasma-edge properties on high confinement discharges with a radiating plasma mantle at the tokamak TEXTOR-94. Plasma Physics and Controlled Fusion, 1997, 39, B189-B206.	0.9	27
85	Resonant features of energy and particle transport during application of resonant magnetic perturbation fields at TEXTOR and DIII-D. Nuclear Fusion, 2012, 52, 043005.	1.6	27
86	Properties, control and ICR-heating of the plasma in TEXTOR. Plasma Physics and Controlled Fusion, 1986, 28, 1413-1428.	0.9	26
87	Improved confinement in TEXTOR. Nuclear Fusion, 1993, 33, 283-300.	1.6	26
88	The influence of three-dimensional stochastic magnetic boundaries on plasma edge transport and the resulting plasma wall interaction. Journal of Nuclear Materials, 2011, 415, S886-S893.	1.3	26
89	First studies of ITER-diagnostic mirrors in a tokamak with an all-metal interior: results of the first mirror test in ASDEX Upgrade. Nuclear Fusion, 2013, 53, 073033.	1.6	26
90	First results from the dynamic ergodic divertor at TEXTOR. Journal of Nuclear Materials, 2005, 337-339, 171-175.	1.3	25

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91	Study of local carbon transport on graphite, tungsten and molybdenum test limiters in TEXTOR by 13CH4 tracer injection. Journal of Nuclear Materials, 2007, 363-365, 179-183.	1.3	25
92	Carbon transport, deposition and fuel accumulation in castellated structures exposed in TEXTOR. Journal of Nuclear Materials, 2007, 367-370, 1481-1486.	1.3	25
93	Deposition and re-erosion studies by means of local impurity injection in TEXTOR. Journal of Nuclear Materials, 2011, 415, S239-S245.	1.3	25
94	Modeling of divertor particle and heat loads during application of resonant magnetic perturbation fields for ELM control in ITER. Journal of Nuclear Materials, 2013, 438, S194-S198.	1.3	25
95	Influence of boronization on the plasma performance in TEXTOR. Plasma Physics and Controlled Fusion, 1989, 31, 185-192.	0.9	24
96	A study of impurity transport in the plasma boundary of TEXTOR using gas puffing. Journal of Nuclear Materials, 1990, 176-177, 191-196.	1.3	24
97	Fractal dimensionality for different transport modes in the turbulent boundary plasma of TEXTOR. Plasma Physics and Controlled Fusion, 1993, 35, 429-437.	0.9	24
98	Investigation of self-organized criticality behavior of edge plasma transport in Torus experiment of technology oriented research. Physics of Plasmas, 2004, 11, 5413-5422.	0.7	24
99	Results and modelling of high power edge radiation cooling in Textor. Physica Scripta, 1995, 52, 449-457.	1.2	23
100	Progress in plasma-wall-interaction research - contributions from TEXTOR-94. Plasma Physics and Controlled Fusion, 1999, 41, B57-B76.	0.9	23
101	In situ diagnostic for monitoring of deuterium and tritium in re-deposited carbon layers by laser induced desorption. Journal of Nuclear Materials, 2007, 363-365, 1375-1379.	1.3	23
102	Clamping of solid tungsten components for the bulk W divertor row in JETâ€"precautionary design for a brittle material. Physica Scripta, 2009, T138, 014032.	1.2	23
103	Investigation of the Impact on Tungsten of Transient Heat Loads Induced by Laser Irradiation, Electron Beams and Plasma Guns. Fusion Science and Technology, 2013, 63, 197-200.	0.6	23
104	Development and qualification of a bulk tungsten divertor row for JET. Journal of Nuclear Materials, 2009, 390-391, 967-970.	1.3	22
105	Melt-layer ejection and material changes of three different tungsten materials under high heat-flux conditions in the tokamak edge plasma of TEXTOR. Nuclear Fusion, 2011, 51, 113020.	1.6	22
106	Behaviour of carbon and boron-carbon materials at high temperatures in TEXTOR. Journal of Nuclear Materials, 1992, 196-198, 1106-1111.	1.3	21
107	Experimental measurements of the fuelling efficiency of impurities injected into TEXTOR. Nuclear Fusion, 1993, 33, 1409-1425.	1.6	21
108	Quasistationary High Confinement Discharges with trans-Greenwald Density on TEXTOR-94. Physical Review Letters, 2000, 85, 2312-2315.	2.9	21

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109	Plasma edge transport phenomena caused by particle drifts and sources in TEXTOR. Nuclear Fusion, 2003, 43, 168-178.	1.6	21
