

# Inkyu Park

## List of Publications by Citations

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**Version:** 2024-04-27

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166  
papers

9,027  
citations

40  
h-index

93  
g-index

191  
ext. papers

11,001  
ext. citations

8.4  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
166	Stretchable, Skin-Mountable, and Wearable Strain Sensors and Their Potential Applications: A Review. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1678-1698	15.6	1692
165	Highly stretchable and sensitive strain sensor based on silver nanowire-elastomer nanocomposite. <i>ACS Nano</i> , <b>2014</b> , 8, 5154-63	16.7	1544
164	Ultra-stretchable and skin-mountable strain sensors using carbon nanotubes-Ecoflex nanocomposites. <i>Nanotechnology</i> , <b>2015</b> , 26, 375501	3.4	488
163	A stretchable strain sensor based on a metal nanoparticle thin film for human motion detection. <i>Nanoscale</i> , <b>2014</b> , 6, 11932-9	7.7	434
162	Polymeric Biomaterials for Medical Implants and Devices. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 454-472	5.5	358
161	Highly Sensitive, Flexible, and Wearable Pressure Sensor Based on a Giant Piezocapacitive Effect of Three-Dimensional Microporous Elastomeric Dielectric Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16922-31	9.5	287
160	Direct nanoimprinting of metal nanoparticles for nanoscale electronics fabrication. <i>Nano Letters</i> , <b>2007</b> , 7, 1869-77	11.5	262
159	Nanoscale Patterning and Electronics on Flexible Substrate by Direct Nanoimprinting of Metallic Nanoparticles. <i>Advanced Materials</i> , <b>2008</b> , 20, 489-496	24	156
158	3D printing of multiaxial force sensors using carbon nanotube (CNT)/thermoplastic polyurethane (TPU) filaments. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 263, 493-500	3.9	154
157	Top-down fabricated silicon nanowire sensors for real-time chemical detection. <i>Nanotechnology</i> , <b>2010</b> , 21, 015501	3.4	136
156	Wearable and Stretchable Strain Sensors: Materials, Sensing Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000039	6	120
155	A new route toward ultrasensitive, flexible chemical sensors: metal nanotubes by wet-chemical synthesis along sacrificial nanowire templates. <i>ACS Nano</i> , <b>2012</b> , 6, 598-608	16.7	117
154	Selective surface functionalization of silicon nanowires via nanoscale joule heating. <i>Nano Letters</i> , <b>2007</b> , 7, 3106-11	11.5	105
153	Transparent, Flexible Strain Sensor Based on a Solution-Processed Carbon Nanotube Network. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26279-26285	9.5	97
152	Three-Dimensional Continuous Conductive Nanostructure for Highly Sensitive and Stretchable Strain Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17369-17378	9.5	93
151	ZnO nanowire network transistor fabrication on a polymer substrate by low-temperature, all-inorganic nanoparticle solution process. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 154102	3.4	88
150	Towards the silicon nanowire-based sensor for intracellular biochemical detection. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2065-70	11.8	88

149	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 &amp; Interfaces</i> , <b>2019</b> , 11, 23639-23648	9.5	78
148	Ag@Ni core-shell nanowire network for robust transparent electrodes against oxidation and sulfurization. <i>Small</i> , <b>2014</b> , 10, 4171-81	11	70
147	Sub-10 nm nanoimprint lithography by wafer bowing. <i>Nano Letters</i> , <b>2008</b> , 8, 3865-9	11.5	70
146	Multimetallic alloy nanotubes with nanoporous framework. <i>ACS Nano</i> , <b>2012</b> , 6, 5659-67	16.7	66
145	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. <i>ACS Nano</i> , <b>2015</b> , 9, 6059-68	16.7	64
144	Nanowire-integrated microfluidic devices for facile and reagent-free mechanical cell lysis. <i>Lab on a Chip</i> , <b>2012</b> , 12, 2914-21	7.2	60
143	Strong localized surface plasmon resonance effects of Ag/TiO <sub>2</sub> core-shell nanowire arrays in UV and visible light for photocatalytic activity. <i>Nanoscale</i> , <b>2014</b> , 6, 226-34	7.7	59
142	Soft Nanocomposite Based Multi-point, Multi-directional Strain Mapping Sensor Using Anisotropic Electrical Impedance Tomography. <i>Scientific Reports</i> , <b>2017</b> , 7, 39837	4.9	58
141	Excellent detection of H <sub>2</sub> S gas at ppb concentrations using ZnFe <sub>2</sub> O <sub>4</sub> nanofibers loaded with reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 282, 876-884	8.5	57
140	Micropatterning of metal oxide nanofibers by electrohydrodynamic (EHD) printing towards highly integrated and multiplexed gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 250, 574-583	8.5	54
139	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> , <b>2019</b> , 8, e1900978	10.1	54
138	Synergetic Effect of Porous Elastomer and Percolation of Carbon Nanotube Filler toward High Performance Capacitive Pressure Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 1698-1706	9.5	54
137	Localized Liquid-Phase Synthesis of Porous SnO Nanotubes on MEMS Platform for Low-Power, High Performance Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27111-27119	9.5	53
136	Self-Powered Humidity Sensor Using Chitosan-Based Plasmonic Metal@Hydrogel@Metal Filters. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901932	8.1	52
135	Localized temperature and chemical reaction control in nanoscale space by nanowire array. <i>Nano Letters</i> , <b>2011</b> , 11, 4818-25	11.5	52
134	Palladium nanoparticle decorated silicon nanowire field-effect transistor with side-gates for hydrogen gas detection. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 013508	3.4	51
133	Thermal oxidation of tantalum films at various oxidation states from 300 to 700°C. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 114908	2.5	49
132	Focused energy field method for the localized synthesis and direct integration of 1D nanomaterials on microelectronic devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 1207-15	24	47

