John A Krommes

List of Publications by Year
in descending order

37	1,351	471509 17	345221 36
papers	citations	h-index	g-index

37	37	37	691
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fundamental statistical descriptions of plasma turbulence in magnetic fields. Physics Reports, 2002, 360, 1-352.	25.6	227
2	Plasma transport in stochastic magnetic fields. Part 3. Kinetics of test particle diffusion. Journal of Plasma Physics, 1983, 30, 11-56.	2.1	184
3	Generalized weighting scheme for Îf particleâ€simulation method. Physics of Plasmas, 1994, 1, 863-874.	1.9	110
4	Collisional delta-f scheme with evolving background for transport time scale simulations. Physics of Plasmas, 1999, 6, 4504-4521.	1.9	100
5	The Gyrokinetic Description of Microturbulence in Magnetized Plasmas. Annual Review of Fluid Mechanics, 2012, 44, 175-201.	25.0	90
6	The role of dissipation in the theory and simulations of homogeneous plasma turbulence, and resolution of the entropy paradox. Physics of Plasmas, 1994, 1, 3211-3238.	1.9	88
7	The realizable Markovian closure. I. General theory, with application to threeâ€wave dynamics. Physics of Fluids B, 1993, 5, 3558-3589.	1.7	74
8	The realizable Markovian closure and realizable test-field model. II. Application to anisotropic drift-wave dynamics. Physics of Plasmas, 1997, 4, 3895-3909.	1.9	43
9	Anomalous transport due to long-lived fluctuations in plasma Part 2. Hydrodynamic contributions to transport in two-dimensional, strongly magnetized systems. Journal of Plasma Physics, 1976, 16, 229-260.	2.1	37
10	Dielectric response and thermal fluctuations in gyrokinetic plasma. Physics of Fluids B, 1993, 5, 1066-1100.	1.7	34
11	Equilibrium fluctuation energy of gyrokinetic plasma. Physics of Fluids, 1986, 29, 2421.	1.4	32
12	General theory of Onsager symmetries for perturbations of equilibrium and nonequilibrium steady states. Physics of Fluids B, 1993, 5, 3908-3941.	1.7	31
13	Anomalous transport due to long-lived fluctuations in plasma Part 1. A general formalism for two-time fluctuations. Journal of Plasma Physics, 1976, 16, 193-227.	2.1	30
14	A quantitative account of electron energy transport in a National Spherical Tokamak Experiment plasma. Physics of Plasmas, 2008, 15, 056108.	1.9	29
15	Linear delta-f simulations of nonlocal electron heat transport. Physics of Plasmas, 2000, 7, 2810-2823.	1.9	25
16	Hamiltonian description of convective-cell generation. Physics of Plasmas, 2004, 11, L29-L32.	1.9	21
17	Nonequilibrium gyrokinetic fluctuation theory and sampling noise in gyrokinetic particle-in-cell simulations. Physics of Plasmas, 2007, 14, .	1.9	19
18	Improved rigorous upper bounds for transport due to passive advection described by simple models of bounded systems. Journal of Statistical Physics, 1988, 53, 1103-1137.	1.2	17

#	Article	IF	Citations
19	Plasma equilibrium in a magnetic field with stochastic regions. Physics of Plasmas, 2009, 16, 072308.	1.9	17
20	A tutorial introduction to the statistical theory of turbulent plasmas, a half-century after Kadomtsevâ€™sPlasma Turbulenceand the resonance-broadening theory of Dupree andÂWeinstock. Journal of Plasma Physics, 2015, 81, .	2.1	15
21	Advances in the analytical theory of plasma turbulence and transport: Realizable Markovian statistical closures. Physics of Fluids B, 1991, 3, 2186-2191.	1.7	14
22	Two new proofs of the test particle superposition principle of plasma kinetic theory. Physics of Fluids, 1976, 19, 649.	1.4	13
23	Comments on â€˜â€˜Theory of dissipative density-gradient-driven turbulence in the tokamak edgeâ€™â€™ [Phys. Fluids 28, 1419 (1985)]. Physics of Fluids, 1986, 29, 2756.	1.4	13
24	Bifurcation theory of the transition to collisionless ion-temperature-gradient-driven plasma turbulence. Physics of Plasmas, 2005, 12, 122302.	1.9	13
25	The clump lifetime revisited: Exact calculation of the second-order structure function for a model of forced, dissipative turbulence. Physics of Plasmas, 1997, 4, 655-673.	1.9	11
26	Equilibrium statistical constraints and the guidingâ€•center plasma. Physics of Fluids B, 1993, 5, 650-653.	1.7	10
27	Submarginal profiles and turbulent transport: An exactly solvable model. Physics of Plasmas, 1997, 4, 1342-1356.	1.9	9
28	Projection-operator methods for classical transport in magnetized plasmas. Part 1. Linear response, the Braginskii equations and fluctuating hydrodynamics. Journal of Plasma Physics, 2018, 84, .	2.1	8
29	Turbulent â€˜polarizationâ€™ terms and the Balescuâ€“Lenard operator. Journal of Plasma Physics, 1982, 27, 83-94.	2.1	7
30	Advances in gyrokinetic fluctuation theory: The gyrokinetic fluctuationâ€“dissipation theorem and dielectric function*. Physics of Fluids B, 1993, 5, 2405-2411.	1.7	6
31	Reduced-order model based feedback control of the modified Hasegawa-Wakatani model. Physics of Plasmas, 2013, 20, 042501.	1.9	6
32	Analytical Descriptions of Plasma Turbulence. World Scientific Lecture Notes in Complex Systems, 2006, , 115-232.	0.1	6
33	An introduction to the physics of the CoulombÂlogarithm, with emphasis on quantum-mechanical effects. Journal of Plasma Physics, 2019, 85, .	2.1	5
34	Projection-operator methods for classical transport in magnetized plasmas. Part 2. Nonlinear response and the Burnett equations. Journal of Plasma Physics, 2018, 84, .	2.1	3
35	Monte Carlo sampling of negative-temperature plasma states. Physical Review E, 2003, 67, 066402.	2.1	2
36	Comment on â€œDynamics of zonal flow saturation in strong collisionless drift wave turbulenceâ€• [Phys. Plasmas 9, 4530 (2002)]. Physics of Plasmas, 2004, 11, 1744-1746.	1.9	2

#	Article	IF	Citations
37	Advances and Current Challenges in the Theory of Zonal-Flow Generation. , 2010, , .		0