List of Publications by Year in descending order

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SHICEO SATO

#	Article	IF	CITATIONS
1	Macroscopic Quantum Tunneling in ad-Wave High-TCBi2Sr2CaCu2O8+δSuperconductor. Physical Review Letters, 2005, 95, 107005.	7.8	172
2	Analogue spin–orbit torque device for artificial-neural-network-based associative memory operation. Applied Physics Express, 2017, 10, 013007.	2.4	146
3	Impact of modular organization on dynamical richness in cortical networks. Science Advances, 2018, 4, eaau4914.	10.3	74
4	Implementation of a new neurochip using stochastic logic. IEEE Transactions on Neural Networks, 2003, 14, 1122-1127.	4.2	38
5	Effects of interfacial chemical states on the performance of perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 4392-4397.	10.3	25
6	Integrated Circuits of Map Chaos Generators. Analog Integrated Circuits and Signal Processing, 2000, 25, 329-335.	1.4	24
7	Size-dependent regulation of synchronized activity in living neuronal networks. Physical Review E, 2016, 94, 012407.	2.1	19
8	An Approach for Quantum Computing using Adiabatic Evolution Algorithm. Japanese Journal of Applied Physics, 2003, 42, 7169-7173.	1.5	16
9	Neuromorphic quantum computation with energy dissipation. Physical Review A, 2005, 72, .	2.5	15
10	Study of macroscopic quantum tunnelling in Bi2Sr2CaCu2O8+δintrinsic Josephson junctions. Superconductor Science and Technology, 2007, 20, S105-S109.	3.5	10
11	Quantum Neural Network Composed of Kane's Qubits. Japanese Journal of Applied Physics, 2006, 45, 8030-8034.	1.5	9
12	4-bit SFQ Multiplier Based on Booth Encoder. IEEE Transactions on Applied Superconductivity, 2011, 21, 852-855.	1.7	7
13	Epitaxial growth of Si1â^'xGex alloys and Ge on Si(100) by electron-cyclotron-resonance Ar plasma chemical vapor deposition without substrate heating. Thin Solid Films, 2014, 557, 31-35.	1.8	7
14	Carrier properties of B atomic-layer-doped Si films grown by ECR Ar plasma-enhanced CVD without substrate heating. Science and Technology of Advanced Materials, 2017, 18, 294-306.	6.1	6
15	Evaluation of junction parameters with control of carrier concentration in Bi2Sr2CaCu2O8+l̂´ stacked junctions. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1396-1400.	1.2	5
16	Surface Reaction in Thin Film Formation of Si1-xGex Alloys on Si(100) by Electron-Cyclotron-Resonance Ar Plasma Chemical Vapor Deposition without Substrate Heating. ECS Transactions, 2014, 64, 99-105.	0.5	5
17	Electronic properties of Si/Si-Ge Alloy/Si(100) heterostructures formed by ECR Ar plasma CVD without substrate heating. Materials Science in Semiconductor Processing, 2017, 70, 55-62.	4.0	4
18	Analog-circuit implementation of multiplicative spike-timing-dependent plasticity with linear decay. Nonlinear Theory and Its Applications IEICE, 2021, 12, 685-694.	0.6	4

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19	An Izhikevich Model Neuron MOS Circuit for Low Voltage Operation. Lecture Notes in Computer Science, 2019, , 718-723.	1.3	4
20	Polydimethylsiloxane microfluidic films for in vitro engineering of small-scale neuronal networks. Japanese Journal of Applied Physics, 2020, 59, 117001.	1.5	4
21	Hardware Implementation of an Inverse Function Delayed Neural Network Using Stochastic Logic. IEICE Transactions on Information and Systems, 2006, E89-D, 2572-2578.	0.7	4
22	Electrical transport characteristics of Bi2Sr2CaCu2O8+Âstacked junctions with control of the carrier density. Superconductor Science and Technology, 2003, 16, 1365-1367.	3.5	3
23	Epitaxial Growth of Heavily B-Doped Si and Ge Films on Si(100) by Low-Energy ECR Ar Plasma CVD without Substrate Heating. ECS Transactions, 2013, 58, 223-228.	0.5	3
24	Izhikevich neuron circuit using stochastic logic. Electronics Letters, 2014, 50, 1795-1797.	1.0	3
25	Modularity-dependent modulation of synchronized bursting activity in cultured neuronal network models. , 2017, , .		3
26	Mean-field analysis of directed modular networks. Chaos, 2019, 29, 013142.	2.5	3
27	A Content-Addressable Memory Using "Switched Diffusion Analog Memory with Feedback Circuit― Analog Integrated Circuits and Signal Processing, 2000, 25, 337-346.	1.4	2
28	An application of higher order connection to inverse function delayed network. Nonlinear Theory and Its Applications IEICE, 2011, 2, 180-197.	0.6	2
29	Dynamic characteristics of a simple bursting neuron model. Nonlinear Theory and Its Applications IEICE, 2012, 3, 436-456.	0.6	2
30	Electrical properties and B depth profiles of in-situ B doped Si films grown by ECR Ar plasma CVD without substrate heating. Materials Science in Semiconductor Processing, 2017, 70, 50-54.	4.0	2
31	Quantum Associative Memory with Quantum Neural Network via Adiabatic Hamiltonian Evolution. IEICE Transactions on Information and Systems, 2017, E100.D, 2683-2689.	0.7	2
32	Learning Rule for a Quantum Neural Network Inspired by Hebbian Learning. IEICE Transactions on Information and Systems, 2021, E104.D, 237-245.	0.7	2
33	Computational Efficiency of a Modular Reservoir Network for Image Recognition. Frontiers in Computational Neuroscience, 2021, 15, 594337.	2.1	2
34	Macroscopic Quantum Tunneling and Resonant Activation of Current Biased Intrinsic Josephson Junctions in Bi-2212. IEICE Transactions on Electronics, 2007, E90-C, 599-604.	0.6	2
35	New Nonvolatile Analog Memories for Analog Data Processing. Japanese Journal of Applied Physics, 2000, 39, 2291-2296.	1.5	1
36	Analysis of burst dynamics bound by potential with active areas. Nonlinear Theory and Its Applications IEICE, 2011, 2, 417-431.	0.6	1

