Meng Zhan

List of Publications by Year
in descending order

110 papers	2,112 citations	236612 25 h-index	288905 40 g-index
111 all docs	111 docs citations	111 times ranked	1081 citing authors

#	Article	IF	Citations
1	Complete synchronization and generalized synchronization of one-way coupled time-delay systems. Physical Review E, 2003, 68, 036208.	0.8	98
2	Pattern formation of spiral waves in an inhomogeneous medium with small-world connections. Physical Review E, 2002, 65, 055204.	0.8	84
3	Signal transmission by vibrational resonance in one-way coupled bistable systems. Physical Review E, 2010, 81, 061129.	0.8	83
4	Reviving Oscillations in Coupled Nonlinear Oscillators. Physical Review Letters, 2013, 111, 014101.	2.9	83
5	Transition from intermittency to periodicity in lag synchronization in coupled RÃ¶ssler oscillators. Physical Review E, 2002, 65, 036202.	0.8	69
6	Synchronization of chaos in coupled systems. Physical Review E, 2000, 62, 2963-2966.	0.8	65
7	Partial time-delay coupling enlarges death island of coupled oscillators. Physical Review E, 2009, 80, 065204.	0.8	63
8	Quenching, aging, and reviving in coupled dynamical networks. Physics Reports, 2021, 931, 1-72.	10.3	62
9	Tailoring Wavelets for Chaos Control. Physical Review Letters, 2002, 89, 284103.	2.9	58
10	Nonlinear Modeling and Analysis of Grid-Connected Voltage-Source Converters Under Voltage Dips. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3281-3292.	3.7	51
11	Error function attack of chaos synchronization based encryption schemes. Chaos, 2004, 14, 128-137.	1.0	47
12	Eliminating delay-induced oscillation death by gradient coupling. Physical Review E, 2010, 82, 056203.	0.8	44
13	Effects of frequency-degree correlation on synchronization transition in scale-free networks. Europhysics Letters, 2013, 101, 38002.	0.7	44
14	Dynamical robustness analysis of weighted complex networks. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4181-4191.	1.2	40
15	Measure synchronization in coupledÏ†4Hamiltonian systems. Physical Review E, 2003, 67, 066215.	0.8	38
16	Strange Nonchaotic Attractors in Random Dynamical Systems. Physical Review Letters, 2004, 92, 074102.	2.9	38
17	Frequency-resonance-enhanced vibrational resonance in bistable systems. Physical Review E, 2011, 83, 061122.	0.8	37
18	Insensitive dependence of delay-induced oscillation death on complex networks. Chaos, 2011, 21, 023130.	1.0	31

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19	MIB Galerkin method for elliptic interface problems. Journal of Computational and Applied Mathematics, 2014, 272, 195-220.	1.1	30
20	Generalized Swing Equation and Transient Synchronous Stability With PLL-Based VSC. IEEE Transactions on Energy Conversion, 2022, 37, 1428-1441.	3.7	30
21	Synchronizing large number of nonidentical oscillators with small coupling. Europhysics Letters, 2012, 97, 40005.	0.7	29
22	Spread-spectrum communication using binary spatiotemporal chaotic codes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 334, 30-36.	0.9	28
23	Phase synchronization of a pair of spiral waves. Physical Review E, 2005, 71, 036212.	0.8	27
24	Filament-Induced Surface Spiral Turbulence in Three-Dimensional Excitable Media. Physical Review Letters, 2008, 101, 208302.	2.9	27
25	Enhancing dynamical robustness in aging networks of coupled nonlinear oscillators. Europhysics Letters, 2016, 114, 40004.	0.7	26
26	Chaos synchronization in coupled systems by applying pinning control. Physical Review E, 2007, 76, 036203.	0.8	25
27	Oscillation death in coupled oscillators. Frontiers of Physics in China, 2009, 4, 97-110.	1.0	25
28	Nonlocal chaotic phase synchronization. Physical Review E, 2000, 62, 3552-3557.	0.8	24
29	Inhomogeneous stationary and oscillatory regimes in coupled chaotic oscillators. Chaos, 2012, 22, 033144.	1.0	24
30	Comparison of Impedance Model and Amplitudeâ€“Phase Model for Power- Electronics-Based Power System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2546-2558.	3.7	24
31	Model for line defects in complex-oscillatory spiral waves. Physical Review E, 2005, 72, 046221.	0.8	23
32	Splay States in a Ring of Coupled Oscillators: From Local to Global Coupling. SIAM Journal on Applied Dynamical Systems, 2009, 8, 1324-1340.	0.7	23
33	Synchronous patterns in complex systems. Physical Review E, 2012, 85, 066208.	0.8	23
34	Generalized Splay State in Coupled Chaotic Oscillators Induced by Weak Mutual Resonant Interactions. Physical Review Letters, 2001, 86, 1510-1513.	2.9	22
35	Periodic states with functional phase relation in weakly coupled chaotic Hindmarshâ€“Rose neurons. Physica D: Nonlinear Phenomena, 2001, 156, 314-324.	1.3	19
36	Destruction of spiral waves in chaotic media. Physical Review E, 2006, 73, 026224.	0.8	19

