Wolfgang Suttrop

List of Publications by Year
in descending order

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144 papers	6,609 citations	53751 45 h-index	71651 76 g-index
144 all docs	144 docs citations	144 times ranked	2450 citing authors

#	Article	IF	Citations
1	First Observation of Edge Localized Modes Mitigation with Resonant and Nonresonant Magnetic Perturbations in ASDEX Upgrade. Physical Review Letters, 2011, 106, 225004.	2.9	428
2	Plasma rotation profile measurements using Doppler reflectometry. Plasma Physics and Controlled Fusion, 2004, 46, 951-970.	0.9	205
3	ELM pace making and mitigation by pellet injection in ASDEX Upgrade. Nuclear Fusion, 2004, 44, 665-677.	1.6	200
4	Nitrogen donors in 4Hâ€silicon carbide. Journal of Applied Physics, 1993, 73, 3332-3338.	1.1	196
5	Identification of plasma-edge-related operational regime boundaries and the effect of edge instability on confinement in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1997, 39, 2051-2066.	0.9	190
6	Integrated Data Analysis of Profile Diagnostics at ASDEX Upgrade. Fusion Science and Technology, 2010, 58, 675-684.	0.6	185
7	The physics of large and small edge localized modes. Plasma Physics and Controlled Fusion, 2000, 42, A1-A14.	0.9	166
8	Hall effect and infrared absorption measurements on nitrogen donors in 6Hâ€silicon carbide. Journal of Applied Physics, 1992, 72, 3708-3713.	1.1	158
9	Overview on plasma operation with a full tungsten wall in ASDEX Upgrade. Journal of Nuclear Materials, 2013, 438, S34-S41.	1.3	156
10	Characteristics and scaling of energy and particle losses during Type I ELMs in JET H-modes. Plasma Physics and Controlled Fusion, 2002, 44, 1815-1844.	0.9	153
11	Observation of Continuous Divertor Detachment inH-Mode Discharges in ASDEX Upgrade. Physical Review Letters, 1995, 74, 4217-4220.	2.9	152
12	Improved performance of ELMy H-modes at high density by plasma shaping in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1769-1799.	0.9	138
13	Boron-related deep centers in 6H-SiC. Applied Physics A: Solids and Surfaces, 1990, 51, 231-237.	1.4	124
14	Experimental studies of electron transport. Plasma Physics and Controlled Fusion, 2001, 43, A323-A338.	0.9	123
15	The impact of ELMs on the ITER divertor. Journal of Nuclear Materials, 1999, 266-269, 109-117.	1.3	121
16	High-accuracy characterization of the edge radial electric field at ASDEX Upgrade. Nuclear Fusion, 2013, 53, 053005.	1.6	117
17	ELM divertor peak energy fluence scaling to ITER with data from JET, MAST and ASDEX upgrade. Nuclear Materials and Energy, 2017, 12, 84-90.	0.6	116
18	Survey of the H-mode power threshold and transition physics studies in ASDEX Upgrade. Nuclear Fusion, 2013, 53, 113003.	1.6	105

#	Article	IF	Citations
19	Characterization of pedestal parameters and edge localized mode energy losses in the Joint European Torus and predictions for the International Thermonuclear Experimental Reactor. Physics of Plasmas, 2004, 11, 2668-2678.	0.7	104
20	ELM-free stationary H-mode plasmas in the ASDEX Upgrade tokamak. Plasma Physics and Controlled Fusion, 2003, 45, 1399-1416.	0.9	99
21	ELM control strategies and tools: status and potential for ITER. Nuclear Fusion, 2013, 53, 043004.	1.6	98
22	Studies of the â€˜Quiescent H-modeâ€™ regime in ASDEX Upgrade and JET. Nuclear Fusion, 2005, 45, 721-730.	1.6	97
23	2D electron cyclotron emission imaging at ASDEX Upgrade (invited). Review of Scientific Instruments, 2010, 81, 10D929.	0.6	93
24	Measurements and modeling of AlfvÃ©n eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade. Physics of Plasmas, 2011, 18, .	0.7	90