110	Laser induced desorption as tritium retention diagnostic method in ITER. Fusion Engineering and Design, 2011, 86, 1332-1335.	1.0	21
111	Light impurity production in tokamaks. Plasma Physics and Controlled Fusion, 1989, 31, 1685-1698.	0.9	20
112	Confinement transitions with radiation cooling in TEXTOR-94. Plasma Physics and Controlled Fusion, 1996, 38, 279-288.	0.9	20
113	Impurity release and deposition processes close to limiter surfaces in TEXTOR-94. Journal of Nuclear Materials, 1997, 241-243, 105-117.	1.3	20
114	Operational limits under different wall conditions on TEXTOR-94. Journal of Nuclear Materials, 2001, 290-293, 1148-1154.	1.3	20
115	Overview of material migration and mixing, fuel retention and cleaning of ITER-like castellated structures in TEXTOR. Journal of Nuclear Materials, 2011, 415, S289-S292.	1.3	20
116	Spectroscopic determination of inverse photon efficiencies of W atoms in the scrape-off layer of TEXTOR. Physica Scripta, 2017, T170, 014052.	1.2	20
117	Structure of the scrape-off layer and particle fluxes in a limiter tokamak. Journal of Nuclear Materials, 1987, 145-147, 206-209.	1.3	19
118	Space resolved fluctuations of electron density measured by means of two thermal Li-beams in TEXTOR-94. Journal of Nuclear Materials, 1999, 266-269, 546-551.	1.3	19
119	Overview of Experiments with the Dynamic Ergodic Divertor on TEXTOR. Contributions To Plasma Physics, 2006, 46, 515-526.	0.5	19
120	Development and testing of a bulk tungsten tile for the JET divertor. Physica Scripta, 2007, T128, 144-149.	1.2	19
121	Characterization of transport in the stochastic edge layer of TEXTOR by analysis of the radial and poloidal distribution of electron density and temperature. Journal of Nuclear Materials, 2007, 363-365, 680-685.	1.3	19
122	Dust investigations in TEXTOR: Impact of dust on plasmaâ€“wall interactions and on plasma performance. Journal of Nuclear Materials, 2013, 438, S126-S132.	1.3	19
123	Effects of ICRH on electrostatic fluctuations and particle transport in the boundary plasma of TEXTOR. Nuclear Fusion, 1991, 31, 2383-2391.	1.6	18
124	Spectroscopic measurements of the ion temperature in front of a tokamak limiter. Journal of Nuclear Materials, 1995, 220-222, 472-477.	1.3	18
125	Plasma wall interaction and plasma edge properties with radiation cooling and improved confinement in TEXTOR-94. Journal of Nuclear Materials, 1999, 266-269, 75-83.	1.3	18
126	Prediction of long-term tritium retention in the divertor of ITER: influence of modelling assumptions on retention rates. Physica Scripta, 2009, T138, 014011.	1.2	18

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127	Rotation dependence of a phase delay between plasma edge electron density and temperature fields due to a fast rotating, resonant magnetic perturbation field. Physics of Plasmas, 2010, 17, .	0.7	18
128	Diagnostic set-up and modelling for investigation of synergy between 3D edge physics and plasma-wall interactions on Wendelstein 7-X. Nuclear Fusion, 2017, 57, 066049.	1.6	18
129	In situ detection of hydrogen retention in TEXTOR by laser induced desorption. Journal of Nuclear Materials, 2009, 390-391, 576-580.	1.3	17
130	Neon radiation efficiency for different confinement regimes in TEXTOR-94. Nuclear Fusion, 2000, 40, 1845-1858.	1.6	16
131	Power handling of a segmented bulk W tile for JET under realistic plasma scenarios. Journal of Nuclear Materials, 2011, 415, S943-S947.	1.3	16
132	Supersonic helium beam diagnostic for fluctuation measurements of electron temperature and density at the Tokamak TEXTOR. Review of Scientific Instruments, 2012, 83, 065107.	0.6	16
133	Influence of toroidal and vertical magnetic fields on Ion Cyclotron Wall Conditioning in tokamaks. Journal of Nuclear Materials, 2009, 390-391, 907-910.	1.3	15
134	Hydrogen retention in tungsten materials studied by Laser Induced Desorption. Journal of Nuclear Materials, 2013, 438, S1155-S1159.	1.3	15
135	Enhancement of helium exhaust by resonant magnetic perturbation fields at LHD and TEXTOR. Nuclear Fusion, 2016, 56, 106011.	1.6	15
