Xingang Wang

List of PR Articles by Year in descending order

96 PR articles	1,814 PR citations	257290 22 PR h-index	233048 41 g-index
97 documents	1951 doc citations	267293 23 h-index	1299 citing authors

#	Article	IF	PR Citations
1	Sonogenetics is a novel antiarrhythmic mechanism. Chaos, 2025, 35, .	2.7	1
2	Reconstructing bifurcation diagrams of chaotic circuits with reservoir computing. Physical Review E, 2024, 109, .	2.2	12
3	Inferring attracting basins of power system with machine learning. Physical Review Research, 2024, 6, .	4.0	14
4	Scalable synchronization cluster in networked chaotic oscillators. Chaos, 2024, 34, .	2.7	1
5	Resonance-induced synchronization in coupled phase oscillators with bimodal frequency distribution and periodic coupling. Physical Review E, 2024, 110, .	2.2	2
6	Inferring synchronizability of networked heterogeneous oscillators with machine learning. Physical Review E, 2023, 107, .	2.2	6
7	Eigenvector-based analysis of cluster synchronization in general complex networks of coupled chaotic oscillators. Frontiers of Physics, 2023, 18, .	4.3	13
8	Breathing cluster in complex neuronâ€“astrocyte networks. Chaos, 2023, 33, .	2.7	5
9	Learning the dynamics of coupled oscillators from transients. Physical Review Research, 2022, 4, .	4.0	15
10	Criticality in reservoir computer of coupled phase oscillators. Physical Review E, 2022, 105, .	2.2	16
11	Anticipating measure synchronization in coupled Hamiltonian systems with machine learning. Chaos, 2022, 32, .	2.7	6
12	Cluster synchronization induced by manifold deformation. Chaos, 2022, 32, .	2.7	6
13	Synchronization within synchronization: transients and intermittency in ecological networks. National Science Review, 2021, 8, .	9.8	14
14	Transfer learning of chaotic systems. Chaos, 2021, 31, .	2.7	18
15	Anticipating synchronization with machine learning. Physical Review Research, 2021, 3, .	4.0	69
16	Learning Hamiltonian dynamics with reservoir computing. Physical Review E, 2021, 104, .	2.2	34
17	Spiral wave chimeras in reaction-diffusion systems: Phenomenon, mechanism and transitions. Communications in Nonlinear Science and Numerical Simulation, 2021, 99, 105830.	3.5	15
18	Bearing remaining useful life prediction using support vector machine and hybrid degradation tracking model. ISA Transactions, 2020, 98, 471-482.	5.7	205

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19	Long-term prediction of chaotic systems with machine learning. Physical Review Research, 2020, 2, .	4.0	155
20	Pinning control of cluster synchronization in regular networks. Physical Review Research, 2020, 2, .	4.0	13
21	Cluster synchronization in networked nonidentical chaotic oscillators. Chaos, 2019, 29, .	2.7	18
22	Agent-based simulations of China inbound tourism network. Scientific Reports, 2019, 9, .	3.5	11
23	Optimizing biologically inspired transport networks by control. Physical Review E, 2019, 100, .	2.2	4
24	Enhancing network synchronizability by strengthening a single node. Physical Review E, 2019, 99, .	2.2	5
25	Effect of network structural perturbations on spiral wave patterns. Nonlinear Dynamics, 2018, 93, 1671-1680.	5.2	10
26	Autapses promote synchronization in neuronal networks. Scientific Reports, 2018, 8, .	3.5	24
27	Scientific collaborations within a university: From the viewpoint of complex networks. Journal of Physics: Conference Series, 2018, 1113, 012016.	0.3	3
28	Periodic coupling suppresses synchronization in coupled phase oscillators. New Journal of Physics, 2018, 20, 113013.	2.9	12
29	Network synchronization with periodic coupling. Physical Review E, 2018, 98, .	2.2	19
30	Enhancing network synchronization by phase modulation. Physical Review E, 2018, 98, .	2.2	13
31	Huygensâ€™ synchronization experiment revisited: luck or skill?. European Journal of Physics, 2018, 39, 055004.	1.1	5
32	Evoking complex neuronal networks by stimulating a single neuron. Nonlinear Dynamics, 2017, 88, 2491-2501.	5.2	3
33	Synchronization of coupled metronomes on two layers. Frontiers of Physics, 2017, 12, .	4.3	9
34	Dynamics of spiral waves rotating around an obstacle and the existence of a minimal obstacle. Physical Review E, 2017, 95, .	2.2	8
35	Depotentiation from Potentiated Synaptic Strength in a Tristable System of Coupled Phosphatase and Kinase. Frontiers in Computational Neuroscience, 2016, 10, .	2.0	3
36	Inducing isolated-desynchronization states in complex network of coupled chaotic oscillators. Physical Review E, 2016, 94, .	2.2	11

