

I G J Classen

List of Publications by Year in descending order

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40
papers

1,315
citations

331670

21
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

967
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of High-Field-Side Crash and Heat Transfer during Sawtooth Oscillation in Magnetically Confined Plasmas. <i>Physical Review Letters</i> , 2006, 96, 195003.	7.8	112
2	Fast Ion Induced Shearing of 2D Alfvén Eigenmodes Measured by Electron Cyclotron Emission Imaging. <i>Physical Review Letters</i> , 2011, 106, 075003.	7.8	94
3	2D electron cyclotron emission imaging at ASDEX Upgrade (invited). <i>Review of Scientific Instruments</i> , 2010, 81, 10D929.	1.3	93
4	Measurements and modeling of Alfvén eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	90
5	Commissioning of electron cyclotron emission imaging instrument on the DIII-D tokamak and first data. <i>Review of Scientific Instruments</i> , 2010, 81, 10D928.	1.3	89
6	Effect of Heating on the Suppression of Tearing Modes in Tokamaks. <i>Physical Review Letters</i> , 2007, 98, 035001.	7.8	79
7	Simultaneous microwave imaging system for density and temperature fluctuation measurements on TEXTOR (invited). <i>Review of Scientific Instruments</i> , 2004, 75, 3787-3792.	1.3	78
8	Comparison Study of 2D Images of Temperature Fluctuations during Sawtooth Oscillation with Theoretical Models. <i>Physical Review Letters</i> , 2006, 96, 195004.	7.8	76
9	Convective and Diffusive Energetic Particle Losses Induced by Shear Alfvén Waves in the ASDEX Upgrade Tokamak. <i>Physical Review Letters</i> , 2010, 104, 185002.	7.8	61
10	Velocimetry analysis of type-I edge localized mode precursors in ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 035010.	2.1	40
11	Characterization of edge profiles and fluctuations in discharges with type-II and nitrogen-mitigated edge localized modes in ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 085026.	2.1	39
12	MANTIS: A real-time quantitative multispectral imaging system for fusion plasmas. <i>Review of Scientific Instruments</i> , 2019, 90, 123514.	1.3	37
13	The next generation of electron cyclotron emission imaging diagnostics (invited). <i>Review of Scientific Instruments</i> , 2008, 79, 10F103.	1.3	35
14	The dynamic ergodic divertor in the TEXTOR tokamak: plasma response to dynamic helical magnetic field perturbations. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, B143-B155.	2.1	34
15	Advancements in electron cyclotron emission imaging demonstrated by the TEXTOR ECEI diagnostic upgrade. <i>Review of Scientific Instruments</i> , 2009, 80, 093502.	1.3	33
16	ECE-imaging of the H-mode pedestal (invited). <i>Review of Scientific Instruments</i> , 2012, 83, 10E329.	1.3	31
17	Upgrades to the TEXTOR electron cyclotron emission imaging diagnostic. <i>Review of Scientific Instruments</i> , 2006, 77, 10E924.	1.3	29
18	Two-dimensional electron cyclotron emission imaging diagnostic for TEXTOR. <i>Review of Scientific Instruments</i> , 2004, 75, 3875-3877.	1.3	26

#	ARTICLE	IF	CITATIONS
19	Self-organized Te redistribution during driven reconnection processes in high-temperature plasmas. <i>Physics of Plasmas</i> , 2006, 13, 055907.	1.9	26
20	The effects of electron cyclotron heating and current drive on toroidal Alfvén eigenmodes in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014026.	2.1	26
21	Investigation of fast particle driven instabilities by 2D electron cyclotron emission imaging on ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 124018.	2.1	25
22	Rotation profile flattening and toroidal flow shear reversal due to the coupling of magnetic islands in tokamaks. <i>Physics of Plasmas</i> , 2016, 23, 056107.	1.9	18
23	Studying the influence of nitrogen seeding in a detached-like hydrogen plasma by means of numerical simulations. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 105004.	2.1	18
24	The role of hydrogen molecular effects on detachment in Magnum-PSI. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	16
25	Investigating the effect of different impurities on plasma detachment in linear plasma machine Magnum-PSI. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15
26	Overview of Core Diagnostics for TEXTOR. <i>Fusion Science and Technology</i> , 2005, 47, 220-245.	1.1	14
27	On the application of electron cyclotron emission imaging to the validation of theoretical models of magnetohydrodynamic activity. <i>Physics of Plasmas</i> , 2011, 18, 056107.	1.9	14
28	Dual array 3D electron cyclotron emission imaging at ASDEX Upgrade. <i>Review of Scientific Instruments</i> , 2014, 85, 11D833.	1.3	13
29	Revision of TV Thomson scattering data analysis and detection of profile structure. <i>Review of Scientific Instruments</i> , 2003, 74, 3998-4011.	1.3	11
30	A spectroscopic inference and SOLPS-ITER comparison of flux-resolved edge plasma parameters in detachment experiments on TCV. <i>Nuclear Fusion</i> , 2022, 62, 096012.	3.5	10
31	Boundary perturbations coupled to core 3/2 tearing modes on the DIII-D tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 095006.	2.1	8
32	Phase-locking of magnetic islands diagnosed by ECE-imaging. <i>Review of Scientific Instruments</i> , 2014, 85, 11D847.	1.3	6
33	Sawtooth Precursor Oscillations on DIII-D. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 3022-3023.	1.3	5
34	Tomographic reconstruction of the runaway distribution function in TCV using multispectral synchrotron images. <i>Nuclear Fusion</i> , 2021, 61, 046044.	3.5	5
35	Non-axisymmetric magneto- hydrodynamic equilibrium in the presence of internal magnetic islands and external magnetic perturbation coils. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 125009.	2.1	2
36	Incoherent and Collective Thomson Scattering for the Determination of Electron and Ion Properties in Low-Temperature Plasma. <i>Journal of Fusion Energy</i> , 2020, 39, 251-260.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Thermalized collisional pre-sheath detected in dense plasma with coherent and incoherent Thomson scattering. Nuclear Fusion, 2021, 61, 096007.	3.5	2
38	Imaging Meso-Scale Structures in TEXTOR with 2D-ECE. Plasma and Fusion Research, 2007, 2, S1031-S1031.	0.7	2
39	The role of target closure in detachment in Magnum-PSI. Physics of Plasmas, 2021, 28, .	1.9	1
40	Visualization of instabilities in hot magnetized plasmas by ECE Imaging. , 2012, , .		0