

Inkyu Park

List of Publications by Year in descending order

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186
papers

12,978
citations

36271

51
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191
all docs

191
docs citations

191
times ranked

14513
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable, Skin-Mountable, and Wearable Strain Sensors and Their Potential Applications: A Review. <i>Advanced Functional Materials</i> , 2016, 26, 1678-1698.	7.8	2,340
2	Highly Stretchable and Sensitive Strain Sensor Based on Silver Nanowire-Elastomer Nanocomposite. <i>ACS Nano</i> , 2014, 8, 5154-5163.	7.3	1,957
3	Ultra-stretchable and skin-mountable strain sensors using carbon nanotubes-Ecoflex nanocomposites. <i>Nanotechnology</i> , 2015, 26, 375501.	1.3	646
4	A stretchable strain sensor based on a metal nanoparticle thin film for human motion detection. <i>Nanoscale</i> , 2014, 6, 11932-11939.	2.8	529
5	Polymeric Biomaterials for Medical Implants and Devices. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 454-472.	2.6	524
6	Highly Sensitive, Flexible, and Wearable Pressure Sensor Based on a Giant Piezocapacitive Effect of Three-Dimensional Microporous Elastomeric Dielectric Layer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16922-16931.	4.0	404
7	Wearable and Stretchable Strain Sensors: Materials, Sensing Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000039.	3.3	327
8	Direct Nanoimprinting of Metal Nanoparticles for Nanoscale Electronics Fabrication. <i>Nano Letters</i> , 2007, 7, 1869-1877.	4.5	297
9	3D printing of multiaxial force sensors using carbon nanotube (CNT)/thermoplastic polyurethane (TPU) filaments. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 493-500.	2.0	232
10	Nanoscale Patterning and Electronics on Flexible Substrate by Direct Nanoimprinting of Metallic Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 489-496.	11.1	174
11	Top-down fabricated silicon nanowire sensors for real-time chemical detection. <i>Nanotechnology</i> , 2010, 21, 015501.	1.3	165
12	Wearable, Ultrawide-Range, and Bending-Insensitive Pressure Sensor Based on Carbon Nanotube Network-Coated Porous Elastomer Sponges for Human Interface and Healthcare Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23639-23648.	4.0	155
13	Transparent, Flexible Strain Sensor Based on a Solution-Processed Carbon Nanotube Network. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26279-26285.	4.0	134
14	A New Route toward Ultrasensitive, Flexible Chemical Sensors: Metal Nanotubes by Wet-Chemical Synthesis along Sacrificial Nanowire Templates. <i>ACS Nano</i> , 2012, 6, 598-608.	7.3	133
15	Selective Surface Functionalization of Silicon Nanowires via Nanoscale Joule Heating. <i>Nano Letters</i> , 2007, 7, 3106-3111.	4.5	117
16	Highly Sensitive and Wearable Liquid Metal-Based Pressure Sensor for Health Monitoring Applications: Integration of a 3D-Printed Microbump Array with the Microchannel. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900978.	3.9	116
17	Three-Dimensional Continuous Conductive Nanostructure for Highly Sensitive and Stretchable Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17369-17378.	4.0	114
18	Synergetic Effect of Porous Elastomer and Percolation of Carbon Nanotube Filler toward High Performance Capacitive Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1698-1706.	4.0	113

