

Philip J Morrison

List of Publications by Year in descending order

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169
papers

6,518
citations

81743

39
h-index

79541

73
g-index

181
all docs

181
docs citations

181
times ranked

1839
citing authors

#	ARTICLE	IF	CITATIONS
1	Hamiltonian description of the ideal fluid. <i>Reviews of Modern Physics</i> , 1998, 70, 467-521.	16.4	632
2	Noncanonical Hamiltonian Density Formulation of Hydrodynamics and Ideal Magnetohydrodynamics. <i>Physical Review Letters</i> , 1980, 45, 790-794.	2.9	374
3	The Maxwell-Vlasov equations as a continuous hamiltonian system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 80, 383-386.	0.9	264
4	Chaotic transport by Rossby waves in shear flow. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 948-965.	1.6	227
5	A four-field model for tokamak plasma dynamics. <i>Physics of Fluids</i> , 1985, 28, 2466.	1.4	186
6	Bracket formulation for irreversible classical fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984, 100, 423-427.	0.9	171
7	Area preserving nontwist maps: periodic orbits and transition to chaos. <i>Physica D: Nonlinear Phenomena</i> , 1996, 91, 1-23.	1.3	169
8	A paradigm for joined Hamiltonian and dissipative systems. <i>Physica D: Nonlinear Phenomena</i> , 1986, 18, 410-419.	1.3	166
9	A discontinuous Galerkin method for the Vlasov-Poisson system. <i>Journal of Computational Physics</i> , 2012, 231, 1140-1174.	1.9	130
10	Magnetic field lines, Hamiltonian dynamics, and nontwist systems. <i>Physics of Plasmas</i> , 2000, 7, 2279-2289.	0.7	125
11	Poisson brackets for fluids and plasmas. , 1982, , .		121
12	Hamiltonian formulation of reduced magnetohydrodynamics. <i>Physics of Fluids</i> , 1984, 27, 886.	1.4	121
13	Hamiltonian four-field model for nonlinear tokamak dynamics. <i>Physics of Fluids</i> , 1987, 30, 3204.	1.4	96
14	GEMPIC: geometric electromagnetic particle-in-cell methods. <i>Journal of Plasma Physics</i> , 2017, 83, .	0.7	95
15	Hamiltonian and action principle formulations of plasma physics. <i>Physics of Plasmas</i> , 2005, 12, 058102.	0.7	93
16	Self-consistent chaos in the beam-plasma instability. <i>Physica D: Nonlinear Phenomena</i> , 1994, 71, 1-17.	1.3	88
17	Study of conservation and recurrence of Runge-Kutta discontinuous Galerkin schemes for Vlasov-Poisson systems. <i>Journal of Scientific Computing</i> , 2013, 56, 319-349.	1.1	88
18	Noncanonical Hamiltonian Density Formulation of Hydrodynamics and Ideal Magnetohydrodynamics.. <i>Physical Review Letters</i> , 1982, 48, 569-569.	2.9	81

