

# 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	A spectroscopic inference and SOLPS-ITER comparison of flux-resolved edge plasma parameters in detachment experiments on TCV. Nuclear Fusion, 2022, 62, 096012.	3.5	10
2	Tomographic reconstruction of the runaway distribution function in TCV using multispectral synchrotron images. Nuclear Fusion, 2021, 61, 046044.	3.5	5
3	Thermalized collisional pre-sheath detected in dense plasma with coherent and incoherent Thomson scattering. Nuclear Fusion, 2021, 61, 096007.	3.5	2
4	The role of target closure in detachment in Magnum-PSI. Physics of Plasmas, 2021, 28, .	1.9	1
5	Incoherent and Collective Thomson Scattering for the Determination of Electron and Ion Properties in Low-Temperature Plasma. Journal of Fusion Energy, 2020, 39, 251-260.	1.2	2
6	The role of hydrogen molecular effects on detachment in Magnum-PSI. Physics of Plasmas, 2020, 27, .	1.9	16
7	Investigating the effect of different impurities on plasma detachment in linear plasma machine Magnum-PSI. Physics of Plasmas, 2019, 26, .	1.9	15
8	MANTIS: A real-time quantitative multispectral imaging system for fusion plasmas. Review of Scientific Instruments, 2019, 90, 123514.	1.3	37
9	The effects of electron cyclotron heating and current drive on toroidal Alfvén eigenmodes in tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014026.	2.1	26
10	Studying the influence of nitrogen seeding in a detached-like hydrogen plasma by means of numerical simulations. Plasma Physics and Controlled Fusion, 2018, 60, 105004.	2.1	18
11	Rotation profile flattening and toroidal flow shear reversal due to the coupling of magnetic islands in tokamaks. Physics of Plasmas, 2016, 23, 056107.	1.9	18
12	Phase-locking of magnetic islands diagnosed by ECE-imaging. Review of Scientific Instruments, 2014, 85, 11D847.	1.3	6
13	Dual array 3D electron cyclotron emission imaging at ASDEX Upgrade. Review of Scientific Instruments, 2014, 85, 11D833.	1.3	13
14	Velocimetry analysis of type-I edge localized mode precursors in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2014, 56, 035010.	2.1	40
15	Boundary perturbations coupled to core 3/2 tearing modes on the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2013, 55, 095006.	2.1	8
16	Non-axisymmetric magneto-hydrodynamic equilibrium in the presence of internal magnetic islands and external magnetic perturbation coils. Plasma Physics and Controlled Fusion, 2013, 55, 125009.	2.1	2
17	ECE-imaging of the H-mode pedestal (invited). Review of Scientific Instruments, 2012, 83, 10E329.	1.3	31
18	Visualization of instabilities in hot magnetized plasmas by ECE Imaging. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Sawtooth Precursor Oscillations on DIII-D. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 3022-3023.	1.3	5
22	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
23	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
24	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
25	2D electron cyclotron emission imaging at ASDEX Upgrade (invited). <i>Review of Scientific Instruments</i> , 2010, 81, 10D929.	1.3	93
26	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
27	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
28	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
29	The next generation of electron cyclotron emission imaging diagnostics (invited). <i>Review of Scientific Instruments</i> , 2008, 79, 10F103.	1.3	35
30	Effect of Heating on the Suppression of Tearing Modes in Tokamaks. <i>Physical Review Letters</i> , 2007, 98, 035001.	7.8	79
31	Imaging Meso-Scale Structures in TEXTOR with 2D-ECE. <i>Plasma and Fusion Research</i> , 2007, 2, S1031-S1031.	0.7	2
32	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
33	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
34	Upgrades to the TEXTOR electron cyclotron emission imaging diagnostic. <i>Review of Scientific Instruments</i> , 2006, 77, 10E924.	1.3	29
35	Self-organized Te redistribution during driven reconnection processes in high-temperature plasmas. <i>Physics of Plasmas</i> , 2006, 13, 055907.	1.9	26
36	Overview of Core Diagnostics for TEXTOR. <i>Fusion Science and Technology</i> , 2005, 47, 220-245.	1.1	14

#	ARTICLE	IF	CITATIONS
37	Simultaneous microwave imaging system for density and temperature fluctuation measurements on TEXTOR (invited). Review of Scientific Instruments, 2004, 75, 3787-3792.	1.3	78
38	Two-dimensional electron cyclotron emission imaging diagnostic for TEXTOR. Review of Scientific Instruments, 2004, 75, 3875-3877.	1.3	26
39	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.	2.1	34
40	Revision of TV Thomson scattering data analysis and detection of profile structure. Review of Scientific Instruments, 2003, 74, 3998-4011.	1.3	11