A review for dynamics in neuron and neuronal network

#	Paper	IF	Citations
288	Synchronization between neurons coupled by memristor. *Chaos, Solitons and Fractals*, **2017**, 104, 435-442	9.3	84
287	Transitions between classes of neuronal excitability and bifurcations induced by autapse. **2017**, 7, 6760		48
286	Synchronization stability and pattern selection in a memristive neuronal network. *Chaos*, **2017**, 27, 113108	3.3	29
285	Modeling of epilepsy based on chaotic artificial neural network. *Chaos, Solitons and Fractals*, **2017**, 105, 150-156	9.3	31
284	Collective response, synapse coupling and field coupling in neuronal network. *Chaos, Solitons and Fractals*, **2017**, 105, 120-127	9.3	41
283	Neural adaptive dynamic surface control for uncertain strict-feedback nonlinear systems with nonlinear output and virtual feedback errors. *Nonlinear Dynamics*, **2017**, 90, 2851-2867	5	12
282	Coexisting Behaviors of Asymmetric Attractors in Hyperbolic-Type Memristor based Hopfield Neural Network. *Frontiers in Computational Neuroscience*, **2017**, 11, 81	3.5	89
281	A Route to Chaotic Behavior of Single Neuron Exposed to External Electromagnetic Radiation. *Frontiers in Computational Neuroscience*, **2017**, 11, 94	3.5	10
280	Mixed Stimulus-Induced Mode Selection in Neural Activity Driven by High and Low Frequency Current under Electromagnetic Radiation. **2017**, 2017, 1-11		31
279	Self-organization in a diversity induced thermodynamics. **2017**, 12, e0188753		1
278	Synchronous dynamics in neural system coupled with memristive synapse. *Nonlinear Dynamics*, **2018**, 92, 1395-1402	5	54
277	AC-induced coexisting asymmetric bursters in the improved Hindmarsh Rose model. *Nonlinear Dynamics*, **2018**, 92, 1695-1706	5	45
276	Field coupling-induced pattern formation in two-layer neuronal network. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 501, 141-152	3.3	15
275	Combined effects of time delay and noise on the ability of neuronal network to detect the subthreshold signal. *Nonlinear Dynamics*, **2018**, 92, 1707-1717	5	10
274	Symmetric periodic bursting behavior and bifurcation mechanism in a third-order memristive diode bridge-based oscillator. *Chaos, Solitons and Fractals*, **2018**, 109, 146-153	9.3	44
273	Dynamical analysis and circuit implementation of a DC/DC single-stage boost converter with memristance load. *Nonlinear Dynamics*, **2018**, 93, 1741-1755	5	12
272	Chimera states in neuronal networks with time delay and electromagnetic induction. *Nonlinear Dynamics*, **2018**, 93, 1695-1704	5	16

271	Effects of intrinsic and extrinsic noises on transposons kinetics. *Chinese Physics B*, **2018**, 27, 030501	1.2	7
270	Investigation of dynamical behaviors of neurons driven by memristive synapse. *Chaos, Solitons and Fractals*, **2018**, 108, 15-24	9.3	27
269	Dynamical stability in a delayed neural network with reaction–diffusion and coupling. *Nonlinear Dynamics*, **2018**, 92, 1197-1215	5	6
268	Spatial evolution of Hindmarsh–Rose neural network with time delays. *Nonlinear Dynamics*, **2018**, 92, 751-761	5	5
267	Collective responses in electrical activities of neurons under field coupling. **2018**, 8, 1349		78
266	Dynamics of scroll waves with time-delay propagation in excitable media. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 59, 331-337	3.7	14
265	Weak periodic signal detection by sine-Wiener-noise-induced resonance in the FitzHugh-Nagumo neuron. *Cognitive Neurodynamics*, **2018**, 12, 343-349	4.2	50
264	Dynamics of transitions from anti-phase to multiple in-phase synchronizations in inhibitory coupled bursting neurons. *Nonlinear Dynamics*, **2018**, 93, 1599-1618	5	28
263	Numerical and experimental confirmations of quasi-periodic behavior and chaotic bursting in third-order autonomous memristive oscillator. *Chaos, Solitons and Fractals*, **2018**, 106, 161-170	9.3	53
262	A review and guidance for pattern selection in spatiotemporal system. *International Journal of Modern Physics B*, **2018**, 32, 1830003	1.1	75
261	Multi-channels coupling-induced pattern transition in a tri-layer neuronal network. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 493, 54-68	3.3	10
260	Neuron modeling: estimating the parameters of a neuron model from neural spiking data. **2018**, 26, 2301-2314		0
259	Signal transmission by autapse with constant or time-periodic coupling intensity in the FitzHugh–Nagumo neuron. *European Physical Journal: Special Topics*, **2018**, 227, 757-766	2.3	12
258	Global firing rate contrast enhancement in E/I neuronal networks by recurrent synchronized inhibition. *Chaos*, **2018**, 28, 106324	3.3	11
257	Elimination of spiral waves in excitable media by magnetic induction. *Nonlinear Dynamics*, **2018**, 94, 679-692	5	31
256	Effect of stochastic electromagnetic disturbances on autapse neuronal systems. *Chinese Physics B*, **2018**, 27, 118707	1.2	10
255	Autaptic modulation-induced neuronal electrical activities and wave propagation on network under electromagnetic induction. *European Physical Journal: Special Topics*, **2018**, 227, 799-809	2.3	17
254	Spatial patterns in a network composed of neurons with different excitabilities induced by autapse. *European Physical Journal: Special Topics*, **2018**, 227, 821-835	2.3	3