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19	Towards the silicon nanowire-based sensor for intracellular biochemical detection. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2065-2070.	5.3	105
20	ZnO nanowire network transistor fabrication on a polymer substrate by low-temperature, all-inorganic nanoparticle solution process. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	93
21	Soft Nanocomposite Based Multi-point, Multi-directional Strain Mapping Sensor Using Anisotropic Electrical Impedance Tomography. <i>Scientific Reports</i> , 2017, 7, 39837.	1.6	90
22	Ag@Ni Core-Shell Nanowire Network for Robust Transparent Electrodes Against Oxidation and Sulfurization. <i>Small</i> , 2014, 10, 4171-4181.	5.2	89
23	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	4.7	87
24	Monolithic Micro Light-Emitting Diode/Metal Oxide Nanowire Gas Sensor with Microwatt-Level Power Consumption. <i>ACS Sensors</i> , 2020, 5, 563-570.	4.0	87
25	Self-Powered Humidity Sensor Using Chitosan-Based Plasmonic Metal-Hydrogel-Metal Filters. <i>Advanced Optical Materials</i> , 2020, 8, 1901932.	3.6	85
26	Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27906-27915.	3.3	84
27	Biocompatible and Highly Stretchable PVA/AgNWs Hydrogel Strain Sensors for Human Motion Detection. <i>Advanced Materials Technologies</i> , 2020, 5, 2000426.	3.0	83
28	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021, 12, 5008.	5.8	83
29	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. <i>ACS Nano</i> , 2015, 9, 6059-6068.	7.3	82
30	Localized Liquid-Phase Synthesis of Porous SnO ₂ Nanotubes on MEMS Platform for Low-Power, High Performance Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27111-27119.	4.0	81
31	Sub-10 nm Nanoimprint Lithography by Wafer Bowing. <i>Nano Letters</i> , 2008, 8, 3865-3869.	4.5	75
32	Excellent detection of H ₂ S gas at ppb concentrations using ZnFe ₂ O ₄ nanofibers loaded with reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 876-884.	4.0	75
33	Multimetallic Alloy Nanotubes with Nanoporous Framework. <i>ACS Nano</i> , 2012, 6, 5659-5667.	7.3	74
34	Micropatterning of metal oxide nanofibers by electrohydrodynamic (EHD) printing towards highly integrated and multiplexed gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 574-583.	4.0	74
35	Strong localized surface plasmon resonance effects of Ag/TiO ₂ core-shell nanowire arrays in UV and visible light for photocatalytic activity. <i>Nanoscale</i> , 2014, 6, 226-234.	2.8	73
36	Ultrathin, Biocompatible, and Flexible Pressure Sensor with a Wide Pressure Range and Its Biomedical Application. <i>ACS Sensors</i> , 2020, 5, 481-489.	4.0	72

