

G T A Huijismans

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,122
citations

394421

19
h-index

395702

33
g-index

39
all docs

39
docs citations

39
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Non-linear magnetohydrodynamic modeling of plasma response to resonant magnetic perturbations. Physics of Plasmas, 2013, 20, .	1.9	99
3	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
4	Mechanism of Edge Localized Mode Mitigation by Resonant Magnetic Perturbations. Physical Review Letters, 2014, 113, 115001.	7.8	60
5	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
6	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
7	Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. Physics of Plasmas, 2015, 22, .	1.9	45
8	The quiescent H-mode regime for high performance edge localized mode-stable operation in future	1.9	45
9	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
10	Modelling of edge localised modes and edge localised mode control. Physics of Plasmas, 2015, 22, .	1.9	34
11	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
12	Understanding the effect resonant magnetic perturbations have on ELMs. Plasma Physics and Controlled Fusion, 2013, 55, 124003.	2.1	30
13	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
14	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
15	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
16	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
17	Extended full-MHD simulation of non-linear instabilities in tokamak plasmas. Physics of Plasmas, 2020, 27, .	1.9	24
18	Edge localized mode rotation and the nonlinear dynamics of filaments. Physics of Plasmas, 2016, 23, 042513.	1.9	22

#	ARTICLE	IF	CITATIONS
19	New H-mode regimes with small ELMs and high thermal confinement in the Joint European Torus. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	21
20	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 014026.	2.1	20
21	First predictive simulations for deuterium shattered pellet injection in ASDEX Upgrade. <i>Physics of Plasmas</i> , 2020, 27, 022510.	1.9	17
22	Linear MHD stability analysis of post-disruption plasmas in ITER. <i>Plasma Physics Reports</i> , 2016, 42, 486-494.	0.9	13
23	Understanding the reduction of the edge safety factor during hot VDEs and fast edge cooling events. <i>Physics of Plasmas</i> , 2020, 27, 032501.	1.9	13
24	Thermal quench and current profile relaxation dynamics in massive-material-injection-triggered tokamak disruptions. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 115006.	2.1	13
25	ELM mitigation with pellet ELM triggering and implications for PFCs and plasma performance in ITER. <i>Journal of Nuclear Materials</i> , 2015, 463, 104-108.	2.7	12
26	Kinetic modeling of ELM-induced tungsten transport in a tokamak plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	12
27	A wall-aligned grid generator for non-linear simulations of MHD instabilities in tokamak plasmas. <i>Computer Physics Communications</i> , 2019, 243, 41-50.	7.5	10
28	MHD simulations of small ELMs at low triangularity in ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 054011.	2.1	10
29	Early evolution of electron cyclotron driven current during suppression of tearing modes in a circular tokamak. <i>Physics of Plasmas</i> , 2016, 23, 102507.	1.9	9
30	Non-linear MHD modelling of edge localized modes suppression by resonant magnetic perturbations in ITER. <i>Nuclear Fusion</i> , 2022, 62, 066022.	3.5	9
31	Comparing spontaneous and pellet-triggered ELMs via non-linear extended MHD simulations. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 075016.	2.1	7
32	PB3D: A new code for edge 3-D ideal linear peeling-ballooning stability. <i>Journal of Computational Physics</i> , 2017, 330, 997-1009.	3.8	6
33	Modeling of TAE mode excitation with an antenna in realistic X-point geometry. <i>Physics of Plasmas</i> , 2020, 27, 012507.	1.9	6
34	Collisional-radiative non-equilibrium impurity treatment for JOEUK simulations. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 125003.	2.1	5
35	Numerical study of tearing mode seeding in tokamak X-point plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	4
36	Global ITG eigenmodes: From ballooning angle and radial shift to Reynolds stress and nonlinear saturation. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	3

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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