136	Recyling of neon at a carbon limiter. Journal of Nuclear Materials, 1995, 220-222, 462-466.	1.3	14
137	Study of the power exhaust and the role of impurities in the Torus Experiment for Technological Oriented Research (TEXTOR). Physics of Plasmas, 1995, 2, 2272-2280.	0.7	14
138	Review and present status of the TEXTOR radiative improved (RI) mode. Journal of Plasma Physics, 1998, 59, 587-610.	0.7	14
139	Molecular deuterium sources in the outer divertor of JET. Journal of Nuclear Materials, 2005, 337-339, 500-504.	1.3	14
140	Ion cyclotron wall conditioning in reactive gases on TEXTOR. Journal of Nuclear Materials, 2009, 390-391, 979-982.	1.3	14
141	Charge exchange recombination spectroscopy on a diagnostic hydrogen beamâ€"measuring impurity rotation and radial electric field at the tokamak TEXTOR. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 144015.	0.6	14
142	Analysis of structural changes and high-heat-flux tests on pre-damaged tungsten from tokamak melt experiments. Physica Scripta, 2011, T145, 014066.	1.2	14
143	Impurity Transport Modelling in Edge Plasmas of Fusion Devices with the Monte Carlo Code ERO. Contributions To Plasma Physics, 2006, 46, 628-634.	0.5	13
144	Conceptual design for a bulk tungsten divertor tile in JET. Fusion Engineering and Design, 2007, 82, 1833-1838.	1.0	13

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145	Penetration depths of injected/sputtered tungsten in the plasma edge layer of TEXTOR. Journal of Nuclear Materials, 2013, 438, S865-S870.	1.3	13
146	Time resolved imaging of laser induced ablation spectroscopy (LIAS) in TEXTOR and comparison with modeling. Physica Scripta, 2016, T167, 014034.	1.2	13
147	Evidence for the influence of radial and poloidal drift velocities on the scrape-off layer of a toroidal limiter. Nuclear Fusion, 1991, 31, 1386-1389.	1.6	12
148	Studies of fuelling rates of CO, CH4 and oxygen in the TEXTOR tokamak. Journal of Nuclear Materials, 1992, 196-198, 199-203.	1.3	12
149	Electron temperature fluctuation measurements with high temporal resolution in the TEXTOR boundary plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 173, 288-292.	0.9	12
150	Radiated power and ionic effective charge during neon injection experiments on TEXTOR. Nuclear Fusion, 1996, 36, 347-358.	1.6	12
151	New scenarios of ICRF wall conditioning in TEXTOR and ASDEX Upgrade. Journal of Nuclear Materials, 2007, 363-365, 1358-1363.	1.3	12
152	Plasma-Wall Interaction in Magnetically Confined Fusion Plasmas. Fusion Science and Technology, 2008, 53, 223-228.	0.6	12
153	Simulation of light emission from hydrocarbon injection in TEXTOR using the ERO code. Plasma Physics and Controlled Fusion, 2009, 51, 055019.	0.9	12
154	Spectroscopic observation of Si I- and Si II-emission lines in the boundary of TEXTOR and comparison with kinetic calculations. Plasma Physics and Controlled Fusion, 2003, 45, 89-103.	0.9	11
155	The Radiative Improved Mode in TEXTOR: Power Exhaust and Improved Confinement at High Density. Fusion Science and Technology, 2005, 47, 187-201.	0.6	11
156	Local effects of gas fuelling and their impact on transport processes in the plasma edge of the tokamak TEXTOR. Journal of Nuclear Materials, 2005, 337-339, 515-519.	1.3	11
157	A new radiation-hard endoscope for divertor spectroscopy on JET. Fusion Engineering and Design, 2013, 88, 1361-1365.	1.0	11
158	Spectroscopic characterisation of the PSI-2 plasma in the ionising and recombining state. Journal of Nuclear Materials, 2013, 438, S1249-S1252.	1.3	11
159	Hydrogen Atom Velocities and Penetration Depths in Front of Graphite Surfaces in TEXTOR. Physica Scripta, 2003, T103, 51.	1.2	11
160	High temperature erosion of graphite during extreme limiter loads in TEXTOR. Journal of Nuclear Materials, 1990, 176-177, 180-185.	1.3	10
161	Plasma ion mass spectrometry in the TEXTOR boundary. Journal of Nuclear Materials, 1992, 196-198, 253-257.	1.3	10
162	Recent results on ion cyclotron and combined heating of TEXTOR. Fusion Engineering and Design, 1995, 26, 103-120.	1.0	10