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37	Chaos synchronization with dual-channel time-delayed couplings. Science China Technological Sciences, 2016, 59, 428-435.	4.4	8
38	Controlling synchronous patterns in complex networks. Physical Review E, 2016, 93, .	2.2	37
39	Coexistence of Quantized, Time Dependent, Clusters in Globally Coupled Oscillators. Physical Review Letters, 2016, 117, .	8.3	78
40	Growth, collapse and self-organized criticality in complex networks. Scientific Reports, 2016, 6, .	3.5	14
41	Consistency between functional and structural networks of coupled nonlinear oscillators. Physical Review E, 2015, 92, .	2.2	13
42	Cyclic synchronous patterns in coupled discontinuous maps. Physical Review E, 2015, 92, .	2.2	4
43	Synchronization of networked chaotic oscillators under external periodic driving. Physical Review E, 2015, 91, .	2.2	20
44	Complex behavior of chaotic synchronization under dual coupling channels. New Journal of Physics, 2015, 17, 023055.	2.9	11
45	Network approach to the pinning control of drift-wave turbulence. Physical Review E, 2014, 89, .	2.2	2
46	Control for a synchronization-desynchronization switch. Physical Review E, 2014, 90, .	2.2	18
47	Synchronization transition in networked chaotic oscillators: The viewpoint from partial synchronization. Physical Review E, 2014, 89, .	2.2	31
48	Topological control of synchronous patterns in systems of networked chaotic oscillators. Physical Review E, 2013, 87, .	2.2	34
49	High-charge energetic electron bunch generated by intersecting laser pulses. Physics of Plasmas, 2013, 20, .	2.1	10
50	Synchronous patterns in complex systems. Physical Review E, 2012, 85, .	2.2	24
51	Synchronization and quorum sensing in an ensemble of indirectly coupled chaotic oscillators. Physical Review E, 2012, 86, .	2.2	25
52	Network growth under the constraint of synchronization stability. Physical Review E, 2011, 83, .	2.2	15
53	Onset of synchronization in weighted complex networks: The effect of weight-degree correlation. Chaos, 2011, 21, .	2.7	10
54	Regulating drift-wave plasma turbulence into spatiotemporal patterns by pinning coupling. Physical Review E, 2011, 84, .	2.2	4

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55	Resonance effect of direction-phase clusters in a scale-free network. Europhysics Letters, 2010, 90, 30005.	2.2	2
56	Pattern evolution in non-synchronizable scale-free networks. European Physical Journal B, 2010, 75, 285-297.	1.6	8
57	Hot electron transport and heating in dense plasma core by hollow guiding. Laser and Particle Beams, 2010, 28, 563-570.	1.8	3
58	Evolution of functional subnetworks in complex systems. Chaos, 2010, 20, .	2.7	11
59	On the pinning strategy of complex networks. Europhysics Letters, 2010, 92, 48002.	2.2	10
60	The development of generalized synchronization on complex networks. Chaos, 2009, 19, 013130.	2.7	28
61	THE MANY FACES OF SYNCHRONIZATION OF NETWORKS. Modern Physics Letters B, 2009, 23, 1983-1988.	2.5	2
62	Transition to amplitude death in scale-free networks. New Journal of Physics, 2009, 11, 093016.	2.9	39
63	Protecting infrastructure networks from cost-based attacks. New Journal of Physics, 2009, 11, 033006.	2.9	18
64	Desynchronization and on-off intermittency in complex networks. Europhysics Letters, 2009, 88, 28001.	2.2	22
65	Oscillation death in coupled oscillators. Frontiers of Physics in China, 2009, 4, 97-110.	1.0	27
66	Onset of synchronization in complex gradient networks. Chaos, 2008, 18, 037117.	2.7	11
67	Multiple effects of gradient coupling on network synchronization. Physical Review E, 2008, 77, .	2.2	7
68	Synchronizability of network ensembles with prescribed statistical properties. Chaos, 2008, 18, 013120.	2.7	9
69	Model-based detector and extraction of weak signal frequencies from chaotic data. Chaos, 2008, 18, 013104.	2.7	7
70	Stability of the steady state of delay-coupled chaotic maps on complex networks. Physical Review E, 2008, 77, .	2.2	12
71	Transition to global synchronization in clustered networks. Physical Review E, 2008, 77, .	2.2	39
72	Complex dynamics of femtosecond terawatt laser pulses in air. Applied Physics Letters, 2007, 91, 221114.	3.1	6

