Edward Ott

List of Publications by Year
in descending order

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523 papers	43,628 citations	2318 98 h-index	3181 186 g-index
542 all docs	542 docs citations	542 times ranked	13477 citing authors

#	Article	IF	Citations
1	Controlling chaos. Physical Review Letters, 1990, 64, 1196-1199.	2.9	5,062
2	Crises, sudden changes in chaotic attractors, and transient chaos. Physica D: Nonlinear Phenomena, 1983, 7, 181-200.	1.3	1,073
3	Using small perturbations to control chaos. Nature, 1993, 363, 411-417.	13.7	806
4	The dimension of chaotic attractors. Physica D: Nonlinear Phenomena, 1983, 7, 153-180.	1.3	802
5	Low dimensional behavior of large systems of globally coupled oscillators. Chaos, 2008, 18, 037113.	1.0	750
6	Model-Free Prediction of Large Spatiotemporally Chaotic Systems from Data: A Reservoir Computing Approach. Physical Review Letters, 2018, 120, 024102.	2.9	712
7	Chaotic Attractors in Crisis. Physical Review Letters, 1982, 48, 1507-1510.	2.9	708
8	Self-focusing of short intense pulses in plasmas. Physics of Fluids, 1987, 30, 526.	1.4	603
9	Communicating with chaos. Physical Review Letters, 1993, 70, 3031-3034.	2.9	511
10	Critical exponents for crisis-induced intermittency. Physical Review A, 1987, 36, 5365-5380.	1.0	499
11	Strange attractors that are not chaotic. Physica D: Nonlinear Phenomena, 1984, 13, 261-268.	1.3	486
12	Blowout bifurcations: the occurrence of riddled basins and on-off intermittency. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 188, 39-47.	0.9	478
13	Crowd synchrony on the Millennium Bridge. Nature, 2005, 438, 43-44.	13.7	474
14	Fractal basin boundaries. Physica D: Nonlinear Phenomena, 1985, 17, 125-153.	1.3	472
15	Strange attractors and chaotic motions of dynamical systems. Reviews of Modern Physics, 1981, 53, 655-671.	16.4	445
16	Long time evolution of phase oscillator systems. Chaos, 2009, 19, 023117.	1.0	386
17	Controlling chaotic dynamical systems. Physica D: Nonlinear Phenomena, 1992, 58, 165-192.	1.3	384
18	Dimension of Strange Attractors. Physical Review Letters, 1980, 45, 1175-1178.	2.9	382

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19	Chaos, Strange Attractors, and Fractal Basin Boundaries in Nonlinear Dynamics. Science, 1987, 238, 632-638.	6.0	381
20	Using machine learning to replicate chaotic attractors and calculate Lyapunov exponents from data. Chaos, 2017, 27, 121102.	1.0	376
21	A local ensemble Kalman filter for atmospheric data assimilation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 415-428.	0.8	366
22	Using chaos to direct trajectories to targets. Physical Review Letters, 1990, 65, 3215-3218.	2.9	353
23	Final state sensitivity: An obstruction to predictability. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 415-418.	0.9	349
24	Theory and Simulation of Turbulent Heating by the Modified Two-Stream Instability. Physics of Fluids, 1972, 15, 2367.	1.4	346
25	A local ensemble Kalman filter for atmospheric data assimilation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 56, 415.	0.8	332
26	Unstable periodic orbits and the dimensions of multifractal chaotic attractors. Physical Review A, 1988, 37, 1711-1724.	1.0	298
27	Fractal Basin Boundaries, Long-Lived Chaotic Transients, and Unstable-Unstable Pair Bifurcation. Physical Review Letters, 1983, 50, 935-938.	2.9	279
28	Grazing bifurcations in impact oscillators. Physical Review E, 1994, 50, 4427-4444.	0.8	264
29	Experimental Control of Chaos for Communication. Physical Review Letters, 1994, 73, 1781-1784.	2.9	258
30	Critical Exponent of Chaotic Transients in Nonlinear Dynamical Systems. Physical Review Letters, 1986, 57, 1284-1287.	2.9	250
31	Onset of synchronization in large networks of coupled oscillators. Physical Review E, 2005, 71, 036151.	0.8	248
32	Border-collision bifurcations: An explanation for observed bifurcation phenomena. Physical Review E, 1994, 49, 1073-1076.	0.8	240
33	Strange attractors and chaotic motions of dynamical systems. , 1981, , 103-119.		238
34	Exact results for the Kuramoto model with a bimodal frequency distribution. Physical Review E, 2009, 79, 026204.	0.8	230
35	Attractor reconstruction by machine learning. Chaos, 2018, 28, 061104.	1.0	222
36	Markov-Tree Model of Intrinsic Transport in Hamiltonian Systems. Physical Review Letters, 1985, 55, 2741-2744.	2.9	217

