

Seyong Oh

List of Publications by Year in descending order

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17
papers

1,694
citations

687363

13
h-index

888059

17
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17
all docs

17
docs citations

17
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial optic-neural synapse for colored and color-mixed pattern recognition. Nature Communications, 2018, 9, 5106.	12.8	462
2	Optoelectronic Synapse Based on IGZO-Alkylated Graphene Oxide Hybrid Structure. Advanced Functional Materials, 2018, 28, 1804397.	14.9	280
3	High-Performance 2D Rhenium Disulfide (ReS ₂) Transistors and Photodetectors by Oxygen Plasma Treatment. Advanced Materials, 2016, 28, 6985-6992.	21.0	209
4	Vertical organic synapse expandable to 3D crossbar array. Nature Communications, 2020, 11, 4595.	12.8	130
5	Artificial van der Waals hybrid synapse and its application to acoustic pattern recognition. Nature Communications, 2020, 11, 3936.	12.8	125
6	Recent Progress in Artificial Synapses Based on Two-Dimensional van der Waals Materials for Brain-Inspired Computing. ACS Applied Electronic Materials, 2020, 2, 371-388.	4.3	110
7	Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. Nano Energy, 2019, 66, 104095.	16.0	100
8	A Bioinspired Stretchable Sensory-Neuromorphic System. Advanced Materials, 2021, 33, e2104690.	21.0	67
9	An Optogenetics-Inspired Flexible van der Waals Optoelectronic Synapse and its Application to a Convolutional Neural Network. Advanced Materials, 2021, 33, e2102980.	21.0	65
10	Flexible artificial Si-In-Zn-O/ion gel synapse and its application to sensory-neuromorphic system for sign language translation. Science Advances, 2021, 7, eabg9450.	10.3	41
11	A Neuromorphic Device Implemented on a Salmon-DNA Electrolyte and its Application to Artificial Neural Networks. Advanced Science, 2019, 6, 1901265.	11.2	38
12	Photoelectroactive artificial synapse and its application to biosignal pattern recognition. Npj 2D Materials and Applications, 2021, 5, .	7.9	17
13	Highly Stable Artificial Synapse Consisting of Low-Surface Defect van der Waals and Self-Assembled Materials. ACS Applied Materials & Interfaces, 2020, 12, 38299-38305.	8.0	14
14	Rational Band Engineering of an Organic Double Heterojunction for Artificial Synaptic Devices with Enhanced State Retention and Linear Update of Synaptic Weight. ACS Applied Materials & Interfaces, 2020, 12, 10737-10745.	8.0	14
15	Electrolyte-Gated Vertical Synapse Array based on Van Der Waals Heterostructure for Parallel Computing. Advanced Science, 2022, 9, e2103808.	11.2	14
16	Contact Resistance Reduction Using Dielectric Materials of Nanoscale Thickness on Silicon for Monolithic 3D Integration. Journal of Nanoscience and Nanotechnology, 2016, 16, 12764-12767.	0.9	5
17	An Optogenetics-Inspired Flexible van der Waals Optoelectronic Synapse and its Application to a Convolutional Neural Network (Adv. Mater. 40/2021). Advanced Materials, 2021, 33, 2170316.	21.0	3