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73	Optimization of synchronization in gradient clustered networks. Physical Review E, 2007, 76, .	2.2	25
74	Enhancing synchronization based on complex gradient networks. Physical Review E, 2007, 75, .	2.2	98
75	Synchronization in complex clustered networks. Frontiers of Physics in China, 2007, 2, 446-459.	1.0	11
76	Frequency locking by external force from a dynamical system with strange nonchaotic attractor. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 354, 298-304.	2.3	2
77	Characterization of noise-induced strange nonchaotic attractors. Physical Review E, 2006, 74, .	2.2	16
78	A note on chaotic unimodal maps and applications. Chaos, 2006, 16, 033113.	2.7	1
79	Effect of resonant-frequency mismatch on attractors. Chaos, 2006, 16, 023127.	2.7	7
80	Oscillations of complex networks. Physical Review E, 2006, 74, .	2.2	12
81	ON GENERATING BINARY SPATIOTEMPORAL CHAOTIC SEQUENCES AND ITS APPLICATION ON SPREAD-SPECTRUM COMMUNICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 213-219.	2.1	3
82	Spread-spectrum communication using binary spatiotemporal chaotic codes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 334, 30-36.	2.3	28
83	Spatially periodic and temporally chaotic pattern in coupled nonidentical chaotic systems. Chaos, Solitons and Fractals, 2005, 24, 767-774.	5.1	1
84	Public-key encryption based on generalized synchronization of coupled map lattices. Chaos, 2005, 15, 023109.	2.7	11
85	Phase synchronization of a pair of spiral waves. Physical Review E, 2005, 71, .	2.2	27
86	Chaotic digital communication by encoding initial conditions. Chaos, 2004, 14, 358-363.	2.7	10
87	Strange Nonchaotic Attractors in Random Dynamical Systems. Physical Review Letters, 2004, 92, .	8.3	40
88	Error function attack of chaos synchronization based encryption schemes. Chaos, 2004, 14, 128-137.	2.7	49
89	Measure synchronization in coupledÏ†4Hamiltonian systems. Physical Review E, 2003, 67, .	2.2	40
90	Complete synchronization and generalized synchronization of one-way coupled time-delay systems. Physical Review E, 2003, 68, .	2.2	105

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91	Transition to Measure Synchronization in Coupled Hamiltonian Systems. International Journal of Modern Physics B, 2003, 17, 4349-4354.	4.1	2
92	Transitions from partial to complete generalized synchronizations in bidirectionally coupled chaotic oscillators. Physical Review E, 2002, 65, .	2.2	56
93	PARTIAL MEASURE SYNCHRONIZATION IN HAMILTONIAN SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1141-1148.	2.1	13
94	Controlling Hamiltonian systems by using measure synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 298, 383-387.	2.3	12
95	Spatial orders appearing at instabilities of synchronous chaos of spatiotemporal systems. European Physical Journal B, 2002, 30, 571-575.	1.6	8
96	Control of spatiotemporal chaos by using random itinerant feedback injections. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 342-348.	2.3	9