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19	Fluid element relabeling symmetry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 219, 287-292.	0.9	76
20	Structure and structure-preserving algorithms for plasma physics. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	74
21	Renormalization and transition to chaos in area preserving nontwist maps. <i>Physica D: Nonlinear Phenomena</i> , 1997, 100, 311-329.	1.3	73
22	Classification and Casimir invariants of Lieâ€™Poisson brackets. <i>Physica D: Nonlinear Phenomena</i> , 2000, 136, 205-244.	1.3	67
23	Free-energy expressions for Vlasov equilibria. <i>Physical Review A</i> , 1989, 40, 3898-3910.	1.0	61
24	The free energy of Maxwellâ€™Vlasov equilibria. <i>Physics of Fluids B</i> , 1990, 2, 1105-1113.	1.7	61
25	Drift wave test particle transport in reversed shear profile. <i>Physics of Plasmas</i> , 1998, 5, 3910-3917.	0.7	60
26	Action principles for the Vlasov equation. <i>Physics of Fluids B</i> , 1992, 4, 771-777.	1.7	59
27	A generalized reduced fluid model with finite ion-gyroradius effects. <i>Physics of Fluids</i> , 1986, 29, 1480.	1.4	55
28	Hamiltonian formulation and analysis of a collisionless fluid reconnection model. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 085014.	0.9	54
29	Covariant poisson brackets for classical fields. <i>Annals of Physics</i> , 1986, 169, 29-47.	1.0	53
30	Dielectric energy versus plasma energy, and Hamiltonian actionâ€™angle variables for the Vlasov equation. <i>Physics of Fluids B</i> , 1992, 4, 3038-3057.	1.7	51
31	Meanders and reconnectionâ€™collision sequences in the standard nontwist map. <i>Chaos</i> , 2005, 15, 023108.	1.0	51
32	Linear stability of stationary solutions of the Vlasov-Poisson system in three dimensions. <i>Archive for Rational Mechanics and Analysis</i> , 1995, 130, 163-182.	1.1	49
33	Discontinuous Galerkin Methods for the Vlasov-Maxwell Equations. <i>SIAM Journal on Numerical Analysis</i> , 2014, 52, 1017-1049.	1.1	46
34	On energy conservation in extended magnetohydrodynamics. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	46
35	The effect of viscosity on the resistive tearing mode with the presence of shear flow. <i>Physics of Fluids B</i> , 1990, 2, 2575-2580.	1.7	45
36	Hamiltonian moment reduction for describing vortices in shear. <i>Physics of Fluids</i> , 1997, 9, 2310-2328.	1.6	44

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37	A Hamiltonian electromagnetic gyrofluid model. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	43
38	A general theory for gauge-free lifting. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	43
39	Comments on: The Maxwell-Vlasov equations as a continuous hamiltonian system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 86, 235-236.	0.9	42
40	Local conservation laws for the Maxwell-Vlasov and collisionless kinetic guiding-center theories. <i>Physical Review A</i> , 1985, 32, 1714-1721.	1.0	42
41	Quantum mechanics as a generalization of Nambu dynamics to the Weyl-Wigner formalism. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 158, 453-457.	0.9	39
42	Hamiltonian magnetohydrodynamics: Helically symmetric formulation, Casimir invariants, and equilibrium variational principles. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	38
43	Concomitant Hamiltonian and topological structures of extended magnetohydrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2400-2406.	0.9	38
44	Undamped electrostatic plasma waves. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	37
45	MHD equilibrium variational principles with symmetry. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 055001.	0.9	36
46	Hybrid Vlasov-MHD models: Hamiltonian vs. non-Hamiltonian. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 095008.	0.9	36
47	Variational Principle and Stability of Nonmonotonic Vlasov-Poisson Equilibria. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1987, 42, 1115-1123.	0.7	34
48	Reduction of chaotic particle transport driven by drift waves in sheared flows. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	34
49	Hamiltonian four-field model for magnetic reconnection: nonlinear dynamics and extension to three dimensions with externally applied fields. <i>Nuclear Fusion</i> , 2010, 50, 034007.	1.6	34
50	Hamiltonian gyrokinetic Vlasov-Maxwell system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2073-2077.	0.9	34
51	Drift wave vortices in inhomogeneous plasmas. <i>Physics of Fluids B</i> , 1991, 3, 921-930.	1.7	33
52	Hamiltonian description of Vlasov dynamics: Action-angle variables for the continuous spectrum. <i>Transport Theory and Statistical Physics</i> , 2000, 29, 397-414.	0.4	33
53	Action principles for extended magnetohydrodynamic models. <i>Physics of Plasmas</i> , 2014, 21, 092118.	0.7	33
54	Nonlinear instability and chaos in plasma wave-wave interactions. I. Introduction. <i>Physics of Plasmas</i> , 1995, 2, 1926-1940.	0.7	31

