

Kaichen Xu

List of Publications by Year in descending order

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29
papers

2,077
citations

331670

21
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

2426
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Skin-Inspired Flexible Sensor Systems for Wearable Electronics. Advanced Materials Technologies, 2019, 4, 1800628.	5.8	431
2	Toward Flexible Surface-Enhanced Raman Scattering (SERS) Sensors for Point-of-Care Diagnostics. Advanced Science, 2019, 6, 1900925.	11.2	396
3	Multimodal Plant Healthcare Flexible Sensor System. ACS Nano, 2020, 14, 10966-10975.	14.6	129
4	Highly stable kirigami-structured stretchable strain sensors for perdurable wearable electronics. Journal of Materials Chemistry C, 2019, 7, 9609-9617.	5.5	124
5	A Wearable Body Condition Sensor System with Wireless Feedback Alarm Functions. Advanced Materials, 2021, 33, e2008701.	21.0	104
6	Ag-CuO-ZnO metal-semiconductor multiconcentric nanotubes for achieving superior and perdurable photodegradation. Nanoscale, 2017, 9, 11574-11583.	5.6	96
7	Uniaxially Stretched Flexible Surface Plasmon Resonance Film for Versatile Surface Enhanced Raman Scattering Diagnostics. ACS Applied Materials & Interfaces, 2017, 9, 26341-26349.	8.0	91
8	Hedgehog Inspired CuO Nanowires/Cu ₂ O Composites for Broadband Visible-Light-Driven Recyclable Surface Enhanced Raman Scattering. Advanced Optical Materials, 2018, 6, 1701167.	7.3	82
9	Flexible Hybrid Sensor Systems with Feedback Functions. Advanced Functional Materials, 2021, 31, 2007436.	14.9	80
10	Hybrid micro/nano-structure formation by angular laser texturing of Si surface for surface enhanced Raman scattering. Optics Express, 2016, 24, 10352.	3.4	77
11	Nanophotonic-Engineered Photothermal Harnessing for Waste Heat Management and Pyroelectric Generation. ACS Nano, 2017, 11, 10568-10574.	14.6	75
12	Highly Precise Multifunctional Thermal Management-Based Flexible Sensing Sheets. ACS Nano, 2019, 13, 14348-14356.	14.6	57
13	Recent progress on two-dimensional layered materials for surface enhanced Raman spectroscopy and their applications. Materials Today Physics, 2021, 18, 100378.	6.0	40
14	Femtosecond laser patterned superhydrophobic/hydrophobic SERS sensors for rapid positioning ultratrace detection. Optics Express, 2021, 29, 16904.	3.4	37
15	Wireless and Flexible Skin Moisture and Temperature Sensor Sheets toward the Study of Thermoregulator Center. Advanced Healthcare Materials, 2021, 10, e2100103.	7.6	36
16	Highly stable Pd/HNb ₃ O ₈ -based flexible humidity sensor for perdurable wireless wearable applications. Nanoscale Horizons, 2021, 6, 260-270.	8.0	36
17	Emerging wearable flexible sensors for sweat analysis. Bio-Design and Manufacturing, 2022, 5, 64-84.	7.7	29
18	Stacking of colors in exfoliable plasmonic superlattices. Nanoscale, 2016, 8, 18228-18234.	5.6	27

#	ARTICLE	IF	CITATIONS
19	Femtosecond Laser Fabricated Elastomeric Superhydrophobic Surface with Stretching-Enhanced Water Repellency. <i>Nanoscale Research Letters</i> , 2019, 14, 333.	5.7	27
20	Periodic Upright Nanopyramids for Light Management Applications in Ultrathin Crystalline Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 493-501.	2.5	26
21	A Fully Printed Flexible Sensor Sheet for Simultaneous Proximityâ€“Pressureâ€“Temperature Detection. <i>Advanced Materials Technologies</i> , 2021, 6, 2100616.	5.8	26
22	Soft Robot Skin With Conformal Adaptability for On-Body Tactile Perception of Collaborative Robots. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 5127-5134.	5.1	20
23	Bioinspired Coâ€“Design of Tactile Sensor and Deep Learning Algorithm for Humanâ€“Robot Interaction. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	14
24	Morphology and electrical characteristics of polymer: Fullerene films deposited by electrospray. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 137-145.	6.2	11
25	Wireless and Flexible Skin Moisture and Temperature Sensor Sheets toward the Study of Thermoregulator Center (Adv. Healthcare Mater. 17/2021). <i>Advanced Healthcare Materials</i> , 2021, 10, 2170078.	7.6	2
26	Preparation of Three-Dimensional Carbon Microtube/Carbon Nanotube Composites and Their Application in Supercapacitor. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2012, 28, 2269-2275.	4.9	1
27	Wearable Sensors: A Wearable Body Condition Sensor System with Wireless Feedback Alarm Functions (Adv. Mater. 18/2021). <i>Advanced Materials</i> , 2021, 33, 2170141.	21.0	0
28	Uniaxially Stretched Flexible Surface Plasmon Resonance Film for Versatile Surface Enhanced Raman Scattering Diagnostics. , 2017, , .		0
29	A Fully Printed Flexible Sensor Sheet for Simultaneous Proximityâ€“Pressureâ€“Temperature Detection (Adv. Mater. Technol. 11/2021). <i>Advanced Materials Technologies</i> , 2021, 6, 2170065.	5.8	0