25	Pedestal conditions for small ELM regimes in tokamaks. Plasma Physics and Controlled Fusion, 2006, 48, A171-A181.	0.9	88
26	Effect of resonant magnetic perturbations on low collisionality discharges in MAST and a comparison with ASDEX Upgrade. Nuclear Fusion, 2015, 55, 043011.	1.6	85
27	Effects of triangularity on confinement, density limit and profile stiffness of H-modes on ASDEX upgrade. Plasma Physics and Controlled Fusion, 2000, 42, A211-A216.	0.9	77
28	Experimental conditions to suppress edge localised modes by magnetic perturbations in the ASDEX Upgrade tokamak. Nuclear Fusion, 2018, 58, 096031.	1.6	73
29	In-vessel saddle coils for MHD control in ASDEX Upgrade. Fusion Engineering and Design, 2009, 84, 290-294.	1.0	72
30	Studies of edge localized mode mitigation with new active in-vessel saddle coils in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2011, 53, 124014.	0.9	71
31	Fast-ion losses induced by ELMs and externally applied magnetic perturbations in the ASDEX Upgrade tokamak. Plasma Physics and Controlled Fusion, 2013, 55, 124014.	0.9	65
32	Advances in the physics understanding of ELM suppression using resonant magnetic perturbations in DIII-D. Nuclear Fusion, 2015, 55, 023002.	1.6	62
33	Calculated and measured uv reflectivity of SiC polytypes. Physical Review B, 1994, 50, 10722-10726.	1.1	60
34	Frequency control of type-I ELMs by magnetic triggering in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, L31-L39.	0.9	59
35	Effect of plasma shape variation on ELMs and H-mode pedestal properties in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2000, 42, A97-A102.	0.9	58
36	ELM control with RMP: plasma response models and the role of edge peeling response. Plasma Physics and Controlled Fusion, 2016, 58, 114005.	0.9	58

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37	Experimental studies of high-confinement mode plasma response to non-axisymmetric magnetic perturbations in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2017, 59, 014049.	0.9	55
38	Non-linear modeling of the plasma response to RMPs in ASDEX Upgrade. Nuclear Fusion, 2017, 57, 022013.	1.6	54
39	Tearing mode formation and radiative edge cooling prior to density limit disruptions in ASDEX upgrade. Nuclear Fusion, 1997, 37, 119-125.	1.6	53
40	Confinement and transport studies of conventional scenarios in ASDEX Upgrade. Nuclear Fusion, 2001, 41, 537-550.	1.6	51
41	Energy and particle losses during type-I ELMy H-mode in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2003, 45, 1571-1596.	0.9	51
42	I-mode studies at ASDEX Upgrade: L-I and I-H transitions, pedestal and confinement properties. Nuclear Fusion, 2017, 57, 016004.	1.6	51
43	Optical reflectivity of 3C and 4Hâ€SiC polytypes: Theory and experiment. Applied Physics Letters, 1993, 63, 2747-2749.	1.5	49
44	Overview of ASDEX Upgrade results. Nuclear Fusion, 1999, 39, 1321-1336.	1.6	47
45	First EMC3-Eirene simulations of the impact of the edge magnetic perturbations at ASDEX Upgrade compared with the experiment. Nuclear Fusion, 2012, 52, 054013.	1.6	47
46	Fast-ion redistribution and loss due to edge perturbations in the ASDEX Upgrade, DIII-D and KSTAR tokamaks. Nuclear Fusion, 2013, 53, 123008.	1.6	47
47	Integrated exhaust scenarios with actively controlled ELMs. Nuclear Fusion, 2005, 45, 502-511.	1.6	46
48	Pedestal width and ELM size identity studies in JET and DIII-D; implications for ITER. Plasma Physics and Controlled Fusion, 2009, 51, 124051.	0.9	44
49	Comparative investigation of ELM control based on toroidal modelling of plasma response to RMP fields. Physics of Plasmas, 2017, 24, .	0.7	44
50	Study of quiescent H-mode plasmas in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, A151-A156.	0.9	43
