Ilon Joseph

List of Publications by Year in descending order

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331670 243625 2,273 48 21 44 citations h-index g-index papers 48 48 48 1416 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Nonlinear kinetic simulation study of the ion–ion streaming instability in single- and multi-ion species plasmas. Physics of Plasmas, 2021, 28, 022105.	1.9	О
2	Impact of ion temperature anisotropy on 2D edge-plasma transport. Nuclear Materials and Energy, 2021, 26, 100881.	1.3	7
3	Guiding center and gyrokinetic orbit theory for large electric field gradients and strong shear flows. Physics of Plasmas, 2021, 28, .	1.9	3
4	Simulating non-native cubic interactions on noisy quantum machines. Physical Review A, 2021, 103, .	2.5	8
5	Koopman wavefunctions and Clebsch variables in Vlasov–Maxwell kinetic theory. Journal of Plasma Physics, 2021, 87, .	2.1	9
6	Quantum phase estimation for a class of generalized eigenvalue problems. Physical Review A, 2020, 102,	2.5	21
7	Koopman–von Neumann approach to quantum simulation of nonlinear classical dynamics. Physical Review Research, 2020, 2, .	3 . 6	40
8	Simulation of edge localized mode heat pulse using drift-kinetic ions and Boltzmann electrons. Nuclear Materials and Energy, 2019, 19, 330-334.	1.3	1
9	Linearized Coulomb Collision Operator for Simulation of Interpenetrating Plasma Streams. IEEE Transactions on Plasma Science, 2019, 47, 2074-2080.	1.3	3
10	Stellarator Research Opportunities: A Report of the National Stellarator Coordinating Committee. Journal of Fusion Energy, 2018, 37, 51-94.	1.2	15
11	Electron parallel closures for the $3+1$ fluid model. Physics of Plasmas, 2018, 25, .	1.9	4
12	Comparison of 2D simulations of detached divertor plasmas with divertor Thomson measurements in the DIII-D tokamak. Nuclear Materials and Energy, 2017, 12, 44-50.	1.3	26
13	On coupling fluid plasma and kinetic neutral physics models. Nuclear Materials and Energy, 2017, 12, 813-818.	1.3	3
14	Connecting Collisionless Landau Fluid Closures to Collisional Plasma Physics Models. Contributions To Plasma Physics, 2016, 56, 504-510.	1.1	9
15	BOUT++: Recent and current developments. Journal of Plasma Physics, 2015, 81, .	2.1	49
16	Modeling of tokamak divertor plasma for weakly collisional parallel electron transport. Journal of Nuclear Materials, 2015, 463, 506-509.	2.7	19
17	Quantitative study of the trapped particle bunching instability in Langmuir waves. Physics of Plasmas, 2015, 22, .	1.9	17
18	A fast non-Fourier method for Landau-fluid operators. Physics of Plasmas, 2014, 21, .	1.9	33