131	Monolithic Micro Light-Emitting Diode/Metal Oxide Nanowire Gas Sensor with Microwatt-Level Power Consumption. <i>ACS Sensors</i> , <b>2020</b> , 5, 563-570	9.2	46
130	Tensile characteristics of metal nanoparticle films on flexible polymer substrates for printed electronics applications. <i>Nanotechnology</i> , <b>2013</b> , 24, 085701	3.4	45
129	Direct synthesis and integration of functional nanostructures in microfluidic devices. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1946-51	7.2	45
128	Multiplexed gas sensor based on heterogeneous metal oxide nanomaterial array enabled by localized liquid-phase reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10152-61	9.5	42
127	A self-heated silicon nanowire array: selective surface modification with catalytic nanoparticles by nanoscale Joule heating and its gas sensing applications. <i>Nanoscale</i> , <b>2013</b> , 5, 6851-6	7.7	42
126	Self-heated silicon nanowires for high performance hydrogen gas detection. <i>Nanotechnology</i> , <b>2015</b> , 26, 095501	3.4	40
125	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> , <b>2011</b> , 109, 073511	2.5	40
124	Extremely Robust and Patternable Electrodes for Copy-Paper-Based Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19031-7	9.5	39
123	Gas Sensor by Direct Growth and Functionalization of Metal Oxide/Metal Sulfide Core-Shell Nanowires on Flexible Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24298-24307	9.5	37
122	Ultrafast self-assembly of microscale particles by open-channel flow. <i>Langmuir</i> , <b>2010</b> , 26, 4661-7	4	36
121	Wearable Strain Sensors Using Light Transmittance Change of Carbon Nanotube-Embedded Elastomers with Microcracks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10908-10917	9.5	36
120	Biocompatible and Highly Stretchable PVA/AgNWs Hydrogel Strain Sensors for Human Motion Detection. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000426	6.8	36
119	Palladium-Decorated Silicon Nanomesh Fabricated by Nanosphere Lithography for High Performance, Room Temperature Hydrogen Sensing. <i>Small</i> , <b>2018</b> , 14, 1703691	11	35
118	Low temperature, low pressure nanoimprinting of chitosan as a biomaterial for bionanotechnology applications. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 093902	3.4	35
117	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> , <b>2020</b> , 117, 27906-27915	11.5	35
116	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , <b>2020</b> , 6, eabb1093	14.3	35
115	Ultrathin, Biocompatible, and Flexible Pressure Sensor with a Wide Pressure Range and Its Biomedical Application. <i>ACS Sensors</i> , <b>2020</b> , 5, 481-489	9.2	34
114	A room temperature hydrogen sulfide gas sensor based on electrospun polyaniline/polyethylene oxide nanofibers directly written on flexible substrates. <i>RSC Advances</i> , <b>2016</b> , 6, 104131-104138	3.7	34