253	Does the onset of epileptic seizure start from a bifurcation point?. *European Physical Journal: Special Topics*, **2018**, 227, 697-705	2.3	10
252	Fast regular firings induced by intra- and inter-time delays in two clustered neuronal networks. *Chaos*, **2018**, 28, 106310	3.3	14
251	Field coupling-induced wave propagation and pattern stability in a two-layer neuronal network under noise. *International Journal of Modern Physics B*, **2018**, 32, 1850298	1.1	10
250	Diffusion induced spiral wave chimeras in ecological system. *European Physical Journal: Special Topics*, **2018**, 227, 983-993	2.3	26
249	Extreme events in epileptic EEG of rodents after ischemic stroke. *European Physical Journal: Special Topics*, **2018**, 227, 921-932	2.3	15
248	Effects of temperature and electromagnetic induction on action potential of Hodgkin-Huxley model. *European Physical Journal: Special Topics*, **2018**, 227, 767-776	2.3	13
247	Effect of degree correlation on the thermal transport in complex networks. *Nonlinear Dynamics*, **2018**, 94, 3067-3075	5	2
246	Two-cluster spiking activity induced by a subthreshold periodic stimulus in homogenous neuronal ensembles. **2018**, 8, 095301		
245	Effects of multiple delays on dynamics of a five-neuron network model. *Nonlinear Dynamics*, **2018**, 94, 87-98	5	1
244	Cryptanalysis and improvement in an image encryption scheme using combination of the 1D chaotic map. *Nonlinear Dynamics*, **2018**, 93, 2399-2413	5	43
243	Coherence resonance in an autaptic Hodgkin-Huxley neuron with time delay. *Nonlinear Dynamics*, **2018**, 94, 141-150	5	26
242	Subthreshold Periodic Signal Detection by Bounded Noise-Induced Resonance in the FitzHugh-Nagumo Neuron. **2018**, 2018, 1-10		17
241	Three-Dimensional Memristive Hindmarsh-Rose Neuron Model with Hidden Coexisting Asymmetric Behaviors. **2018**, 2018, 1-11		61
240	Stability and Spatiotemporal Bifurcations in Spatially Distributed Neural Networks with Nonlocal Delay. **2018**, 73, 815-823		
239	Complex dynamics of a neuron model with discontinuous magnetic induction and exposed to external radiation. *Cognitive Neurodynamics*, **2018**, 12, 607-614	4.2	25
238	Alternating chimeras in networks of ephaptically coupled bursting neurons. *Chaos*, **2018**, 28, 083113	3.3	44
237	Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. **2018**, 2018, 1-13		23
236	A chaotic model of migraine headache considering the dynamical transitions of this cyclic disease. **2018**, 123, 10006		5

235	Chimera states and synchronization behavior in multilayer memristive neural networks. *Nonlinear Dynamics*, **2018**, 94, 775-783	5	29
234	Chaos and multi-scroll attractors in RCL-shunted junction coupled Jerk circuit connected by memristor. **2018**, 13, e0191120		43
233	Synchronization and firing patterns of coupled Rulkov neuronal map. *Nonlinear Dynamics*, **2018**, 94, 785-805	5	30
232	Synchronization and wave propagation in neuronal network under field coupling. *Science China Technological Sciences*, **2019**, 62, 448-457	3.5	59
231	Spatiotemporal dynamics near the Turing-Hopf bifurcation in a toxic-phytoplankton-zooplankton model with cross-diffusion. *Nonlinear Dynamics*, **2019**, 98, 27-37	5	12
230	Stochastic dynamics of conduction failure of action potential along nerve fiber with Hopf bifurcation. *Science China Technological Sciences*, **2019**, 62, 1502-1511	3.5	9
229	Electrochemical methods for analysing and controlling charge transfer at the electrode-tissue interface. **2019**, 16, 143-148		8
228	Bifurcations of enhanced neuronal bursting activities induced by the negative current mediated by inhibitory autapse. *Nonlinear Dynamics*, **2019**, 97, 2091-2105	5	24
227	Spontaneous electromagnetic induction promotes the formation of economical neuronal network structure via self-organization process. **2019**, 9, 9698		4
226	Dynamic property analysis and circuit implementation of simplified memristive Hodgkin-Huxley neuron model. *Nonlinear Dynamics*, **2019**, 97, 1721-1733	5	18
225	Modeling of Neurodegenerative Diseases Using Discrete Chaotic Systems. **2019**, 71, 1241		5
224	Synchronization between memristive and initial-dependent oscillators driven by noise. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 536, 122598	3.3	10
223	Chemical synaptic multiplexing enhances rhythmicity in neuronal networks. *Nonlinear Dynamics*, **2019**, 98, 1659-1668	5	17
222	Pattern Dynamics in a Predator-Prey Model with Schooling Behavior and Cross-Diffusion. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1950146	2	2
221	Synchronization in a network of chaotic memristive jerk oscillators. *European Physical Journal: Special Topics*, **2019**, 228, 2147-2155	2.3	1
220	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. *Nonlinear Dynamics*, **2019**, 98, 1629-1643	5	6
219	Effects of memristor-based coupling in the ensemble of FitzHugh-Nagumo elements. *European Physical Journal: Special Topics*, **2019**, 228, 2325-2337	2.3	5
218	Coexistence of periodic and strange attractor in a memristive band pass filter circuit with amplitude control. *European Physical Journal: Special Topics*, **2019**, 228, 2011-2021	2.3	4