51	Plasma response measurements of external magnetic perturbations using electron cyclotron emission and comparisons to 3D ideal MHD equilibrium. Plasma Physics and Controlled Fusion, 2016, 58, 114004.	0.9	43
52	Runaway electron mitigation by 3D fields in the ASDEX-Upgrade experiment. Plasma Physics and Controlled Fusion, 2018, 60, 014036.	0.9	42
53	Toroidal modelling of resonant magnetic perturbations response in ASDEX-Upgrade: coupling between field pitch aligned response and kink amplification. Plasma Physics and Controlled Fusion, 2015, 57, 095008.	0.9	40
54	Characterization of the density profile collapse of type I ELMs in ASDEX Upgrade with high temporal and spatial resolution reflectometry. Nuclear Fusion, 2004, 44, 883-891.	1.6	38

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55	Performance near operational boundaries. Plasma Physics and Controlled Fusion, 1999, 41, B329-B341.	0.9	37
56	High-density H-mode operation by pellet injection and ELM mitigation with the new active in-vessel saddle coils in ASDEX Upgrade. Nuclear Fusion, 2012, 52, 023017.	1.6	37
57	Active control of AlfvÃ©n eigenmodes in magnetically confined toroidal plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 054007.	0.9	37
58	Radiative boundary discharges with impurity injection and the H - L transition in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1996, 38, 2097-2112.	0.9	36
59	Overview of ASDEX Upgrade results. Nuclear Fusion, 2013, 53, 104003.	1.6	36
60	The effect of plasma shape and neutral beam mix on the rotation threshold for RMP-ELM suppression. Nuclear Fusion, 2019, 59, 056012.	1.6	35
61	2D ECE measurements of type-I edge localized modes at ASDEX Upgrade. Nuclear Fusion, 2011, 51, 103039.	1.6	33
62	Impact of magnetic perturbation coils on the edge radial electric field and turbulence in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2015, 57, 014035.	0.9	31
63	Impact of ideal MHD stability limits on high-beta hybrid operation. Plasma Physics and Controlled Fusion, 2017, 59, 014027.	0.9	31
64	Understanding the effect resonant magnetic perturbations have on ELMs. Plasma Physics and Controlled Fusion, 2013, 55, 124003.	0.9	30
65	Characterisation of the fast-ion edge resonant transport layer induced by 3D perturbative fields in the ASDEX Upgrade tokamak through full orbit simulations. Plasma Physics and Controlled Fusion, 2019, 61, 014038.	0.9	30
66	Toroidal modelling of RMP response in ASDEX Upgrade: coil phase scan, q₉₅ dependence, and toroidal torques. Nuclear Fusion, 2016, 56, 056015.	1.6	28
67	Heat flux pattern in detached L-modes and ELM mitigated H-modes with rotating magnetic perturbations in ASDEX Upgrade. Nuclear Fusion, 2017, 57, 116006.	1.6	28
68	Overview of ASDEX Upgrade results. Nuclear Fusion, 2011, 51, 094012.	1.6	27
69	Three-dimensional distortions of the tokamak plasma boundary: boundary displacements in the presence of resonant magnetic perturbations. Nuclear Fusion, 2014, 54, 083006.	1.6	27
70	Field-Line Localized Destabilization of Ballooning Modes in Three-Dimensional Tokamaks. Physical Review Letters, 2017, 119, 085002.	2.9	27
71	Heat transport driven by the ion temperature gradient and electron temperature gradient instabilities in ASDEX Upgrade H-modes. Nuclear Fusion, 2019, 59, 096052.	1.6	27
72	Influence of externally applied magnetic perturbations on neoclassical tearing modes at ASDEX Upgrade. Nuclear Fusion, 2015, 55, 013018.	1.6	26

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73	Modelling plasma response to RMP fields in ASDEX Upgrade with varying edge safety factor and triangularity. Nuclear Fusion, 2016, 56, 126007.	1.6	26