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37	Transition to Phase Synchronization of Chaos. Physical Review Letters, 1998, 80, 1642-1645.	2.9	217
38	Hybrid forecasting of chaotic processes: Using machine learning in conjunction with a knowledge-based model. Chaos, 2018, 28, 041101.	1.0	212
39	Theory of Rayleighâ€Taylor bubbles in the equatorial ionosphere. Journal of Geophysical Research, 1978, 83, 2066-2070.	3.3	208
40	Border-collision bifurcations in the buck converter. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 707-716.	0.1	202
41	Markov tree model of transport in area-preserving maps. Physica D: Nonlinear Phenomena, 1986, 20, 387-402.	1.3	200
42	Reservoir observers: Model-free inference of unmeasured variables in chaotic systems. Chaos, 2017, 27, 041102.	1.0	200
43	Characterizing the Dynamical Importance of Network Nodes and Links. Physical Review Letters, 2006, 97, 094102.	2.9	199
44	Transition to chaos for random dynamical systems. Physical Review Letters, 1990, 65, 2935-2938.	2.9	185
45	Experimental observation of a strange nonchaotic attractor. Physical Review Letters, 1990, 65, 533-536.	2.9	183
46	Toroidal and scattering effects on lower-hybrid wave propagation. Physics of Fluids, 1982, 25, 359.	1.4	175
47	Controlling chaos in high dimensional systems. Physical Review Letters, 1992, 69, 3479-3482.	2.9	174
48	Differentiable generalized synchronization of chaos. Physical Review E, 1997, 55, 4029-4034.	0.8	172
49	Estimating correlation dimension from a chaotic time series: when does plateau onset occur?. Physica D: Nonlinear Phenomena, 1993, 69, 404-424.	1.3	170
50	The transition to chaotic attractors with riddled basins. Physica D: Nonlinear Phenomena, 1994, 76, 384-410.	1.3	170
51	Effect of Noise on Time-Dependent Quantum Chaos. Physical Review Letters, 1984, 53, 2187-2190.	2.9	168
52	Basin boundary metamorphoses: Changes in accessible boundary orbits. Physica D: Nonlinear Phenomena, 1987, 24, 243-262.	1.3	165
53	Chaotic scattering: An introduction. Chaos, 1993, 3, 417-426.	1.0	162
54	Evolution of attractors in quasiperiodically forced systems: From quasiperiodic to strange nonchaotic to chaotic. Physical Review A, 1989, 39, 2593-2598.	1.0	160