217	Effects of electromagnetic induction on signal propagation and synchronization in multilayer Hindmarsh-Rose neural networks. *European Physical Journal: Special Topics*, **2019**, 228, 2455-2464	2.3	8
216	Spiking activities in chain neural network driven by channel noise with field coupling. *Nonlinear Dynamics*, **2019**, 95, 3237-3247	5	59
215	Spiral wave in a two-layer neuronal network. *European Physical Journal: Special Topics*, **2019**, 228, 2371-2379	2.3	7
214	Non-ideal memristor synapse-coupled bi-neuron Hopfield neural network: Numerical simulations and breadboard experiments. **2019**, 111, 152894		37
213	Different transitions of bursting and mixed-mode oscillations in Liéard system. **2019**, 111, 152898		5
212	Dynamical behavior and network analysis of an extended Hindmarsh–Rose neuron model. *Nonlinear Dynamics*, **2019**, 98, 477-487	5	17
211	Oscillation dynamics in an extended model of thalamic-basal ganglia. *Nonlinear Dynamics*, **2019**, 98, 1065-1080	5	10
210	Synchronous behavior among different regions of the neural system induced by electromagnetic radiation. *Nonlinear Dynamics*, **2019**, 98, 1267-1274	5	7
209	Effects of astrocyte on weak signal detection performance of Hodgkin–Huxley neuron. *Nonlinear Dynamics*, **2019**, 95, 3411-3421	5	11
208	Neural energy mechanism and neurodynamics of memory transformation. *Nonlinear Dynamics*, **2019**, 97, 697-714	5	10
207	Enhancement of weak signal detection in the Hodgkin–Huxley neuron subjected to electromagnetic fluctuation. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 531, 121734	3.3	7
206	Influence of Time Delay in Signal Transmission on Synchronization between Two Coupled FitzHugh-Nagumo Neurons. **2019**, 9, 2159		4
205	Wave propagation in a network of interacting nephrons. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 530, 121566	3.3	0
204	Dynamical Effects of Neuron Activation Gradient on Hopfield Neural Network: Numerical Analyses and Hardware Experiments. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1930010	2	27
203	Electrical activities of neural systems exposed to sinusoidal induced electric field with random phase. *Science China Technological Sciences*, **2019**, 62, 1141-1150	3.5	9
202	Controlling Chaotic Resonance using External Feedback Signals in Neural Systems. **2019**, 9, 4990		11
201	Event-triggered control for the synchronization of Boolean control networks. *Nonlinear Dynamics*, **2019**, 96, 1335-1344	5	25
200	Self-sustained oscillation in a memristor circuit. *Nonlinear Dynamics*, **2019**, 96, 1267-1281	5	3

199	Identifying nonlinear dynamics of brain functional networks of patients with schizophrenia by sample entropy. *Nonlinear Dynamics*, **2019**, 96, 2327-2340	5	16
198	Effects of coupling strength and network topology on signal detection in small-world neuronal networks. *Nonlinear Dynamics*, **2019**, 96, 2145-2155	5	19
197	Spontaneous Electromagnetic Induction Modulating the Neuronal Dynamical Response. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1950005	2	8
196	Transmission and detection of biharmonic envelope signal in a feed-forward multilayer neural network. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 523, 797-806	3.3	13
195	Bipolar Pulse-Induced Coexisting Firing Patterns in Two-Dimensional Hindmarsh-Rose Neuron Model. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1950006	2	20
194	Effects of partial time delays on synchronization patterns in Izhikevich neuronal networks. *European Physical Journal B*, **2019**, 92, 1	1.2	32
193	A Novel Threshold Across which the Negative Stimulation Evokes Action Potential Near a Saddle-Node Bifurcation in a Neuronal Model with Ih Current. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1950198	2	10
192	Neuronal communication: Stochastic neuron dynamics and multi-synchrony states. **2019**, 100, 75-85		3
191	Efficient Activation of Nanomechanical Resonators. **2019**, 5, 1800356		0
190	The dynamics of ensemble of neuron-like elements with excitatory couplings. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 71, 38-49	3.7	10
189	Dynamics of a stochastic system driven by cross-correlated sine-Wiener bounded noises. *Nonlinear Dynamics*, **2019**, 95, 1941-1956	5	22
188	Electromagnetic induction on a map-based action potential model. *Nonlinear Dynamics*, **2019**, 95, 433-444	5	5
187	Influence of memristor and noise on HR neurons. *Nonlinear Dynamics*, **2019**, 95, 239-257	5	7
186	Impacts of the cross-correlated noises on the fluctuation behaviors of a gene transcriptional regulatory system. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 514, 580-591	3.3	9
185	A plethora of behaviors in a memristor based Hopfield neural networks (HNNs). **2019**, 7, 36-52		36
184	Introduction to Neuro-Memristive Systems. **2020**, 3-12		1
183	Hidden Bursting Firings and Bifurcation Mechanisms in Memristive Neuron Model With Threshold Electromagnetic Induction. **2020**, 31, 502-511		103
182	Energy estimation and coupling synchronization between biophysical neurons. *Science China Technological Sciences*, **2020**, 63, 625-636	3.5	24