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55	Renormalization and destruction of $1/\tilde{\nu}^2$ tori in the standard nontwist map. <i>Chaos</i> , 2003, 13, 421-433.	1.0	30
56	The energy-momentum tensor for the linearized Maxwell-Vlasov and kinetic guiding center theories. <i>Physics of Fluids B</i> , 1991, 3, 271-283.	1.7	29
57	Effective transport barriers in nontwist systems. <i>Physical Review E</i> , 2012, 86, 036206.	0.8	29
58	Hamiltonian magnetohydrodynamics: Lagrangian, Eulerian, and dynamically accessible stability Theory. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	29
59	Remarkable connections between extended magnetohydrodynamics models. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	29
60	Spontaneous symmetry breaking and neutral stability in the noncanonical Hamiltonian formalism. <i>Physical Review A</i> , 1986, 33, 4205-4214.	1.0	28
61	A sufficient condition for the ideal instability of shear flow with parallel magnetic field. <i>Physics of Fluids B</i> , 1991, 3, 863-865.	1.7	27
62	Thoughts on brackets and dissipation: Old and new. <i>Journal of Physics: Conference Series</i> , 2009, 169, 012006.	0.3	26
63	Explicit high-order noncanonical symplectic algorithms for ideal two-fluid systems. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	26
64	Exactly Conservative Integrators. <i>SIAM Journal on Applied Mathematics</i> , 1998, 59, 1112-1133.	0.8	25
65	Breakup of shearless meanders and outer-tori in the standard nontwist map. <i>Chaos</i> , 2006, 16, 033120.	1.0	25
66	A unified approach to the Darwin approximation. <i>Physics of Plasmas</i> , 2007, 14, 102112.	0.7	24
67	Hamiltonian and action formalisms for two-dimensional gyroviscous magnetohydrodynamics. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	24
68	Electromagnetic solitary waves in magnetized plasmas. <i>Journal of Plasma Physics</i> , 1985, 34, 103-114.	0.7	23
69	On the Hamiltonian formulation of incompressible ideal fluids and magnetohydrodynamics via Dirac's theory of constraints. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 737-743.	0.9	23
70	Inertial magnetohydrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 570-576.	0.9	23
71	Hamiltonian formulation and coherent structures in electrostatic turbulence. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, 1331-1350.	0.9	22
72	Nonlinear three-mode interaction and drift-wave turbulence in a tokamak edge plasma. <i>Physics of Plasmas</i> , 2006, 13, 042510.	0.7	22

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73	Derivation of the Hall and extended magnetohydrodynamics brackets. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	22
74	Hamiltonian Fluid Dynamics. , 2006, , 593-600.		21
75	Hamiltonian derivation of the Charneyâ€“Hasegawaâ€“Mima equation. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	21
76	Algebraic structure of the plasma quasilinear equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1982, 88, 405-406.	0.9	20
77		0.7	20
78	The Hamiltonian description of incompressible fluid ellipsoids. <i>Annals of Physics</i> , 2009, 324, 1747-1762.	1.0	20
79	Hamiltonianâ€“Dirac simulated annealing: Application to the calculation of vortex states. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 212-232.	1.3	20
80	Finite-time rotation number: A fast indicator for chaotic dynamical structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 452-456.	0.9	20
81	Nonlinear interactions of tearing modes in the presence of shear flow. <i>Physics of Fluids B</i> , 1992, 4, 845-854.	1.7	19
82	Strong echo effect and nonlinear transient growth in shear flows. <i>Physics of Fluids</i> , 1998, 10, 1398-1404.	1.6	19
83	On the use of projectors for Hamiltonian systems and their relationship with Dirac brackets. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 125203.	0.7	19
84	Singular Casimir Elements of the Euler Equation and Equilibrium Points. <i>Journal of Mathematical Fluid Mechanics</i> , 2014, 16, 41-57.	0.4	19
85	Higher-order Hamiltonian fluid reduction of Vlasov equation. <i>Annals of Physics</i> , 2014, 348, 50-63.	1.0	18
86	Hamiltonian closures for fluid models with four moments by dimensional analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 275501.	0.7	18
87	Action principles for relativistic extended magnetohydrodynamics: A unified theory of magnetofluid models. <i>Physics of Plasmas</i> , 2017, 24, 022103.	0.7	18
88	Drift wave vortices in nonuniform plasmas with sheared magnetic fields. <i>Physics of Fluids B</i> , 1992, 4, 1238-1246.	1.7	17
89	Theory and applications of the Vlasov equation. <i>European Physical Journal D</i> , 2015, 69, 1.	0.6	17
90	Spectral Reduction: A Statistical Description of Turbulence. <i>Physical Review Letters</i> , 1999, 83, 5491-5494.	2.9	16

