Kenneth David Kihm

List of Publications by Citations

154 papers	5,479 citations	38 h-index	70 g-index
170 ext. papers	6,908 ext. citations	8.8 avg, IF	5.96 L-index

#	Paper	IF	Citations
154	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. *Advanced Materials*, **2015**, 27, 4744-51	24	541
153	Highly Sensitive and Stretchable Multidimensional Strain Sensor with Prestrained Anisotropic Metal Nanowire Percolation Networks. *Nano Letters*, **2015**, 15, 5240-7	11.5	417
152	Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite. *Advanced Functional Materials*, **2014**, 24, 5671-5678	15.6	239
151	Highly Stretchable and Transparent Supercapacitor by Ag-Au Core-Shell Nanowire Network with High Electrochemical Stability. *ACS Applied Materials & Interfaces*, **2016**, 8, 15449-58	9.5	173
150	High-efficiency electrochemical thermal energy harvester using carbon nanotube aerogel sheet electrodes. *Nature Communications*, **2016**, 7, 10600	17.4	172
149	Ag/Au/Polypyrrole Core-shell Nanowire Network for Transparent, Stretchable and Flexible Supercapacitor in Wearable Energy Devices. *Scientific Reports*, **2017**, 7, 41981	4.9	162
148	Stretchable and Transparent Kirigami Conductor of Nanowire Percolation Network for Electronic Skin Applications. *Nano Letters*, **2019**, 19, 6087-6096	11.5	136
147	Biomimetic Color Changing Anisotropic Soft Actuators with Integrated Metal Nanowire Percolation Network Transparent Heaters for Soft Robotics. *Advanced Functional Materials*, **2018**, 28, 1801847	15.6	135
146	Solution-Processible Crystalline NiO Nanoparticles for High-Performance Planar Perovskite Photovoltaic Cells. *Scientific Reports*, **2016**, 6, 30759	4.9	129
145	Optically sliced micro-PIV using confocal laser scanning microscopy (CLSM). *Experiments in Fluids*, **2004**, 37, 105-119	2.5	122
144	Low-Temperature Oxidation-Free Selective Laser Sintering of Cu Nanoparticle Paste on a Polymer Substrate for the Flexible Touch Panel Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 11575-82	9.5	122
143	High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. *Nano Letters*, **2017**, 17, 4339-4346	11.5	121
142	Near-wall hindered Brownian diffusion of nanoparticles examined by three-dimensional ratiometric total internal reflection fluorescence microscopy (3-D R-TIRFM). *Experiments in Fluids*, **2004**, 37, 811-824	2.5	114
141	Simple hydrothermal synthesis of very-long and thin silver nanowires and their application in high quality transparent electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 11365-11371	13	105
140	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. *Advanced Materials*, **2020**, 32, e1905527	24	103
139	Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction. *Advanced Materials*, **2015**, 27, 6397-403	24	93
138	Recent progress in silver nanowire based flexible/wearable optoelectronics. *Journal of Materials Chemistry C*, **2018**, 6, 7445-7461	7.1	88

