

G T A Huijsmans

List of Publications by Year in descending order

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39
papers

1,122
citations

394421

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39
all docs

39
docs citations

39
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-linear MHD modelling of edge localized modes suppression by resonant magnetic perturbations in ITER. Nuclear Fusion, 2022, 62, 066022.	3.5	9
2	New H-mode regimes with small ELMs and high thermal confinement in the Joint European Torus. Physics of Plasmas, 2022, 29, .	1.9	21
3	MHD simulations of small ELMs at low triangularity in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2022, 64, 054011.	2.1	10
4	The JOREK non-linear extended MHD code and applications to large-scale instabilities and their control in magnetically confined fusion plasmas. Nuclear Fusion, 2021, 61, 065001.	3.5	85
5	Comparing spontaneous and pellet-triggered ELMs via non-linear extended MHD simulations. Plasma Physics and Controlled Fusion, 2021, 63, 075016.	2.1	7
6	Thermal quench and current profile relaxation dynamics in massive-material-injection-triggered tokamak disruptions. Plasma Physics and Controlled Fusion, 2021, 63, 115006.	2.1	13
7	Collisional-radiative non-equilibrium impurity treatment for JOREK simulations. Plasma Physics and Controlled Fusion, 2021, 63, 125003.	2.1	5
8	Evaluation of core beta effects on pedestal MHD stability in ITER and consequences for energy confinement. Physics of Plasmas, 2020, 27, 092502.	1.9	0
9	Global ITG eigenmodes: From ballooning angle and radial shift to Reynolds stress and nonlinear saturation. Physics of Plasmas, 2020, 27, .	1.9	3
10	Extended full-MHD simulation of non-linear instabilities in tokamak plasmas. Physics of Plasmas, 2020, 27, .	1.9	24
11	First predictive simulations for deuterium shattered pellet injection in ASDEX Upgrade. Physics of Plasmas, 2020, 27, 022510.	1.9	17
12	Modeling of TAE mode excitation with an antenna in realistic X-point geometry. Physics of Plasmas, 2020, 27, 012507.	1.9	6
13	Understanding the reduction of the edge safety factor during hot VDEs and fast edge cooling events. Physics of Plasmas, 2020, 27, 032501.	1.9	13
14	Simulating the nonlinear interaction of relativistic electrons and tokamak plasma instabilities: Implementation and validation of a fluid model. Physical Review E, 2019, 99, 063317.	2.1	26
15	A wall-aligned grid generator for non-linear simulations of MHD instabilities in tokamak plasmas. Computer Physics Communications, 2019, 243, 41-50.	7.5	10
16	Kinetic modeling of ELM-induced tungsten transport in a tokamak plasma. Physics of Plasmas, 2019, 26, .	1.9	12
17	Non-linear modeling of the threshold between ELM mitigation and ELM suppression by resonant magnetic perturbations in ASDEX upgrade. Physics of Plasmas, 2019, 26, 042503.	1.9	26
18	Numerical study of tearing mode seeding in tokamak X-point plasma. Physics of Plasmas, 2019, 26, .	1.9	4

#	ARTICLE	IF	CITATIONS
19	Closed-Form Solutions for the Trajectories of Charged Particles in an Exponentially Varying Magnetostatic Field. IEEE Transactions on Plasma Science, 2019, 47, 296-299.	1.3	1
20	Progress in understanding disruptions triggered by massive gas injection via 3D non-linear MHD modelling with JOREK. Plasma Physics and Controlled Fusion, 2017, 59, 014006.	2.1	47
21	PB3D: A new code for edge 3-D ideal linear peeling-ballooning stability. Journal of Computational Physics, 2017, 330, 997-1009.	3.8	6
22	Edge localized mode rotation and the nonlinear dynamics of filaments. Physics of Plasmas, 2016, 23, 042513.	1.9	22
23	Early evolution of electron cyclotron driven current during suppression of tearing modes in a circular tokamak. Physics of Plasmas, 2016, 23, 102507.	1.9	9
24	Linear MHD stability analysis of post-disruption plasmas in ITER. Plasma Physics Reports, 2016, 42, 486-494.	0.9	13
25	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. Plasma Physics and Controlled Fusion, 2016, 58, 014026.	2.1	20
26	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. Physics of Plasmas, 2015, 22, .	1.9	45
27	ELM mitigation with pellet ELM triggering and implications for PFCs and plasma performance in ITER. Journal of Nuclear Materials, 2015, 463, 104-108.	2.7	12
28	Evaluation of first wall heat fluxes due to magnetic perturbations for a range of ITER scenarios. Journal of Nuclear Materials, 2015, 463, 406-410.	2.7	2
29	The quiescent H-mode regime for high performance edge localized mode-stable operation in future	1.9	45
30	Modelling of edge localised modes and edge localised mode control. Physics of Plasmas, 2015, 22, .	1.9	34
31	Mechanism of Edge Localized Mode Mitigation by Resonant Magnetic Perturbations. Physical Review Letters, 2014, 113, 115001.	7.8	60
32	Recent progress in understanding the processes underlying the triggering of and energy loss associated with type I ELMs. Nuclear Fusion, 2014, 54, 114012.	3.5	36
33	Non-linear MHD modelling of ELM triggering by pellet injection in DIII-D and implications for ITER. Nuclear Fusion, 2014, 54, 073008.	3.5	53
34	Three-dimensional distortions of the tokamak plasma boundary: boundary displacements in the presence of resonant magnetic perturbations. Nuclear Fusion, 2014, 54, 083006.	3.5	27
35	Progress on the application of ELM control schemes to ITER scenarios from the non-active phase to DT operation. Nuclear Fusion, 2014, 54, 033007.	3.5	214
36	Resistive MHD simulation of edge-localized-modes for double-null discharges in the MAST device. Plasma Physics and Controlled Fusion, 2013, 55, 095001.	2.1	26

#	ARTICLE	IF	CITATIONS
37	Reduction of edge localized mode intensity on DIII-D by on-demand triggering with high frequency pellet injection and implications for ITER. Physics of Plasmas, 2013, 20, .	1.9	30
38	Non-linear magnetohydrodynamic modeling of plasma response to resonant magnetic perturbations. Physics of Plasmas, 2013, 20, .	1.9	99
39	Understanding the effect resonant magnetic perturbations have on ELMs. Plasma Physics and Controlled Fusion, 2013, 55, 124003.	2.1	30