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55	Bifurcation to chaotic scattering. Physica D: Nonlinear Phenomena, 1990, 46, 87-121.	1.3	160
56	Nonlinear Evolution of the Rayleigh-Taylor Instability of a Thin Layer. Physical Review Letters, 1972, 29, 1429-1432.	2.9	158
57	Wave Chaos Experiments with and without Time Reversal Symmetry: GUE and GOE Statistics. Physical Review Letters, 1995, 74, 2662-2665.	2.9	157
58	Local Low Dimensionality of Atmospheric Dynamics. Physical Review Letters, 2001, 86, 5878-5881.	2.9	155
59	Strange nonchaotic attractors of the damped pendulum with quasiperiodic forcing. Physical Review A, 1987, 35, 4404-4413.	1.0	152
60	Theory of magnetic insulation. Physics of Fluids, 1974, 17, 1263.	1.4	151
61	Detecting Phase Synchronization in a Chaotic Laser Array. Physical Review Letters, 2001, 87, 044101.	2.9	149
62	Bifurcation and â€™â€™strangeâ€™â€™ behavior in instability saturation by nonlinear three-wave mode coupling. Physics of Fluids, 1980, 23, 1142.	1.4	147
63	A physical system with qualitatively uncertain dynamics. Nature, 1993, 365, 138-140.	13.7	147
64	A local ensemble transform Kalman filter data assimilation system for the NCEP global model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 113-130.	0.8	146
65	Plateau onset for correlation dimension: When does it occur?. Physical Review Letters, 1993, 70, 3872-3875.	2.9	145
66	Interaction of electromagnetic waves with a moving ionization front. Physics of Fluids, 1978, 21, 42.	1.4	143
67	Scaling behavior of chaotic systems with riddled basins. Physical Review Letters, 1993, 71, 4134-4137.	2.9	143
68	Quasiperiodically Forced Damped Pendula and SchrÃ¶dinger Equations with Quasiperiodic Potentials: Implications of Their Equivalence. Physical Review Letters, 1985, 55, 2103-2106.	2.9	140
69	Detecting Unstable Periodic Orbits in Chaotic Experimental Data. Physical Review Letters, 1996, 76, 4705-4708.	2.9	140
70	Using the sensitive dependence of chaos (the â€˜â€˜butterfly effectâ€™â€™) to direct trajectories in an experimental chaotic system. Physical Review Letters, 1992, 68, 2863-2866.	2.9	136
71	Metamorphoses of Basin Boundaries in Nonlinear Dynamical Systems. Physical Review Letters, 1986, 56, 1011-1014.	2.9	134
72	Modeling walker synchronization on the Millennium Bridge. Physical Review E, 2007, 75, 021110.	0.8	134

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73	Adaptive Synchronization of Dynamics on Evolving Complex Networks. Physical Review Letters, 2008, 100, 114101.	2.9	134
74	Strange saddles and the dimensions of their invariant manifolds. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 127, 199-204.	0.9	131
75	Particles Floating on a Moving Fluid: A Dynamically Comprehensible Physical Fractal. Science, 1993, 259, 335-339.	6.0	130
76	The role of chaotic orbits in the determination of power spectra of passive scalars. Physics of Fluids, 1996, 8, 3094-3104.	1.6	129
77	Four-dimensional ensemble Kalman filtering. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 273-277.	0.8	129
78	Theoretical mechanics: Crowd synchrony on the Millennium Bridge. Nature, 2005, 438, 43-44.	13.7	129
79	Fractal boundaries for exit in Hamiltonian dynamics. Physical Review A, 1988, 38, 930-938.	1.0	126
80	Routes to chaotic scattering. Physical Review Letters, 1989, 63, 919-922.	2.9	126
81	Universal Impedance Fluctuations in Wave Chaotic Systems. Physical Review Letters, 2005, 94, 014102.	2.9	123
82	Chaotic flows and fast magnetic dynamos. Physics of Fluids, 1988, 31, 2992.	1.4	122
83	Transitions to Bubbling of Chaotic Systems. Physical Review Letters, 1996, 77, 5361-5364.	2.9	122
84	Preserving chaos: Control strategies to preserve complex dynamics with potential relevance to biological disorders. Physical Review E, 1995, 51, 102-110.	0.8	121
85	Bubbling transition. Physical Review E, 1996, 54, 1346-1360.	0.8	119
86	Network synchronization of groups. Physical Review E, 2007, 76, 056114.	0.8	119
87	Synchronization in networks of networks: The onset of coherent collective behavior in systems of interacting populations of heterogeneous oscillators. Physical Review E, 2008, 77, 036107.	0.8	118
88	Multifractal properties of snapshot attractors of random maps. Physical Review A, 1990, 41, 784-799.	1.0	115
89	Approximating the largest eigenvalue of network adjacency matrices. Physical Review E, 2007, 76, 056119.	0.8	113
90	Fractal dimension in nonhyperbolic chaotic scattering. Physical Review Letters, 1991, 66, 978-981.	2.9	112

