

Senthilkumar Dharmapuri Vijayan

List of Publications by Year in descending order

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77
papers

1,367
citations

411340

20
h-index

425179

34
g-index

77
all docs

77
docs citations

77
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of asymmetric parameters in higher-order coupling with bimodal frequency distribution. <i>Physical Review E</i> , 2022, 105, 034307.	0.8	4
2	Exotic states induced by coevolving connection weights and phases in complex networks. <i>Physical Review E</i> , 2022, 105, 034312.	0.8	9
3	Oscillation quenching in diffusively coupled dynamical networks with inertial effects. <i>Chaos</i> , 2022, 32, 041102.	1.0	3
4	Role of limiting dispersal on metacommunity stability and persistence. <i>Physical Review E</i> , 2022, 105, 034309.	0.8	0
5	Metacommunity stability and persistence for predation turnoff in selective patches. <i>Ecological Modelling</i> , 2022, 470, 110014.	1.2	0
6	Dynamical robustness in a heterogeneous network of globally coupled nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110396.	2.5	3
7	Symmetry-breaking-induced tipping to aging. <i>European Physical Journal: Special Topics</i> , 2021, 230, 3181-3188.	1.2	1
8	Rate-induced tipping and regime shifts in a spatial ecological system. <i>European Physical Journal: Special Topics</i> , 2021, 230, 3221-3227.	1.2	3
9	Metacommunity persistence to environmental change: Stabilizing and destabilizing effects of individual species dispersal. <i>Physical Review E</i> , 2021, 104, 024202.	0.8	1
10	Quenching, aging, and reviving in coupled dynamical networks. <i>Physics Reports</i> , 2021, 931, 1-72.	10.3	62
11	Nontrivial amplitude death in coupled parity-time-symmetric Li ⁺ ard oscillators. <i>Physical Review E</i> , 2021, 104, 054204.	0.8	1
12	Role of phase-dependent influence function in the Winfree model of coupled oscillators. <i>Physical Review E</i> , 2021, 104, 064206.	0.8	0
13	Symmetry breaking dynamics induced by mean-field density and low-pass filter. <i>Chaos</i> , 2020, 30, 053120.	1.0	5
14	Symmetry breaking-induced state-dependent aging and chimera-like death state. <i>Nonlinear Dynamics</i> , 2020, 101, 53-64.	2.7	10
15	Trade-off between filtering and symmetry breaking mean-field coupling in inducing macroscopic dynamical states. <i>New Journal of Physics</i> , 2020, 22, 093024.	1.2	5
16	Inhomogeneous to homogeneous dynamical states through symmetry breaking dynamics. <i>Nonlinear Dynamics</i> , 2019, 98, 327-340.	2.7	8
17	Local and global chimera states in a four-oscillator system. <i>Physical Review E</i> , 2019, 100, 032211.	0.8	6
18	Frustration induced transient chaos, fractal and riddled basins in coupled limit cycle oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 72, 586-599.	1.7	14

