

Meng Zhan

List of Publications by Year in descending order

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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	Generalized Swing Equation and Transient Synchronous Stability With PLL-Based VSC. IEEE Transactions on Energy Conversion, 2022, 37, 1428-1441.	3.7	30
2	Black-Box Impedance Prediction of Grid-Tied VSCs Under Variable Operating Conditions. IEEE Access, 2022, 10, 1289-1304.	2.6	6
3	Sinusoidal and nonsinusoidal patterns in amplitude envelope synchronization. Physical Review E, 2022, 105, 044209.	0.8	1
4	Self-sustained low-frequency oscillation and its suppression in a practical AC/DC distribution network. IET Generation, Transmission and Distribution, 2022, 16, 3786-3798.	1.4	2
5	Fast-Slow-Scale Interaction Induced Parallel Resonance and its Suppression in Voltage Source Converters. IEEE Access, 2021, 9, 90126-90141.	2.6	9
6	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
7	Stability Analysis and Subsynchronous Oscillation of Grid-Tied VSC Under Different Grid Strengths. , 2021, , .		0
8	Modeling for Analyzing Practical Oscillation Event of AC/DC Distribution Networks with Power Electronic Transformer. , 2021, , .		1
9	Quenching, aging, and reviving in coupled dynamical networks. Physics Reports, 2021, 931, 1-72.	10.3	62
10	Small-Signal Stability of Multi-Converter Infeed Power Grids with Symmetry. Symmetry, 2021, 13, 157.	1.1	11
11	The α Impedance Modeling with Small Disturbances of Any Form for Three-phase Power-Electronics-Based Power Systems. , 2021, , .		0
12	Comparison of Impedance Model and Amplitude-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
13	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
14	Dynamic Network Characteristics of Power-electronics-based Power Systems. Scientific Reports, 2020, 10, 9946.	1.6	15
15	Origin of amplitude synchronization in coupled nonidentical oscillators. Physical Review E, 2020, 101, 022210.	0.8	11
16	Swing equation in power systems: Approximate analytical solution and bifurcation curve estimate. Chaos, 2020, 30, 013110.	1.0	17
17	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
18	Sustained oscillations and bifurcations in three-phase voltage source converter tied to AC grid. IET Renewable Power Generation, 2020, 14, 3770-3781.	1.7	19

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19	Dq Admittance Prediction of Grid-Tied VSCs Under Variable Operating Conditions. , 2020, , .		0
20	Relationship between Power Flow Transferring and Path Length using Graph Theory. , 2020, , .		0
21	Phase transition to synchronization in generalized Kuramoto model with low-pass filter. Physical Review E, 2019, 100, 012209.	0.8	13
22	Perturbation analysis and comparison of network synchronization methods. Physical Review E, 2019, 99, 052207.	0.8	5
23	Quenching and revival of oscillations induced by coupling through adaptive variables. Physical Review E, 2019, 99, 032214.	0.8	15
24	Nonlinear analysis of a simple amplitudeâ€“phase motion equation for power-electronics-based power system. Nonlinear Dynamics, 2019, 95, 1965-1976.	2.7	10
25	Equal-area criterion in power systems revisited. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170733.	1.0	9
26	Amplitude death in globally coupled oscillators with time-scale diversity. Physical Review E, 2018, 98, .	0.8	12
27	Constructing backbone network by using tinker algorithm. Frontiers of Physics, 2017, 12, 1.	2.4	3
28	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
29	Global Stability of the Sync with Amplitude Effects. SIAM Journal on Applied Dynamical Systems, 2017, 16, 1923-1945.	0.7	4
30	Power-functional network. Chaos, 2017, 27, 083116.	1.0	5
31	Revoking amplitude and oscillation deaths by low-pass filter in coupled oscillators. Physical Review E, 2017, 95, 062206.	0.8	18
32	Insensitivity of synchronization to network structure in chaotic pendulum systems with time-delay coupling. Chaos, 2017, 27, 126702.	1.0	11
33	Dynamics and Collapse in a Power System Model with Voltage Variation: The Damping Effect. PLoS ONE, 2016, 11, e0165943.	1.1	19
34	Enhancing dynamical robustness in aging networks of coupled nonlinear oscillators. Europhysics Letters, 2016, 114, 40004.	0.7	26
35	An Algorithm for Finding the Singleton Attractors and Pre-Images in Strong-Inhibition Boolean Networks. PLoS ONE, 2016, 11, e0166906.	1.1	5
36	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