74	Operational limits for high edge density H-mode tokamak operation. Journal of Nuclear Materials, 1999, 266-269, 118-123.	1.3	25
75	Spatiotemporal response of plasma edge density and temperature to non-axisymmetric magnetic perturbations at ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2012, 54, 115008.	0.9	25
76	Characteristics of edge localized modes in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1996, 38, 1407-1410.	0.9	24
77	ITER-relevant H-mode physics at ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, B511-B525.	0.9	24
78	Analysis of electron cyclotron emission with extended electron cyclotron forward modeling. Plasma Physics and Controlled Fusion, 2018, 60, 105010.	0.9	24
79	Divertor heat load in ASDEX Upgrade L-mode in presence of external magnetic perturbation. Plasma Physics and Controlled Fusion, 2017, 59, 095006.	0.9	24
80	Electro-magnetic modeling of the planned active in-vessel coils at ASDEX Upgrade. Fusion Engineering and Design, 2009, 84, 1653-1657.	1.0	22
81	Lâ€“H transition in the presence of magnetic perturbations in ASDEX Upgrade. Nuclear Fusion, 2012, 52, 114014.	1.6	22
82	Effects of type-I edge-localized modes on transport in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1998, 40, 771-774.	0.9	21
83	Mitigation of edge localised modes with magnetic perturbations in ASDEX Upgrade. Fusion Engineering and Design, 2013, 88, 446-453.	1.0	19
84	Modification of scrape-off layer transport and turbulence by non-axisymmetric magnetic perturbations in ASDEX Upgrade. Journal of Nuclear Materials, 2013, 438, S64-S71.	1.3	18
85	Effect of 3D magnetic perturbations on the plasma rotation in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2016, 58, 074007.	0.9	18
86	Three dimensional boundary displacement due to stable ideal kink modes excited by external nâ€‰=â€‰2 magnetic perturbations. Nuclear Fusion, 2017, 57, 116047.	1.6	18
87	Intermittent transport across the scrape-off layer: latest results from ASDEX Upgrade. Nuclear Fusion, 2013, 53, 073047.	1.6	17
88	Design and stress analysis of in-vessel saddle coils for MHD control in ASDEX Upgrade. Fusion Engineering and Design, 2009, 84, 1928-1932.	1.0	16
89	Beam-Ion Acceleration during Edge Localized Modes in the ASDEX Upgrade Tokamak. Physical Review Letters, 2018, 121, 025002.	2.9	16
90	Deformation measurement of internal components of ASDEX Upgrade using optical strain sensors. Fusion Engineering and Design, 2013, 88, 537-540.	1.0	15

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91	Quasilinear modelling of RMP interaction with a tokamak plasma: application to ASDEX Upgrade ELM mitigation experiments. Nuclear Fusion, 2014, 54, 064005.	1.6	15
92	Fully pellet-controlled ELMs sustaining identical pedestal conditions of natural ELMy H-mode in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, A315-A321.	0.9	14
93	Characterization of broadband MHD fluctuations during type-II edge localized modes as measured in 2D with ECE-imaging at ASDEX Upgrade. Nuclear Fusion, 2012, 52, 114004.	1.6	14
94	Pellet refuelling of particle loss due to ELM mitigation with RMPs in the ASDEX Upgrade tokamak at low collisionality. Nuclear Fusion, 2016, 56, 066009.	1.6	14
95	Physics and scaling of the H-mode transition in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1999, 41, A569-A576.	0.9	13
96	Dual array 3D electron cyclotron emission imaging at ASDEX Upgrade. Review of Scientific Instruments, 2014, 85, 11D833.	0.6	13
97	Electrical design of the BUSSARD inverter system for ASDEX upgrade saddle coils. Fusion Engineering and Design, 2015, 96-97, 171-176.	1.0	13
