

Shu Gong

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

6,517
citations

101496

36
h-index

161767

54
g-index

54
all docs

54
docs citations

54
times ranked

7635
citing authors

#	ARTICLE	IF	CITATIONS
1	A wearable and highly sensitive pressure sensor with ultrathin gold nanowires. <i>Nature Communications</i> , 2014, 5, 3132.	5.8	1,731
2	Highly Stretchy Black Gold E-Skin Nanopatches as Highly Sensitive Wearable Biomedical Sensors. <i>Advanced Electronic Materials</i> , 2015, 1, 1400063.	2.6	405
3	Mimosa-Inspired Design of a Flexible Pressure Sensor with Touch Sensitivity. <i>Small</i> , 2015, 11, 1886-1891.	5.2	312
4	Tattoo-like Polyaniline Microparticle-Doped Gold Nanowire Patches as Highly Durable Wearable Sensors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19700-19708.	4.0	273
5	Disruptive, Soft, Wearable Sensors. <i>Advanced Materials</i> , 2020, 32, e1904664.	11.1	272
6	One-Dimensional Nanomaterials for Soft Electronics. <i>Advanced Electronic Materials</i> , 2017, 3, 1600314.	2.6	271
7	Manufacturable Conducting Rubber Ambers and Stretchable Conductors from Copper Nanowire Aerogel Monoliths. <i>ACS Nano</i> , 2014, 8, 5707-5714.	7.3	240
8	Highly Stretchable and Strain-Insensitive Fiber-Based Wearable Electrochemical Biosensor to Monitor Glucose in the Sweat. <i>Analytical Chemistry</i> , 2019, 91, 6569-6576.	3.2	209
9	Toward Soft Skin-Like Wearable and Implantable Energy Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1700648.	10.2	175
10	Local Crack-Programmed Gold Nanowire Electronic Skin Tattoos for In-Plane Multisensor Integration. <i>Advanced Materials</i> , 2019, 31, e1903789.	11.1	161
11	Plasmonic core-shell nanoparticles for SERS detection of the pesticide thiram: size- and shape-dependent Raman enhancement. <i>Nanoscale</i> , 2015, 7, 2862-2868.	2.8	153
12	Hierarchically Structured Vertical Gold Nanowire Array-Based Wearable Pressure Sensors for Wireless Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29014-29021.	4.0	148
13	Softening gold for elastronics. <i>Chemical Society Reviews</i> , 2019, 48, 1668-1711.	18.7	138
14	Standing Enokitake-like Nanowire Films for Highly Stretchable Elastronics. <i>ACS Nano</i> , 2018, 12, 9742-9749.	7.3	130
15	Volume-invariant ionic liquid microbands as highly durable wearable biomedical sensors. <i>Materials Horizons</i> , 2016, 3, 208-213.	6.4	121
16	Fabrication of Highly Transparent and Flexible NanoMesh Electrode via Self-Assembly of Ultrathin Gold Nanowires. <i>Advanced Electronic Materials</i> , 2016, 2, 1600121.	2.6	112
17	Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. <i>Analytical Chemistry</i> , 2020, 92, 4647-4655.	3.2	108
18	Stretchable gold fiber-based wearable textile electrochemical biosensor for lactate monitoring in sweat. <i>Talanta</i> , 2021, 222, 121484.	2.9	104