#	ARTICLE	IF	CITATIONS
19	Quenching and revival of oscillations induced by coupling through adaptive variables. <i>Physical Review E</i> , 2019, 99, 032214.	0.8	15
20	Long-range interaction induced collective dynamical behaviors. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 184001.	0.7	15
21	Aging transition under weighted conjugate coupling. <i>Europhysics Letters</i> , 2019, 128, 58003.	0.7	5
22	Aging transition in the absence of inactive oscillators. <i>Chaos</i> , 2019, 29, 123117.	1.0	10
23	Revival and death of oscillation under mean-field coupling: Interplay of intrinsic and extrinsic filtering. <i>Physical Review E</i> , 2019, 100, 052212.	0.8	11
24	Distinct collective states due to trade-off between attractive and repulsive couplings. <i>Physical Review E</i> , 2018, 97, 032207.	0.8	35
25	Chimera at the phase-flip transition of an ensemble of identical nonlinear oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 59, 30-46.	1.7	12
26	Imperfect Amplitude Mediated Chimera States in a Nonlocally Coupled Network. <i>Frontiers in Applied Mathematics and Statistics</i> , 2018, 4, .	0.7	11
27	Stable amplitude chimera in a network of coupled Stuart-Landau oscillators. <i>Physical Review E</i> , 2018, 98, .	0.8	31
28	Spontaneous symmetry breaking due to the trade-off between attractive and repulsive couplings. <i>Physical Review E</i> , 2017, 95, 042301.	0.8	12
29	Experimental demonstration of revival of oscillations from death in coupled nonlinear oscillators. <i>Chaos</i> , 2016, 26, 043112.	1.0	17
30	Phase-flip chimera induced by environmental nonlocal coupling. <i>Physical Review E</i> , 2016, 94, 012208.	0.8	21
31	Emergence of a common generalized synchronization manifold in network motifs of structurally different time-delay systems. <i>Chaos, Solitons and Fractals</i> , 2016, 93, 235-245.	2.5	4
32	Effect of asymmetry parameter on the dynamical states of nonlocally coupled nonlinear oscillators. <i>Physical Review E</i> , 2015, 91, 062916.	0.8	13
33	Coexisting coherent and incoherent domains near saddle-node bifurcation. <i>Europhysics Letters</i> , 2015, 111, 60008.	0.7	5
34	Restoration of rhythmicity in diffusively coupled dynamical networks. <i>Nature Communications</i> , 2015, 6, 7709.	5.8	131
35	Dynamic Environment Coupling Induced Synchronized States in Coupled Time-Delayed Electronic Circuits. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1450067.	0.7	15
36	Emergence of amplitude and oscillation death in identical coupled oscillators. <i>Physical Review E</i> , 2014, 90, 032906.	0.8	38

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37	Zero-lag synchronization in coupled time-delayed piecewise linear electronic circuits. European Physical Journal: Special Topics, 2013, 222, 729-744.	1.2	5
38	Amplitude death in nonlinear oscillators with mixed time-delayed coupling. Physical Review E, 2013, 88, 032916.	0.8	17
39	Generalizing the transition from amplitude to oscillation death in coupled oscillators. Physical Review E, 2013, 88, 050901.	0.8	54
40	Exact synchronization bound for coupled time-delay systems. Physical Review E, 2013, 87, 044902.	0.8	2
41	Global generalized synchronization in networks of different time-delay systems. Europhysics Letters, 2013, 103, 50010.	0.7	9
42	Reviving Oscillations in Coupled Nonlinear Oscillators. Physical Review Letters, 2013, 111, 014101.	2.9	83
43	PHASE AND COMPLETE SYNCHRONIZATIONS IN TIME-DELAY SYSTEMS. , 2013, , 404-427.		0
44	Delay coupling enhances synchronization in complex networks. Europhysics Letters, 2012, 98, 10003.	0.7	28
45	Stabilizing oscillation death by multicomponent coupling with mismatched delays. Physical Review E, 2012, 86, 036210.	0.8	18
46	Impact of connection delays on noise-induced spatiotemporal patterns in neuronal networks. Chaos, 2012, 22, 043150.	1.0	19
47	Noise-enhanced phase synchronization in time-delayed systems. Physical Review E, 2012, 85, 026218.	0.8	3
48	Delay-induced synchrony in complex networks with conjugate coupling. Physical Review E, 2012, 85, 057203.	0.8	15
49	GLOBAL AND PARTIAL PHASE SYNCHRONIZATIONS IN ARRAYS OF PIECEWISE LINEAR TIME-DELAY SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250178.	0.7	4
50	Distinguishing dynamics using recurrence-time statistics. Physical Review E, 2012, 85, 026217.	0.8	30
51	Transition to complete synchronization and global intermittent synchronization in an array of time-delay systems. Physical Review E, 2012, 86, 016212.	0.8	5
52	Anticipating, complete and lag synchronizations in RC phase-shift network based coupled Chua's circuits without delay. Chaos, 2012, 22, 023124.	1.0	12
53	Delay-enhanced coherent chaotic oscillations in networks with large disorders. Physical Review E, 2011, 84, 066206.	0.8	2
54	Synchronization transitions in coupled time-delay electronic circuits with a threshold nonlinearity. Chaos, 2011, 21, 023119.	1.0	38