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37	Nanowire-integrated microfluidic devices for facile and reagent-free mechanical cell lysis. Lab on A Chip, 2012, 12, 2914.	3.1	70
38	Machine learning-enabled textile-based graphene gas sensing with energy harvesting-assisted IoT application. Nano Energy, 2021, 86, 106035.	8.2	70
39	Gas Sensor by Direct Growth and Functionalization of Metal Oxide/Metal Sulfide Core-Shell Nanowires on Flexible Substrates. ACS Applied Materials & Interfaces, 2019, 11, 24298-24307.	4.0	65
40	Biomimetic Turbinate-like Artificial Nose for Hydrogen Detection Based on 3D Porous Laser-Induced Graphene. ACS Applied Materials & Interfaces, 2019, 11, 24386-24394.	4.0	64
41	Wearable Strain Sensors Using Light Transmittance Change of Carbon Nanotube-Embedded Elastomers with Microcracks. ACS Applied Materials & Interfaces, 2020, 12, 10908-10917.	4.0	64
42	Palladium nanoparticle decorated silicon nanowire field-effect transistor with side-gates for hydrogen gas detection. Applied Physics Letters, 2014, 104, .	1.5	63
43	Thermal oxidation of tantalum films at various oxidation states from 300 to 700°C. Journal of Applied Physics, 2005, 98, 114908.	1.1	60
44	High Accuracy Real-Time Multi-Gas Identification by a Batch-Uniform Gas Sensor Array and Deep Learning Algorithm. ACS Sensors, 2022, 7, 430-440.	4.0	60
45	Localized Temperature and Chemical Reaction Control in Nanoscale Space by Nanowire Array. Nano Letters, 2011, 11, 4818-4825.	4.5	56
46	Focused Energy Field Method for the Localized Synthesis and Direct Integration of 1D Nanomaterials on Microelectronic Devices. Advanced Materials, 2015, 27, 1207-1215.	11.1	55
47	Fully integrated and portable semiconductor-type multi-gas sensing module for IoT applications. Sensors and Actuators B: Chemical, 2018, 265, 660-667.	4.0	55
48	Morphology-controllable wrinkled hierarchical structure and its application to superhydrophobic triboelectric nanogenerator. Nano Energy, 2021, 85, 105978.	8.2	54
49	Direct synthesis and integration of functional nanostructures in microfluidic devices. Lab on A Chip, 2011, 11, 1946.	3.1	52
50	Palladium-Decorated Silicon Nanomesh Fabricated by Nanosphere Lithography for High Performance, Room Temperature Hydrogen Sensing. Small, 2018, 14, 1703691.	5.2	52
51	Tensile characteristics of metal nanoparticle films on flexible polymer substrates for printed electronics applications. Nanotechnology, 2013, 24, 085701.	1.3	51
52	Self-heated silicon nanowires for high performance hydrogen gas detection. Nanotechnology, 2015, 26, 095501.	1.3	51
53	A self-heated silicon nanowire array: selective surface modification with catalytic nanoparticles by nanoscale Joule heating and its gas sensing applications. Nanoscale, 2013, 5, 6851.	2.8	50
54	Multiplexed Gas Sensor Based on Heterogeneous Metal Oxide Nanomaterial Array Enabled by Localized Liquid-Phase Reaction. ACS Applied Materials & Interfaces, 2015, 7, 10152-10161.	4.0	50

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55	Wearable self-powered pressure sensor by integration of piezo-transmittance microporous elastomer with organic solar cell. <i>Nano Energy</i> , 2020, 74, 104749.	8.2	49
56	A room temperature hydrogen sulfide gas sensor based on electrospun polyaniline/polyethylene oxide nanofibers directly written on flexible substrates. <i>RSC Advances</i> , 2016, 6, 104131-104138.	1.7	48
57	Irregular Microdome Structure-Based Sensitive Pressure Sensor Using Internal Popping of Microspheres. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	45
58	Improving the stretchability of as-deposited Ag coatings on poly-ethylene-terephthalate substrates through use of an acrylic primer. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	44
59	Extremely Robust and Patternable Electrodes for Copy-Paper-Based Electronics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19031-19037.	4.0	44
60	Chemo-Mechanically Operating Palladium-Polymer Nanograting Film for a Self-Powered H ₂ Gas Sensor. <i>ACS Nano</i> , 2020, 14, 16813-16822.	7.3	40
61	Facile three-dimensional nanoarchitecturing of double-bent gold strips on roll-to-roll nanoimprinted transparent nanogratings for flexible and scalable plasmonic sensors. <i>Nanoscale</i> , 2017, 9, 1398-1402.	2.8	39
62	A flexible comb electrode triboelectric/electret nanogenerator with separated microfibers for a self-powered position, motion direction and acceleration tracking sensor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16548-16555.	5.2	39
63	Microporous Elastomer Filter Coated with Metal Organic Frameworks for Improved Selectivity and Stability of Metal Oxide Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13338-13347.	4.0	39
64	Artificial Olfactory Neuron for an In-Sensor Neuromorphic Nose. <i>Advanced Science</i> , 2022, 9, e2106017.	5.6	39
65	Low temperature, low pressure nanoimprinting of chitosan as a biomaterial for bionanotechnology applications. <i>Applied Physics Letters</i> , 2007, 90, 093902.	1.5	38
66	Ultrafast Self-Assembly of Microscale Particles by Open-Channel Flow. <i>Langmuir</i> , 2010, 26, 4661-4667.	1.6	38
67	High-Sensitivity and Low-Power Flexible Schottky Hydrogen Sensor Based on Silicon Nanomembrane. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12870-12877.	4.0	38
68	Half-Pipe Palladium Nanotube-Based Hydrogen Sensor Using a Suspended Nanofiber Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13343-13349.	4.0	38
69	Microscale Biosensor Array Based on Flexible Polymeric Platform toward Lab-on-a-Needle: Real-Time Multiparameter Biomedical Assays on Curved Needle Surfaces. <i>ACS Sensors</i> , 2020, 5, 1363-1373.	4.0	37
70	Quantum dot-based immunoassay enhanced by high-density vertical ZnO nanowire array. <i>Biosensors and Bioelectronics</i> , 2014, 55, 209-215.	5.3	36
71	Interfacial toughening of solution processed Ag nanoparticle thin films by organic residuals. <i>Nanotechnology</i> , 2012, 23, 485704.	1.3	34
72	Zinc Oxide-Enhanced Piezoelectret Polypropylene Microfiber for Mechanical Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19940-19947.	4.0	34