181	The emergence of chimera states in a network of nephrons. *Chinese Journal of Physics*, **2020**, 63, 402-409.	3.5	2
180	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	3.7	28
179	One dimensional map-based neuron model: A phase space interpretation. *Chaos, Solitons and Fractals*, **2020**, 132, 109558	9.3	5
178	A review on computational intelligence for identification of nonlinear dynamical systems. *Nonlinear Dynamics*, **2020**, 99, 1709-1761	5	39
177	Formation of spiral wave in Hodgkin-Huxley neuron networks with Gamma-distributed synaptic input. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 83, 105112	3.7	8
176	Hidden extreme multistability with hyperchaos and transient chaos in a Hopfield neural network affected by electromagnetic radiation. *Nonlinear Dynamics*, **2020**, 99, 2369-2386	5	75
175	Propagation characteristics of weak signal in feedforward Izhikevich neural networks. *Nonlinear Dynamics*, **2020**, 99, 2355-2367	5	21
174	Collective sustained oscillations in excitable small-world networks: the moderate fundamental loop or the minimum Winfree loop?. *Nonlinear Dynamics*, **2020**, 99, 1415-1431	5	1
173	Bifurcation mechanism of periodic bursting in a simple three-element-based memristive circuit with fast-slow effect. *Chaos, Solitons and Fractals*, **2020**, 131, 109524	9.3	15
172	Remote synchronization in human cerebral cortex network with identical oscillators. *Nonlinear Dynamics*, **2020**, 99, 1577-1586	5	12
171	Memristor initial-boosted coexisting plane bifurcations and its extreme multi-stability reconstitution in two-memristor-based dynamical system. *Science China Technological Sciences*, **2020**, 63, 603-613	3.5	52
170	Enhancement of synchronized chaotic state in a delay-coupled complex neuronal network. *Nonlinear Dynamics*, **2020**, 102, 745-758	5	3
169	Pattern control of external electromagnetic stimulation to neuronal networks. *Nonlinear Dynamics*, **2020**, 102, 2739-2757	5	5
168	Coexisting behaviors of a fraction-order novel hyperbolic-type memristor Hopfield neuron network based on three neurons. *International Journal of Modern Physics B*, **2020**, 34, 2050302	1.1	2
167	A review of computational modeling and deep brain stimulation: applications to Parkinson's disease. **2020**, 41, 1-22		14
166	Investigating bifurcation points of neural networks: application to the epileptic seizure. *European Physical Journal B*, **2020**, 93, 1	1.2	0
165	Bifurcation and Potential Landscape of p53 Dynamics Depending on PDCD5 Level and ATM Degradation Rate. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2020**, 30, 2050134	2	3
164	Transition of Neural Activity From the Chaotic Bipolar-Disorder State to the Periodic Healthy State Using External Feedback Signals. *Frontiers in Computational Neuroscience*, **2020**, 14, 76	3.5	6

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163	Paradoxical reduction and the bifurcations of neuronal bursting activity modulated by positive self-feedback. *Nonlinear Dynamics*, **2020**, 101, 2383-2399	5	5
162	Resonance induced by mixed couplings in a three-node motif. *Nonlinear Dynamics*, **2020**, 102, 635-642	5	2
161	Emerging Materials for Neuromorphic Devices and Systems. **2020**, 23, 101846		21
160	Initial offset boosting coexisting attractors in memristive multi-double-scroll Hopfield neural network. *Nonlinear Dynamics*, **2020**, 102, 2821-2841	5	54
159	Effect of field coupling on the wave propagation in the neuronal network. *Chaos, Solitons and Fractals*, **2020**, 141, 110249	9.3	
158	Route to hyperchaos and chimera states in a network of modified Hindmarsh-Rose neuron model with electromagnetic flux and external excitation. *European Physical Journal: Special Topics*, **2020**, 229, 929-942	2.3	9
157	Bifurcations and excitability in the temperature-sensitive Morris□ecar neuron. *Nonlinear Dynamics*, **2020**, 100, 2687-2698	5	7
156	Complete dynamical analysis of a neocortical network model. *Nonlinear Dynamics*, **2020**, 100, 2699-2714	5	6
155	Emergence of Mixed Mode Oscillations in Random Networks of Diverse Excitable Neurons: The Role of Neighbors and Electrical Coupling. *Frontiers in Computational Neuroscience*, **2020**, 14, 49	3.5	8
154	Prediction of bifurcations by varying critical parameters of COVID-19. *Nonlinear Dynamics*, **2020**, 101, 1-12	5	12
153	Signs of memory in a plastic frustrated Kuramoto model of neurons. *Nonlinear Dynamics*, **2020**, 100, 3685-3694	5	2
152	Chaotic dynamics in a neural network with different types of external stimuli. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 90, 105390	3.7	41
151	Different dynamical behaviors induced by slow excitatory feedback for type II and III excitabilities. **2020**, 10, 3646		5
150	A fast technique for calculating master stability function. *International Journal of Modern Physics B*, **2020**, 34, 2050024	1.1	4
149	Dynamic behaviors of hyperbolic-type memristor-based Hopfield neural network considering synaptic crosstalk. *Chaos*, **2020**, 30, 033108	3.3	16
148	Hidden electrical activity of two neurons connected with an asymmetric electric coupling subject to electromagnetic induction: Coexistence of patterns and its analog implementation. *Chaos, Solitons and Fractals*, **2020**, 137, 109785	9.3	14
147	Dynamical response of a neuron□strocyte coupling system under electromagnetic induction and external stimulation. *Chinese Physics B*, **2020**, 29, 030504	1.2	11
146	Memristor synapse-coupled memristive neuron network: synchronization transition and occurrence of chimera. *Nonlinear Dynamics*, **2020**, 100, 937-950	5	44

