

Hsuan-Tung Peng

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,084
citations

759233

12
h-index

1058476

14
g-index

20
all docs

20
docs citations

20
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon Photonic Modulator Neuron. <i>Physical Review Applied</i> , 2019, 11, .	3.8	205
2	Photonic Multiply-Accumulate Operations for Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-18.	2.9	166
3	Machine Learning With Neuromorphic Photonics. <i>Journal of Lightwave Technology</i> , 2019, 37, 1515-1534.	4.6	129
4	Neuromorphic Photonic Integrated Circuits. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-15.	2.9	123
5	Digital Electronics and Analog Photonics for Convolutional Neural Networks (DEAP-CNNs). <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-13.	2.9	122
6	A silicon photonicâ€“electronic neural network for fibre nonlinearity compensation. <i>Nature Electronics</i> , 2021, 4, 837-844.	26.0	110
7	Demonstration of scalable microring weight bank control for large-scale photonic integrated circuits. <i>APL Photonics</i> , 2020, 5, 040803.	5.7	60
8	Temporal Information Processing With an Integrated Laser Neuron. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	2.9	36
9	Noise Analysis of Photonic Modulator Neurons. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	2.9	31
10	Primer on silicon neuromorphic photonic processors: architecture and compiler. <i>Nanophotonics</i> , 2020, 9, 4055-4073.	6.0	29
11	Photonic Spiking Neural Networks and Graphene-on-Silicon Spiking Neurons. <i>Journal of Lightwave Technology</i> , 2022, 40, 2901-2914.	4.6	28
12	Simultaneous excitatory and inhibitory dynamics in an excitable laser. <i>Optics Letters</i> , 2018, 43, 3802.	3.3	21
13	Design automation of photonic resonator weights. <i>Nanophotonics</i> , 2022, 11, 3805-3822.	6.0	8
14	Nanophotonic Cavity Based Synapse for Scalable Photonic Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-8.	2.9	7
15	Real-time Operation of Silicon Photonic Neurons. , 2020, , .		6
16	Temporal Dynamics of an Integrated Laser Neuron. , 2018, , .		2
17	Neuromorphic Photonics for Optical Communication Systems. , 2021, , .		1
18	Photonics for Neuromorphic Computing. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Advances in Neuromorphic Silicon Photonics. , 2019, , .		0
20	Multiwavelength Neuromorphic Silicon Photonics. , 2019, , .		0