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91	Experimental observation of crisis-induced intermittency and its critical exponent. Physical Review Letters, 1989, 63, 923-926.	2.9	110
92	Quantum manifestations of chaotic scattering. Physical Review Letters, 1992, 68, 3491-3494.	2.9	109
93	Optimal Periodic Orbits of Chaotic Systems. Physical Review Letters, 1996, 76, 2254-2257.	2.9	108
94	Are Three-Frequency Quasiperiodic Orbits to Be Expected in Typical Nonlinear Dynamical Systems?. Physical Review Letters, 1983, 51, 339-342.	2.9	107
95	Parametric instabilities induced by the coupling of high and low frequency plasma modes. Physics of Fluids, 1974, 17, 1413.	1.4	104
96	Spheromak tilting instability in cylindrical geometry. Physics of Fluids, 1981, 24, 1336.	1.4	104
97	Large Coupled Oscillator Systems with Heterogeneous Interaction Delays. Physical Review Letters, 2009, 103, 044101.	2.9	103
98	Theory of Microwave Emission by Velocity-Space Instabilities of an Intense Relativistic Electron Beam. IEEE Transactions on Plasma Science, 1975, 3, 1-5.	0.6	102
99	Extracting unstable periodic orbits from chaotic time series data. Physical Review E, 1997, 55, 5398-5417.	0.8	102
100	Multi-dimensioned intertwined basin boundaries: Basin structure of the kicked double rotor. Physica D: Nonlinear Phenomena, 1987, 25, 347-360.	1.3	101
101	Quasiperiodically forced dynamical systems with strange nonchaotic attractors. Physica D: Nonlinear Phenomena, 1987, 26, 277-294.	1.3	101
102	Predictability and Suppression of Extreme Events in a Chaotic System. Physical Review Letters, 2013, 111, 198701.	2.9	101
103	Attractors on an N-torus: Quasiperiodicity versus chaos. Physica D: Nonlinear Phenomena, 1985, 15, 354-373.	1.3	98
104	On-off intermittency: Power spectrum and fractal properties of time series. Physica D: Nonlinear Phenomena, 1996, 96, 66-99.	1.3	98
105	Exterior dimension of fat fractals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 110, 1-4.	0.9	96
106	Fractal distribution of floaters on a fluid surface and the transition to chaos for random maps. Physica D: Nonlinear Phenomena, 1991, 53, 102-124.	1.3	96
107	Goodness of Ergodic Adiabatic Invariants. Physical Review Letters, 1979, 42, 1628-1631.	2.9	95
108	Unstable dimension variability: A source of nonhyperbolicity in chaotic systems. Physica D: Nonlinear Phenomena, 1997, 109, 81-90.	1.3	95

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109	Higher-dimensional targeting. Physical Review E, 1993, 47, 305-310.	0.8	92
110	Sign-singular measures: Fast magnetic dynamos, and high-Reynolds-number fluid turbulence. Physical Review Letters, 1992, 69, 2654-2657.	2.9	90
111	Super persistent chaotic transients. Ergodic Theory and Dynamical Systems, 1985, 5, 341-372.	0.4	89
112	Dimensions of strange nonchaotic attractors. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 137, 167-172.	0.9	87
113	Transition to chaotic scattering. Physical Review A, 1990, 42, 7025-7040.	1.0	85
114	Synchronization in large directed networks of coupled phase oscillators. Chaos, 2006, 16, 015107.	1.0	85
115	The effect of network topology on the stability of discrete state models of genetic control. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8209-8214.	3.3	85
116	Predicting the statistics of wave transport through chaotic cavities by the random coupling model: A review and recent progress. Wave Motion, 2014, 51, 606-621.	1.0	85
117	Spectral properties of networks with community structure. Physical Review E, 2009, 80, 056114.	0.8	84
118	Theory of electron cyclotron resonance heating of tokamak plasmas. Physics of Fluids, 1980, 23, 1031.	1.4	83
119	Roundoff-induced periodicity and the correlation dimension of chaotic attractors. Physical Review A, 1988, 38, 3688-3692.	1.0	83
120	Theory of intense ion beam acceleration. Physics of Fluids, 1976, 19, 52.	1.4	82
121	Magnetic Compression of Intense Ion Rings. Physical Review Letters, 1974, 33, 355-358.	2.9	81
122	Using chaos to direct orbits to targets in systems describable by a one-dimensional map. Physical Review A, 1992, 45, 4165-4168.	1.0	81
123	Fractal measures of passively convected vector fields and scalar gradients in chaotic fluid flows. Physical Review A, 1989, 39, 3660-3671.	1.0	80
124	Multiple Attractor Bifurcations: A Source of Unpredictability in Piecewise Smooth Systems. Physical Review Letters, 1999, 83, 4281-4284.	2.9	80
125	Universal statistics of the scattering coefficient of chaotic microwave cavities. Physical Review E, 2005, 71, 056215.	0.8	80
126	Statistics of Impedance and Scattering Matrices in Chaotic Microwave Cavities: Single Channel Case. Electromagnetics, 2006, 26, 3-35.	0.3	80