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19	<i>Enokitake</i> Mushroom-like Standing Gold Nanowires toward Wearable Noninvasive Bimodal Glucose and Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9724-9729.	4.0	91
20	A Wearable Second Skin-like Multifunctional Supercapacitor with Vertical Gold Nanowires and Electrochromic Polyaniline. <i>Advanced Materials Technologies</i> , 2019, 4, 1800473.	3.0	88
21	Self-powered gold nanowire tattoo triboelectric sensors for soft wearable human-machine interface. <i>Nano Energy</i> , 2020, 77, 105295.	8.2	82
22	Nanowire-based Soft Wearable Human-machine Interfaces for Future Virtual and Augmented Reality Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2008347.	7.8	80
23	Self-assembled Ultrathin Gold Nanowires as Highly Transparent, Conductive and Stretchable Supercapacitor. <i>Electroanalysis</i> , 2016, 28, 1298-1304.	1.5	73
24	Soft Wearable Healthcare Materials and Devices. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100577.	3.9	71
25	A Soft Resistive Acoustic Sensor Based on Suspended Standing Nanowire Membranes with Point Crack Design. <i>Advanced Functional Materials</i> , 2020, 30, 1910717.	7.8	68
26	Real-Time and In-Situ Monitoring of H ₂ O ₂ Release from Living Cells by a Stretchable Electrochemical Biosensor Based on Vertically Aligned Gold Nanowires. <i>Analytical Chemistry</i> , 2019, 91, 13521-13527.	3.2	66
27	Unconventional Janus Properties of Enokitake-like Gold Nanowire Films. <i>ACS Nano</i> , 2018, 12, 8717-8722.	7.3	65
28	Multiscale Soft-hard Interface Design for Flexible Hybrid Electronics. <i>Advanced Materials</i> , 2020, 32, e1902278.	11.1	65
29	Liquid-Wetting-Solid Strategy To Fabricate Stretchable Sensors for Human-Motion Detection. <i>ACS Sensors</i> , 2016, 1, 303-311.	4.0	64
30	A Moss-inspired Electroless Gold-coating Strategy Toward Stretchable Fiber Conductors by Dry Spinning. <i>Advanced Electronic Materials</i> , 2019, 5, 1800462.	2.6	62
31	Vertical Gold Nanowires Stretchable Electrochemical Electrodes. <i>Analytical Chemistry</i> , 2018, 90, 13498-13505.	3.2	58
32	Stretchable gold fiber-based wearable electrochemical sensor toward pH monitoring. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3655-3660.	2.9	50
33	A location- and sharpness-specific tactile electronic skin based on staircase-like nanowire patches. <i>Nanoscale Horizons</i> , 2018, 3, 640-647.	4.1	49
34	Patterning Vertically Grown Gold Nanowire Electrodes for Intrinsically Stretchable Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800509.	2.6	48
35	Highly Stretchable Fiber-Shaped Supercapacitors Based on Ultrathin Gold Nanowires with Double-Helix Winding Design. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42612-42620.	4.0	47
36	Self-assembled gold nanorime mesh conductors for invisible stretchable supercapacitors. <i>Nanoscale</i> , 2018, 10, 15948-15955.	2.8	40

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37	Intrinsically Stretchable Fuel Cell Based on Enokitake-Like Standing Gold Nanowires. <i>Advanced Energy Materials</i> , 2020, 10, 1903512.	10.2	34
38	Soft piezoresistive pressure sensing matrix from copper nanowires composite aerogel. <i>Science Bulletin</i> , 2016, 61, 1624-1630.	4.3	31
39	Dynamically functioning and highly stretchable epidermal supercapacitor based on vertically aligned gold nanowire skins. <i>EcoMat</i> , 2020, 2, e12022.	6.8	26
40	A Janus gold nanowire electrode for stretchable micro-supercapacitors with distinct capacitances. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14233-14238.	5.2	23
41	Design of Stretchable Holey Gold Biosensing Electrode for Real-Time Cell Monitoring. <i>ACS Sensors</i> , 2020, 5, 3165-3171.	4.0	22
42	Skin-Like Stretchable Fuel Cell Based on Gold-Nanowire-Impregnated Porous Polymer Scaffolds. <i>Small</i> , 2020, 16, e2003269.	5.2	22
43	Covalent-Cross-Linked Plasmene Nanosheets. <i>ACS Nano</i> , 2019, 13, 6760-6769.	7.3	19
44	Bifunctional Fe ₃ O ₄ @AuNWs particle as wearable bending and strain sensor. <i>Inorganic Chemistry Communication</i> , 2019, 104, 98-104.	1.8	19
45	Embedding Pinhole Vertical Gold Nanowire Electronic Skins for Braille Recognition. <i>Small</i> , 2019, 15, e1804853.	5.2	19
46	Soft gold nanowire sponge antenna for battery-free wireless pressure sensors. <i>Nanoscale</i> , 2021, 13, 3957-3966.	2.8	17
47	A gold nanowire-integrated soft wearable system for dynamic continuous non-invasive cardiac monitoring. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114072.	5.3	15
48	A Stretchable Gold Nanowire Sensor and Its Characterization Using Machine Learning for Motion Tracking. <i>IEEE Sensors Journal</i> , 2021, 21, 15269-15276.	2.4	8
49	Soft gold nanowire sponges for strain-insensitive conductors, wearable energy storage and catalytic converters. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15329-15336.	2.7	8
50	Soft, Disruptive and Wearable Electrochemical Biosensors. <i>Current Analytical Chemistry</i> , 2022, 18, 689-704.	0.6	7
51	Hairy gold nanorods: gold nanowire growth on nanosubstrates [Invited]. <i>Optical Materials Express</i> , 2020, 10, 342.	1.6	5
52	Two-Dimensional Nanoassemblies from Plasmonic Matryoshka Nanoframes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27753-27762.	1.5	5
53	Sensors: Mimosa-Inspired Design of a Flexible Pressure Sensor with Touch Sensitivity (<i>Small</i> 16/2015). <i>Small</i> , 2015, 11, 1885-1885.	5.2	4
54	Mechanically-gated electrochemical ionic channels with chemically modified vertically aligned gold nanowires. <i>IScience</i> , 2021, 24, 103307.	1.9	3