145	Bifurcation analyses and hardware experiments for bursting dynamics in non-autonomous memristive FitzHugh-Nagumo circuit. *Science China Technological Sciences*, **2020**, 63, 1035-1044	3.5	15
144	Hidden dynamics in a fractional-order memristive HindmarshRose model. *Nonlinear Dynamics*, **2020**, 100, 891-906	5	23
143	New Trends in Nonlinear Dynamics. **2020**,		2
142	Vibrational mono-/bi-resonance and wave propagation in FitzHughNagumo neural systems under electromagnetic induction. *Chaos, Solitons and Fractals*, **2020**, 133, 109645	9.3	32
141	A novel memristor-based dynamical system with multi-wing attractors and symmetric periodic bursting. *Chaos*, **2020**, 30, 043110	3.3	11
140	Phase coupling synchronization of FHN neurons connected by a Josephson junction. *Science China Technological Sciences*, **2020**, 63, 2328-2338	3.5	34
139	Master-Slave Synchronization of Delayed Neural Networks With Time-Varying Control. **2021**, 32, 2292-2298		13
138	Investigating bifurcation points of an impact oscillator. **2021**, 95, 925-933		0
137	FPGA-based experiments for demonstrating bi-stability in tabu learning neuron model. **2021**, 47, 194-205		3
136	2-D Piecewise-Linear Neuron Model. **2021**, 68, 1453-1457		4
135	Double and triple resonance behaviour in large systems of LC-shunted intrinsic Josephson junctions. **2021**, 387, 127025		2
134	Pattern Recognition and Machine Learning. **2021**, 105-144		4
133	Input-to-state stability of impulsive reactiondiffusion neural networks with infinite distributed delays. *Nonlinear Dynamics*, **2021**, 103, 1733-1755	5	35
132	Memristive Rulkov Neuron Model with Magnetic Induction Effects. **2021**, 1-1		26
131	Multi-stable patterns coexisting in memristor synapse-coupled Hopfield neural network. **2021**, 439-459		1
130	Multi-scroll hidden attractor in memristive HR neuron model under electromagnetic radiation and its applications. *Chaos*, **2021**, 31, 011101	3.3	31
129	Dynamics of a Large-Scale Spiking Neural Network with Quadratic Integrate-and-Fire Neurons. **2021**, 2021, 6623926		1
128	Mathematical modeling and mechanisms of pattern formation in ecological systems: a review. *Nonlinear Dynamics*, **2021**, 104, 1677-1696	5	8

127	Termination of a pinned spiral wave by the wave train with a free defect. *Nonlinear Dynamics*, **2021**, 104, 2583-2597	5	0
126	Suppressing the spiking of a synchronized array of Izhikevich neurons. *Nonlinear Dynamics*, **2021**, 104, 2653-2670	5	3
125	Bifurcation and Chaos of Spontaneous Oscillations of Hair Bundles in Auditory Hair Cells. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31, 2130011	2	3
124	Pattern transition of neuronal networks induced by chemical autapses with random distribution. *Chaos, Solitons and Fractals*, **2021**, 144, 110646	9.3	1
123	Collective behavior in a two-layer neuronal network with time-varying chemical connections that are controlled by a Petri net. *Chaos*, **2021**, 31, 033138	3.3	11
122	Effects of noise on the wave propagation in an excitable media with magnetic induction. *European Physical Journal: Special Topics*, 1	2.3	0
121	Rhythmicity and firing modes in modular neuronal network under electromagnetic field. *Nonlinear Dynamics*, **2021**, 104, 4391	5	0
120	Smooth nonlinear fitting scheme for analog multiplierless implementation of Hindmarsh Rose neuron model. *Nonlinear Dynamics*, **2021**, 104, 4379	5	7
119	Epilepsy as a dynamical disorder orchestrated by epileptogenic zone: a review. *Nonlinear Dynamics*, **2021**, 104, 1901-1916	5	5
118	Synchronization and chimeras in a network of photosensitive FitzHugh Nagumo neurons. *Nonlinear Dynamics*, **2021**, 104, 2711-2721	5	14
117	A fractional-order multistable locally active memristor and its chaotic system with transient transition, state jump. *Nonlinear Dynamics*, **2021**, 104, 4523	5	21
116	2D Materials for Nonlinear Photonics and Electro-Optical Applications. **2021**, 8, 2100367		10
115	Interactions of diffusion and nonlocal delay give rise to vegetation patterns in semi-arid environments. **2021**, 399, 126038		8
114	An analytical scheme on complete integrability of 2D biophysical excitable systems. *Physica A: Statistical Mechanics and Its Applications*, **2021**, 573, 125924	3.3	
113	Spiking dynamics and synchronization properties of optical neurons based on VCSEL-SAs. *Nonlinear Dynamics*, **2021**, 105, 2665-2675	5	1
112	Modeling and dynamics of double Hindmarsh-Rose neuron with memristor-based magnetic coupling and time delay. *Chinese Physics B*,	1.2	0
111	Analysis of spatially extended excitable Izhikevich neuron model near instability. *Nonlinear Dynamics*, **2021**, 105, 3515-3527	5	1
110	Astrocytic modulation on neuronal electric mode selection induced by magnetic field effect.. *Cognitive Neurodynamics*, **2022**, 16, 183-194	4.2	0