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73	Recent Trends of Light-enhanced Metal Oxide Gas Sensors: Review. Journal of Sensor Science and Technology, 2016, 25, 103-109.	0.1	34
74	Printed fabric heater based on Ag nanowire/carbon nanotube composites. Nanotechnology, 2019, 30, 455707.	1.3	33
75	Ultra-Wide Range Pressure Sensor Based on a Microstructured Conductive Nanocomposite for Wearable Workout Monitoring. Advanced Healthcare Materials, 2021, 10, e2001461.	3.9	33
76	Facile synthesis of noble metal nanotubes by using ZnO nanowires as sacrificial scaffolds and their electrocatalytic properties. Chemical Communications, 2011, 47, 6299.	2.2	32
77	A bottom-gate silicon nanowire field-effect transistor with functionalized palladium nanoparticles for hydrogen gas sensors. Solid-State Electronics, 2015, 114, 76-79.	0.8	32
78	Biopsy Needle Integrated with Electrical Impedance Sensing Microelectrode Array towards Real-time Needle Guidance and Tissue Discrimination. Scientific Reports, 2018, 8, 264.	1.6	32
79	Quantitative studies of long-term stable, top-down fabricated silicon nanowire pH sensors. Applied Physics A: Materials Science and Processing, 2012, 107, 421-428.	1.1	31
80	3D Layer-By-Layer Pd-Containing Nanocomposite Platforms for Enhancing the Performance of Hydrogen Sensors. ACS Sensors, 2020, 5, 2367-2377.	4.0	30
81	Self-powered strain sensor based on the piezo-transmittance of a mechanical metamaterial. Nano Energy, 2021, 89, 106447.	8.2	30
82	Novel fabrication method of diverse one-dimensional Pt/ZnO hybrid nanostructures and its sensor application. Nanotechnology, 2011, 22, 035601.	1.3	28
83	Joule-Heated and Suspended Silicon Nanowire Based Sensor for Low-Power and Stable Hydrogen Detection. ACS Applied Materials & Interfaces, 2019, 11, 42349-42357.	4.0	28
84	Pt Nanostructures Fabricated by Local Hydrothermal Synthesis for Low-Power Catalytic-Combustion Hydrogen Sensors. ACS Applied Nano Materials, 2021, 4, 7-12.	2.4	28
85	Customizable, conformal, and stretchable 3D electronics via predistorted pattern generation and thermoforming. Science Advances, 2021, 7, eabj0694.	4.7	27
86	Microdome-Induced Strain Localization for Biaxial Strain Decoupling toward Stretchable and Wearable Human Motion Detection. Langmuir, 2020, 36, 8939-8946.	1.6	26
87	All-Recyclable Triboelectric Nanogenerator for Sustainable Ocean Monitoring Systems. Advanced Energy Materials, 2022, 12, .	10.2	26
88	Low-hysteresis and low-interference soft tactile sensor using a conductive coated porous elastomer and a structure for interference reduction. Sensors and Actuators A: Physical, 2019, 295, 541-550.	2.0	25
89	Nanotransfer Printing on Textile Substrate with Water-Soluble Polymer Nanotemplate. ACS Nano, 2020, 14, 2191-2201.	7.3	25
90	Large-Area Nanogap-Controlled 3D Nanoarchitectures Fabricated via Layer-by-Layer Nanoimprint. ACS Nano, 2021, 15, 503-514.	7.3	25

