

# István Pusztai

## List of Publications by Year in descending order

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56  
papers

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57  
all docs

57  
docs citations

57  
times ranked

697  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of two-stage shattered pellet injection on tokamak disruptions. Nuclear Fusion, 2022, 62, 112004.	3.5	11
2	Attosecond dispersion as a diagnostics tool for solid-density laser-generated plasmas. Journal of Plasma Physics, 2022, 88, .	2.1	1
3	Spatiotemporal analysis of the runaway distribution function from synchrotron images in an ASDEX Upgrade disruption. Journal of Plasma Physics, 2021, 87, .	2.1	17
4	Modeling the complete prevention of disruption-generated runaway electron beam formation with a passive 3D coil in SPARC. Nuclear Fusion, 2021, 61, 124003.	3.5	17
5	Runaway dynamics in the DT phase of ITER operations in the presence of massive material injection. Journal of Plasma Physics, 2020, 86, .	2.1	30
6	Electromagnetic zonal flow residual responses – Corrigendum. Journal of Plasma Physics, 2020, 86, .	2.1	0
7	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
8	Dynamo in Weakly Collisional Nonmagnetized Plasmas Impeded by Landau Damping of Magnetic Fields. Physical Review Letters, 2020, 124, 255102.	7.8	13
9	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
10	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
11	Proton acceleration in a laser-induced relativistic electron vortex. Journal of Plasma Physics, 2019, 85, .	2.1	4
12	The importance of the classical channel in the impurity transport of optimized stellarators. Journal of Plasma Physics, 2019, 85, .	2.1	6
13	Effect of a weak ion collisionality on the dynamics of kinetic electrostatic shocks. Journal of Plasma Physics, 2019, 85, .	2.1	9
14	Low Mach-number collisionless electrostatic shocks and associated ion acceleration. Plasma Physics and Controlled Fusion, 2018, 60, 035004.	2.1	15
15	First principles of modelling the stabilization of microturbulence by fast ions. Nuclear Fusion, 2018, 58, 082024.	3.5	22
16	Collisional transport of impurities with flux-surface varying density in stellarators. Journal of Plasma Physics, 2018, 84, .	2.1	15
17	Neoclassical flows in deuterium–helium plasma density pedestals. Plasma Physics and Controlled Fusion, 2017, 59, 055019.	2.1	1
18	Global anomalous transport of ICRH- and NBI-heated fast ions. Plasma Physics and Controlled Fusion, 2017, 59, 044007.	2.1	8

#	ARTICLE	IF	CITATIONS
19	Isotope and density profile effects on pedestal neoclassical transport. Plasma Physics and Controlled Fusion, 2017, 59, 105003.	2.1	1
20	Edge momentum transport by neutrals: an interpretive numerical framework. Nuclear Fusion, 2017, 57, 066048.	3.5	5
21	Electromagnetic zonal flow residual responses. Journal of Plasma Physics, 2017, 83, .	2.1	5
22	Axisymmetric global gravitational equilibrium for magnetized, rotating hot plasma - Corrigendum. Journal of Plasma Physics, 2017, 83, .	2.1	0
23	Edge rotation from momentum transport by neutrals. Journal of Physics: Conference Series, 2016, 775, 012011.	0.4	3
24	Plasma rotation from momentum transport by neutrals in tokamaks. Nuclear Fusion, 2016, 56, 124002.	3.5	14
25	Turbulent transport of MeV range cyclotron heated minorities as compared to alpha particles. Plasma Physics and Controlled Fusion, 2016, 58, 105001.	2.1	2
26	Global effects on neoclassical transport in the pedestal with impurities. Plasma Physics and Controlled Fusion, 2016, 58, 085001.	2.1	4
27	Numerical characterization of bump formation in the runaway electron tail. Plasma Physics and Controlled Fusion, 2016, 58, 025016.	2.1	36
28	Radiation reaction induced non-monotonic features in runaway electron distributions. Journal of Plasma Physics, 2015, 81, .	2.1	22
29	Axisymmetric global gravitational equilibrium for magnetized, rotating hot plasma. Journal of Plasma Physics, 2015, 81, .	2.1	2
30	Radially global $\hat{r}$ - $\hat{f}$ computation of neoclassical phenomena in a tokamak pedestal. Plasma Physics and Controlled Fusion, 2014, 56, 045005.	2.1	12
31	A current-driven electromagnetic mode in sheared and toroidal configurations. Plasma Physics and Controlled Fusion, 2014, 56, 035011.	2.1	3
32	High- $m$ kink/tearing modes in cylindrical geometry. Plasma Physics and Controlled Fusion, 2014, 56, 125006.	2.1	7
33	Core micro-instability analysis of JET hybrid and baseline discharges with carbon wall. Nuclear Fusion, 2014, 54, 123016.	3.5	8
34	Impurity transport in Alcator C-Mod in the presence of poloidal density variation induced by ion cyclotron resonance heating. Plasma Physics and Controlled Fusion, 2014, 56, 124005.	2.1	7
35	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
36	Impurity transport in trapped electron mode driven turbulence. Physics of Plasmas, 2013, 20, 032310.	1.9	17