109	Stochastic analysis of the electromagnetic induction effect on a neuron's action potential dynamics. *Nonlinear Dynamics*, **2021**, 105, 3585-3602	5	1
108	Coexisting Infinitely Many Nonchaotic Attractors in a Memristive Weight-Based Tabu Learning Neuron. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31, 2150189	2	5
107	Dynamics in stimulation-based tabu learning neuron model. **2021**, 153983		1
106	Review on chaotic dynamics of memristive neuron and neural network. *Nonlinear Dynamics*, **2021**, 106, 959-973	5	24
105	The dynamical role of electromagnetic induction in epileptic seizures: a double-edged sword. *Nonlinear Dynamics*, **2021**, 106, 975-988	5	0
104	Synchronization and Pattern Formation in a Memristive Diffusive Neuron Model. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31, 2130030	2	3
103	Recurrent Neural Network. **2021**, 53-61		3
102	Spatiotemporal dynamics of a vegetation model with nonlocal delay in semi-arid environment. *Nonlinear Dynamics*, **2020**, 99, 3407-3420	5	7
101	Firing multistability in a locally active memristive neuron model. *Nonlinear Dynamics*, **2020**, 100, 3667-3683	5	63
100	Complex dynamics of a 4D Hopfield neural networks (HNNs) with a nonlinear synaptic weight: Coexistence of multiple attractors and remerging Feigenbaum trees. **2018**, 93, 242-252		61
99	Bifurcation analysis and circuit implementation for a tabu learning neuron model. **2020**, 121, 153235		10
98	Coexistence of firing patterns and its control in two neurons coupled through an asymmetric electrical synapse. *Chaos*, **2020**, 30, 023101	3.3	28
97	Spatiotemporal characteristics in systems of diffusively coupled excitable slow-fast FitzHugh-Rinzel dynamical neurons. *Chaos*, **2021**, 31, 103122	3.3	1
96	Light-Addressable Nanocomposite Hydrogels Allow Plasmonic Actuation and In Situ Temperature Monitoring in 3D Cell Matrices. 2108234		6
95	Parameter identification for discrete memristive chaotic map using adaptive differential evolution algorithm. *Nonlinear Dynamics*, 1	5	8
94	On modeling of a recurrent neural network from neural spiking data..		
93	Continuous non-autonomous memristive Rulkov model with extreme multistability. *Chinese Physics B*,	1.2	10
92	Transmission of pacemaker signal in a small world neuronal networks: temperature effects. *Nonlinear Dynamics*, **2021**, 106, 2547	5	2

91	Memristive electromagnetic induction effects on Hopfield neural network. *Nonlinear Dynamics*, **2021**, 106, 2559	5	8
90	Firing activities induced by memristive autapse in Fitzhugh–Nagumo neuron with time delay. **2021**, 142, 153995		2
89	Entropy measurement of ordered patterns in neuronal network with repulsive coupling. *Wuli Xuebao/Acta Physica Sinica*, **2019**, 68, 110503	0.6	3
88	Autapse-Induced Complicated Oscillations of a Ring FHN Neuronal Network with Multiple Delayed Couplings. **2020**, 183-191		
87	Coherent or stochastic bi-resonance induced by conductance disturbance of chemical autapse. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 230501	0.6	0
86	Synchronization and chimera states in the network of electrochemically coupled memristive Rulkov neuron maps. *Mathematical Biosciences and Engineering*, **2021**, 18, 9394-9409	2.1	3
85	Toward New Modalities in VEP-Based BCI Applications Using Dynamical Stimuli: Introducing Quasi-Periodic and Chaotic VEP-Based BCI. *Frontiers in Neuroscience*, **2020**, 14, 534619	5.1	0
84	Bipolar Pulse-induced Coexisting Symmetric Attractors in Hopfield Neural Network. **2021**,		
83	Prediction of Neuronal Firing Patterns in Zebrafish Embryos Using PCA. **2021**,		
82	Two-parameter dynamics of an autonomous mechanical governor system with time delay. *Nonlinear Dynamics*, 1	5	0
81	Pattern selection in thermosensitive neuron network induced by noise. *Physica A: Statistical Mechanics and Its Applications*, **2021**, 126627	3.3	1
80	Variation of the Spiking Dynamics of a Hodgkin-Huxley Neuron with an Electrical Autaptic Connection Under Ion Channel Blocking. **2019**, 115-118		
79	The influence of autapse on synchronous firing in small-world neural networks. *Physica A: Statistical Mechanics and Its Applications*, **2022**, 594, 126956	3.3	3
78	Effects of memristive autapse under field coupling on transition of collective dynamics in neural hypernetworks. *Chinese Journal of Physics*, **2022**,	3.5	0
77	Electromagnetic induction effects on electrical activity within a memristive Wilson neuron model. *Cognitive Neurodynamics*, 1	4.2	11
76	Suppressing spiral waves with delayed asymmetric bidirectional coupling in a multi-layer biological network. *European Physical Journal: Special Topics*, 1	2.3	0
75	Self-organization collective dynamics of heterogeneous neurons with memristive and plastic chemical synapses. *International Journal of Modern Physics B*,	1.1	
74	A tristable locally active memristor and its application in Hopfield neural network. *Nonlinear Dynamics*, 1	5	5