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163	Carbon transport in the stochastic magnetic boundary of TEXTOR. Journal of Nuclear Materials, 2009, 390-391, 227-231.	1.3	10
164	The influence of resonant magnetic perturbations on edge transport in limiter H-mode plasmas in TEXTOR. Journal of Nuclear Materials, 2009, 390-391, 351-354.	1.3	10
165	Experimental investigation of density regimes in the helical divertor at TEXTOR. Nuclear Fusion, 2012, 52, 054005.	1.6	10
166	Studies on properties of low-Z ceramics as limiter materials â€"electron beam and textor limiter tests. Journal of Nuclear Materials, 1985, 133-134, 257-262.	1.3	9
167	LIF measurements on an atomic helium beam in the edge of a fusion plasma. Plasma Physics and Controlled Fusion, 2008, 50, 065015.	0.9	9
168	A bulk tungsten tile for JET: Heat flux tests in the MARION facility on the power-handling performance and validation of the thermal model. Fusion Engineering and Design, 2011, 86, 1801-1804.	1.0	9
169	Studies of impurity migration in TEXTOR by local tracer injection. Journal of Nuclear Materials, 2013, 438, S723-S726.	1.3	9
170	Application of advanced edge diagnostics for transport studies in the stochastic boundary of TEXTOR-DED. AIP Conference Proceedings, 2008, , .	0.3	8
171	In situmeasurements of fuel retention by laser induced desorption spectroscopy in TEXTOR. Physica Scripta, 2011, T145, 014027.	1.2	8
172	Material and Power-Handling Properties of Tungsten PFCs after Steady-State Melting and Additional Transient High-Heat-Flux Exposure. Fusion Science and Technology, 2012, 61, 129-135.	0.6	8
173	Molecular deuterium behaviour in tungsten divertor on JET. Journal of Nuclear Materials, 2013, 438, S1100-S1103.	1.3	8
174	Velocity distribution of helium-atoms in front of the TEXTOR limiter. Journal of Nuclear Materials, 1989, 162-164, 545-549.	1.3	7
175	Modelling of local carbon deposition from methane and ethene injection through graphite and tungsten test limiters in TEXTOR. Plasma Physics and Controlled Fusion, 2010, 52, 045005.	0.9	7
176	Rotation dependent ion fluxes in front of resonant magnetic perturbation coils. Nuclear Fusion, 2013, 53, 012001.	1.6	7
177	Using the Radiation of Hydrogen Atoms and Molecules to Determine Electron Density and Temperature in the Linear Plasma Device PSI-2. Fusion Science and Technology, 2013, 63, 201-204.	0.6	7
178	Modeling of plasma distortions by laser-induced ablation spectroscopy (LIAS) and implications for the interpretation of LIAS measurements. Nuclear Fusion, 2015, 55, 113017.	1.6	7
179	Quartz Crystal Microbalances for quantitative picosecond laser-material-interaction investigations â€“ Part I: Technical considerations. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 126, 79-83.	1.5	7
180	Behaviour of boron- and titanium-doped graphite limiters under high heat loads in TEXTOR. Journal of Nuclear Materials, 1994, 212-215, 1189-1194.	1.3	6

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181	On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma. Journal of Nuclear Materials, 1997, 241-243, 827-832.	1.3	6
182	Impurity release and recycling behaviour in TEXTOR-94 with siliconised walls. Journal of Nuclear Materials, 2001, 290-293, 1190-1194.	1.3	6
183	Velocity distribution of helium and neon atoms released from graphite and tungsten limiters in TEXTOR. Journal of Nuclear Materials, 2006, 348, 283-293.	1.3	6
184	Influence of the Resonant Magnetic Perturbation on the Plasma Boundary in DIIIâ€Ð. Contributions To Plasma Physics, 2010, 50, 701-707.	0.5	6
185	Characterization of hydrocarbon and mixed layers in TEXTOR by laser induced ablation spectroscopy. Physica Scripta, 2011, T145, 014026.	1.2	6
186	Simulation of spectroscopic patterns obtained in W/C test-limiter sputtering experiment at TEXTOR. Journal of Nuclear Materials, 2013, 438, S351-S355.	1.3	6
187	Removable samples for ITERâ€”a feasibility and conceptual study. Physica Scripta, 2014, T159, 014004.	1.2	6
188	Thermo-chemical fuel removal from porous materials by oxygen and nitrogen dioxide. Physica Scripta, 2014, T159, 014065.	1.2	6
189	Comparison of13C2H4and13CH4injection through graphite and tungsten limiters in TEXTOR. Physica Scripta, 2009, T138, 014022.	1.2	6
