Ronghui Wu

List of Publications by Year
in descending order

53 papers	2,513 citations	218592 26 h-index	197736 49 g-index
54 all docs	54 docs citations	54 times ranked	2820 citing authors

#	Article	IF	Citations
1	Reconstructed silk fibroin mediated smart wristband for physiological signal detection. Chemical Engineering Journal, 2022, 428, 132362.	6.6	14
2	Palladium nanoparticles/wool keratin-assisted carbon composite-modified flexible and disposable electrochemical solid-state pH sensor. Chinese Physics B, 2022, 31, 028201.	0.7	3
3	From Mesoscopic Functionalization of Silk Fibroin to Smart Fiber Devices for Textile Electronics and Photonics. Advanced Science, 2022, 9, e2103981.	5.6	40
4	A Skinâ€Like Pressureâ€•and Vibrationâ€Sensitive Tactile Sensor Based on Polyacrylamide/Silk Fibroin Elastomer. Advanced Functional Materials, 2022, 32, .	7.8	39
5	Silk Fibroin Based Conductive Film for Multifunctional Sensing and Energy Harvesting. Advanced Fiber Materials, 2022, 4, 885-893.	7.9	30
6	Spider-inspired regenerated silk fibroin fiber actuator via microfluidic spinning. Chemical Engineering Journal, 2022, 444, 136556.	6.6	20
7	Full-Fiber Auxetic-Interlaced Yarn Sensor for Sign-Language Translation Glove Assisted by Artificial Neural Network. Nano-Micro Letters, 2022, 14, .	14.4	28
8	Industrial Fabrication of 3D Braided Stretchable Hierarchical Interlocked Fancyâ€Yarn Triboelectric Nanogenerator for Selfâ€Powered Smart Fitness System. Advanced Energy Materials, 2022, 12, .	10.2	31
9	3D Upper Body Reconstruction with Sparse Soft Sensors. Soft Robotics, 2021, 8, 226-239.	4.6	9
10	All-in-one fibrous capacitive humidity sensor for human breath monitoring. Textile Reseach Journal, 2021, 91, 398-405.	1.1	16
11	Enhanced mechanical performance of biocompatible silk fibroin films through mesoscopic construction of hierarchical structures. Textile Reseach Journal, 2021, 91, 1146-1154.	1.1	3
12	Robust Elbow Angle Prediction With Aging Soft Sensors via Output-Level Domain Adaptation. IEEE Sensors Journal, 2021, 21, 22976-22984.	2.4	4
13	Array Integration and Farâ€Field Detection of Biocompatible Wireless LC Pressure Sensors. Small Methods, 2021, 5, e2001055.	4.6	18
14	A capacitive humidity sensor based on all-protein embedded with gold nanoparticles @ carbon composite for human respiration detection. Nanotechnology, 2021, 32, 19LT01.	1.3	12
15	Biomimetic Salinity Power Generation Based on Silk Fibroin Ion-Exchange Membranes. ACS Nano, 2021, 15, 5649-5660.	7.3	36
16	Direct Single-Step Printing of Conductive Grids on Curved Surfaces Using Template-Guided Foaming. ACS Applied Materials & Interfaces, 2021, 13, 19168-19175.	4.0	8
17	New Silk Road: From Mesoscopic Reconstruction/Functionalization to Flexible Mesoâ€Electronics/Photonics Based on Cocoon Silk Materials. Advanced Materials, 2021, 33, e2005910.	11.1	45
18	Wearable hydration and pH sensor based on protein film for healthcare monitoring. Chemical Papers, 2021, 75, 4927.	1.0	10

