

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

#	ARTICLE	IF	CITATIONS
19	Simultaneous excitatory and inhibitory dynamics in an excitable laser. Optics Letters, 2018, 43, 3802.	3.3	21
20	Neuromorphic Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-15.	2.9	123