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91	Statistical mechanics of two-dimensional turbulence. Journal of Fluid Mechanics, 2006, 554, 433.	1.4	16
92	On Hamiltonian and Action Principle Formulations of Plasma Dynamics. , 2009, , .		16
93	Stability of compressible reduced magnetohydrodynamic equilibria—Analogy with magnetorotational instability. Physics of Plasmas, 2013, 20, .	0.7	16
94	Nonlinear instability and chaos in plasma wave—wave interactions. II. Numerical methods and results. Physics of Plasmas, 1995, 2, 4149-4160.	0.7	15
95	A Hamiltonian five-field gyrofluid model. Physics of Plasmas, 2015, 22, .	0.7	14
96	Existence and calculation of sharp boundary magnetohydrodynamic equilibrium in three-dimensional toroidal geometry. Physics of Fluids, 1986, 29, 3281.	1.4	13
97	Elliptical vortices in shear: Hamiltonian moment formulation and Melnikov analysis. Physics of Fluids, 1996, 8, 896-913.	1.6	13
98	Bounds on dissipation in magnetohydrodynamic Couette and Hartmann shear flows. Physics of Plasmas, 2003, 10, 4324-4334.	0.7	13
99	Multiwave model for plasma—wave interaction. Physics of Plasmas, 2003, 10, 4090-4094.	0.7	13
100	Renormalization for breakup of invariant tori. Physica D: Nonlinear Phenomena, 2005, 200, 47-59.	1.3	13
101	A relativistic beam-plasma system with electromagnetic waves. Physics of Plasmas, 2005, 12, 072108.	0.7	13
102	Hamiltonian formulation of the modified Hasegawa—Mima equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 956-959.	0.9	13
103	The action principle for generalized fluid motion including gyroviscosity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3526-3532.	0.9	13
104	A hierarchy of noncanonical Hamiltonian systems: circulation laws in an extended phase space. Fluid Dynamics Research, 2014, 46, 031412.	0.6	13
105	Hamiltonian magnetohydrodynamics: Lagrangian, Eulerian, and dynamically accessible stability—Examples with translation symmetry. Physics of Plasmas, 2016, 23, 102112.	0.7	13
106	Rattleback: A model of how geometric singularity induces dynamic chirality. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2772-2777.	0.9	13
107	A general metriplectic framework with application to dissipative extended magnetohydrodynamics. Journal of Plasma Physics, 2020, 86, .	0.7	13
108	Canonization and Diagonalization of an Infinite Dimensional Noncanonical Hamiltonian System: Linear Vlasov Theory. Acta Physica Polonica A, 1994, 85, 759-769.	0.2	13