73	Deep Brain Stimulation with a Computational Model for the Cortex-Thalamus-Basal-Ganglia System and Network Dynamics of Neurological Disorders. *Computational and Mathematical Methods*, **2022**, 2022, 1-17	0.9	1
72	A simple one-dimensional map-based model of spiking neurons with wide ranges of firing rates and complexities.. *Journal of Theoretical Biology*, **2022**, 111062	2.3	0
71	Solutions and memory effect of fractional-order chaotic system: A review (Interdisciplinary Physics). *Chinese Physics B*,	1.2	1
70	Delay-induced instability and oscillations in a multiplex neural system with Fitzhugh-Nagumo networks. *Electronic Research Archive*, **2022**, 30, 1075-1086	1.9	0
69	Bifurcations in the firing of neuronal population caused by a small difference in pulse parameters during sustained stimulations in rat hippocampus in vivo.. *IEEE Transactions on Biomedical Engineering*, **2022**, PP,	5	0
68	A novel discrete memristive chaotic map. *European Physical Journal Plus*, **2022**, 137, 1	3.1	2
67	Pattern formation in a thermosensitive neural network. *Communications in Nonlinear Science and Numerical Simulation*, **2022**, 106426	3.7	1
66	A memristive chaotic system with rich dynamical behavior and circuit implementation. *The Integration VLSI Journal*, **2022**, 85, 63-75	1.4	0
65	Connecting Curves as a Tool to Localize Hidden Attractors in a New Chaotic Hyperjerk System with No Equilibria. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31,	2	
64	Analog/Digital Multiplierless Implementations for Nullcline-Characteristics-Based Piecewise Linear Hindmarsh-Rose Neuron Model. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-12	3.9	2
63	The effects of extreme multistability on the collective dynamics of coupled memristive neurons. *European Physical Journal: Special Topics*,	2.3	3
62	Interlayer Connectivity Affects the Coherence Resonance and Population Activity Patterns in Two-Layered Networks of Excitatory and Inhibitory Neurons.. *Frontiers in Computational Neuroscience*, **2022**, 16, 885720	3.5	
61	Data_Sheet_1.pdf. **2020**,		
60	Image_1.JPEG. **2020**,		
59	Image_2.JPEG. **2020**,		
58	Table_1.DOCX. **2020**,		
57	Multi-delay-induced bifurcation singularity in two-neuron neural models with multiple time delays. *Nonlinear Dynamics*, 1	5	
56	Controlling the spontaneous firing behavior of a neuron with astrocyte. *Chaos*, **2022**, 32, 051101	3.3	1

55	Neuronal circuit based on Josephson junction actuated by a photocurrent: dynamical analysis and microcontroller implementation. *European Physical Journal B*, **2022**, 95,	1.2	0
54	A Memristor-based Leaky Integrate-and-Fire Artificial Neuron with Tunable Performance. *IEEE Electron Device Letters*, **2022**, 1-1	4.4	3
53	Emergence of hidden dynamics in different neuronal network architecture with injected electromagnetic induction. *Applied Mathematical Modelling*, **2022**,	4.5	0
52	Traveling chimera states in locally coupled memristive Hindmarsh-Rose neuronal networks and circuit simulation. *Science China Technological Sciences*,	3.5	0
51	Bifurcations and Chaos in Periodically Forced Coupled Ramp Neurons. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2022**, 32,	2	
50	Global multistability and mechanisms of a memristive autapse-based Filippov Hindmash-Rose neuron model. *Chaos, Solitons and Fractals*, **2022**, 160, 112281	9.3	1
49	Different Mechanisms of Pattern Formation in a Plankton Model with Cross-Diffusion and Fitness. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2022**, 32,	2	
48	Hyperchaotic memristive ring neural network and application in medical image encryption. *Nonlinear Dynamics*,	5	9
47	Complex dynamics in a Hopfield neural network under electromagnetic induction and electromagnetic radiation. *Chaos*, **2022**, 32, 073107	3.3	3
46	Firing patterns of Izhikevich neuron model under electric field and its synchronization patterns. *European Physical Journal: Special Topics*,	2.3	0
45	Pattern formation induced by gradient field coupling in bi-layer neuronal networks. *European Physical Journal: Special Topics*,	2.3	0
44	A Novel Multiscroll Memristive Hopfield Neural Network. **2022**, 32,		1
43	Memristive bi-neuron Hopfield neural network with coexisting symmetric behaviors. **2022**, 137,		0
42	Global dynamics analysis of a Filippov Hindmarsh-Rose neuron model.		
41	Noise-induced collective dynamics in the small-world network of photosensitive neurons. **2022**, 48, 321-338		
40	ReLU-type memristor-based Hopfield neural network.		2
39	The generation of diverse traveling pulses and its solution scheme in an excitable slow-fast dynamics. **2022**, 32, 083121		0
38	Emergence of Canard induced mixed mode oscillations in a slow-fast dynamics of a biophysical excitable model. **2022**, 164, 112669		0

