

Ronghui Wu

List of Publications by Year in descending order

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53
papers

2,513
citations

218592

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times ranked

2820
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable, Biocompatible, and Multifunctional Silk Fibroin-Based Hydrogels toward Wearable Strain/Pressure Sensors and Triboelectric Nanogenerators. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6442-6450.	4.0	302
2	Full-Color Textile Wireless Flexible Humidity Sensor for Human Physiological Monitoring. <i>Advanced Functional Materials</i> , 2019, 29, 1904549.	7.8	193
3	Silk Composite Electronic Textile Sensor for High Space Precision 2D Combo Temperature-Pressure Sensing. <i>Small</i> , 2019, 15, e1901558.	5.2	184
4	A Biodegradable and Stretchable Protein-Based Sensor as Artificial Electronic Skin for Human Motion Detection. <i>Small</i> , 2019, 15, e1805084.	5.2	143
5	A Machine-Fabricated 3D Honeycomb-Structured Flame-Retardant Triboelectric Fabric for Fire Escape and Rescue. <i>Advanced Materials</i> , 2020, 32, e2003897.	11.1	136
6	In situ growth of CuS and Cu _{1.8} S nanosheet arrays as efficient counter electrodes for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9595-9600.	5.2	132
7	Continuous and Scalable Manufacture of Hybridized Nano-Micro Triboelectric Yarns for Energy Harvesting and Signal Sensing. <i>ACS Nano</i> , 2020, 14, 4716-4726.	7.3	130
8	Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review. <i>Small Methods</i> , 2019, 3, 1800184.	4.6	118
9	Recent Development of Transparent Conducting Oxide-Free Flexible Thin-Film Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 8855-8884.	7.8	82
10	All-Textile Electronic Skin Enabled by Highly Elastic Spacer Fabric and Conductive Fibers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33336-33346.	4.0	81
11	Graphene decorated carbonized cellulose fabric for physiological signal monitoring and energy harvesting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12665-12673.	5.2	68
12	Acid and Alkali-Resistant Textile Triboelectric Nanogenerator as a Smart Protective Suit for Liquid Energy Harvesting and Self-Powered Monitoring in High-Risk Environments. <i>Advanced Functional Materials</i> , 2021, 31, 2102963.	7.8	63
13	Transparent, stretchable and degradable protein electronic skin for biomechanical energy scavenging and wireless sensing. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112567.	5.3	57
14	From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring. <i>Small</i> , 2020, 16, e2000203.	5.2	48
15	New Silk Road: From Mesoscopic Reconstruction/Functionalization to Flexible Meso-Electronics/Photonics Based on Cocoon Silk Materials. <i>Advanced Materials</i> , 2021, 33, e2005910.	11.1	45
16	Stretchable, Stable, and Degradable Silk Fibroin Enabled by Mesoscopic Doping for Finger Motion Triggered Color/Transmittance Adjustment. <i>ACS Nano</i> , 2021, 15, 12429-12437.	7.3	42
17	Pulsed electrochemical deposition of porous WO ₃ on silver networks for highly flexible electrochromic devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1966-1973.	2.7	40
18	From Mesoscopic Functionalization of Silk Fibroin to Smart Fiber Devices for Textile Electronics and Photonics. <i>Advanced Science</i> , 2022, 9, e2103981.	5.6	40