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109	Hamiltonian Formulation of Two-Dimensional Gyroviscous MHD. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1984, 39, 1023-1027.	0.7	12
110	Poisson bracket for the Vlasov equation on a symplectic leaf. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 96-100.	0.9	12
111	Local thermodynamics of a magnetized, anisotropic plasma. Physics of Plasmas, 2013, 20, 022506.	0.7	12
112	Epi-Two-Dimensional Fluid Flow: A New Topological Paradigm for Dimensionality. Physical Review Letters, 2017, 119, 244501.	2.9	12
113	Unsteady Stokes flow near boundaries: the point-particle approximation and the method of reflections. Journal of Fluid Mechanics, 2018, 841, 883-924.	1.4	12
114	Hamiltonian Description of Fluid and Plasma Systems with Continuous Spectra. , 2003, , 53-69.		12
115	Derivation of reduced two-dimensional fluid models via Dirac's theory of constrained Hamiltonian systems. Physics of Plasmas, 2010, 17, 042307.	0.7	11
116	Gradient Flows in the Normal and Kähler Metrics and Triple Bracket Generated Metriplectic Systems. Springer Proceedings in Mathematics and Statistics, 2013, , 371-415.	0.1	11
117	Response to "Comment on "Undamped electrostatic plasma waves" [Phys. Plasmas 20, 034701 (2013)]. Physics of Plasmas, 2013, 20, 034702.	0.7	11
118	Explosive magnetic reconnection caused by an X-shaped current-vortex layer in a collisionless plasma. Physics of Plasmas, 2015, 22, .	0.7	11
119	On the structure and statistical theory of turbulence of extended magnetohydrodynamics. New Journal of Physics, 2017, 19, 015007.	1.2	11
120	The twisted top. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 335-341.	0.9	10
121	Deformation of vortex patches by boundaries. Physics of Fluids, 2013, 25, .	1.6	10
122	Nonlinear variational method for predicting fast collisionless magnetic reconnection. Nuclear Fusion, 2013, 53, 063024.	1.6	10
123	Lifting of the Vlasov's "Maxwell bracket by Lie-transform method. Journal of Plasma Physics, 2016, 82, .	0.7	10
124	Structure and computation of two-dimensional incompressible extended MHD. Physics of Plasmas, 2017, 24, .	0.7	10
125	Translationally symmetric extended MHD via Hamiltonian reduction: Energy-Casimir equilibria. Physics of Plasmas, 2017, 24, .	0.7	10
126	On the fluctuation spectrum of plasma. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 130-140.	1.7	9

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127	On Krein-Like Theorems for Noncanonical Hamiltonian Systems with Continuous Spectra: Application to Vlasov-Poisson. <i>Transport Theory and Statistical Physics</i> , 2010, 39, 466-501.	0.4	9
128	Caldeira's Leggett model, Landau damping, and the Vlasov-Poisson system. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1652-1660.	1.3	9
129	Gauge-free Hamiltonian structure of the spin Maxwell-Vlasov equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2362-2365.	0.9	9
130	Weakly nonlinear dynamics in noncanonical Hamiltonian systems with applications to fluids and plasmas. <i>Annals of Physics</i> , 2016, 368, 117-147.	1.0	9
131	Energy-Casimir, dynamically accessible, and Lagrangian stability of extended magnetohydrodynamic equilibria. <i>Physics of Plasmas</i> , 2020, 27, 012104.	0.7	9
132	Wave energy flow conservation for propagation in inhomogeneous Vlasov-Maxwell equilibria. <i>Physics of Fluids B</i> , 1989, 1, 55-61.	1.7	8
133	Invariants and Labels in Lie-Poisson Systems. <i>Annals of the New York Academy of Sciences</i> , 1998, 867, 109-119.	1.8	8
134	Bounds on dissipation in magnetohydrodynamic problems in plane shear geometry. <i>Physics of Plasmas</i> , 2003, 10, 4314-4323.	0.7	8
135	Direction of cascades in a magnetofluid model with electron skin depth and ion sound Larmor radius scales. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	8
136	Jovian Vortices and Jets. <i>Fluids</i> , 2019, 4, 104.	0.8	8
137	Lagrangian and Dirac constraints for the ideal incompressible fluid and magnetohydrodynamics. <i>Journal of Plasma Physics</i> , 2020, 86, .	0.7	8
138	Experimental determination of radiated internal wave power without pressure field data. <i>Physics of Fluids</i> , 2014, 26, 046606.	1.6	7
139	Energy-Casimir stability of hybrid Vlasov-MHD models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 185501.	0.7	7
140	Hierarchical structure of noncanonical Hamiltonian systems. <i>Physica Scripta</i> , 2016, 91, 024001.	1.2	7
141	Simulated annealing for three-dimensional low-beta reduced MHD equilibria in cylindrical geometry. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 054001.	0.9	7
142	Helically symmetric extended magnetohydrodynamics: Hamiltonian formulation and equilibrium variational principles. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	7
143	Metriplectic torque for rotation control of a rigid body. <i>Cybernetics and Physics</i> , 2018, , 78-86.	0.2	7
144	Variational necessary and sufficient stability conditions for inviscid shear flow. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140322.	1.0	6