113	Biomimetic Turbinate-like Artificial Nose for Hydrogen Detection Based on 3D Porous Laser-Induced Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24386-24394	9.5	32
112	Recent Trends of Light-enhanced Metal Oxide Gas Sensors: Review. <i>Journal of Sensor Science and Technology</i> , <b>2016</b> , 25, 103-109	0.3	31
111	Fully integrated and portable semiconductor-type multi-gas sensing module for IoT applications. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 265, 660-667	8.5	30
110	Interfacial toughening of solution processed Ag nanoparticle thin films by organic residuals. <i>Nanotechnology</i> , <b>2012</b> , 23, 485704	3.4	30
109	Quantum dot-based immunoassay enhanced by high-density vertical ZnO nanowire array. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 55, 209-15	11.8	29
108	Quantitative studies of long-term stable, top-down fabricated silicon nanowire pH sensors. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 421-428	2.6	29
107	Facile synthesis of noble metal nanotubes by using ZnO nanowires as sacrificial scaffolds and their electrocatalytic properties. <i>Chemical Communications</i> , <b>2011</b> , 47, 6299-301	5.8	29
106	Half-Pipe Palladium Nanotube-Based Hydrogen Sensor Using a Suspended Nanofiber Scaffold. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13343-13349	9.5	26
105	A bottom-gate silicon nanowire field-effect transistor with functionalized palladium nanoparticles for hydrogen gas sensors. <i>Solid-State Electronics</i> , <b>2015</b> , 114, 76-79	1.7	26
104	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> , <b>2018</b> , 6, 16548-16555	13	26
103	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> , <b>2017</b> , 9, 1398-1402	7.7	25
102	Novel fabrication method of diverse one-dimensional Pt/ZnO hybrid nanostructures and its sensor application. <i>Nanotechnology</i> , <b>2011</b> , 22, 035601	3.4	25
101	High-Sensitivity and Low-Power Flexible Schottky Hydrogen Sensor Based on Silicon Nanomembrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12870-12877	9.5	22
100	Machine learning-enabled textile-based graphene gas sensing with energy harvesting-assisted IoT application. <i>Nano Energy</i> , <b>2021</b> , 86, 106035	17.1	22
99	Printed fabric heater based on Ag nanowire/carbon nanotube composites. <i>Nanotechnology</i> , <b>2019</b> , 30, 455707	3.4	21
98	Zinc Oxide-Enhanced Piezoelectret Polypropylene Microfiber for Mechanical Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 19940-19947	9.5	21
97	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> , <b>2021</b> , 12, 5008	17.4	21
96	Fabrication of heterogeneous nanomaterial array by programmable heating and chemical supply within microfluidic platform towards multiplexed gas sensing application. <i>Scientific Reports</i> , <b>2015</b> , 5, 8149	4.9	20

95	Wearable self-powered pressure sensor by integration of piezo-transmittance microporous elastomer with organic solar cell. <i>Nano Energy</i> , <b>2020</b> , 74, 104749	17.1	20
94	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> , <b>2020</b> , 5, 1363-1373	9.2	19
93	Templated assembly of metal nanoparticles in nanoimprinted patterns for metal nanowire fabrication. <i>Nanotechnology</i> , <b>2009</b> , 20, 355302	3.4	19
92	Microporous Elastomer Filter Coated with Metal Organic Frameworks for Improved Selectivity and Stability of Metal Oxide Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13338-13347	9.5	18
91	Direct micro/nano metal patterning based on two-step transfer printing of ionic metal nano-ink. <i>Nanotechnology</i> , <b>2012</b> , 23, 285301	3.4	18
90	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10937-45	9.5	18
89	Low-hysteresis and low-interference soft tactile sensor using a conductive coated porous elastomer and a structure for interference reduction. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 295, 541-550	3.9	15
88	3D Layer-By-Layer Pd-Containing Nanocomposite Platforms for Enhancing the Performance of Hydrogen Sensors. <i>ACS Sensors</i> , <b>2020</b> , 5, 2367-2377	9.2	15
87	Biopsy Needle Integrated with Electrical Impedance Sensing Microelectrode Array towards Real-time Needle Guidance and Tissue Discrimination. <i>Scientific Reports</i> , <b>2018</b> , 8, 264	4.9	15
86	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> , <b>2016</b> , 226, 579-588	8.5	15
85	Morphology-controllable wrinkled hierarchical structure and its application to superhydrophobic triboelectric nanogenerator. <i>Nano Energy</i> , <b>2021</b> , 85, 105978	17.1	15
84	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. <i>Scientific Reports</i> , <b>2017</b> , 7, 11220	4.9	14
83	Computational analysis of metallic nanowire-elastomer nanocomposite based strain sensors. <i>AIP Advances</i> , <b>2015</b> , 5, 117233	1.5	14
82	Rapid, High-Throughput, and Direct Molecular Beacon Delivery to Human Cancer Cells Using a Nanowire-Incorporated and Pneumatic Pressure-Driven Microdevice. <i>Small</i> , <b>2015</b> , 11, 6215-24	11	14
81	Exogenous Gene Integration for Microalgal Cell Transformation Using a Nanowire-Incorporated Microdevice. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27554-61	9.5	14
80	Virus-Templated Self-Mineralization of Ligand-Free Colloidal Palladium Nanostructures for High Surface Activity and Stability. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703262	15.6	12
79	Nanotextured Polymer Substrate for Flexible and Mechanically Robust Metal Electrodes by Nanoimprint Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25171-9	9.5	12
78	Joule-Heated and Suspended Silicon Nanowire Based Sensor for Low-Power and Stable Hydrogen Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42349-42357	9.5	12