190	Edge fluctuation measurements in textor with a thermal neutral beam probe. Journal of Nuclear Materials, 1989, 162-164, 231-235.	1.3	5
191	Plasma-Wall Interaction in Magnetically Confined Fusion Plasmas. Fusion Science and Technology, 2010, 57, 241-246.	0.6	5
192	Active control over carbon deposition by gas feeding for the protection of diagnostic the mirrors in ITER. Physica Scripta, 2011, T145, 014072.	1.2	5
193	Formation of a three-dimensional scrape-off layer in a fast rotating resonant magnetic perturbation field at TEXTOR. Journal of Nuclear Materials, 2011, 415, S923-S926.	1.3	5
194	Fuel removal from castellated structures by plasma discharges in hydrogen and oxygen. Journal of Nuclear Materials, 2011, 415, S781-S784.	1.3	5
195	Active control over carbon deposition on diagnostic components and in remote areas of ITER. Journal of Nuclear Materials, 2011, 417, 830-833.	1.3	5
196	Material deposition and migration processes with resonant magnetic perturbation fields at TEXTOR. Journal of Nuclear Materials, 2013, 438, S602-S606.	1.3	5
197	In situdeuterium inventory measurements of a-C:D layers on tungsten in TEXTOR by laser induced ablation spectroscopy. Physica Scripta, 2014, T159, 014054.	1.2	5
198	Thermally activated reactionâ€“diffusion-controlled chemical bulk reactions of gases and solids. Nuclear Materials and Energy, 2015, 1, 1-7.	0.6	5

#	Article	IF	Citations
199	Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94. Journal of Nuclear Materials, 1997, 241-243, 793-798.	1.3	4
200	Scaling of radiated power to plasma contamination for neon seeded discharges on boronized TEXTOR-94. Journal of Nuclear Materials, 1997, 241-243, 853-856.	1.3	4
201	Experimental and theoretical analyses of penetration processes of externally applied rotating helical magnetic perturbation fields in TEXTOR and HYBTOK-II. Plasma Physics and Controlled Fusion, 2007, 49, A135-A143.	0.9	4
202	LIF measurements for validation of collisional-radiative modelling of atomic helium in the edge of a fusion plasma. Journal of Physics: Conference Series, 2010, 227, 012024.	0.3	4
203	Plasma-Wall Interaction in Magnetically Confined Fusions Plasmas. Fusion Science and Technology, 2012, 61, 193-198.	0.6	4
204	ICRH in radiatively cooled TEXTOR-94 plasmas. , 1997, , .		3
205	Radiation Phenomena at Edge and Divertor. Fusion Science and Technology, 2004, 45, 271-278.	0.6	3
206	Plasma-Wall Interaction. Fusion Science and Technology, 2006, 49, 234-239.	0.6	3
207	Optimised plasma stabilisation at TEXTOR with an advanced, real-time digital control scheme. Fusion Engineering and Design, 2009, 84, 1329-1332.	1.0	3
208	Modelling of carbon deposition from CD₄injection in the far scrape-off layer of TEXTOR. Physica Scripta, 2011, T145, 014005.	1.2	3
209	Engineering aspects of a fully mirrored endoscope. Fusion Engineering and Design, 2013, 88, 1400-1404.	1.0	3
210	Study of the Relevance of Thermal Instability Caused by Impurity Radiation to MARFE Development in a Limiter Tokamak. Contributions To Plasma Physics, 2002, 42, 290-295.	0.5	2
211	The effect of the magnetic topology on particle recycling in the ergodic divertor of TEXTOR. Journal of Nuclear Materials, 2007, 363-365, 377-381.	1.3	2
212	EFFECT OF MAGNETIC FIELD STRENGTH ON PILOT-PSI PLASMA BEAM FLUXES PROBED BY THOMSON SCATTERING AND SPECTROCOPY. High Temperature Material Processes, 2004, 8, 627-633.	0.2	2
213	Suppression of the intermittent blob-type transport by the resonant magnetic perturbation (RMP) in the TEXTOR tokamak. Journal of Nuclear Materials, 2009, 390-391, 372-375.	1.3	1
214	Power handling of the bulk tungsten divertor row at JET: First measurements and comparison to the GTM thermal model. Fusion Engineering and Design, 2013, 88, 1778-1781.	1.0	1
215	Plasmaâ€"Wall Interaction: Status and Data Needs. Springer Series in Chemical Physics, 2005, , 3-28.	0.2	1
216	Electron density and temperature measurements in TEXTOR ion cyclotron wall conditioning plasmas by thermal Li beam spectroscopy. Journal of Nuclear Materials, 2011, 415, S1166-S1169.	1.3	0