98	Parameter dependence of ELM loss reduction by magnetic perturbations at low pedestal density and collisionality in ASDEX upgrade. Plasma Physics and Controlled Fusion, 2017, 59, 055004.	0.9	13
99	2D heat flux in ASDEX Upgrade L-Mode with magnetic perturbation. Nuclear Materials and Energy, 2017, 12, 1020-1024.	0.6	13
100	Progress in extrapolating divertor heat fluxes towards large fusion devices. Physica Scripta, 2017, T170, 014071.	1.2	13
101	Assessment of divertor heat load with and without external magnetic perturbation. Nuclear Fusion, 2017, 57, 066045.	1.6	12
102	Targeting a Versatile Actuator for EU-DEMO: Xenon Doping of Fueling Pellets. Fusion Science and Technology, 2021, 77, 42-50.	0.6	12
103	Pedestal electron collisionality and toroidal rotation during ELM-crash suppression phase under nâ€‰=â€‰1 RMP in KSTAR. Physics of Plasmas, 2020, 27, .	0.7	12
104	Runaway electrons in a Tokamak: A free-electron maser. Review of Scientific Instruments, 1997, 68, 423-426.	0.6	11
105	A detailed comparison of antenna impedance measurements on ASDEX Upgrade with the ion cyclotron range of frequencies antenna code TOPICA. Nuclear Fusion, 2015, 55, 113003.	1.6	11
106	Regime identification in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, 835-856.	0.9	10
107	Autoregressive moving average model for analyzing edge localized mode time series on Axially Symmetric Divertor Experiment (ASDEX) Upgrade tokamak. Physics of Plasmas, 2004, 11, 5658-5667.	0.7	10
108	Surface loads and edge fast ion distribution for co- and counter-injection in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2007, 49, 151-174.	0.9	9

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109	Radiation transport modelling for the interpretation of oblique ECE measurements. EPJ Web of Conferences, 2017, 147, 02002.	0.1	9
110	Density control by pellets in plasmas with ELM mitigation by RMPs in the ASDEX Upgrade tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 085013.	0.9	9
111	Dynamics of ideal modes and subsequent ELM crashes in 3D tokamak geometry from external magnetic perturbations. Plasma Physics and Controlled Fusion, 2019, 61, 014019.	0.9	8
112	Effect of magnetic perturbations for ELM control on divertor power loads, detachment and consequences of field penetration in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2019, 61, 014008.	0.9	8
113	Conceptual design of the power supply system for the in-vessel saddle coils for MHD control in ASDEX Upgrade. Fusion Engineering and Design, 2011, 86, 1488-1492.	1.0	7
114	Recent progress in understanding the Lâ€“H transition physics from ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2012, 54, 124002.	0.9	7
115	The role of temperature fluctuations in the dynamics of type-I and type-II edge localized modes at ASDEX Upgrade. Nuclear Fusion, 2013, 53, 073005.	1.6	7
116	MHD limits and plasma response in high-beta hybrid operations in ASDEX Upgrade. Nuclear Fusion, 2017, 57, 116027.	1.6	7
117	ICRF coupling in ASDEX upgrade magnetically perturbed 3D plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 125019.	0.9	7
118	Observation of accelerated beam ion population during edge localized modes in the ASDEX Upgrade tokamak. Nuclear Fusion, 2019, 59, 066016.	1.6	7
119	Numerically derived parametrisation of optimal RMP coil phase as a guide to experiments on ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2017, 59, 024005.	0.9	6
120	Investigation of the coupling properties of the ion cyclotron fast wave under applied magnetic perturbations and MHD phenomena in ASDEX Upgrade. EPJ Web of Conferences, 2017, 157, 03051.	0.1	6
121	Dependence of the Lâ€“H power threshold on the alignment of external non-axisymmetric magnetic perturbations in ASDEX Upgrade. Physics of Plasmas, 2022, 29, .	0.7	6