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127	Is the dimension of chaotic attractors invariant under coordinate changes?. Journal of Statistical Physics, 1984, 36, 687-697.	0.5	79
128	The spectrum of fractal dimensions of passively convected scalar gradients in chaotic fluid flows. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1017-1028.	1.6	79
129	Topology in chaotic scattering. Nature, 1999, 399, 315-316.	13.7	79
130	Universal behavior of impact oscillators near grazing incidence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 201, 197-204.	0.9	78
131	A Machine Learningâ€Based Global Atmospheric Forecast Model. Geophysical Research Letters, 2020, 47, e2020GL087776.	1.5	77
132	Scaling law for characteristic times of noise-induced crises. Physical Review A, 1991, 43, 1754-1769.	1.0	75
133	Enhancing synchronism of chaotic systems. Physical Review E, 1994, 49, R945-R948.	0.8	75
134	Local ensemble Kalman filtering in the presence of model bias. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 293-306.	0.8	75
135	WADA BASIN BOUNDARIES IN CHAOTIC SCATTERING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 251-265.	0.7	74
136	Complex dynamics and synchronization of delayed-feedback nonlinear oscillators. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 343-366.	1.6	74
137	External periodic driving of large systems of globally coupled phase oscillators. Chaos, 2008, 18, 037112.	1.0	73
138	Unstable periodic orbits and the dimension of chaotic attractors. Physical Review A, 1987, 36, 3522-3524.	1.0	72
139	Cluster synchrony in systems of coupled phase oscillators with higher-order coupling. Physical Review E, 2011, 84, 036208.	0.8	70
140	Spatiotemporal dynamics in a dispersively coupled chain of nonlinear oscillators. Physical Review A, 1989, 39, 4835-4842.	1.0	69
141	Lower hybrid wave scattering by density fluctuations. Physics of Fluids, 1979, 22, 1732.	1.4	68
142	Algebraic escape in higher dimensional Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 151, 395-400.	0.9	68
143	Extracting Envelopes of Rossby Wave Packets. Monthly Weather Review, 2003, 131, 1011-1017.	0.5	68
144	Statistical Prediction and Measurement of Induced Voltages on Components Within Complicated Enclosures: A Wave-Chaotic Approach. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 758-771.	1.4	68

