

# Chaolun Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

487  
citations

840776

11  
h-index

677142

22  
g-index

32  
all docs

32  
docs citations

32  
times ranked

726  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring atomic 1T phase CrTe <sub>2</sub> for in situ fabrication. Nanotechnology, 2022, 33, 085302.	2.6	5
2	The Trends of In Situ Focused Ion Beam Technology: Toward Preparing Transmission Electron Microscopy Lamella and Devices at the Atomic Scale. Advanced Electronic Materials, 2022, 8, .	5.1	6
3	High-performance flexible humidity sensors for breath detection and non-touch switches. Nano Select, 2022, 3, 1168-1177.	3.7	10
4	Nanoscale Analysis of Breakdown Induced Crack Propagation in DTSCR Devices. , 2022, , .		0
5	Review of electrical stimulus methods of in situ transmission electron microscope to study resistive random access memory. Nanoscale, 2022, 14, 9542-9552.	5.6	4
6	High Throughput In-Situ Temperature Sensor Array with High Sensitivity and Excellent Linearity for Wireless Body Temperature Monitoring. Small Structures, 2022, 3, .	12.0	5
7	Analog Sensing and Computing Systems with Low Power Consumption for Gesture Recognition. Advanced Intelligent Systems, 2021, 3, 2000184.	6.1	19
8	Infrared Gesture Recognition System Based on Near-Sensor Computing. IEEE Electron Device Letters, 2021, 42, 1053-1056.	3.9	8
9	Object Identification With Smart Glove Assembled by Pressure Sensors. , 2021, 5, 1-4.		4
10	Direct Visualization of Breakdown-Induced Metal Migration in Enhanced Modified Lateral Silicon-Controlled Rectifiers. IEEE Transactions on Electron Devices, 2021, 68, 1378-1381.	3.0	8
11	VSe <sub>2</sub> quantum dots with high-density active edges for flexible efficient hydrogen evolution reaction. Journal Physics D: Applied Physics, 2021, 54, 214006.	2.8	6
12	Facile fabrication of paper-based flexible thermoelectric generator. Npj Flexible Electronics, 2021, 5, .	10.7	41
13	A review of in situ transmission electron microscopy study on the switching mechanism and packaging reliability in non-volatile memory. Journal of Semiconductors, 2021, 42, 013102.	3.7	6
14	Metal Migration Induced Breakdown from Gate Contact in Bulk FinFET Devices. , 2021, , .		0
15	Failure Analysis on Diode-triggered Silicon-Controlled Rectifiers By using Nondestructive X-ray Microscopy. , 2021, , .		1
16	In Situ Interfacial Sublimation of Zn <sub>2</sub> GeO <sub>4</sub> Nanowire for Atomic-Scale Manufacturing. ACS Applied Nano Materials, 2020, 3, 4747-4754.	5.0	8
17	In Situ Dynamic Manipulation of Graphene Strain Sensor with Drastically Sensing Performance Enhancement. Advanced Electronic Materials, 2020, 6, 2000269.	5.1	23
18	Iron-doped VSe <sub>2</sub> nanosheets for enhanced hydrogen evolution reaction. Applied Physics Letters, 2020, 116, .	3.3	18

#	ARTICLE	IF	CITATIONS
19	Tuning Electrical and Optical Properties of MoSe <sub>2</sub> Transistors via Elemental Doping. <i>Advanced Materials Technologies</i> , 2020, 5, 2000307.	5.8	15
20	Thermal reliability study of graphene-based planar RRAM. , 2020, , .		0
21	Reliability study of flexible sodium-ion detection sensor. , 2020, , .		0
22	Raman Characterization on Two-Dimensional Materials-Based Thermoelectricity. <i>Molecules</i> , 2019, 24, 88.	3.8	19
23	VSe <sub>2</sub> /carbon-nanotube compound for all solid-state flexible in-plane supercapacitor. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	34
24	Magnetic and magnetocaloric properties of DyCo <sub>2</sub> C <sub>x</sub> alloys. <i>Journal of Alloys and Compounds</i> , 2019, 777, 152-156.	5.5	11
25	Interfacial Defects: Probing and Manipulating the Interfacial Defects of InGaAs Dual-Layer Metal Oxides at the Atomic Scale ( <i>Adv. Mater.</i> 2/2018). <i>Advanced Materials</i> , 2018, 30, 1870013.	21.0	1
26	Metallic few-layered VSe <sub>2</sub> nanosheets: high two-dimensional conductivity for flexible in-plane solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8299-8306.	10.3	89
27	Raman spectroscopy characterization of two-dimensional materials. <i>Chinese Physics B</i> , 2018, 27, 037802.	1.4	38
28	Probing and Manipulating the Interfacial Defects of InGaAs Dual-Layer Metal Oxides at the Atomic Scale. <i>Advanced Materials</i> , 2018, 30, 1703025.	21.0	21
29	RCO-Protected Electroless Plated Nickel Electrode with Enhanced Stability Performance for Flexible Micro-Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018, 1, 7182-7190.	5.1	12
30	Probing and manipulating the interfacial defects of InGaAs dual-layer metal oxides at the atomic scale. , 2018, , .		0
31	In Situ Transmission Electron Microscopy Characterization and Manipulation of Two-Dimensional Layered Materials beyond Graphene. <i>Small</i> , 2017, 13, 1604259.	10.0	75
32	Analysis of nano-filament evolution in Ni-based RRAM devices using in-situ TEM. , 2016, , .		0