

Sergey A Shchanikov

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

394
citations

1684188

5
h-index

1372567

10
g-index

30
all docs

30
docs citations

30
times ranked

211
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurohybrid Memristive CMOS-Integrated Systems for Biosensors and Neuroprosthetics. <i>Frontiers in Neuroscience</i> , 2020, 14, 358.	2.8	143
2	Noise-assisted persistence and recovery of memory state in a memristive spiking neuromorphic network. <i>Chaos, Solitons and Fractals</i> , 2021, 146, 110890.	5.1	76
3	Designing a bidirectional, adaptive neural interface incorporating machine learning capabilities and memristor-enhanced hardware. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110504.	5.1	50
4	The research of memristor-based neural network components operation accuracy in control and communication systems. , 2015, , .		18
5	Toward Reflective Spiking Neural Networks Exploiting Memristive Devices. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .	2.1	18
6	Design of Artificial Neural Networks with a Specified Quality of Functioning. , 2014, , .		11
7	Neural network control over operation accuracy of memristor-based hardware. , 2015, , .		10
8	Determining the Fault Tolerance of MemristorsBased Neural Network Using Simulation and Design of Experiments. , 2018, , .		8
9	Fault Tolerance of Memristor-Based Perceptron Network for Neural Interface. <i>BioNanoScience</i> , 2021, 11, 84-90.	3.5	8
10	The development of a neuronetwork component for technical systems of mechanical engineering. , 2014, , .		7
11	Numerical simulation of neural network components of controlling and measuring systems. , 2014, , .		6
12	Using simulation to define the tolerances for the information and physical parameters of memristors-based artificial neural networks. <i>Journal of Physics: Conference Series</i> , 2019, 1333, 062026.	0.4	6
13	The method of tolerance increasing to internal and external noises for neural network devices. , 2014, , .		4
14	Infocommunication systems parameter monitoring by means of artificial neural network devices. , 2014, , .		4
15	Algorithm for Determining Optimum Operation Tolerances of Memristor-Based Artificial Neural Networks. , 2017, , .		4
16	Methodology for Hardware-in-the-Loop Simulation of Memristive Neuromorphic Systems. <i>Nanobiotechnology Reports</i> , 2021, 16, 782-789.	0.6	4
17	Design of Multilayer Perceptron Network Based on Metal-Oxide Memristive Devices. , 2019, , .		3
18	Silicon-Compatible Memristive Devices Tailored by Laser and Thermal Treatments. <i>Journal of Low Power Electronics and Applications</i> , 2022, 12, 14.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Advanced Techniques of Artificial Networks Design for Radio Signal Detection. Journal of Physics: Conference Series, 2018, 1015, 032168.	0.4	2
20	Memristive Concept of a High-Dimensional Neuron. , 2021, , .		2
21	Numerical Simulation of Neural Network Components of Controlling and Measuring Systems. Applied Mechanics and Materials, 2015, 756, 507-512.	0.2	1
22	Monitoring the phase progression of linear chirp by applying artificial neural networks. , 2016, , .		1
23	The research of operation accuracy of a memristor-based artificial neural network with an input signal containing noise and pulse interference. , 2016, , .		1
24	Neural network algorithms for determining the values of signal parameters in radio-electronic hardware. , 2017, , .		1
25	The Research of Fault Tolerance of Memristor-Based Artificial Neural Networks. , 2019, , .		1
26	Quantitative determination of fault tolerance of memristor-based artificial neural networks. Journal of Physics: Conference Series, 2019, 1333, 062027.	0.4	1
27	Design and Hardware Implementation of Memristor-Based Multilayer Perceptron Network for a Bidirectional Adaptive Neural Interface. , 2021, , .		1
28	Development of a Neuronetwork Component for Technical Systems of Mechanical Engineering. Applied Mechanics and Materials, 0, 756, 689-694.	0.2	0
29	Modelling nanoscale objects in order to conduct an empirical research into their properties as part of an engineering system designed. Journal of Physics: Conference Series, 2017, 803, 012091.	0.4	0
30	The influence of algorithms for tuning the parameters of neuromorphic systems on their fault tolerance. Journal of Physics: Conference Series, 2019, 1333, 032077.	0.4	0