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145	Explosions of chaotic sets. Physica D: Nonlinear Phenomena, 2000, 144, 44-61.	1.3	67
146	Growing networks with geographical attachment preference: Emergence of small worlds. Physical Review E, 2004, 69, 026108.	0.8	67
147	Inhibition Causes Ceaseless Dynamics in Networks of Excitable Nodes. Physical Review Letters, 2014, 112, 138103.	2.9	67
148	Spatiotemporal Bifurcation Phenomena with Temporal Period Doubling: Patterns in Vibrated Sand. Physical Review Letters, 1998, 80, 3495-3498.	2.9	66
149	Turbulent Heating in Computer Simulations of the Modified Plasma Two-Stream Instability. Physical Review Letters, 1972, 28, 88-91.	2.9	65
150	Quantum chaos in systems with ray splitting. Physical Review A, 1992, 46, 6193-6210.	1.0	65
151	Controlling Chaos. Physics Today, 1995, 48, 34-40.	0.3	65
152	Comment on â€œLong time evolution of phase oscillator systemsâ€•[Chaos 19, 023117 (2009)]. Chaos, 2011, 21, 025112.	1.0	64
153	Time-dependent multimode simulation of gyrotron oscillators. Physical Review A, 1991, 43, 6166-6176.	1.0	63
154	Bifurcations and Strange Behavior in Instability Saturation by Nonlinear Mode Coupling. Physical Review Letters, 1980, 44, 453-456.	2.9	62
155	Band-in-band segregation of multidisperse granular mixtures. Europhysics Letters, 2004, 66, 205-211.	0.7	62
156	Statistical properties of avalanches in networks. Physical Review E, 2012, 85, 066131.	0.8	62
157	Introduction to Focus Issue: When machine learning meets complex systems: Networks, chaos, and nonlinear dynamics. Chaos, 2020, 30, 063151.	1.0	62
158	Magnetic insulation and microwave generation. Applied Physics Letters, 1975, 27, 378-380.	1.5	61
159	Linear waves and instabilities on magnetically insulated gaps. Physics of Fluids, 1981, 24, 1821.	1.4	60
160	Experimental confirmation of the scaling theory for noise-induced crises. Physical Review Letters, 1991, 66, 1947-1950.	2.9	60
161	Statistics of Impedance and Scattering Matrices of Chaotic Microwave Cavities with Multiple Ports. Electromagnetics, 2006, 26, 37-55.	0.3	60
162	Nonlinear Evolution of Whistler Instabilities. Physics of Fluids, 1972, 15, 2314.	1.4	59

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163	Controlling Chaos. Physical Review Letters, 1990, 64, 2837-2837.	2.9	59
164	Multiple coexisting attractors, Basin boundaries and basic sets. Physica D: Nonlinear Phenomena, 1988, 32, 296-305.	1.3	58
165	Controlling chaos using time delay coordinates via stabilization of periodic orbits. Physical Review E, 1995, 51, 2955-2962.	0.8	58
166	Optimal periodic orbits of chaotic systems occur at low period. Physical Review E, 1996, 54, 328-337.	0.8	58
167	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. Chaos, 2016, 26, 094811.	1.0	58
168	Cross-field injection, propagation, and energy deposition of intense ion beams with application to tokamak plasma heating. Nuclear Fusion, 1977, 17, 1057-1065.	1.6	56
169	Using chaos to target stationary states of flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 169, 349-354.	0.9	56
170	Saddle-Node Bifurcations on Fractal Basin Boundaries. Physical Review Letters, 1995, 75, 2482-2485.	2.9	56
171	Chaotic flows and kinematic magnetic dynamos: A tutorial review. Physics of Plasmas, 1998, 5, 1636-1646.	0.7	55
172	Fractal Properties of Robust Strange Nonchaotic Attractors. Physical Review Letters, 2001, 87, 254101.	2.9	55
173	Characterization of fluctuations of impedance and scattering matrices in wave chaotic scattering. Physical Review E, 2006, 73, 046208.	0.8	55
174	Characterization of on-off intermittent time series. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 207, 173-179.	0.9	54
175	Targeting in Hamiltonian systems that have mixed regular/chaotic phase spaces. Chaos, 1997, 7, 512-519.	1.0	54
176	Emergence of synchronization in complex networks of interacting dynamical systems. Physica D: Nonlinear Phenomena, 2006, 224, 114-122.	1.3	54
177	Combining machine learning with knowledge-based modeling for scalable forecasting and subgrid-scale closure of large, complex, spatiotemporal systems. Chaos, 2020, 30, 053111.	1.0	54
178	Influence of finite wavelength on the quantum kicked rotator in the semiclassical regime. Physical Review A, 1984, 29, 819-825.	1.0	53
179	Chaotic Fluid Convection and the Fractal Nature of Passive Scalar Gradients. Physical Review Letters, 1988, 61, 2839-2842.	2.9	52
180	Universal properties of two-port scattering, impedance, and admittance matrices of wave-chaotic systems. Physical Review E, 2006, 74, 036213.	0.8	52

