Fatemeh Parastesh

List of Publications by Year
in descending order

41 papers	1,319 citations	304602 22 h-index	360920 35 g-index
41 all docs	41 docs citations	41 times ranked	644 citing authors

#	Article	IF	Citations
1	Chimeras. Physics Reports, 2021, 898, 1-114.	10.3	172
2	A fractional-order model for the novel coronavirus (COVID-19) outbreak. Nonlinear Dynamics, 2020, 101, 711-718.	2.7	119
3	Synchronizability of two neurons with switching in the coupling. Applied Mathematics and Computation, 2019, 350, 217-223.	1.4	76
4	Firing patterns of an improved Izhikevich neuron model under the effect of electromagnetic induction and noise. Chaos, Solitons and Fractals, 2020, 137, 109782.	2.5	66
5	Nonstationary chimeras in a neuronal network. Europhysics Letters, 2018, 123, 48003.	0.7	61
6	Synchronization in Hindmarsh–Rose neurons subject to higher-order interactions. Chaos, 2022, 32, 013125.	1.0	61
7	Time delayed chemical synapses and synchronization in multilayer neuronal networks with ephaptic inter-layer coupling. Communications in Nonlinear Science and Numerical Simulation, 2020, 84, 105175.	1.7	57
8	Effects of partial time delays on synchronization patterns in Izhikevich neuronal networks. European Physical Journal B, 2019, 92, 1.	0.6	50
9	Complex dynamics of a neuron model with discontinuous magnetic induction and exposed to external radiation. Cognitive Neurodynamics, 2018, 12, 607-614.	2.3	48
10	Effects of different initial conditions on the emergence of chimera states. Chaos, Solitons and Fractals, 2018, 114, 306-311.	2.5	41
11	Delay-induced synchronization in two coupled chaotic memristive Hopfield neural networks. Chaos, Solitons and Fractals, 2020, 134, 109702.	2.5	38
12	Imperfect chimeras in a ring of four-dimensional simplified Lorenz systems. Chaos, Solitons and Fractals, 2018, 110, 203-208.	2.5	36
13	Chimera in a network of memristor-based Hopfield neural network. European Physical Journal: Special Topics, 2019, 228, 2023-2033.	1.2	36
14	Dynamical behavior and network analysis of an extended Hindmarsh–Rose neuron model. Nonlinear Dynamics, 2019, 98, 477-487.	2.7	36
15	Birth and death of spiral waves in a network of Hindmarsh–Rose neurons with exponential magnetic flux and excitable media. Applied Mathematics and Computation, 2019, 354, 377-384.	1.4	36
16	Blinking coupling enhances network synchronization. Physical Review E, 2022, 105, .	0.8	36
17	Spiral waves in externally excited neuronal network: Solvable model with a monotonically differentiable magnetic flux. Chaos, 2019, 29, 043109.	1.0	32
18	Chimeras in an adaptive neuronal network with burst-timing-dependent plasticity. Neurocomputing, 2020, 406, 117-126.	3.5	31

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19	A New Memristive Neuron Map Model and Its Network's Dynamics under Electrochemical Coupling. Electronics (Switzerland), 2022, 11, 153.	1.8	30
20	Collective behavior in a two-layer neuronal network with time-varying chemical connections that are controlled by a Petri net. Chaos, 2021, 31, 033138.	1.0	28
21	Wave propagation and spiral wave formation in a Hindmarsh–Rose neuron model with fractional-order threshold memristor synaps. International Journal of Modern Physics B, 2020, 34, 2050157.	1.0	27
22	Traveling patterns in a network of memristor-based oscillators with extreme multistability. European Physical Journal: Special Topics, 2019, 228, 2123-2131.	1.2	26
23	Synchronization and chimera states in the network of electrochemically coupled memristive Rulkov neuron maps. Mathematical Biosciences and Engineering, 2021, 18, 9394-9409.	1.0	26
24	Effects of autapse on the chimera state in a Hindmarsh-Rose neuronal network. Chaos, Solitons and Fractals, 2021, 153, 111498.	2.5	23
25	Transitions from chimeras to coherence: An analytical approach by means of the coherent stability function. Physical Review E, 2019, 100, 012315.	0.8	20
26	Complete dynamical analysis of a neocortical network model. Nonlinear Dynamics, 2020, 100, 2699-2714.	2.7	20
27	Chimera State in the Network of Fractional-Order FitzHugh–Nagumo Neurons. Complexity, 2021, 2021, 1-9.	0.9	15
28	Synchronization patterns in a blinking multilayer neuronal network. European Physical Journal: Special Topics, 2019, 228, 2465-2474.	1.2	12
29	The role of coupling factors on the emergence of synchronization and chimera patterns in network of non-locally coupled pancreatic β-cells. Europhysics Letters, 2019, 125, 60001.	0.7	11
30	Relay interlayer synchronisation: invariance and stability conditions. Nonlinearity, 2022, 35, 681-718.	0.6	11
31	Synchronization in a Multiplex Network of Nonidentical Fractional-Order Neurons. Fractal and Fractional, 2022, 6, 169.	1.6	10
32	Is There a Relation Between Synchronization Stability and Bifurcation Type?. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050123.	0.7	6
33	Observation of chimera patterns in a network of symmetric chaotic finance systems. Communications in Theoretical Physics, 2020, 72, 105003.	1.1	5
34	Role of links on the structural properties of different network topologies. Europhysics Letters, 2021, 133, 40001.	0.7	4
35	Detecting chimeras by eigenvalue decomposition of the bivariate local order parameter. Europhysics Letters, 2020, 130, 28003.	0.7	4
36	Simplest symmetric chaotic flows: the strange case of asymmetry in Master Stability Function. European Physical Journal: Special Topics, 2021, 230, 1999-2010.	1.2	3

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37	Extended non-stationary chimera-like region in a network of non-identical coupled Van der Pol's oscillators. European Physical Journal: Special Topics, 2020, 229, 2239-2247.	1.2	2
38	Chimera state in a network of nonlocally coupled impact oscillators. Journal of Zhejiang University: Science A, 2021, 22, 235-244.	1.3	2
39	Different properties of neuronal networks matter for the emergence of chimera states. Physics of Life Reviews, 2019, 28, 128-130.	1.5	1
40	An optimization method to keep synchronization features when decreasing network nodes. European Physical Journal: Special Topics, 0, , .	1.2	1
41	Equivalent synchronization patterns in chaotic jerk systems. Europhysics Letters, 0, , .	0.7	0