77	Enhanced sensing of gas molecules by a 99.9% semiconducting carbon nanotube-based field-effect transistor sensor. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 022102	3.4	12
76	Microdome-Induced Strain Localization for Biaxial Strain Decoupling toward Stretchable and Wearable Human Motion Detection. <i>Langmuir</i> , <b>2020</b> , 36, 8939-8946	4	12
75	Nanotransfer Printing on Textile Substrate with Water-Soluble Polymer Nanotemplate. <i>ACS Nano</i> , <b>2020</b> , 14, 2191-2201	16.7	11
74	Heterogeneous Conductance-Based Locally Shape-Morphable Soft Electrothermal Actuator. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900997	6.8	11
73	Ultra-Wide Range Pressure Sensor Based on a Microstructured Conductive Nanocomposite for Wearable Workout Monitoring. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001461	10.1	10
72	Heterogeneous Nanostructures Fabricated via Binding Energy-Controlled Nanowelding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7261-7271	9.5	9
71	Towards high performance of supercapacitor: New approach to design 3 D architected electrodes with bacteria. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 78, 232-238	6.3	9
70	Self-Powered Gas Sensor Based on a Photovoltaic Cell and a Colorimetric Film with Hierarchical Micro/Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39024-39032	9.5	9
69	Investigation of optimal hydrogen sensing performance in semiconducting carbon nanotube network transistors with palladium electrodes. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 193108	3.4	9
68	Low-temperature large-area fabrication of ZnO nanowires on flexible plastic substrates by solution-processible metal-seeded hydrothermal growth. <i>Nano Convergence</i> , <b>2020</b> , 7, 24	9.2	9
67	Chemo-Mechanically Operating Palladium-Polymer Nanograting Film for a Self-Powered H Gas Sensor. <i>ACS Nano</i> , <b>2020</b> ,	16.7	9
66	Direct metal micropatterning on needle-type structures towards bioimpedance and chemical sensing applications. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 015002	2	8
65	Interior-architected ZnO nanostructure for enhanced electrical conductivity via stepwise fabrication process. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 428	5	8
64	Customizable, conformal, and stretchable 3D electronics via predistorted pattern generation and thermoforming. <i>Science Advances</i> , <b>2021</b> , 7, eabj0694	14.3	8
63	Biopsy needle integrated with multi-modal physical/chemical sensor array. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 148, 111822	11.8	8
62	Piezoresistivity of AG NWS-PDMS nanocomposite <b>2014</b> ,		7
61	Nanoporous Silicon Thin Film-Based Hydrogen Sensor Using Metal-Assisted Chemical Etching with Annealed Palladium Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 43614-43623	9.5	7
60	Large-Area Nanogap-Controlled 3D Nanoarchitectures Fabricated Layer-by-Layer Nanoimprint. <i>ACS Nano</i> , <b>2021</b> , 15, 503-514	16.7	7