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181	Microinstabilities and the production of short-wavelength irregularities in the auroralFregion. Journal of Geophysical Research, 1975, 80, 4599-4602.	3.3	51
182	Observing chaos: Deducing and tracking the state of a chaotic system from limited observation. Physical Review E, 1994, 49, 2650-2660.	0.8	51
183	Ray Splitting and Quantum Chaos. Physical Review Letters, 1996, 76, 2476-2479.	2.9	50
184	Assessing a local ensemble Kalman filter: perfect model experiments with the National Centers for Environmental Prediction global model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2005, 57, 528-545.	0.8	50
185	Assimilating non-local observations with a local ensemble Kalman filter. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 719-730.	0.8	49
186	Thekspectrum of ionospheric irregularities. Journal of Geophysical Research, 1974, 79, 2469-2472.	3.3	48
187	Twoâ€dimensional turbulence in equatorial spread F. Journal of Geophysical Research, 1978, 83, 4369-4372.	3.3	48
188	Lagrangian Chaos and the Effect of Drag on the Enstrophy Cascade in Two-Dimensional Turbulence. Physical Review Letters, 2000, 84, 5134-5137.	2.9	48
189	Assessing a local ensemble Kalman filter: perfect model experiments with the National Centers for Environmental Prediction global model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2005, 57, 528-545.	0.8	48
190	Weighted Percolation on Directed Networks. Physical Review Letters, 2008, 100, 058701.	2.9	48
191	Chaotic flows and magnetic dynamos. Physical Review Letters, 1988, 60, 760-763.	2.9	47
192	Growth rates for fast kinematic dynamo instabilities of chaotic fluid flows. Journal of Fluid Mechanics, 1993, 257, 265.	1.4	47
193	Ergodic adiabatic invariants of chaotic systems. Physical Review Letters, 1987, 59, 1173-1176.	2.9	46
194	The goodness of ergodic adiabatic invariants. Journal of Statistical Physics, 1987, 49, 511-550.	0.5	46
195	Mechanism for the intermittent route to strange nonchaotic attractors. Physical Review E, 2003, 67, 056203.	0.8	46
196	Observation bias correction with an ensemble Kalman filter. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 61, 210.	0.8	46
197	Ergodic behavior of lower hybrid decay wave ray trajectories in toroidal geometry. Physics of Fluids, 1978, 21, 2263.	1.4	45
198	Accessibility and Energy Depositon of Lower-Hybrid Waves in a Tokamak with Density Fluctuations. Physical Review Letters, 1981, 46, 424-427.	2.9	45

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199	Pattern formation in a monolayer of magnetic spheres. Physical Review E, 2003, 68, 026207.	0.8	45
200	Fractal properties of robust strange nonchaotic attractors in maps of two or more dimensions. Physical Review E, 2003, 67, 036211.	0.8	45
201	Communication with a chaotic traveling wave tube microwave generator. Chaos, 2004, 14, 30-37.	1.0	45
202	Three-dimensional, nonlinear evolution of the Rayleighâ€“Taylor instability of a thin layer. Physics of Fluids, 1984, 27, 2164.	1.4	44
203	Theory of microwave generation by an intense relativistic electron beam in a rippled magnetic field. Physics of Fluids, 1974, 17, 463.	1.4	43
204	Decay instability of lower hybrid waves. Physics of Fluids, 1975, 18, 566.	1.4	43
205	The fast kinematic magnetic dynamo and the dissipationless limit. Physics of Fluids B, 1990, 2, 916-926.	1.7	43
206	Instability of the Brillouin-Flow Equilibrium in Magnetically Insulated Structures. Physical Review Letters, 1981, 46, 929-932.	2.9	42
207	Scaling Behavior of Windows in Dissipative Dynamical Systems. Physical Review Letters, 1985, 54, 1095-1098.	2.9	42
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