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37	Majority neuron circuit having large fan-in with non-volatile synaptic weight. , 2014, , .		1
38	Neuro-inspired quantum associative memory using adiabatic hamiltonian evolution. , 2017, , .		1
39	Quantitative Analysis of Dynamical Complexity in Cultured Neuronal Network Models for Reservoir Computing Applications. , 2019, , .		1
40	Electron-cyclotron resonance Ar plasma-induced electrical activation of B atoms without substrate heating in B doped Si epitaxial films on Si(100). Materials Science in Semiconductor Processing, 2020, 107, 104823.	4.0	1
41	Energy Dissipation Effect on a Quantum Neural Network. Lecture Notes in Computer Science, 2007, , 730-737.	1.3	1
42	LSI Implementation of Neural Network Model for Detecting Local Image Motion in Motion Stereo Vision. The Brain & Neural Networks, 2015, 22, 152-161.	0.1	1
43	Modular networks of spiking neurons for applications in time-series information processing. Nonlinear Theory and Its Applications IEICE, 2020, 11, 590-600.	0.6	1
44	Implementation of a class of asymmetrical neural networks with application to an aâ \in d converter. Electronics and Communications in Japan, 1992, 75, 92-102.	0.2	0
45	Study on the performance of neuromorphic adiabatic quantum computation algorithms. , 2008, , .		0
46	Performance evaluation of adiabatic quantum computation using neuron-like interconnections. Nonlinear Theory and Its Applications IEICE, 2011, 2, 198-204.	0.6	0
47	Dynamic Characteristics of Neuron Models and Active Areas in Potential Functions. Procedia IUTAM, 2012, 5, 49-53.	1.2	0
48	Formation and Characterization of Strained Si1-XGex Films Epitaxially Grown on Si(100) by Low-Energy ECR Ar Plasma CVD without Substrate Heating. ECS Transactions, 2013, 58, 207-211.	0.5	0
49	Silicon-Carbon alloy film formation on Si(100) using SiH 4 and CH 4 reaction under low-energy ECR Ar plasma irradiation. Materials Science in Semiconductor Processing, 2017, 70, 188-192.	4.0	0
50	Design of Single Electron Circuitry for a Stochastic Logic Neural Network. Lecture Notes in Computer Science, 2004, , 1010-1016.	1.3	0
51	Neuromorphic Adiabatic Quantum Computation. , 2009, , 352-375.		0
52	High Throughput Parallel Arithmetic Circuits for Fast Fourier Transform. IEICE Transactions on Electronics, 2011, E94-C, 280-287.	0.6	0
53	Method of Solving Combinatorial Optimization Problems with Stochastic Effects. Lecture Notes in Computer Science, 2011, , 389-394.	1.3	0
54	CMOS Majority Circuit with Large Fan-In. IEICE Transactions on Electronics, 2016, E99.C, 1056-1064.	0.6	0

#	Article	IF	CITATIONS
55	(Invited) Low-Energy Plasma Enhanced Chemical Vapor Deposition and In-Situ Doping for Junction Formation in Group-IV Semiconductor Devices. ECS Meeting Abstracts, 2019, , .	0.0	0
56	Designing the human-centric IoT society: Cooperative industry-academic strategies for creative future connection. Nonlinear Theory and Its Applications IEICE, 2022, 13, 197-202.	0.6	0
57	An investigation of the relationship between numerical precision and performance of Q-learning for hardware implementation. Nonlinear Theory and Its Applications IEICE, 2022, 13, 427-433.	0.6	0