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19	A Skin-Like Pressure- and Vibration-Sensitive Tactile Sensor Based on Polyacrylamide/Silk Fibroin Elastomer. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	39
20	Biomimetic Salinity Power Generation Based on Silk Fibroin Ion-Exchange Membranes. <i>ACS Nano</i> , 2021, 15, 5649-5660.	7.3	36
21	Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. <i>RSC Advances</i> , 2017, 7, 29088-29095.	1.7	35
22	Highly flexible, transparent and conducting CuS-nanosheet networks for flexible quantum-dot solar cells. <i>Nanoscale</i> , 2017, 9, 3826-3833.	2.8	33
23	Industrial Fabrication of 3D Braided Stretchable Hierarchical Interlocked Fancy-Yarn Triboelectric Nanogenerator for Self-Powered Smart Fitness System. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	31
24	Ultraflexible, stretchable and fast-switching electrochromic devices with enhanced cycling stability. <i>RSC Advances</i> , 2018, 8, 18690-18697.	1.7	30
25	Review of microfluidic approaches for fabricating intelligent fiber devices: importance of shape characteristics. <i>Lab on A Chip</i> , 2021, 21, 1217-1240.	3.1	30
26	Silk Fibroin Based Conductive Film for Multifunctional Sensing and Energy Harvesting. <i>Advanced Fiber Materials</i> , 2022, 4, 885-893.	7.9	30
27	Full-Fiber Auxetic-Interlaced Yarn Sensor for Sign-Language Translation Glove Assisted by Artificial Neural Network. <i>Nano-Micro Letters</i> , 2022, 14, .	14.4	28
28	A facile method to prepare a wearable pressure sensor based on fabric electrodes for human motion monitoring. <i>Textile Reseach Journal</i> , 2019, 89, 5144-5152.	1.1	26
29	Transparent conducting oxide- and Pt-free flexible photo-rechargeable electric energy storage systems. <i>RSC Advances</i> , 2017, 7, 52988-52994.	1.7	23
30	Free-Standing, Flexible Carbon@MXene Films with Cross-Linked Mesoporous Structures toward Supercapacitors and Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57576-57587.	4.0	23
31	Controllable and large-scale fabrication of flexible ITO-free electrochromic devices by crackle pattern technology. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19584-19589.	5.2	22
32	An efficient disposable and flexible electrochemical sensor based on a novel and stable metal carbon composite derived from cocoon silk. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111595.	5.3	20
33	Tailoring the Meso-Structure of Gold Nanoparticles in Keratin-Based Activated Carbon Toward High-Performance Flexible Sensor. <i>Nano-Micro Letters</i> , 2020, 12, 117.	14.4	20
34	Spider-inspired regenerated silk fibroin fiber actuator via microfluidic spinning. <i>Chemical Engineering Journal</i> , 2022, 444, 136556.	6.6	20
35	Array Integration and Far-Field Detection of Biocompatible Wireless LC Pressure Sensors. <i>Small Methods</i> , 2021, 5, e2001055.	4.6	18
36	All-in-one fibrous capacitive humidity sensor for human breath monitoring. <i>Textile Reseach Journal</i> , 2021, 91, 398-405.	1.1	16

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37	Flexible and disposable gold nanoparticles-N-doped carbon-modified electrochemical sensor for simultaneous detection of dopamine and uric acid. <i>Nanotechnology</i> , 2021, 32, 065502.	1.3	15
38	Programing Performance of Silk Fibroin Superstrong Scaffolds by Mesoscopic Regulation among Hierarchical Structures. <i>Biomacromolecules</i> , 2020, 21, 4169-4179.	2.6	14
39	Reconstructed silk fibroin mediated smart wristband for physiological signal detection. <i>Chemical Engineering Journal</i> , 2022, 428, 132362.	6.6	14
40	A capacitive humidity sensor based on all-protein embedded with gold nanoparticles @ carbon composite for human respiration detection. <i>Nanotechnology</i> , 2021, 32, 19LT01.	1.3	12
41	Chemical Decoration of Perovskites by Nickel Oxide Doping for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36841-36850.	4.0	11
42	Wearable hydration and pH sensor based on protein film for healthcare monitoring. <i>Chemical Papers</i> , 2021, 75, 4927.	1.0	10
43	3D Upper Body Reconstruction with Sparse Soft Sensors. <i>Soft Robotics</i> , 2021, 8, 226-239.	4.6	9
44	A Novel Facile and Green Synthesis Protocol to Prepare High Strength Regenerated Silk Fibroin/SiO ₂ Composite Fiber. <i>Fibers and Polymers</i> , 2019, 20, 2222-2226.	1.1	8
45	Direct Single-Step Printing of Conductive Grids on Curved Surfaces Using Template-Guided Foaming. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19168-19175.	4.0	8
46	Hydrogen Production: Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review (Small Methods 1/2019). <i>Small Methods</i> , 2019, 3, 1800053.	4.6	7
47	Robust Elbow Angle Prediction With Aging Soft Sensors via Output-Level Domain Adaptation. <i>IEEE Sensors Journal</i> , 2021, 21, 22976-22984.	2.4	4
48	Enhanced mechanical performance of biocompatible silk fibroin films through mesoscopic construction of hierarchical structures. <i>Textile Research Journal</i> , 2021, 91, 1146-1154.	1.1	3
49	Palladium nanoparticles/wool keratin-assisted carbon composite-modified flexible and disposable electrochemical solid-state pH sensor. <i>Chinese Physics B</i> , 2022, 31, 028201.	0.7	3
50	Solar Cells: Recent Development of Transparent Conducting Oxide-Free Flexible Thin-Film Solar Cells (Adv. Funct. Mater. 48/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8854-8854.	7.8	2
51	Data analysis between controllable variables and the performance of CuS crackle based electrode. <i>Data in Brief</i> , 2018, 17, 1331-1335.	0.5	1
52	Respiration Monitoring: From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring (Small 26/2020). <i>Small</i> , 2020, 16, 2070147.	5.2	1
53	Metal nanoparticles: ligand free approach towards coupling reactions. <i>Current Chinese Science</i> , 2021, 01, .	0.2	0