59	Self-powered strain sensor based on the piezo-transmittance of a mechanical metamaterial. <i>Nano Energy</i> , <b>2021</b> , 89, 106447	17.1	7
58	Artificial Olfactory Neuron for an In-Sensor Neuromorphic Nose.. <i>Advanced Science</i> , <b>2022</b> , e2106017	13.6	7
57	Highly integrated synthesis of heterogeneous nanostructures on nanowire heater array. <i>Nanoscale</i> , <b>2014</b> , 6, 14428-32	7.7	6
56	Carbon nanotubes-ecoflex nanocomposite for strain sensing with ultra-high stretchability <b>2015</b> ,		6
55	Thermo-compressive transfer printing for facile alignment and robust device integration of nanowires. <i>Nanoscale</i> , <b>2012</b> , 4, 3444-9	7.7	6
54	Collectively Exhaustive Hybrid Triboelectric Nanogenerator Based on Flow-Induced Impacting-Sliding Cylinder for Ocean Energy Harvesting. <i>Advanced Energy Materials</i> ,2103076	21.8	6
53	Shape-Controlled and Well-Arrayed Heterogeneous Nanostructures via Melting Point Modulation at the Nanoscale. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3358-3368	9.5	6
52	Low-power thermocatalytic hydrogen sensor based on electrodeposited cauliflower-like nanostructured Pt black. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 329, 129129	8.5	6
51	Sensitivity-Controllable Liquid-Metal-Based Pressure Sensor for Wearable Applications. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 4027-4036	4	6
50	Irregular Microdome Structure-Based Sensitive Pressure Sensor Using Internal Popping of Microspheres. <i>Advanced Functional Materials</i> ,2201147	15.6	6
49	Pt Nanostructures Fabricated by Local Hydrothermal Synthesis for Low-Power Catalytic-Combustion Hydrogen Sensors. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 7-12	5.6	5
48	Quantitative probing of tip-induced local cooling with a resistive nanoheater/thermometer. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 253114	3.4	5
47	Stretchable Printed Circuit Board Based on Leak-Free Liquid Metal Interconnection and Local Strain Control.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	5
46	Sensitive and stable strain sensors based on the wavy structured electrodes <b>2014</b> ,		4
45	Flexible and sensitive foot pad for sole distributed force detection <b>2014</b> ,		4
44	Room-temperature compressive transfer printing of nanowires for nanoelectronic devices. <i>Langmuir</i> , <b>2012</b> , 28, 17851-8	4	4
43	Flexible Ultraviolet and Ambient Light Sensor Based on a Nanomaterial Network Fabricated Using Selective and Localized Wet Chemical Reactions. <i>Langmuir</i> , <b>2018</b> , 34, 4132-4141	4	3
42	High Accuracy Real-Time Multi-Gas Identification by a Batch-Uniform Gas Sensor Array and Deep Learning Algorithm.. <i>ACS Sensors</i> , <b>2022</b> ,	9.2	3



41	First Lateral Contact Probing of 55- $\mu\text{m}$ Fine Pitch Micro-Bumps. <i>Journal of Microelectromechanical Systems</i> , <b>2018</b> , 27, 1114-1123	2.5	3
40	Feedback control of local hotspot temperature using resistive on-substrate nanoheater/thermometer. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 064902	1.7	3
39	All-soft multiaxial force sensor based on liquid metal for electronic skin. <i>Micro and Nano Systems Letters</i> , <b>2021</b> , 9,	2	3
38	Solution-Processable Ag-Mediated ZnO Nanowires for Scalable Low-Temperature Fabrication of Flexible Devices. <i>ACS Applied Electronic Materials</i> , <b>2022</b> , 4, 910-916	4	3
37	Highly aligned suspended nanowire array for self-heating type gas sensors <b>2017</b> ,		2
36	Flexible multi-modal micro-biosensor towards accurate cancer tissue targeting during biopsy process <b>2017</b> ,		2
35	Strain-Insensitive Soft Pressure Sensor for Health Monitoring Application Using 3D-Printed Microchannel Mold and Liquid Metal <b>2019</b> ,		2
34	Development of multi-spot impedance sensing biopsy needle based on attachable and flexible sensor film. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 4788-4791	0.9	2
33	Polyaniline-polystyrene nanofibers directly written on cheap flexible substrates by electrospinning, a low-cost and sensitive hydrogen sulfide gas sensor <b>2016</b> ,		2
32	Electromechanical enhancement of metal nanoparticle thin film by composite formation with short metal nanowires. <i>Functional Composites and Structures</i> , <b>2019</b> , 1, 035006	3.5	2
31	Self-powered gas sensor using thin-film photovoltaic cell and microstructured colorimetric film <b>2017</b> ,		2
30	Robust nanotransfer printing by imidization-induced interlocking. <i>Applied Surface Science</i> , <b>2021</b> , 552, 149500	6.7	2
29	Temperature measurement of Joule heated silicon micro/nanowires using selectively decorated quantum dots. <i>Nanotechnology</i> , <b>2016</b> , 27, 505705	3.4	2
28	Low Power Thermo-Catalytic Gas Sensor Based on Suspended Noble-Metal Nanotubes for H <sub>2</sub> Sensing <b>2019</b> ,		2
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