#	ARTICLE	IF	CITATIONS
37	Microtearing modes in spherical and conventional tokamaks. Nuclear Fusion, 2013, 53, 063025.	3.5	28
38	Kinetic effects on a tokamak pedestal ion flow, ion heat transport and bootstrap current. Plasma Physics and Controlled Fusion, 2013, 55, 045009.	2.1	11
39	Turbulent transport of impurities and their effect on energy confinement. Plasma Physics and Controlled Fusion, 2013, 55, 074012.	2.1	12
40	Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004.	3.5	13
41	Effect of poloidal asymmetries on impurity peaking in tokamaks. Physics of Plasmas, 2012, 19, 052307.	1.9	23
42	Impurity transport due to electromagnetic drift wave turbulence. Physics of Plasmas, 2012, 19, 032301.	1.9	13
43	Three-dimensional modeling of beam emission spectroscopy measurements in fusion plasmas. Review of Scientific Instruments, 2012, 83, 113501.	1.3	22
44	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
45	Poloidal asymmetries due to ion cyclotron resonance heating. Plasma Physics and Controlled Fusion, 2012, 54, 105010.	2.1	17
46	Neoclassical Theory of Pedestal Flows and Comparison with Alcator C-Mod Measurements. Contributions To Plasma Physics, 2012, 52, 365-371.	1.1	0
47	A possible mechanism responsible for generating impurity outward flow under radio frequency heating. Plasma Physics and Controlled Fusion, 2011, 53, 115008.	2.1	18
48	A unified treatment of kinetic effects in a tokamak pedestal. Plasma Physics and Controlled Fusion, 2011, 53, 054004.	2.1	8
49	Isotope mass and charge effects in tokamak plasmas. Physics of Plasmas, 2011, 18, .	1.9	46
50	Characteristics of microinstabilities in electron cyclotron and ohmic heated discharges. Physics of Plasmas, 2011, 18, 082506.	1.9	2
51	Neoclassical plateau regime transport in a tokamak pedestal. Plasma Physics and Controlled Fusion, 2010, 52, 119801-119801.	2.1	8
52	Neoclassical plateau regime transport in a tokamak pedestal. Plasma Physics and Controlled Fusion, 2010, 52, 075016.	2.1	19
53	Impurity transport driven by ion temperature gradient turbulence in tokamak plasmas. Physics of Plasmas, 2010, 17, .	1.9	21
54	Deconvolution-based correction of alkali beam emission spectroscopy density profile measurements. Review of Scientific Instruments, 2009, 80, 083502.	1.3	10

#	ARTICLE	IF	CITATIONS
55	Collisional model of quasilinear transport driven by toroidal electrostatic ion temperature gradient modes. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	8
56	Collisionality dependence of the quasilinear particle flux due to microinstabilities. <i>Physics of Plasmas</i> , 2008, 15, 072308.	1.9	7