

Songlin Zhang

List of Publications by Year in descending order

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40
papers

3,271
citations

236833

25
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315616

38
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42
docs citations

42
times ranked

2957
citing authors

#	ARTICLE	IF	CITATIONS
1	Augmenting Sensor Performance with Machine Learning Towards Smart Wearable Sensing Electronic Systems. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	20
2	Repurposing face mask waste to construct floating photothermal evaporator for autonomous solar ocean farming. <i>EcoMat</i> , 2022, 4, .	6.8	89
3	Reversible Hydration Composite Films for Evaporative Perspiration Control and Heat Stress Management. <i>Small</i> , 2022, 18, e2107636.	5.2	15
4	Augmenting Sensor Performance with Machine Learning Towards Smart Wearable Sensing Electronic Systems. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	2
5	Muscle Fibers Inspired High-Performance Piezoelectric Textiles for Wearable Physiological Monitoring. <i>Advanced Functional Materials</i> , 2021, 31, 2010962.	7.8	169
6	Leveraging triboelectric nanogenerators for bioengineering. <i>Matter</i> , 2021, 4, 845-887.	5.0	192
7	Piezoelectric Textiles: Muscle Fibers Inspired High-Performance Piezoelectric Textiles for Wearable Physiological Monitoring (<i>Adv. Funct. Mater.</i> 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170136.	7.8	6
8	Tailoring Ti3CNT MXene via an acid molecular scissor. <i>Nano Energy</i> , 2021, 85, 106007.	8.2	36
9	Near-Instantaneously Self-Healing Coating toward Stable and Durable Electromagnetic Interference Shielding. <i>Nano-Micro Letters</i> , 2021, 13, 190.	14.4	28
10	Solar-Driven Gas-Phase Moisture to Hydrogen with Zero Bias. <i>ACS Nano</i> , 2021, 15, 19119-19127.	7.3	16
11	A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. <i>Nano Energy</i> , 2020, 67, 104235.	8.2	172
12	Carbon Nanotube Reinforced Strong Carbon Matrix Composites. <i>ACS Nano</i> , 2020, 14, 9282-9319.	7.3	89
13	Largely boosted methanol electrooxidation using ionic liquid/PdCu aerogels via interface engineering. <i>Materials Horizons</i> , 2020, 7, 2407-2413.	6.4	36
14	Single-layered ultra-soft washable smart textiles for all-around ballistocardiograph, respiration, and posture monitoring during sleep. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112064.	5.3	233
15	Sign-to-speech translation using machine-learning-assisted stretchable sensor arrays. <i>Nature Electronics</i> , 2020, 3, 571-578.	13.1	513
16	Ternary Electrification Layered Architecture for High-Performance Triboelectric Nanogenerators. <i>ACS Nano</i> , 2020, 14, 9050-9058.	7.3	88
17	Continuous Synthesis of Double-Walled Carbon Nanotubes with Water-Assisted Floating Catalyst Chemical Vapor Deposition. <i>Nanomaterials</i> , 2020, 10, 365.	1.9	26
18	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020, 2, 896-907.	5.0	310

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19	Alveolus-Inspired Active Membrane Sensors for Self-Powered Wearable Chemical Sensing and Breath Analysis. <i>ACS Nano</i> , 2020, 14, 6067-6075.	7.3	271
20	Thermogalvanic Hydrogel for Synchronous Evaporative Cooling and Low-Grade Heat Energy Harvesting. <i>Nano Letters</i> , 2020, 20, 3791-3797.	4.5	154
21	Promoting Energy Efficiency via a Self-Adaptive Evaporative Cooling Hydrogel. <i>Advanced Materials</i> , 2020, 32, e1907307.	11.1	151
22	Lightweight carbon nanotube surface thermal shielding for carbon fiber/bismaleimide composites. <i>Carbon</i> , 2019, 153, 320-329.	5.4	27
23	Carbon fibers from polyacrylonitrile/cellulose nanocrystal nanocomposite fibers. <i>Carbon</i> , 2019, 145, 764-771.	5.4	41
24	Electrical and thermal conductivity improvement of carbon nanotube and silver composites. <i>Carbon</i> , 2019, 146, 224-231.	5.4	75
25	A Highly Stretchable Polyacrylonitrile Elastomer with Nanoreservoirs of Lubricant Using Cyano-Silver Complexes. <i>Nano Letters</i> , 2019, 19, 3871-3877.	4.5	21
26	Carbon Nanotubes and Their Assemblies: Applications in Electromagnetic Interference Shielding. , 2019, , 335-357.		2
27	Carbon-Nanotube-Based Electrical Conductors: Fabrication, Optimization, and Applications. <i>Advanced Electronic Materials</i> , 2019, 5, 1800811.	2.6	72
28	Stabilization Study of Polyacrylonitrile/Cellulose Nanocrystals Composite Fibers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1015-1021.	2.0	12
29	Carbon nanotube/carbon composite fiber with improved strength and electrical conductivity via interface engineering. <i>Carbon</i> , 2019, 144, 628-638.	5.4	86
30	Effect of interfacial coating and testing conditions on the flexural performance of carbon woven fibre-reinforced polyamide laminates. <i>Plastics, Rubber and Composites</i> , 2019, 48, 57-65.	0.9	4
31	Porous Halide Perovskite-Polymer Nanocomposites for Explosive Detection with a High Sensitivity. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801686.	1.9	22
32	Roll-to-roll continuous carbon nanotube sheets with high electrical conductivity. <i>RSC Advances</i> , 2018, 8, 12692-12700.	1.7	20
33	Recent Advances on 3D Printing Technique for Thermal-Related Applications. <i>Advanced Engineering Materials</i> , 2018, 20, 1700876.	1.6	40
34	Effect of trigger on crashworthiness of unidirectional carbon fibre reinforced polyamide 6 composites. <i>Plastics, Rubber and Composites</i> , 2018, 47, 208-220.	0.9	11
35	High-Performance and Lightweight Thermal Management Devices by 3D Printing and Assembly of Continuous Carbon Nanotube Sheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27171-27177.	4.0	23
36	Ultra-high conductivity and metallic conduction mechanism of scale-up continuous carbon nanotube sheets by mechanical stretching and stable chemical doping. <i>Carbon</i> , 2017, 125, 649-658.	5.4	46

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37	Direct Printing of Thermal Management Device Using Low-Cost Composite Ink. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700135.	1.7	35
38	Step-by-Step Strategy for Constructing Multilayer Structured Coatings toward High-Efficiency Electromagnetic Interference Shielding. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500476.	1.9	70
39	Superhydrophobization of cotton fabric with multiwalled carbon nanotubes for durable electromagnetic interference shielding. <i>Fibers and Polymers</i> , 2015, 16, 2158-2164.	1.1	48
40	Atomic Resolution Imaging and Analysis of Microstructures and Interface of Aligned Carbon Nanotube Composites. , 0, , .		0