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91	Heterogeneous Conductance-Based Locally Shape-Morphable Soft Electrothermal Actuator. <i>Advanced Materials Technologies</i> , 2020, 5, 1900997.	3.0	24
92	Self-Powered Gas Sensor Based on a Photovoltaic Cell and a Colorimetric Film with Hierarchical Micro/Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39024-39032.	4.0	24
93	A Review of Recent Advances in Electrically Driven Polymer-Based Flexible Actuators: Smart Materials, Structures, and Their Applications. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	24
94	Low-temperature large-area fabrication of ZnO nanowires on flexible plastic substrates by solution-processible metal-seeded hydrothermal growth. <i>Nano Convergence</i> , 2020, 7, 24.	6.3	23
95	Sensitivity-Controllable Liquid-Metal-Based Pressure Sensor for Wearable Applications. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4027-4036.	2.0	23
96	Fabrication of heterogeneous nanomaterial array by programmable heating and chemical supply within microfluidic platform towards multiplexed gas sensing application. <i>Scientific Reports</i> , 2015, 5, 8149.	1.6	22
97	Templated assembly of metal nanoparticles in nanoimprinted patterns for metal nanowire fabrication. <i>Nanotechnology</i> , 2009, 20, 355302.	1.3	21
98	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10937-10945.	4.0	21
99	Collectively Exhaustive Hybrid Triboelectric Nanogenerator Based on Flow-Induced Impacting-Sliding Cylinder for Ocean Energy Harvesting. <i>Advanced Energy Materials</i> , 2022, 12, 2103076.	10.2	21
100	Enhanced sensing of gas molecules by a 99.9% semiconducting carbon nanotube-based field-effect transistor sensor. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	20
101	Low-power thermocatalytic hydrogen sensor based on electrodeposited cauliflower-like nanostructured Pt black. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129129.	4.0	20
102	Direct micro/nano metal patterning based on two-step transfer printing of ionic metal nano-ink. <i>Nanotechnology</i> , 2012, 23, 285301.	1.3	19
103	Exogenous Gene Integration for Microalgal Cell Transformation Using a Nanowire-Incorporated Microdevice. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27554-27561.	4.0	19
104	In-situ integration and surface modification of functional nanomaterials by localized hydrothermal reaction for integrated and high performance chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 579-588.	4.0	19
105	Biopsy needle integrated with multi-modal physical/chemical sensor array. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111822.	5.3	19
106	Nanoporous Silicon Thin Film-Based Hydrogen Sensor Using Metal-Assisted Chemical Etching with Annealed Palladium Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43614-43623.	4.0	19
107	Stretchable Printed Circuit Board Based on Leak-Free Liquid Metal Interconnection and Local Strain Control. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1826-1837.	4.0	19
108	Computational analysis of metallic nanowire-elastomer nanocomposite based strain sensors. <i>AIP Advances</i> , 2015, 5, 117233.	0.6	16

