

John A Krommes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/419566/publications.pdf>

Version: 2024-02-01

37
papers

1,351
citations

471509

17
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

691
citing authors

#	ARTICLE	IF	CITATIONS
1	An introduction to the physics of the Coulomb logarithm, with emphasis on quantum-mechanical effects. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	5
2	Projection-operator methods for classical transport in magnetized plasmas. Part 2. Nonlinear response and the Burnett equations. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	3
3	Projection-operator methods for classical transport in magnetized plasmas. Part 1. Linear response, the Braginskii equations and fluctuating hydrodynamics. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	8
4	A tutorial introduction to the statistical theory of turbulent plasmas, a half-century after Kadomtsev's Plasma Turbulence and the resonance-broadening theory of Dupree and Weinstock. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	15
5	Reduced-order model based feedback control of the modified Hasegawa-Wakatani model. <i>Physics of Plasmas</i> , 2013, 20, 042501.	1.9	6
6	The Gyrokinetic Description of Microturbulence in Magnetized Plasmas. <i>Annual Review of Fluid Mechanics</i> , 2012, 44, 175-201.	25.0	90
7	Advances and Current Challenges in the Theory of Zonal-Flow Generation. , 2010, , .		0
8	Plasma equilibrium in a magnetic field with stochastic regions. <i>Physics of Plasmas</i> , 2009, 16, 072308.	1.9	17
9	A quantitative account of electron energy transport in a National Spherical Tokamak Experiment plasma. <i>Physics of Plasmas</i> , 2008, 15, 056108.	1.9	29
10	Nonequilibrium gyrokinetic fluctuation theory and sampling noise in gyrokinetic particle-in-cell simulations. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	19
11	Analytical Descriptions of Plasma Turbulence. <i>World Scientific Lecture Notes in Complex Systems</i> , 2006, , 115-232.	0.1	6
12	Bifurcation theory of the transition to collisionless ion-temperature-gradient-driven plasma turbulence. <i>Physics of Plasmas</i> , 2005, 12, 122302.	1.9	13
13	Hamiltonian description of convective-cell generation. <i>Physics of Plasmas</i> , 2004, 11, L29-L32.	1.9	21
14	Comment on "Dynamics of zonal flow saturation in strong collisionless drift wave turbulence" [Phys. Plasmas 9, 4530 (2002)]. <i>Physics of Plasmas</i> , 2004, 11, 1744-1746.	1.9	2
15	Monte Carlo sampling of negative-temperature plasma states. <i>Physical Review E</i> , 2003, 67, 066402.	2.1	2
16	Fundamental statistical descriptions of plasma turbulence in magnetic fields. <i>Physics Reports</i> , 2002, 360, 1-352.	25.6	227
17	Linear delta-f simulations of nonlocal electron heat transport. <i>Physics of Plasmas</i> , 2000, 7, 2810-2823.	1.9	25
18	Collisional delta-f scheme with evolving background for transport time scale simulations. <i>Physics of Plasmas</i> , 1999, 6, 4504-4521.	1.9	100

#	ARTICLE	IF	CITATIONS
19	Submarginal profiles and turbulent transport: An exactly solvable model. <i>Physics of Plasmas</i> , 1997, 4, 1342-1356.	1.9	9
20	The realizable Markovian closure and realizable test-field model. II. Application to anisotropic drift-wave dynamics. <i>Physics of Plasmas</i> , 1997, 4, 3895-3909.	1.9	43
21	The clump lifetime revisited: Exact calculation of the second-order structure function for a model of forced, dissipative turbulence. <i>Physics of Plasmas</i> , 1997, 4, 655-673.	1.9	11
22	The role of dissipation in the theory and simulations of homogeneous plasma turbulence, and resolution of the entropy paradox. <i>Physics of Plasmas</i> , 1994, 1, 3211-3238.	1.9	88
23	Generalized weighting scheme for \hat{f} particle simulation method. <i>Physics of Plasmas</i> , 1994, 1, 863-874.	1.9	110
24	General theory of Onsager symmetries for perturbations of equilibrium and nonequilibrium steady states. <i>Physics of Fluids B</i> , 1993, 5, 3908-3941.	1.7	31
25	Equilibrium statistical constraints and the guiding-center plasma. <i>Physics of Fluids B</i> , 1993, 5, 650-653.	1.7	10
26	The realizable Markovian closure. I. General theory, with application to three-wave dynamics. <i>Physics of Fluids B</i> , 1993, 5, 3558-3589.	1.7	74
27	Dielectric response and thermal fluctuations in gyrokinetic plasma. <i>Physics of Fluids B</i> , 1993, 5, 1066-1100.	1.7	34
28	Advances in gyrokinetic fluctuation theory: The gyrokinetic fluctuation "dissipation theorem and dielectric function". <i>Physics of Fluids B</i> , 1993, 5, 2405-2411.	1.7	6
29	Advances in the analytical theory of plasma turbulence and transport: Realizable Markovian statistical closures. <i>Physics of Fluids B</i> , 1991, 3, 2186-2191.	1.7	14
30	Improved rigorous upper bounds for transport due to passive advection described by simple models of bounded systems. <i>Journal of Statistical Physics</i> , 1988, 53, 1103-1137.	1.2	17
31	Comments on "Theory of dissipative density-gradient-driven turbulence in the tokamak edge" [Phys. Fluids 28, 1419 (1985)]. <i>Physics of Fluids</i> , 1986, 29, 2756.	1.4	13
32	Equilibrium fluctuation energy of gyrokinetic plasma. <i>Physics of Fluids</i> , 1986, 29, 2421.	1.4	32
33	Plasma transport in stochastic magnetic fields. Part 3. Kinetics of test particle diffusion. <i>Journal of Plasma Physics</i> , 1983, 30, 11-56.	2.1	184
34	Turbulent "polarization" terms and the Balescu "Lenard operator. <i>Journal of Plasma Physics</i> , 1982, 27, 83-94.	2.1	7
35	Anomalous transport due to long-lived fluctuations in plasma Part 1. A general formalism for two-time fluctuations. <i>Journal of Plasma Physics</i> , 1976, 16, 193-227.	2.1	30
36	Anomalous transport due to long-lived fluctuations in plasma Part 2. Hydrodynamic contributions to transport in two-dimensional, strongly magnetized systems. <i>Journal of Plasma Physics</i> , 1976, 16, 229-260.	2.1	37

#	ARTICLE	IF	CITATIONS
37	Two new proofs of the test particle superposition principle of plasma kinetic theory. Physics of Fluids, 1976, 19, 649.	1.4	13