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145	Internal wave energy flux from density perturbations in nonlinear stratifications. Journal of Fluid Mechanics, 2018, 856, 898-920.	1.4	6
146	Deformation of Lie-Poisson algebras and chirality. Journal of Mathematical Physics, 2020, 61, 082901.	0.5	6
147	Transport Barriers in Symplectic Maps. Brazilian Journal of Physics, 2021, 51, 899-909.	0.7	6
148	Mode signature and stability for a Hamiltonian model of electron temperature gradient turbulence. Physics of Plasmas, 2011, 18, .	0.7	5
149	Lifting particle coordinate changes of magnetic moment type to Vlasov-Maxwell Hamiltonian dynamics. Physics of Plasmas, 2013, 20, 032109.	0.7	5
150	A method for Hamiltonian truncation: a four-wave example. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 165501.	0.7	5
151	Hamiltonian nature of monopole dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126101.	0.9	5
152	Hamiltonian kinetic-Hall magnetohydrodynamics with fluid and kinetic ions in the current and pressure coupling schemes. Journal of Plasma Physics, 2021, 87, .	0.7	5
153	An integral transform technique for kinetic systems with collisions. Physics of Plasmas, 2018, 25, 082118.	0.7	4
154	A class of three-dimensional gyroviscous magnetohydrodynamic models. Journal of Plasma Physics, 2020, 86, .	0.7	4
155	Exact solutions for a system of nonlinear plasma fluid equations. Physics of Fluids B, 1992, 4, 831-840.	1.7	3
156	On a new fixed point of the renormalization group operator for area-preserving maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 437-441.	0.9	3
157	Calculation of large-aspect-ratio tokamak and toroidally-averaged stellarator equilibria of high-beta reduced magnetohydrodynamics via simulated annealing. Physics of Plasmas, 2018, 25, 082506.	0.7	3
158	HAMILTONIAN STRUCTURE OF A COLLISIONLESS RECONNECTION MODEL VALID FOR HIGH AND LOW β^2 PLASMAS. , 2007, , .		3
159	Multiscale equatorial electrojet turbulence: Energy conservation, coupling, and cascades in a baseline fluid model. Journal of Geophysical Research: Space Physics, 2016, 121, 9127-9145.	0.8	2
160	Symplectic Maps for Diverted Plasmas. IEEE Transactions on Plasma Science, 2018, 46, 2354-2361.	0.6	2
161	Relaxation to magnetohydrodynamics equilibria via collision brackets. Journal of Physics: Conference Series, 2018, 1125, 012002.	0.3	2
162	Ellipticity conditions for the extended MHD Grad-Shafranov-Bernoulli equilibrium equations. Physics of Plasmas, 2019, 26, .	0.7	2

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163	The kinetic origin of the fluid helicityâ€™A symmetry in the kinetic phase space. Journal of Mathematical Physics, 2022, 63, 023101.	0.5	2
164	Beatification: Flattening the Poisson bracket for two-dimensional fluid and plasma theories. Physics of Plasmas, 2017, 24, 032102.	0.7	1
165	Singular Eigenfunctions and an Integral Transform for Shear Flow. Lecture Notes in Physics, 2002, , 238-247.	0.3	1
166	Localized profiles of optical beams in plasma. AIP Conference Proceedings, 1989, , .	0.3	0
167	Quantum Mechanics as a Generalization of Nambu Dynamics to the Weyl-Wigner Formalism. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1997, 52, 9-12.	0.7	0
168	Plasma turbulence in the equatorial electrojet: A two-dimensional Hamiltonian fluid model. Physics of Plasmas, 2017, 24, 072301.	0.7	0
169	Clebsch canonization of Lieâ€™Poisson systems. Journal of Geometric Mechanics, 2022, 14, 635-658.	0.5	0