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19	Three dimensional nonlinear simulations of edge localized modes on the EAST tokamak using BOUT++ code. Physics of Plasmas, 2014, 21, 090705.	1.9	11
20	Fast pedestal, SOL and divertor measurements from DIII-D to validate BOUT++ nonlinear ELM simulations. Journal of Nuclear Materials, 2013, 438, S346-S350.	2.7	4
21	Gyro-fluid and two-fluid theory and simulations of edge-localized-modes. Physics of Plasmas, 2013, 20,	1.9	42
22	Nonlinear instability in simulations of Large Plasma Device turbulence. Physics of Plasmas, 2013, 20, .	1.9	9
23	On the applicability of the standard approaches for evaluating a neoclassical radial electric field in a tokamak edge region. Physics of Plasmas, 2013, 20, .	1.9	5
24	Improved understanding of physics processes in pedestal structure, leading to improved predictive capability for ITER. Nuclear Fusion, 2013, 53, 093024.	3.5	59
25	Generation of non-axisymmetric scrape-off layer perturbations for controlling tokamak edge plasma profiles and stability. Physics of Plasmas, 2012, 19, 056124.	1.9	3
26	Role of singular layers in the plasma response to resonant magnetic perturbations. Nuclear Fusion, 2012, 52, 074004.	3.5	69
27	Edge‣ocalized Mode Control and Transport Generated by Externally Applied Magnetic Perturbations. Contributions To Plasma Physics, 2012, 52, 326-347.	1.1	19
28	Assessment of thermo-electric techniques for scrape-off layer current drive in flux-tube geometry. Journal of Nuclear Materials, 2011, 415, S932-S935.	2.7	2
29	Magnetic Perturbation Spectrum Produced by Nonâ€Axisymmetric Scrapeâ€Off Layer Current and the Xâ€Point Shadow. Contributions To Plasma Physics, 2010, 50, 331-337.	1.1	1
30	Plasma transport in stochastic magnetic field caused by vacuum resonant magnetic perturbations at diverted tokamak edge. Physics of Plasmas, 2010, 17, .	1.9	76
31	Overview of the results on divertor heat loads in RMP controlled H-mode plasmas on DIII-D. Nuclear Fusion, 2009, 49, 095013.	3.5	136
32	Particle, heat, and sheath power transmission factor profiles during ELM suppression experiments on DIII-D. Journal of Nuclear Materials, 2009, 390-391, 839-842.	2.7	25
33	Extended MHD simulation of resonant magnetic perturbations. Nuclear Fusion, 2009, 49, 055025.	3.5	43
34	Driving toroidally asymmetric current through the tokamak scrape-off layer. I. Potential for edge localized mode suppression. Physics of Plasmas, 2009, 16, 052510.	1.9	21
35	Driving toroidally asymmetric current through the tokamak scrape-off layer. II. Magnetic field structure and spectrum. Physics of Plasmas, 2009, 16, 052511.	1.9	13
36	RMP ELM suppression in DIII-D plasmas with ITER similar shapes and collisionalities. Nuclear Fusion, 2008, 48, 024002.	3.5	348

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37	Calculation of stochastic thermal transport due to resonant magnetic perturbations in DIII-D*. Nuclear Fusion, 2008, 48, 045009.	3.5	60
38	Aspects of three dimensional transport for ELM control experiments in ITER-similar shape plasmas at low collisionality in DIII-D. Plasma Physics and Controlled Fusion, 2008, 50, 124029.	2.1	89
39	RMP enhanced transport and rotational screening in simulations of DIII-D plasmas. Nuclear Fusion, 2008, 48, 115004.	3.5	46
40	Kinetic estimate of the shielding of resonant magnetic field perturbations by the plasma in DIII-D. Nuclear Fusion, 2008, 48, 024005.	3.5	81
41	Effect of island overlap on edge localized mode suppression by resonant magnetic perturbations in DIII-D. Physics of Plasmas, 2008, 15 , .	1.9	139
42	Stochastic transport modeling of resonant magnetic perturbations in DIII-D. Journal of Nuclear Materials, 2007, 363-365, 591-595.	2.7	17
43	Pedestal, SOL and divertor plasma properties in DIII-D RMP ELM-suppressed discharges at ITER relevant edge collisionality. Journal of Nuclear Materials, 2007, 363-365, 476-483.	2.7	23
44	Experimental and numerical studies of separatrix splitting and magnetic footprints in DIII-D. Journal of Nuclear Materials, 2007, 363-365, 570-574.	2.7	41
45	Edge stability and transport control with resonant magnetic perturbations in collisionless tokamak plasmas. Nature Physics, 2006, 2, 419-423.	16.7	538
46	The physics of edge resonant magnetic perturbations in hot tokamak plasmas. Physics of Plasmas, 2006, 13, 056121.	1.9	86
47	Ion temperature anisotropy in the tokamak scrape-off layer. Plasma Physics and Controlled Fusion, 0, , .	2.1	0
48	lon temperature anisotropy model with crossâ€field drifts in the scrapeâ€off layer. Contributions To Plasma Physics, 0, , .	1.1	0