

# Hongwei Tan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6092567/publications.pdf>

Version: 2024-02-01

19  
papers

1,308  
citations

687363

13  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1781  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Optoelectronic Resistive Switching Memory with Integrated Demodulating and Arithmetic Functions. <i>Advanced Materials</i> , 2015, 27, 2797-2803.	21.0	174
2	Light-Gated Memristor with Integrated Logic and Memory Functions. <i>ACS Nano</i> , 2017, 11, 11298-11305.	14.6	173
3	Thermally Stable Transparent Resistive Random Access Memory based on Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Heterostructures. <i>Advanced Functional Materials</i> , 2014, 24, 2171-2179.	14.9	150
4	Energy-Efficient Organic Ferroelectric Tunnel Junction Memristors for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2019, 5, 1800795.	5.1	144
5	Tactile sensory coding and learning with bio-inspired optoelectronic spiking afferent nerves. <i>Nature Communications</i> , 2020, 11, 1369.	12.8	141
6	Bioinspired multisensory neural network with crossmodal integration and recognition. <i>Nature Communications</i> , 2021, 12, 1120.	12.8	94
7	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition. <i>Advanced Materials</i> , 2017, 29, 1702162.	21.0	79
8	Convertible resistive switching characteristics between memory switching and threshold switching in a single ferritin-based memristor. <i>Chemical Communications</i> , 2016, 52, 4828-4831.	4.1	71
9	Thermally-stable resistive switching with a large ON/OFF ratio achieved in poly(triphenylamine). <i>Chemical Communications</i> , 2014, 50, 11856-11858.	4.1	69
10	Synaptic plasticity and learning behaviours in flexible artificial synapse based on polymer/viologen system. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3217-3223.	5.5	61
11	Role of oxadiazole moiety in different $\pi$ -A polyazothines and related resistive switching properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4556.	5.5	56
12	An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. <i>RSC Advances</i> , 2016, 6, 25179-25184.	3.6	48
13	Mimicking Neurotransmitter Release and Long-Term Plasticity by Oxygen Vacancy Migration in a Tunnel Junction Memristor. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900036.	6.1	17
14	Crossover from synaptic to neuronal functionalities through carrier concentration control in Nb-doped SrTiO <sub>3</sub> -based organic ferroelectric tunnel junctions. <i>APL Materials</i> , 2019, 7, 091114.	5.1	16
15	Reversible Luminescence Modulation upon an Electric Field on a Full Solid-State Device Based on Lanthanide Dimers. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15551-15556.	8.0	8
16	Multifunctional Optoelectronic Device Based on Resistive Switching Effects. , 0, , .		4
17	Transparent Electronics: Thermally Stable Transparent Resistive Random Access Memory based on Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Heterostructures (Adv. Funct. Mater. 15/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2110-2110.	14.9	2
18	Nanochannels: A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition (Adv. Mater. 39/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1

#	ARTICLE	IF	CITATIONS
19	Switching Memory: An Optoelectronic Resistive Switching Memory with Integrated Demodulating and Arithmetic Functions (Adv. Mater. 17/2015). Advanced Materials, 2015, 27, 2812-2812.	21.0	0