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55	Key role of time-delay and connection topology in shaping the dynamics of noisy genetic regulatory networks. Chaos, 2011, 21, 047522.	1.0	13
56	Complete Synchronization of Chaotic Oscillations in Coupled Time-Delay Systems. Springer Series in Synergetics, 2011, , 127-138.	0.2	0
57	Characteristics and synchronization of time-delay systems driven by a common noise. European Physical Journal: Special Topics, 2010, 187, 87-93.	1.2	9
58	Dynamics between order and chaos revisited. European Physical Journal: Special Topics, 2010, 191, 15-27.	1.2	6
59	Scaling and synchronization in a ring of diffusively coupled nonlinear oscillators. Physical Review E, 2010, 81, 066219.	0.8	5
60	Global phase synchronization in an array of time-delay systems. Physical Review E, 2010, 82, 016215.	0.8	15
61	Current reversals and synchronization in coupled ratchets. Physical Review E, 2010, 82, 046208.	0.8	27
62	Experimental confirmation of chaotic phase synchronization in coupled time-delayed electronic circuits. Physical Review E, 2010, 82, 065201.	0.8	21
63	Stability of synchronization in coupled time-delay systems using Krasovskii-Lyapunov theory. Physical Review E, 2009, 79, 066208.	0.8	22
64	Inverse synchronizations in coupled time-delay systems with inhibitory coupling. Chaos, 2009, 19, 023107.	1.0	18
65	EXPERIMENTAL REALIZATION OF STRANGE NONCHAOTIC ATTRACTORS IN A NONLINEAR SERIES LCR CIRCUIT WITH NONSINUSOIDAL FORCE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4131-4163.	0.7	9
66	Phase synchronization in unidirectionally coupled Ikeda time-delay systems. European Physical Journal: Special Topics, 2008, 164, 35-44.	1.2	8
67	Transition from phase to generalized synchronization in time-delay systems. Chaos, 2008, 18, 023118.	1.0	45
68	Bubbling route to strange nonchaotic attractor in a nonlinear series circuit with a nonsinusoidal force. Physical Review E, 2008, 78, 066211.	0.8	35
69	Power-law persistence characterizes traveling waves in coupled circle maps with repulsive coupling. Physical Review E, 2007, 75, 066208.	0.8	12
70	Intermittency transition to generalized synchronization in coupled time-delay systems. Physical Review E, 2007, 76, 066210.	0.8	16
71	Delay time modulation induced oscillating synchronization and intermittent anticipatory/lag and complete synchronizations in time-delay nonlinear dynamical systems. Chaos, 2007, 17, 013112.	1.0	28
72	Phase synchronization in time-delay systems. Physical Review E, 2006, 74, 035205.	0.8	54

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73	Experimental realization of strange nonchaotic attractors in a quasiperiodically forced electronic circuit. <i>Physical Review E</i> , 2006, 74, 036205.	0.8	57
74	Existence of anticipatory, complete and lag synchronizations in time-delay systems. <i>Journal of Physics: Conference Series</i> , 2005, 23, 300-308.	0.3	4
75	Transition from anticipatory to lag synchronization via complete synchronization in time-delay systems. <i>Physical Review E</i> , 2005, 71, 016211.	0.8	51
76	BIFURCATIONS AND CHAOS IN TIME DELAYED PIECEWISE LINEAR DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 2895-2912.	0.7	22
77	STRONG CHAOS IN A FORCED NEGATIVE CONDUCTANCE SERIES LCR CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 637-651.	0.7	10