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37	Chirality effect on the global structure of spiral-domain patterns in the two-dimensional complex Ginzburg-Landau equation. Physical Review E, 2007, 75, 016214.	0.8	19
38	Pattern formation of coupled spiral waves in bilayer systems: Rich dynamics and high-frequency dominance. Physical Review E, 2011, 84, 056204.	0.8	19
39	Dynamics and Collapse in a Power System Model with Voltage Variation: The Damping Effect. PLoS ONE, 2016, 11, e0165943.	1.1	19
40	Sustained oscillations and bifurcations in threeâ€phase voltage source converter tied to AC grid. IET Renewable Power Generation, 2020, 14, 3770-3781.	1.7	19
41	Electric-field-induced wave groupings of spiral waves with oscillatory dispersion relation. Physical Review E, 2008, 78, 016214.	0.8	18
42	MIB method for elliptic equations with multi-material interfaces. Journal of Computational Physics, 2011, 230, 4588-4615.	1.9	18
43	Revoking amplitude and oscillation deaths by low-pass filter in coupled oscillators. Physical Review E, 2017, 95, 062206.	0.8	18
44	Control for a synchronization-desynchronization switch. Physical Review E, 2014, 90, 012909.	0.8	17
45	Swing equation in power systems: Approximate analytical solution and bifurcation curve estimate. Chaos, 2020, 30, 013110.	1.0	17
46	Complete synchronization in coupled limit-cycle systems. Europhysics Letters, 2008, 81, 10006.	0.7	16
47	Projective synchronization of two coupled excitable spiral waves. Chaos, 2011, 21, 023107.	1.0	16
48	Quenching and revival of oscillations induced by coupling through adaptive variables. Physical Review E, 2019, 99, 032214.	0.8	15
49	Dynamic Network Characteristics of Power-electronics-based Power Systems. Scientific Reports, 2020, 10, 9946.	1.6	15
50	Adaptively deformed mesh based interface method for elliptic equations with discontinuous coefficients. Journal of Computational Physics, 2012, 231, 1440-1461.	1.9	14
51	Nonlinear Modeling of Multi-Converter Systems Within DC-Link Timescale. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 5-16.	2.7	14
52	Problems and challenges of power-electronic-based power system stability: A case study of transient stability comparison. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 088907.	0.2	14
53	Phase transition to synchronization in generalized Kuramoto model with low-pass filter. Physical Review E, 2019, 100, 012209.	0.8	13
54	Intermingled basins and on-off intermittency in a multistate system. Physical Review E, 2000, 62, 375-383.	0.8	12

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55	Coherence resonance near the Hopf bifurcation in coupled chaotic oscillators. Physical Review E, 2002, 66, 036201.	0.8	12
56	Information propagation from IP3 to target protein: A combined model for encoding and decoding of Ca2+ signal. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4105-4114.	1.2	12
57	Amplitude death in globally coupled oscillators with time-scale diversity. Physical Review E, 2018, 98, .	0.8	12
58	Target waves in oscillatory media by variable block method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 371, 96-100.	0.9	11
59	Frozen state of spiral waves in excitable media. Chaos, 2009, 19, 033133.	1.0	11
60	Oscillator death induced by amplitude-dependent coupling in repulsively coupled oscillators. Physical Review E, 2015, 91, 052902.	0.8	11
61	Insensitivity of synchronization to network structure in chaotic pendulum systems with time-delay coupling. Chaos, 2017, 27, 126702.	1.0	11
62	Origin of amplitude synchronization in coupled nonidentical oscillators. Physical Review E, 2020, 101, 022210.	0.8	11
63	Small-Signal Stability of Multi-Converter Infeed Power Grids with Symmetry. Symmetry, 2021, 13, 157.	1.1	11
64	Phase locking in on-off intermittency. Physical Review E, 2001, 64, 066203.	0.8	10
65	Chaotic digital communication by encoding initial conditions. Chaos, 2004, 14, 358-363.	1.0	10
66	Public-key encryption based on generalized synchronization of coupled map lattices. Chaos, 2005, 15, 023109.	1.0	10
67	Novel type of amplitude spiral wave in a two-layer system. Chaos, 2010, 20, 043132.	1.0	10
68	Network reconstruction by linear dynamics. Physica A: Statistical Mechanics and Its Applications, 2014, 404, 118-125.	1.2	10
69	Firing rates of coupled noisy excitable elements. Frontiers of Physics, 2014, 9, 120-127.	2.4	10
70	Nonlinear analysis of a simple amplitudeâ€“phase motion equation for power-electronics-based power system. Nonlinear Dynamics, 2019, 95, 1965-1976.	2.7	10
71	Complete periodic synchronization in coupled systems. Chaos, 2008, 18, 043115.	1.0	9
72	Simple electronic circuit model for diversity-induced resonance. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2446-2451.	0.9	9

