

# István Pusztai

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

619  
citations

567281

15  
h-index

713466

21  
g-index

57  
all docs

57  
docs citations

57  
times ranked

697  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotope mass and charge effects in tokamak plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	46
2	Numerical characterization of bump formation in the runaway electron tail. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 025016.	2.1	36
3	Runaway dynamics in the DT phase of ITER operations in the presence of massive material injection. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	30
4	Microtearing modes in spherical and conventional tokamaks. <i>Nuclear Fusion</i> , 2013, 53, 063025.	3.5	28
5	Effect of poloidal asymmetries on impurity peaking in tokamaks. <i>Physics of Plasmas</i> , 2012, 19, 052307.	1.9	23
6	Three-dimensional modeling of beam emission spectroscopy measurements in fusion plasmas. <i>Review of Scientific Instruments</i> , 2012, 83, 113501.	1.3	22
7	Radiation reaction induced non-monotonic features in runaway electron distributions. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	22
8	First principles of modelling the stabilization of microturbulence by fast ions. <i>Nuclear Fusion</i> , 2018, 58, 082024.	3.5	22
9	Impurity transport driven by ion temperature gradient turbulence in tokamak plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	21
10	Neoclassical plateau regime transport in a tokamak pedestal. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 075016.	2.1	19
11	A possible mechanism responsible for generating impurity outward flow under radio frequency heating. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 115008.	2.1	18
12	Poloidal asymmetries due to ion cyclotron resonance heating. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 105010.	2.1	17
13	Impurity transport in trapped electron mode driven turbulence. <i>Physics of Plasmas</i> , 2013, 20, 032310.	1.9	17
14	Spatiotemporal analysis of the runaway distribution function from synchrotron images in an ASDEX Upgrade disruption. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	17
15	Modeling the complete prevention of disruption-generated runaway electron beam formation with a passive 3D coil in SPARC. <i>Nuclear Fusion</i> , 2021, 61, 124003.	3.5	17
16	Low Mach-number collisionless electrostatic shocks and associated ion acceleration. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 035004.	2.1	15
17	Collisional transport of impurities with flux-surface varying density in stellarators. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	15
18	Plasma rotation from momentum transport by neutrals in tokamaks. <i>Nuclear Fusion</i> , 2016, 56, 124002.	3.5	14

#	ARTICLE	IF	CITATIONS
19	Impurity transport due to electromagnetic drift wave turbulence. <i>Physics of Plasmas</i> , 2012, 19, 032301.	1.9	13
20	Overview of experimental results and code validation activities at Alcator C-Mod. <i>Nuclear Fusion</i> , 2013, 53, 104004.	3.5	13
21	Dynamo in Weakly Collisional Nonmagnetized Plasmas Impeded by Landau Damping of Magnetic Fields. <i>Physical Review Letters</i> , 2020, 124, 255102.	7.8	13
22	Turbulent transport of impurities and their effect on energy confinement. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 074012.	2.1	12
23	Radially global $\hat{v}_i$ computation of neoclassical phenomena in a tokamak pedestal. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 045005.	2.1	12
24	Kinetic effects on a tokamak pedestal ion flow, ion heat transport and bootstrap current. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 045009.	2.1	11
25	Effect of two-stage shattered pellet injection on tokamak disruptions. <i>Nuclear Fusion</i> , 2022, 62, 112004.	3.5	11
26	Deconvolution-based correction of alkali beam emission spectroscopy density profile measurements. <i>Review of Scientific Instruments</i> , 2009, 80, 083502.	1.3	10
27	Effect of a weak ion collisionality on the dynamics of kinetic electrostatic shocks. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	9
28	Collisional model of quasilinear transport driven by toroidal electrostatic ion temperature gradient modes. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	8
29	Neoclassical plateau regime transport in a tokamak pedestal. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 119801-119801.	2.1	8
30	A unified treatment of kinetic effects in a tokamak pedestal. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 054004.	2.1	8
31	Core micro-instability analysis of JET hybrid and baseline discharges with carbon wall. <i>Nuclear Fusion</i> , 2014, 54, 123016.	3.5	8
32	Global anomalous transport of ICRH- and NBI-heated fast ions. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 044007.	2.1	8
33	Collisionality dependence of the quasilinear particle flux due to microinstabilities. <i>Physics of Plasmas</i> , 2008, 15, 072308.	1.9	7
34	High- $m$ kink/tearing modes in cylindrical geometry. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 125006.	2.1	7
35	Impurity transport in Alcator C-Mod in the presence of poloidal density variation induced by ion cyclotron resonance heating. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 124005.	2.1	7
36	The importance of the classical channel in the impurity transport of optimized stellarators. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	6

