

Seyoung Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

10,907
citations

17
h-index

39
g-index

39
ext. papers

11,931
ext. citations

6.7
avg, IF

5.44
L-index

#	Paper	IF	Citations
32	Impact of Asymmetric Weight Update on Neural Network Training With Tiki-Taka Algorithm.. <i>Frontiers in Neuroscience</i> , 2021 , 15, 767953	5.1	2
31	Excellent Pattern Recognition Accuracy of Neural Networks Using Hybrid Synapses and Complementary Training. <i>IEEE Electron Device Letters</i> , 2021 , 42, 609-612	4.4	4
30	Impact of Operating Temperature on Pattern Recognition Accuracy of Resistive Array-Based Hardware Neural Networks. <i>IEEE Electron Device Letters</i> , 2021 , 42, 763-766	4.4	3
29	Improvement of Synaptic Properties in Oxygen-Based Synaptic Transistors Due to the Accelerated Ion Migration in Sub-Stoichiometric Channels. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100219	6.4	9
28	Elucidating Ionic Programming Dynamics of Metal-Oxide Electrochemical Memory for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100185	6.4	6
27	Neural Network Training Acceleration With RRAM-Based Hybrid Synapses. <i>Frontiers in Neuroscience</i> , 2021 , 15, 690418	5.1	1
26	Impact of electrolyte density on synaptic characteristics of oxygen-based ionic synaptic transistor. <i>Applied Physics Letters</i> , 2021 , 119, 103503	3.4	10
25	Alloying conducting channels for reliable neuromorphic computing. <i>Nature Nanotechnology</i> , 2020 , 15, 574-579	28.7	74
24	Hardware and Software Co-optimization for the Initialization Failure of the ReRAM-based Cross-bar Array. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2020 , 16, 1-19	1.7	0
23	Improved Pattern Recognition Accuracy of Hardware Neural Network: Deactivating Short Failed Synapse Device by Adopting Ovonic Threshold Switching (OTS)-Based Fuse Device. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1436-1439	4.4	5
22	Pr _{0.7} Ca _{0.3} MnO ₃ -Based Three-Terminal Synapse for Neuromorphic Computing. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1500-1503	4.4	9
21	Reliability Challenges with Materials for Analog Computing 2019 ,		6
20	Metal-oxide based, CMOS-compatible ECRAM for Deep Learning Accelerator 2019 ,		23
19	ECRAM as Scalable Synaptic Cell for High-Speed, Low-Power Neuromorphic Computing 2018 ,		60
18	Neuromorphic computing using non-volatile memory. <i>Advances in Physics: X</i> , 2017 , 2, 89-124	5.1	424
17	Unveiling the carrier transport mechanism in epitaxial graphene for forming wafer-scale, single-domain graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4082-4086	11.5	23
16	Analog CMOS-based resistive processing unit for deep neural network training 2017 ,		19

15	Mechanical properties of CBiC composite materials fabricated by the SiCr alloy melt-infiltration method. <i>Journal of Composite Materials</i> , 2015 , 49, 3057-3066	2.7	3
14	Temperature-dependent studies of the electrical properties and the conduction mechanism of HfOx-based RRAM 2014 ,		2
13	Direct measurement of the Fermi energy in graphene using a double-layer heterostructure. <i>Physical Review Letters</i> , 2012 , 108, 116404	7.4	65
12	Coulomb drag and magnetotransport in graphene double layers. <i>Solid State Communications</i> , 2012 , 152, 1283-1288	1.6	46
11	Quantum Hall effect in Bernal stacked and twisted bilayer graphene grown on Cu by chemical vapor deposition. <i>Physical Review B</i> , 2012 , 85,	3.3	40
10	Gate capacitance scaling and graphene field-effect transistors with ultra-thin top-gate dielectrics 2011 ,		3
9	Low-frequency acoustic phonon temperature distribution in electrically biased graphene. <i>Nano Letters</i> , 2011 , 11, 85-90	11.5	57
8	Magnetotransport properties of quasi-free-standing epitaxial graphene bilayer on SiC: evidence for Bernal stacking. <i>Nano Letters</i> , 2011 , 11, 3624-8	11.5	34
7	Spin-polarized to valley-polarized transition in graphene bilayers at θ_0 in high magnetic fields. <i>Physical Review Letters</i> , 2011 , 107, 016803	7.4	44
6	Coulomb drag of massless fermions in graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	145
5	Dielectric thickness dependence of carrier mobility in graphene with HfO2 top dielectric. <i>Applied Physics Letters</i> , 2010 , 97, 123105	3.4	91
4	Graphene for CMOS and Beyond CMOS Applications. <i>Proceedings of the IEEE</i> , 2010 , 98, 2032-2046	14.3	57
3	Large-area synthesis of high-quality and uniform graphene films on copper foils. <i>Science</i> , 2009 , 324, 1312-1313	3.3	8900
2	Realization of a high mobility dual-gated graphene field-effect transistor with Al2O3 dielectric. <i>Applied Physics Letters</i> , 2009 , 94, 062107	3.4	737
1	Experimental measurement of ungated channel region conductance in a multi-terminal, metal oxide-based ECRAM. <i>Semiconductor Science and Technology</i> ,	1.8	2