Gergely Papp

List of Publications by Year
in descending order

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48 papers	1,151 citations	331670 21 h-index	395702 33 g-index
48 all docs	48 docs citations	48 times ranked	968 citing authors

#	Article	IF	Citations
1	Status of research toward the ITER disruption mitigation system. Physics of Plasmas, 2015, 22, .	1.9	182
2	Runaway electron drift orbits in magnetostatic perturbed fields. Nuclear Fusion, 2011, 51, 043004.	3.5	60
3	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
4	Kinetic modelling of runaway electrons in dynamic scenarios. Nuclear Fusion, 2016, 56, 112009.	3.5	45
5	Effect of Partially Screened Nuclei on Fast-Electron Dynamics. Physical Review Letters, 2017, 118, 255001.	7.8	45
6	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
7	Runaway electron losses caused by resonant magnetic perturbations in ITER. Plasma Physics and Controlled Fusion, 2011, 53, 095004.	2.1	42
8	Runaway electron mitigation by 3D fields in the ASDEX-Upgrade experiment. Plasma Physics and Controlled Fusion, 2018, 60, 014036.	2.1	42
9	Effect of partially ionized impurities and radiation on the effective critical electric field for runaway generation. Plasma Physics and Controlled Fusion, 2018, 60, 074010.	2.1	40
10	Runaway electron experiments at COMPASS in support of the EUROfusion ITER physics research. Plasma Physics and Controlled Fusion, 2019, 61, 014010.	2.1	36
11	The effect of ITER-like wall on runaway electron generation in JET. Nuclear Fusion, 2013, 53, 123017.	3.5	35
12	Disruption mitigation by injection of small quantities of noble gas in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2017, 59, 014046.	2.1	35
13	Synchrotron radiation from a runaway electron distribution in tokamaks. Physics of Plasmas, 2013, 20, .	1.9	34
14	Generalized collision operator for fast electrons interacting with partially ionized impurities. Journal of Plasma Physics, 2018, 84, .	2.1	31
15	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30
16	The effect of resonant magnetic perturbations on runaway electron transport in ITER. Plasma Physics and Controlled Fusion, 2012, 54, 125008.	2.1	29
17	Experimental investigation of the radial structure of energetic particle driven modes. Nuclear Fusion, 2016, 56, 112003.	3.5	26
18	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

#	Article	IF	Citations
19	Evaluation of the Dreicer runaway generation rate in the presence of high- impurities using a neural network. Journal of Plasma Physics, 2019, 85, .	2.1	26
20	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
21	High resolution gamma-ray spectrometer with MHz capabilities for runaway electron studies at ASDEX Upgrade. Review of Scientific Instruments, 2018, 89, 101124.	1.3	22
22	A novel path to runaway electron mitigation via deuterium injection and current-driven MHD instability. Nuclear Fusion, 2021, 61, 116058.	3.5	21
23	Losses of runaway electrons in MHD-active plasmas of the COMPASS tokamak. Nuclear Fusion, 2017, 57, 076002.	3.5	18
24	Energetic electron transport in the presence of magnetic perturbations in magnetically confined plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	17
25	Spatiotemporal analysis of the runaway distribution function from synchrotron images in an ASDEX Upgrade disruption. Journal of Plasma Physics, 2021, 87, .	2.1	17
26	Runaway electron beam stability and decay in COMPASS. Nuclear Fusion, 2019, 59, 096036.	3.5	16
27	Self-consistent modeling of runaway electron generation in massive gas injection scenarios in ASDEX Upgrade. Nuclear Fusion, 2020, 60, 096031.	3.5	16
28	Low frequency sawtooth precursor activity in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2011, 53, 065007.	2.1	15
29	Study of runaway electron dynamics at the ASDEX Upgrade tokamak during impurity injection using fast hard x-ray spectrometry. Nuclear Fusion, 2021, 61, 116024.	3.5	15
30	Generation and dissipation of runaway electrons in ASDEX Upgrade experiments. Nuclear Fusion, 2020, 60, 086011.	3.5	14
31	Comparison of runaway electron generation parameters in small, medium-sized and large tokamaksâ€”A survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET. Nuclear Fusion, 2018, 58, 016014.	3.5	12
32	Reducing systematic errors in time-frequency resolved mode number analysis. Plasma Physics and Controlled Fusion, 2015, 57, 125005.	2.1	10
33	Experimental Study and Simulation of W7-AS Transient MHD Modes. AIP Conference Proceedings, 2008, , .	0.4	7
34	Kinetic modelling of runaway electron generation in argon-induced disruptions in ASDEX Upgrade. Journal of Plasma Physics, 2020, 86, .	2.1	7
35	Runaway electron synchrotron radiation in a vertically translated plasma. Nuclear Fusion, 2020, 60, 094002.	3.5	7
36	Physics of runaway electrons with shattered pellet injection at JET. Plasma Physics and Controlled Fusion, 2022, 64, 034002.	2.1	7

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37	Tomographic reconstruction of the runaway distribution function in TCV using multispectral synchrotron images. Nuclear Fusion, 2021, 61, 046044.	3.5	5
38	Electron runaway in ASDEX Upgrade experiments of varying core temperature. Journal of Plasma Physics, 2021, 87, .	2.1	5
39	The role of 3D fields on runaway electron mitigation in ASDEX Upgrade: a numerical test particle approach. Nuclear Fusion, 2021, 61, 066037.	3.5	5
40	Disruption mitigation efficiency and scaling with thermal energy fraction on ASDEX Upgrade. Nuclear Fusion, 2020, 60, 126029.	3.5	5
41	Full conversion from ohmic to runaway electron driven current via massive gas injection in the TCV tokamak. Nuclear Fusion, 2022, 62, 076038.	3.5	5
42	Runaway-electron formation and electron slide-away in an ITER post-disruption scenario. Journal of Physics: Conference Series, 2016, 775, 012013.	0.4	4
43	Runaway electron modelling in the self-consistent core European Transport Simulator. Nuclear Fusion, 2019, 59, 076024.	3.5	4
44	Modelling of runaway electron dynamics during argon-induced disruptions in ASDEX Upgrade and JET. Plasma Physics and Controlled Fusion, 2021, 63, 085021.	2.1	4
45	Dynamics of positrons during relativistic electron runaway. Journal of Plasma Physics, 2018, 84, .	2.1	3
46	Alpha particle driven AlfvÃ©nic instabilities in ITER post-disruption plasmas. Nuclear Fusion, 2021, 61, 086003.	3.5	3
47	Moment-preserving and mesh-adaptive reweighting method for rare-event sampling in Monte-Carlo algorithms. Computer Physics Communications, 2021, 267, 108041.	7.5	1
48	Full conversion from Ohmic to runaway electron driven current via massive gas injection in the TCV tokamak. Nuclear Fusion, 0, , .	3.5	1