Louis Pecora

List of Articles by Year
in descending order

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44 peer-reviewed articles	13,623 peer-reviewed citations	210959 29 peer-reviewed h-index	162058 5.58 score
49 documents	17071 doc citations	252491 29 h-index	9436 citing authors

#	Article	IF	Citations
1	Statistics for differential topological properties between datasets with an application to reservoir computers. Chaos, 2025, 35, .	2.0	5
2	Some elements for a history of the dynamical systems theory. Chaos, 2021, 31, .	2.0	23
3	Controlling Symmetries and Clustered Dynamics of Complex Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 282-293.	5.3	28
4	Symmetries and cluster synchronization in multilayer networks. Nature Communications, 2020, 11, .	10.8	121
5	Group Consensus in Multilayer Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 2016-2026.	5.3	30
6	Symmetry induced group consensus. Chaos, 2019, 29, .	2.0	27
7	Network structure effects in reservoir computers. Chaos, 2019, 29, .	2.0	79
8	Symmetries in the time-averaged dynamics of networks: Reducing unnecessary complexity through minimal network models. Chaos, 2019, 29, .	2.0	14
9	Cluster Synchronization in Multilayer Networks: A Fully Analog Experiment with LC Oscillators with Physically Dissimilar Coupling. Physical Review Letters, 2019, 122, .	5.8	37
10	Symmetry- and input-cluster synchronization in networks. Physical Review E, 2018, 97, .	1.5	77
11	Approximate cluster synchronization in networks with symmetries and parameter mismatches. Chaos, 2016, 26, .	2.0	45
12	Introduction to focus issue: Patterns of network synchronization. Chaos, 2016, 26, .	2.0	48
13	Complete characterization of the stability of cluster synchronization in complex dynamical networks. Science Advances, 2016, 2, .	8.1	229
14	Introduction to Focus Issue: The 25th Anniversary of Chaos: Perspectives on Nonlinear Science—Past, Present, and Future. Chaos, 2015, 25, .	2.0	2
15	Synchronization of chaotic systems. Chaos, 2015, 25, .	2.0	315
16	Cluster synchronization and isolated desynchronization in complex networks with symmetries. Nature Communications, 2014, 5, .	10.8	540
17	Enhancing synchrony in chaotic oscillators by dynamic relaying. Physical Review E, 2012, 85, .	1.5	33
18	Synchronization in dynamical networks: Evolution along commutative graphs. Physical Review E, 2006, 74, .	1.5	99

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19	Analytical coupling detection in the presence of noise and nonlinearity. Physical Review E, 2004, 69, .	1.5	20
20	Parameter ranges for the onset of period doubling in the diode resonator. Physical Review E, 2002, 66, .	1.5	11
21	Reconstructing embedding spaces of coupled dynamical systems from multivariate data. Physical Review E, 2002, 65, .	1.5	54
22	Synchronization in Small-World Systems. Physical Review Letters, 2002, 89, .	5.8	1,413
23	Early Seizure Detection. Journal of Clinical Neurophysiology, 2001, 18, 259-268.	0.9	130
24	Unifying framework for synchronization of coupled dynamical systems. Physical Review E, 2001, 63, .	1.5	125
25	Testing Whether Two Chaotic One Dimensional Processes Are Dynamically Identical. Physical Review Letters, 2000, 85, 4265-4268.	5.8	6
26	Master Stability Functions for Synchronized Coupled Systems. Physical Review Letters, 1998, 80, 2109-2112.	5.8	2,441
27	Synchronization conditions and desynchronizing patterns in coupled limit-cycle and chaotic systems. Physical Review E, 1998, 58, 347-360.	1.5	171
28	Synchronization and Imposed Bifurcations in the Presence of Large Parameter Mismatch. Physical Review Letters, 1998, 80, 3956-3959.	5.8	82
29	Volume-preserving and volume-expanding synchronized chaotic systems. Physical Review E, 1997, 56, 5090-5100.	1.5	38
30	Transforming signals with chaotic synchronization. Physical Review E, 1996, 54, 4676-4680.	1.5	95
31	Desynchronization by periodic orbits. Physical Review E, 1995, 52, R1253-R1256.	1.5	152
32	Statistics for mathematical properties of maps between time series embeddings. Physical Review E, 1995, 52, 3420-3439.	1.5	143
33	Short Wavelength Bifurcations and Size Instabilities in Coupled Oscillator Systems. Physical Review Letters, 1995, 74, 4185-4188.	5.8	185
34	Experimental and Numerical Evidence for Riddled Basins in Coupled Chaotic Systems. Physical Review Letters, 1994, 73, 3528-3531.	5.8	211
35	Synchronous chaos in coupled oscillator systems. Physical Review E, 1994, 50, 1874-1885.	1.5	430
36	Chaotic parameter variation in maps: pseudoperiodicity, crisis and synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 175-179.	1.6	6

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37	Using chaos to keep period-multiplied systems in phase. Physical Review E, 1993, 48, 2426-2436.	1.5	21
38	Driving systems with chaotic signals. Physical Review A, 1991, 44, 2374-2383.	1.8	954
39	Pseudoperiodic driving: Eliminating multiple domains of attraction using chaos. Physical Review Letters, 1991, 67, 945-948.	5.8	70
40	Synchronization in chaotic systems. Physical Review Letters, 1990, 64, 821-824.	5.8	9,789
41	Derivation and generalization of the Suhl spin-wave instability relations. Physical Review B, 1988, 37, 5473-5477.	2.4	10
42	CHAOS IN POLISHED AND ROUGHENED YIG SPHERES. Journal De Physique Colloque, 1988, 49, C8-1595-C8-1596.	0.0	0
43	Chaotic Transients and Multiple Attractors in Spin-Wave Experiments. Physical Review Letters, 1987, 59, 2891-2894.	5.8	77
44	On the partition function as a functional integral over the eigenspace of an elliptic operator. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 72, 97-100.	1.6	0