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109	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. <i>Scientific Reports</i> , 2017, 7, 11220.	1.6	16
110	All-soft multi-axial force sensor based on liquid metal for electronic skin. <i>Micro and Nano Systems Letters</i> , 2021, 9, .	1.7	16
111	Shape-Controlled and Well-Arrayed Heterogeneous Nanostructures via Melting Point Modulation at the Nanoscale. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3358-3368.	4.0	15
112	Rapid, High-Throughput, and Direct Molecular Beacon Delivery to Human Cancer Cells Using a Nanowire-Incorporated and Pneumatic Pressure-Driven Microdevice. <i>Small</i> , 2015, 11, 6215-6224.	5.2	14
113	Nanotextured Polymer Substrate for Flexible and Mechanically Robust Metal Electrodes by Nanoimprint Lithography. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25171-25179.	4.0	14
114	Virus-Templated Self-Mineralization of Ligand-Free Colloidal Palladium Nanostructures for High Surface Activity and Stability. <i>Advanced Functional Materials</i> , 2017, 27, 1703262.	7.8	14
115	Towards high performance of supercapacitor: New approach to design 3 D architected electrodes with bacteria. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 232-238.	2.9	14
116	Spherical Micro/Nano Hierarchical Structures for Energy and Water Harvesting Devices. <i>Small Methods</i> , 2022, 6, e2200248.	4.6	13
117	Solution-Processable Ag-Mediated ZnO Nanowires for Scalable Low-Temperature Fabrication of Flexible Devices. <i>ACS Applied Electronic Materials</i> , 2022, 4, 910-916.	2.0	12
118	Investigation of optimal hydrogen sensing performance in semiconducting carbon nanotube network transistors with palladium electrodes. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	11
119	Carbon nanotubes-ecoflex nanocomposite for strain sensing with ultra-high stretchability. , 2015, , .		11
120	Piezoresistivity of AG NWS-PDMS nanocomposite. , 2014, , .		10
121	Biocompatible Nanotransfer Printing Based on Water Bridge Formation in Hyaluronic Acid and Its Application to Smart Contact Lenses. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35069-35078.	4.0	10
122	Direct metal micropatterning on needle-type structures towards bioimpedance and chemical sensing applications. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 015002.	1.5	9
123	Heterogeneous Nanostructures Fabricated via Binding Energy-Controlled Nanowelding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7261-7271.	4.0	9
124	Interior-architected ZnO nanostructure for enhanced electrical conductivity via stepwise fabrication process. <i>Nanoscale Research Letters</i> , 2014, 9, 428.	3.1	8
125	Thermo-compressive transfer printing for facile alignment and robust device integration of nanowires. <i>Nanoscale</i> , 2012, 4, 3444.	2.8	6
126	Flexible and sensitive foot pad for sole distributed force detection. , 2014, , .		6

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127	Highly integrated synthesis of heterogeneous nanostructures on nanowire heater array. <i>Nanoscale</i> , 2014, 6, 14428-14432.	2.8	6
128	Quantitative probing of tip-induced local cooling with a resistive nanoheater/thermometer. <i>Applied Physics Letters</i> , 2016, 109, 253114.	1.5	6
129	Skin-interfaced Wearable Biosensors: A Mini-Review. <i>Journal of Sensor Science and Technology</i> , 2022, 31, 71-78.	0.1	6
130	Sensitive and stable strain sensors based on the wavy structured electrodes. , 2014, , .		5
131	Highly aligned suspended nanowire array for self-heating type gas sensors. , 2017, , .		5
132	Feedback control of local hotspot temperature using resistive on-substrate nanoheater/thermometer. <i>Review of Scientific Instruments</i> , 2018, 89, 064902.	0.6	5
133	Robust nanotransfer printing by imidization-induced interlocking. <i>Applied Surface Science</i> , 2021, 552, 149500.	3.1	5
134	Real-time Internal Steam Pop Detection during Radiofrequency Ablation with a Radiofrequency Ablation Needle Integrated with a Temperature and Pressure Sensor: Preclinical and Clinical Pilot Tests. <i>Advanced Science</i> , 2021, 8, e2100725.	5.6	5
135	Room-Temperature Compressive Transfer Printing of Nanowires for Nanoelectronic Devices. <i>Langmuir</i> , 2012, 28, 17851-17858.	1.6	4
136	Wafer-scale, highly uniform, and well-arrayed suspended nanostructures for enhancing the performance of electronic devices. <i>Nanoscale</i> , 2022, 14, 1136-1143.	2.8	4
137	A multi-pair electrode based impedance sensing biopsy needle for tissue discrimination during biopsy process. , 2014, 2014, 1695-8.		3
138	Finger motion detection glove toward human-machine interface. , 2015, , .		3
139	Development of multi-spot impedance sensing biopsy needle based on attachable and flexible sensor film. , 2016, 2016, 4788-4791.		3
140	Ultra-low power hydrogen sensor by suspended and palladium coated silicon nanowire. , 2017, , .		3
141	Self-powered gas sensor using thin-film photovoltaic cell and microstructured colorimetric film. , 2017, , .		3
142	Flexible Ultraviolet and Ambient Light Sensor Based on a Nanomaterial Network Fabricated Using Selective and Localized Wet Chemical Reactions. <i>Langmuir</i> , 2018, 34, 4132-4141.	1.6	3
143	First Lateral Contact Probing of $55\text{-}\mu\text{m}$ Fine Pitch Micro-Bumps. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 1114-1123.	1.7	3
144	Strain-Insensitive Soft Pressure Sensor for Health Monitoring Application Using 3D-Printed Microchannel Mold and Liquid Metal. , 2019, , .		3