37	Stochastic resonance: The response to envelope modulation signal for neural networks with different topologies. **2022**, 607, 128177	0
36	Regulating memristive neuronal dynamical properties via excitatory or inhibitory magnetic field coupling.	5
35	Embedding nonlinear systems with two or more harmonic phase terms near the HopfHopf bifurcation.	0
34	Switching from active to non-active states in a birhythmic conductance-based neuronal model under electromagnetic induction.	0
33	Investigating different synaptic connections of the Chay neuron model. **2022**, 128242	0
32	Rulkov neural network coupled with discrete memristors. 1-19	1
31	Fractional-order Memcapacitor Bridge Synapse-Based Neural Network. **2022**,	0
30	Dynamic Exploration of a Controllable Thermosensitive Neuron Model and Its Applications. **2022**, 32,	0
29	A new class of Hopfield neural network with double memristive synapses and its DSP implementation. **2022**, 137,	3
28	Memristive cyclic three-neuron-based neural network with chaos and global coexisting attractors.	1
27	Dynamics and chimera state in a neural network with discrete memristor coupling.	0
26	Four-dimensional HindmarshRose neuron model with hidden firing multistability based on two memristors.	0
25	Memristor-induced mode transitions and extreme multistability in a map-based neuron model.	1
24	Influence of temperature and noise on the propagation of subthreshold signal in feedforward neural network. **2022**, 164, 112762	0
23	Study on the Complex Dynamical Behavior of the Fractional-Order Hopfield Neural Network System and Its Implementation. **2022**, 6, 637	1
22	Emerging Spiral Waves and Coexisting Attractors in Memductance-Based Tabu Learning Neurons. **2022**, 11, 3685	0
21	Memristor synapse-coupled piecewise-linear simplified Hopfield neural network: Dynamics analysis and circuit implementation. **2023**, 166, 112899	4
20	Offset-Control Plane Coexisting Behaviors in Two-Memristor-Based Hopfield Neural Network. **2022**, 1-10	0

19	Lévy noise-induced phase transition in p53 gene regulatory network near bifurcation points. **2023**, 166, 112885	0
18	Study on dynamic tension estimation for the underwater soft yoke mooring system with LSTM-AM neural network. **2023**, 267, 113287	0
17	Revelation and experimental verification of quasi-periodic bursting, periodic bursting, periodic oscillation in third-order non-autonomous memristive FitzHugh-Nagumo neuron circuit. **2023**, 167, 113006	1
16	Bifurcations and Chaos in Three-Coupled Ramp-Type Neurons. **2022**, 32,	0
15	Embryo developmental toxicity in marine medaka (Oryzias melastigma) due to parental and embryonic 17α-ethinylestradiol exposure. **2022**, 160594	1
14	Hopf bifurcation and phase synchronization in memristor-coupled HR and FHN neurons with two time delays.	0
13	Biophysical neurons, energy, and synapse controllability: a review.	2
12	Dynamical analysis of a multiple time delays FitzHugh–Nagumo neuron system with chemical and electrical coupling.	0
11	The simplest multilayer network of Rulkov neuron maps: A dynamical analysis under different neuronal interactions.	0
10	Traveling pulses and its wave solution scheme in a diffusively coupled 2D Hindmarsh-Rose excitable systems.	0
9	Multistability and Phase Synchronization of Rulkov Neurons Coupled with a Locally Active Discrete Memristor. **2023**, 7, 82	3
8	Dynamical analysis of an improved FitzHugh-Nagumo neuron model with multiplier-free implementation.	0
7	The dynamical analysis of non-uniform neocortical network model in up-down state oscillations. **2023**, 168, 113217	0
6	Neural dynamic transitions caused by changes of synaptic strength in heterogeneous networks. **2023**, 617, 128663	0
5	Symmetric multi-scroll attractors in magnetized Hopfield neural network under pulse controlled memristor and pulse current stimulation. **2023**, 169, 113259	2
4	Dynamics explore of an improved HR neuron model under electromagnetic radiation and its applications. **2023**, 111, 9509-9535	0
3	Dynamics effects of bias current composed on inertial neural system: multistability control and application in image encryption. **2023**, 98, 055204	0
2	Electronic Neurons for a New Learning Paradigm.	0

1   Yapay Sinir Ağları Kullanılarak Protein Katlanmasını Tanıma. **2023**, 16, 95-105   0