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37	Edge momentum transport by neutrals: an interpretive numerical framework. Nuclear Fusion, 2017, 57, 066048.	3.5	5
38	Electromagnetic zonal flow residual responses. Journal of Plasma Physics, 2017, 83, .	2.1	5
39	Collisional effects on the electrostatic shock dynamics in thin-foil targets driven by an ultraintense short pulse laser. Plasma Physics and Controlled Fusion, 2020, 62, 085015.	2.1	5
40	Radio Frequency Induced and Neoclassical Asymmetries and their Effects on Turbulent Impurity Transport in a Tokamak. Contributions To Plasma Physics, 2014, 54, 534-542.	1.1	4
41	Global effects on neoclassical transport in the pedestal with impurities. Plasma Physics and Controlled Fusion, 2016, 58, 085001.	2.1	4
42	Proton acceleration in a laser-induced relativistic electron vortex. Journal of Plasma Physics, 2019, 85, .	2.1	4
43	Fast collisional electron heating and relaxation in thin foils driven by a circularly polarized ultraintense short-pulse laser. Journal of Plasma Physics, 2020, 86, .	2.1	4
44	A current-driven electromagnetic mode in sheared and toroidal configurations. Plasma Physics and Controlled Fusion, 2014, 56, 035011.	2.1	3
45	Edge rotation from momentum transport by neutrals. Journal of Physics: Conference Series, 2016, 775, 012011.	0.4	3
46	Characteristics of microinstabilities in electron cyclotron and ohmic heated discharges. Physics of Plasmas, 2011, 18, 082506.	1.9	2
47	Axisymmetric global gravitational equilibrium for magnetized, rotating hot plasma. Journal of Plasma Physics, 2015, 81, .	2.1	2
48	Turbulent transport of MeV range cyclotron heated minorities as compared to alpha particles. Plasma Physics and Controlled Fusion, 2016, 58, 105001.	2.1	2
49	Effect of plasma shaping and resonance location on minority ion temperature anisotropy in tokamak plasmas heated with ICRH. Journal of Physics: Conference Series, 2012, 401, 012011.	0.4	1
50	Neoclassical flows in deuterium-helium plasma density pedestals. Plasma Physics and Controlled Fusion, 2017, 59, 055019.	2.1	1
51	Isotope and density profile effects on pedestal neoclassical transport. Plasma Physics and Controlled Fusion, 2017, 59, 105003.	2.1	1
52	Optimization of flux-surface density variation in stellarator plasmas with respect to the transport of collisional impurities. Nuclear Fusion, 2019, 59, 066028.	3.5	1
53	Attosecond dispersion as a diagnostics tool for solid-density laser-generated plasmas. Journal of Plasma Physics, 2022, 88, .	2.1	1
54	Neoclassical Theory of Pedestal Flows and Comparison with Alcator C-Mod Measurements. Contributions To Plasma Physics, 2012, 52, 365-371.	1.1	0

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55	Axisymmetric global gravitational equilibrium for magnetized, rotating hot plasma - Corrigendum. Journal of Plasma Physics, 2017, 83, .	2.1	0
56	Electromagnetic zonal flow residual responses " Corrigendum. Journal of Plasma Physics, 2020, 86, .	2.1	0