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73	Matching Rules for Collective Behaviors on Complex Networks: Optimal Configurations for Vibration Frequencies of Networked Harmonic Oscillators. PLoS ONE, 2013, 8, e82161.	1.1	9
74	Clustering versus non-clustering phase synchronizations. Chaos, 2014, 24, 013104.	1.0	9
75	Equal-area criterion in power systems revisited. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170733.	1.0	9
76	Fast-Slow-Scale Interaction Induced Parallel Resonance and its Suppression in Voltage Source Converters. IEEE Access, 2021, 9, 90126-90141.	2.6	9
77	Single-clustering synchronization in a ring of Kuramoto oscillators. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 125101.	0.7	8
78	The impact of propagation and processing delays on amplitude and oscillation deaths in the presence of symmetry-breaking coupling. Chaos, 2017, 27, 114303.	1.0	8
79	Theoretical study for regulatory property of scaffold protein on MAPK cascade: A qualitative modeling. Biophysical Chemistry, 2010, 147, 130-139.	1.5	6
80	High frequency forcing on nonlinear systems. Chinese Physics B, 2013, 22, 030503.	0.7	6
81	Ragged oscillation death in coupled nonidentical oscillators. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2874-2882.	1.7	6
82	Black-Box Impedance Prediction of Grid-Tied VSCs Under Variable Operating Conditions. IEEE Access, 2022, 10, 1289-1304.	2.6	6
83	Pattern with kinks and pulses in coupled periodic map lattices. Physical Review E, 2007, 76, 036215.	0.8	5
84	Chaos desynchronization in strongly coupled systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 464-468.	0.9	5
85	Transition zone in controlling spatiotemporal chaos. Physical Review E, 2009, 79, 056214.	0.8	5
86	Power-functional network. Chaos, 2017, 27, 083116.	1.0	5
87	Perturbation analysis and comparison of network synchronization methods. Physical Review E, 2019, 99, 052207.	0.8	5
88	An Algorithm for Finding the Singleton Attractors and Pre-Images in Strong-Inhibition Boolean Networks. PLoS ONE, 2016, 11, e0166906.	1.1	5
89	Spurious synchronization in non-diagonally coupled identical Lorenz oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 349-354.	0.9	4
90	Synchronization defect lines in complex-oscillatory target waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2415-2419.	0.9	4

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91	Periodic Windows in Weakly Coupled Map Lattices. Communications in Theoretical Physics, 2008, 49, 669-672.	1.1	4
92	Global Stability of the Sync with Amplitude Effects. SIAM Journal on Applied Dynamical Systems, 2017, 16, 1923-1945.	0.7	4
93	Taming turbulence in the complex Ginzburg-Landau equation. Physical Review E, 2010, 81, 036211.	0.8	3
94	Intermittent and sustained periodic windows in networked chaotic RÃ¶ssler oscillators. Chaos, 2013, 23, 043139.	1.0	3
95	Constructing backbone network by using tinker algorithm. Frontiers of Physics, 2017, 12, 1.	2.4	3
96	Wavelet transformed Gaussian network model. Journal of Theoretical and Computational Chemistry, 2014, 13, 1450053.	1.8	2
97	Network approach to the pinning control of drift-wave turbulence. Physical Review E, 2014, 89, 062918.	0.8	2
98	Optimal configuration for vibration frequencies in a ring of harmonic oscillators: The nonidentical mass effect. Frontiers of Physics, 2015, 10, 327-338.	2.4	2
99	Describing Function Analysis of Sustained Oscillations in Grid-Tied Voltage-Source Converter With Double Saturation Limiters. Frontiers in Energy Research, 0, 10, .	1.2	2
100	Selfâ€sustained lowâ€frequency oscillation and its suppression in a practical AC/DC distribution network. IET Generation, Transmission and Distribution, 2022, 16, 3786-3798.	1.4	2
101	Spatially periodic and temporally chaotic pattern in coupled nonidentical chaotic systems. Chaos, Solitons and Fractals, 2005, 24, 767-774.	2.5	1
102	Non-local coexistence of multiple spiral waves with independent frequencies. Chaos, Solitons and Fractals, 2009, 40, 229-236.	2.5	1
103	Stationary patterns in a discrete bistable reactionâ€”diffusion system: mode analysis. Chinese Physics B, 2010, 19, 100509.	0.7	1
104	Modeling for Analyzing Practical Oscillation Event of AC/DC Distribution Networks with Power Electronic Transformer. , 2021, , .		1
105	Sinusoidal and nonsinusoidal patterns in amplitude envelope synchronization. Physical Review E, 2022, 105, 044209.	0.8	1
106	Stability Analysis and Subsynchronous Oscillation of Grid-Tied VSC Under Different Grid Strengths. , 2021, , .		0
107	TRANSITION FROM HIGH-DIMENSIONAL CHAOS TO PERIODICITY BY WEAK MUTUAL RESONANT INTERACTIONS. , 2002, , .		0
108	Dq Admittance Prediction of Grid-Tied VSCs Under Variable Operating Conditions. , 2020, , .		0

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109	Relationship between Power Flow Transferring and Path Length using Graph Theory. , 2020, , .		0
110	The $alphaeta$ Impedance Modeling with Small Disturbances of Any Form for Three-phase Power-Electronics-Based Power Systems. , 2021, , .		0