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37	Oscillator death induced by amplitude-dependent coupling in repulsively coupled oscillators. <i>Physical Review E</i> , 2015, 91, 052902.	0.8	11
38	Wavelet transformed Gaussian network model. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1450053.	1.8	2
39	Single-clustering synchronization in a ring of Kuramoto oscillators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 125101.	0.7	8
40	Network approach to the pinning control of drift-wave turbulence. <i>Physical Review E</i> , 2014, 89, 062918.	0.8	2
41	Network reconstruction by linear dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 404, 118-125.	1.2	10
42	Firing rates of coupled noisy excitable elements. <i>Frontiers of Physics</i> , 2014, 9, 120-127.	2.4	10
43	Clustering versus non-clustering phase synchronizations. <i>Chaos</i> , 2014, 24, 013104.	1.0	9
44	Ragged oscillation death in coupled nonidentical oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 2874-2882.	1.7	6
45	Control for a synchronization-desynchronization switch. <i>Physical Review E</i> , 2014, 90, 012909.	0.8	17
46	MIB Galerkin method for elliptic interface problems. <i>Journal of Computational and Applied Mathematics</i> , 2014, 272, 195-220.	1.1	30
47	Dynamical robustness analysis of weighted complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 4181-4191.	1.2	40
48	Reviving Oscillations in Coupled Nonlinear Oscillators. <i>Physical Review Letters</i> , 2013, 111, 014101.	2.9	83
49	Effects of frequency-degree correlation on synchronization transition in scale-free networks. <i>Europhysics Letters</i> , 2013, 101, 38002.	0.7	44
50	High frequency forcing on nonlinear systems. <i>Chinese Physics B</i> , 2013, 22, 030503.	0.7	6
51	Intermittent and sustained periodic windows in networked chaotic Rössler oscillators. <i>Chaos</i> , 2013, 23, 043139.	1.0	3
52	Matching Rules for Collective Behaviors on Complex Networks: Optimal Configurations for Vibration Frequencies of Networked Harmonic Oscillators. <i>PLoS ONE</i> , 2013, 8, e82161.	1.1	9
53	Inhomogeneous stationary and oscillatory regimes in coupled chaotic oscillators. <i>Chaos</i> , 2012, 22, 033144.	1.0	24
54	Synchronous patterns in complex systems. <i>Physical Review E</i> , 2012, 85, 066208.	0.8	23

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55	Synchronizing large number of nonidentical oscillators with small coupling. <i>Europhysics Letters</i> , 2012, 97, 40005.	0.7	29
56	Adaptively deformed mesh based interface method for elliptic equations with discontinuous coefficients. <i>Journal of Computational Physics</i> , 2012, 231, 1440-1461.	1.9	14
57	MIB method for elliptic equations with multi-material interfaces. <i>Journal of Computational Physics</i> , 2011, 230, 4588-4615.	1.9	18
58	Pattern formation of coupled spiral waves in bilayer systems: Rich dynamics and high-frequency dominance. <i>Physical Review E</i> , 2011, 84, 056204.	0.8	19
59	Frequency-resonance-enhanced vibrational resonance in bistable systems. <i>Physical Review E</i> , 2011, 83, 061122.	0.8	37
60	Insensitive dependence of delay-induced oscillation death on complex networks. <i>Chaos</i> , 2011, 21, 023130.	1.0	31
61	Projective synchronization of two coupled excitable spiral waves. <i>Chaos</i> , 2011, 21, 023107.	1.0	16
62	Simple electronic circuit model for diversity-induced resonance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2446-2451.	0.9	9
63	Theoretical study for regulatory property of scaffold protein on MAPK cascade: A qualitative modeling. <i>Biophysical Chemistry</i> , 2010, 147, 130-139.	1.5	6
64	Stationary patterns in a discrete bistable reaction-diffusion system: mode analysis. <i>Chinese Physics B</i> , 2010, 19, 100509.	0.7	1
65	Taming turbulence in the complex Ginzburg-Landau equation. <i>Physical Review E</i> , 2010, 81, 036211.	0.8	3
66	Signal transmission by vibrational resonance in one-way coupled bistable systems. <i>Physical Review E</i> , 2010, 81, 061129.	0.8	83
67	Novel type of amplitude spiral wave in a two-layer system. <i>Chaos</i> , 2010, 20, 043132.	1.0	10
68	Eliminating delay-induced oscillation death by gradient coupling. <i>Physical Review E</i> , 2010, 82, 056203.	0.8	44
69	Transition zone in controlling spatiotemporal chaos. <i>Physical Review E</i> , 2009, 79, 056214.	0.8	5
70	Partial time-delay coupling enlarges death island of coupled oscillators. <i>Physical Review E</i> , 2009, 80, 065204.	0.8	63
71	Oscillation death in coupled oscillators. <i>Frontiers of Physics in China</i> , 2009, 4, 97-110.	1.0	25
72	Information propagation from IP3 to target protein: A combined model for encoding and decoding of Ca ²⁺ signal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4105-4114.	1.2	12