122	Pedestal Characteristics of H-Mode Plasmas in JT-60U and ASDEX Upgrade. Journal of Plasma and Fusion Research, 2005, 81, 280-287.	0.4	5
123	Conceptual design of in vessel mid-plane saddle coils for fast AC operation in ASDEX Upgrade. Fusion Engineering and Design, 2011, 86, 1067-1071.	1.0	5
124	Determination of the stochastic layer properties induced by magnetic perturbations via heat pulse experiments at ASDEX upgrade. Nuclear Materials and Energy, 2017, 12, 831-837.	0.6	5
125	Impact of nâ€‰â€‰=â€‰â€‰1 field on the non-axisymmetric magnetic perturbations associated with the edge localized mode crashes in the ASDEX Upgrade tokamak. Nuclear Fusion, 2019, 59, 054002.	1.6	5
126	Compatibility of pellet fuelling with ELM suppression by RMPs in the ASDEX Upgrade tokamak. Nuclear Fusion, 2020, 60, 054006.	1.6	5

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127	Power inverter design for ASDEX Upgrade saddle coils. Fusion Engineering and Design, 2013, 88, 1469-1474.	1.0	4
128	The DC-link of the inverter system BUSSARD for ASDEX Upgrade in vessel saddle coils. Fusion Engineering and Design, 2017, 124, 40-44.	1.0	4
129	Numerical survey of predicted peeling response in edge localised mode mitigated and suppressed phases on ASDEX upgrade. Plasma Physics and Controlled Fusion, 2019, 61, 095010.	0.9	4
130	Influence of triangularity on the plasma response to resonant magnetic perturbations. Nuclear Fusion, 2022, 62, 076031.	1.6	4
131	Effect of radial electric field and ripple on edge neutral beam ion distribution in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2008, 50, 035014.	0.9	3
132	Investigations on the edge kinetic data in regimes with type-I and mitigated ELMs at ASDEX Upgrade. Nuclear Fusion, 2014, 54, 093011.	1.6	3
133	Characterization of Scrapeâ€Off Layer Turbulence Changes Induced by a Nonâ€Axisymmetric Magnetic Perturbation in an ASDEX Upgrade Low Density Lâ€Mode. Contributions To Plasma Physics, 2014, 54, 261-266.	0.5	3
134	Study of the ELM fluctuation characteristics during the mitigation of type-I ELMs. Nuclear Fusion, 2015, 55, 083018.	1.6	3
135	Optimizing BUSSARD: The new 16-phase inverter system of ASDEX upgrade. Fusion Engineering and Design, 2017, 124, 141-146.	1.0	3
136	Experimental validation of coil phase parametrisation on ASDEX Upgrade, and extension to ITER. Plasma Physics and Controlled Fusion, 2018, 60, 065005.	0.9	3
137	Improved measurements of ICRF antenna input impedance at ASDEX Upgrade during ICRF coupling studies. , 2014, , .		2
138	Electrical and mechanical adaptation of commercially available power inverter modules for BUSSARD â€“ The power supply of ASDEX Upgrade in vessel saddle coils. Fusion Engineering and Design, 2015, 98-99, 1144-1147.	1.0	2
139	Effect of magnetic perturbation fields on power decay length in EMC3-EIRENE simulations and comparison to experiment in ASDEX upgrade. Nuclear Materials and Energy, 2019, 19, 205-210.	0.6	2
140	Identification of {2110} and {1010} Laue patterns of hexagonal and rhombohedral silicon carbide polytypes. Journal of Applied Crystallography, 1994, 27, 497-503.	1.9	1
141	The ASDEX Upgrade Program Targeting Gaps to Fusion Energy. IEEE Transactions on Plasma Science, 2016, 44, 1472-1480.	0.6	1
142	BUSSARD â€” The high current high bandwidth multiple-phases inverter for ASDEX upgrade. , 2017, , .		1
143	Fast-ion transport and toroidal rotation response to externally applied magnetic perturbations at the ASDEX Upgrade tokamak. Nuclear Fusion, 0, , .	1.6	1
144	Power inverter design for magnetic perturbation coils in nuclear fusion experiments. , 2013, , .		0