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145	Low Power Thermo-Catalytic Gas Sensor Based on Suspended Noble-Metal Nanotubes for H ₂ Sensing. , 2019, , .		3
146	Tunable Resonator: Self-Powered Humidity Sensor Using Chitosan-Based Plasmonic Metal-Hydrogel-Metal Filters (Advanced Optical Materials 9/2020). Advanced Optical Materials, 2020, 8, 2070038.	3.6	3
147	A Self-Powered Wireless Gas Sensor Node Based on Photovoltaic Energy Harvesting. , 2021, , .		3
148	Low Temperature, All-Inorganic Nanoparticle Solution Process for ZnO Nanowire Network Transistor Fabrication on a Polymer Substrate. , 2009, , .		3
149	A nanowire-integrated microfluidic device for hydrodynamic trapping and anchoring of bacterial cells. , 2014, , .		2
150	Temperature measurement of Joule heated silicon micro/nanowires using selectively decorated quantum dots. Nanotechnology, 2016, 27, 505705.	1.3	2
151	Polyaniline-polystyrene nanofibers directly written on cheap flexible substrates by electrospinning, a low-cost and sensitive hydrogen sulfide gas sensor. , 2016, , .		2
152	Flexible multi-modal micro-biosensor towards accurate cancer tissue targeting during biopsy process. , 2017, , .		2
153	Electromechanical enhancement of metal nanoparticle thin film by composite formation with short metal nanowires. Functional Composites and Structures, 2019, 1, 035006.	1.6	2
154	Strain Sensor Based on Optical Intensity Change Through the Carbon Nanotube Embedded Elastomer. , 2019, , .		2
155	Wide Range-Sensitive, Bending-Insensitive Pressure Detection and Application to Wearable Healthcare Device. , 2019, , .		2
156	Buffered Oxide Etchant Post-Treatment of a Silicon Nanofilm for Low-Cost and Performance-Enhanced Chemical Sensors. ACS Applied Materials & Interfaces, 2020, 12, 37128-37136.	4.0	2
157	Electrochemical Actuators: Heterogeneous Conductance-Based Locally Shape-Morphable Soft Electrothermal Actuator (Adv. Mater. Technol. 2/2020). Advanced Materials Technologies, 2020, 5, 2070013.	3.0	2
158	Fast Flexible Bottom-Gated Hydrogen Sensor Based on Silicon Nanomembrane. Advanced Materials Technologies, 2021, 6, 2000847.	3.0	2
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