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73	Non-local coexistence of multiple spiral waves with independent frequencies. Chaos, Solitons and Fractals, 2009, 40, 229-236.	2.5	1
74	Frozen state of spiral waves in excitable media. Chaos, 2009, 19, 033133.	1.0	11
75	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
76	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
77	Complete synchronization in coupled limit-cycle systems. Europhysics Letters, 2008, 81, 10006.	0.7	16
78	Periodic Windows in Weakly Coupled Map Lattices. Communications in Theoretical Physics, 2008, 49, 669-672.	1.1	4
79	Filament-Induced Surface Spiral Turbulence in Three-Dimensional Excitable Media. Physical Review Letters, 2008, 101, 208302.	2.9	27
80	Electric-field-induced wave groupings of spiral waves with oscillatory dispersion relation. Physical Review E, 2008, 78, 016214.	0.8	18
81	Complete periodic synchronization in coupled systems. Chaos, 2008, 18, 043115.	1.0	9
82	Pattern with kinks and pulses in coupled periodic map lattices. Physical Review E, 2007, 76, 036215.	0.8	5
83	Chaos synchronization in coupled systems by applying pinning control. Physical Review E, 2007, 76, 036203.	0.8	25
84	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
85	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
86	Chaos desynchronization in strongly coupled systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 464-468.	0.9	5
87	Destruction of spiral waves in chaotic media. Physical Review E, 2006, 73, 026224.	0.8	19
88	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
89	Spatially periodic and temporally chaotic pattern in coupled nonidentical chaotic systems. Chaos, Solitons and Fractals, 2005, 24, 767-774.	2.5	1
90	Public-key encryption based on generalized synchronization of coupled map lattices. Chaos, 2005, 15, 023109.	1.0	10

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91	Phase synchronization of a pair of spiral waves. <i>Physical Review E</i> , 2005, 71, 036212.	0.8	27
92	Model for line defects in complex-oscillatory spiral waves. <i>Physical Review E</i> , 2005, 72, 046221.	0.8	23
93	Chaotic digital communication by encoding initial conditions. <i>Chaos</i> , 2004, 14, 358-363.	1.0	10
94	Strange Nonchaotic Attractors in Random Dynamical Systems. <i>Physical Review Letters</i> , 2004, 92, 074102.	2.9	38
95	Spurious synchronization in non-diagonally coupled identical Lorenz oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 326, 349-354.	0.9	4
96	Error function attack of chaos synchronization based encryption schemes. <i>Chaos</i> , 2004, 14, 128-137.	1.0	47
97	Measure synchronization in coupled Hamiltonian systems. <i>Physical Review E</i> , 2003, 67, 066215.	0.8	38
98	Complete synchronization and generalized synchronization of one-way coupled time-delay systems. <i>Physical Review E</i> , 2003, 68, 036208.	0.8	98
99	Transition from intermittency to periodicity in lag synchronization in coupled Rössler oscillators. <i>Physical Review E</i> , 2002, 65, 036202.	0.8	69
100	Coherence resonance near the Hopf bifurcation in coupled chaotic oscillators. <i>Physical Review E</i> , 2002, 66, 036201.	0.8	12
101	Pattern formation of spiral waves in an inhomogeneous medium with small-world connections. <i>Physical Review E</i> , 2002, 65, 055204.	0.8	84
102	Tailoring Wavelets for Chaos Control. <i>Physical Review Letters</i> , 2002, 89, 284103.	2.9	58
103	TRANSITION FROM HIGH-DIMENSIONAL CHAOS TO PERIODICITY BY WEAK MUTUAL RESONANT INTERACTIONS. , 2002, , .		0
104	Periodic states with functional phase relation in weakly coupled chaotic Hindmarsh-Rose neurons. <i>Physica D: Nonlinear Phenomena</i> , 2001, 156, 314-324.	1.3	19
105	Phase locking in on-off intermittency. <i>Physical Review E</i> , 2001, 64, 066203.	0.8	10
106	Generalized Splay State in Coupled Chaotic Oscillators Induced by Weak Mutual Resonant Interactions. <i>Physical Review Letters</i> , 2001, 86, 1510-1513.	2.9	22
107	Intermingled basins and on-off intermittency in a multistate system. <i>Physical Review E</i> , 2000, 62, 375-383.	0.8	12
108	Nonlocal chaotic phase synchronization. <i>Physical Review E</i> , 2000, 62, 3552-3557.	0.8	24

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109	Synchronization of chaos in coupled systems. Physical Review E, 2000, 62, 2963-2966.	0.8	65
110	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