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19	Acid and Alkaliâ€Resistant Textile Triboelectric Nanogenerator as a Smart Protective Suit for Liquid Energy Harvesting and Selfâ€Powered Monitoring in Highâ€Risk Environments. Advanced Functional Materials, 2021, 31, 2102963.	7.8	63
20	Stretchable, Stable, and Degradable Silk Fibroin Enabled by Mesoscopic Doping for Finger Motion Triggered Color/Transmittance Adjustment. ACS Nano, 2021, 15, 12429-12437.	7.3	42
21	Metal nanoparticles: ligand free approach towards coupling reactions. Current Chinese Science, 2021, 01, .	0.2	0
22	Review of microfluidic approaches for fabricating intelligent fiber devices: importance of shape characteristics. Lab on A Chip, 2021, 21, 1217-1240.	3.1	30
23	Flexible and disposable gold nanoparticles-N-doped carbon-modified electrochemical sensor for simultaneous detection of dopamine and uric acid. Nanotechnology, 2021, 32, 065502.	1.3	15
24	Free-Standing, Flexible Carbon@MXene Films with Cross-Linked Mesoporous Structures toward Supercapacitors and Pressure Sensors. ACS Applied Materials & Interfaces, 2021, 13, 57576-57587.	4.0	23
25	Transparent, stretchable and degradable protein electronic skin for biomechanical energy scavenging and wireless sensing. Biosensors and Bioelectronics, 2020, 169, 112567.	5.3	57
26	Programing Performance of Silk Fibroin Superstrong Scaffolds by Mesoscopic Regulation among Hierarchical Structures. Biomacromolecules, 2020, 21, 4169-4179.	2.6	14
27	A Machineâ€Fabricated 3D Honeycombâ€Structured Flameâ€Retardant Triboelectric Fabric for Fire Escape and Rescue. Advanced Materials, 2020, 32, e2003897.	11.1	136
28	From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring. Small, 2020, 16, e2000203.	5.2	48
29	Tailoring the Meso-Structure of Gold Nanoparticles in Keratin-Based Activated Carbon Toward High-Performance Flexible Sensor. Nano-Micro Letters, 2020, 12, 117.	14.4	20
30	Graphene decorated carbonized cellulose fabric for physiological signal monitoring and energy harvesting. Journal of Materials Chemistry A, 2020, 8, 12665-12673.	5.2	68
31	Respiration Monitoring: From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring (Small 26/2020). Small, 2020, 16, 2070147.	5.2	1
32	Stretchable, Biocompatible, and Multifunctional Silk Fibroin-Based Hydrogels toward Wearable Strain/Pressure Sensors and Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2020, 12, 6442-6450.	4.0	302
33	Continuous and Scalable Manufacture of Hybridized Nano-Micro Triboelectric Yarns for Energy Harvesting and Signal Sensing. ACS Nano, 2020, 14, 4716-4726.	7.3	130
34	All-Textile Electronic Skin Enabled by Highly Elastic Spacer Fabric and Conductive Fibers. ACS Applied Materials & Interfaces, 2019, 11, 33336-33346.	4.0	81
35	An efficient disposable and flexible electrochemical sensor based on a novel and stable metal carbon composite derived from cocoon silk. Biosensors and Bioelectronics, 2019, 142, 111595.	5.3	20
36	A Novel Facile and Green Synthesis Protocol to Prepare High Strength Regenerated Silk Fibroin/SiO2 Composite Fiber. Fibers and Polymers, 2019, 20, 2222-2226.	1.1	8

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37	Hydrogen Production: Light-Driven Sustainable Hydrogen Production Utilizing TiO2 Nanostructures: A Review (Small Methods 1/2019). Small Methods, 2019, 3, 1800053.	4.6	7
38	Fullâ€Textile Wireless Flexible Humidity Sensor for Human Physiological Monitoring. Advanced Functional Materials, 2019, 29, 1904549.	7.8	193
39	A Biodegradable and Stretchable Proteinâ€Based Sensor as Artificial Electronic Skin for Human Motion Detection. Small, 2019, 15, e1805084.	5.2	143
40	Pulsed electrochemical deposition of porous WO₃ on silver networks for highly flexible electrochromic devices. Journal of Materials Chemistry C, 2019, 7, 1966-1973.	2.7	40
41	A facile method to prepare a wearable pressure sensor based on fabric electrodes for human motion monitoring. Textile Reseach Journal, 2019, 89, 5144-5152.	1.1	26
42	Silk Composite Electronic Textile Sensor for High Space Precision 2D Combo Temperatureâ€“Pressure Sensing. Small, 2019, 15, e1901558.	5.2	184
43	Lightâ€Driven Sustainable Hydrogen Production Utilizing TiO₂ Nanostructures: A Review. Small Methods, 2019, 3, 1800184.	4.6	118
44	Controllable and large-scale fabrication of flexible ITO-free electrochromic devices by crackle pattern technology. Journal of Materials Chemistry A, 2018, 6, 19584-19589.	5.2	22
45	Chemical Decoration of Perovskites by Nickel Oxide Doping for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 36841-36850.	4.0	11
46	Data analysis between controllable variables and the performance of CuS crackle based electrode. Data in Brief, 2018, 17, 1331-1335.	0.5	1
47	Ultraflexible, stretchable and fast-switching electrochromic devices with enhanced cycling stability. RSC Advances, 2018, 8, 18690-18697.	1.7	30
48	Highly flexible, transparent and conducting CuS-nanosheet networks for flexible quantum-dot solar cells. Nanoscale, 2017, 9, 3826-3833.	2.8	33
49	Transparent conducting oxide- and Pt-free flexible photo-rechargeable electric energy storage systems. RSC Advances, 2017, 7, 52988-52994.	1.7	23
50	Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. RSC Advances, 2017, 7, 29088-29095.	1.7	35
51	Solar Cells: Recent Development of Transparent Conducting Oxide-Free Flexible Thin-Film Solar Cells (Adv. Funct. Mater. 48/2016). Advanced Functional Materials, 2016, 26, 8854-8854.	7.8	2
52	Recent Development of Transparent Conducting Oxideâ€Free Flexible Thinâ€Film Solar Cells. Advanced Functional Materials, 2016, 26, 8855-8884.	7.8	82
53	In situ growth of CuS and Cu_{1.8}S nanosheet arrays as efficient counter electrodes for quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 9595-9600.	5.2	132