137	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. *Nanoscale*, **2017**, 9, 1978-1985	7.7	85
136	Effect of nanoparticle sizes and number densities on the evaporation and dryout characteristics for strongly pinned nanofluid droplets. *Langmuir*, **2007**, 23, 2953-60	4	85
135	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. *Advanced Functional Materials*, **2017**, 27, 1701138	15.6	76
134	Experimental verification of near-wall hindered diffusion for the Brownian motion of nanoparticles using evanescent wave microscopy. *Physical Review E*, **2005**, 72, 042101	2.4	75
133	How to reliably determine the complex refractive index (RI) of graphene by using two independent measurement constraints. *Scientific Reports*, **2014**, 4, 6364	4.9	69
132	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. *ACS Nano*, **2015**, 9, 6059-68	16.7	64
131	A deep-learned skin sensor decoding the epicentral human motions. *Nature Communications*, **2020**, 11, 2149	17.4	60
130	Three-dimensional micro-PTV using deconvolution microscopy. *Experiments in Fluids*, **2006**, 40, 491-499	2.5	60
129	Full-field subwavelength imaging using a scattering superlens. *Physical Review Letters*, **2014**, 113, 113901	7.4	58
128	In-Plane Thermal Conductivity of Polycrystalline Chemical Vapor Deposition Graphene with Controlled Grain Sizes. *Nano Letters*, **2017**, 17, 2361-2366	11.5	57
127	All-solid-state flexible supercapacitors by fast laser annealing of printed metal nanoparticle layers. *Journal of Materials Chemistry A*, **2015**, 3, 8339-8345	13	57
126	Random nanocrack, assisted metal nanowire-bundled network fabrication for a highly flexible and transparent conductor. *RSC Advances*, **2016**, 6, 57434-57440	3.7	50
125	Effects of the liquid polarity and the wall slip on the heat and mass transport characteristics of the micro-scale evaporating transition film. *International Journal of Heat and Mass Transfer*, **2005**, 48, 265-278	4.9	48
124	Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. *Advanced Functional Materials*, **2019**, 29, 1806895	15.6	48
123	Nanowire reinforced nanoparticle nanocomposite for highly flexible transparent electrodes: borrowing ideas from macrocomposites in steel-wire reinforced concrete. *Journal of Materials Chemistry C*, **2017**, 5, 791-798	7.1	44
122	Sulfur and Nitrogen Co-Doped Graphene Quantum Dots as a Fluorescent Quenching Probe for Highly Sensitive Detection toward Mercury Ions. *ACS Applied Nano Materials*, **2019**, 2, 790-798	5.6	44
121	Femtosecond Laser Fabrication of Cavity Microball Lens (CMBL) inside a PMMA Substrate for Super-Wide Angle Imaging. *Small*, **2015**, 11, 3007-16	11	42
120	Stretchable/flexible silver nanowire Electrodes for energy device applications. *Nanoscale*, **2019**, 11, 20356-20378	7.7	40

119	Flexible and Transparent Cu Electronics by Low-Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. *Advanced Materials Technologies*, **2017**, 2, 1600222	6.8	39
118	Maskless Fabrication of Highly Robust, Flexible Transparent Cu Conductor by Random Crack Network Assisted Cu Nanoparticle Patterning and Laser Sintering. *Advanced Electronic Materials*, **2016**, 2, 1600277	6.4	39
117	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. *Advanced Materials*, **2021**, 33, e2002397	24	39
116	Transparent wearable three-dimensional touch by self-generated multiscale structure. *Nature Communications*, **2019**, 10, 2582	17.4	36
115	An efficient reduced graphene-oxide filter for PM2.5 removal. *Journal of Materials Chemistry A*, **2018**, 6, 16975-16982	13	36
114	Graphene as a material for energy generation and control: Recent progress in the control of graphene thermal conductivity by graphene defect engineering. *Materials Today Energy*, **2019**, 12, 431-442	7	35
113	An endothelial cell compatible biosensor fabricated using optically thin indium tin oxide silicon nitride electrodes. *Biosensors and Bioelectronics*, **2007**, 22, 2585-90	11.8	35
112	A Review on Hierarchical Origami and Kirigami Structure for Engineering Applications. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2019**, 6, 147-161	3.8	31
111	Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. *Advanced Functional Materials*, **2020**, 30, 1909171	15.6	31
110	Opto-Electric Cellular Biosensor Using Optically Transparent Indium Tin Oxide (ITO) Electrodes. *Sensors*, **2008**, 8, 3257-3270	3.8	31
109	Highly stretchable and oxidation-resistive Cu nanowire heater for replication of the feeling of heat in a virtual world. *Journal of Materials Chemistry A*, **2020**, 8, 8281-8291	13	30
108	Nanoscale Heaters: Single Nanowire Resistive Nano-heater for Highly Localized Thermo-Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). *Small*, **2014**, 10, 5014-5014	11	30
107	Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. *ACS Nano*, **2017**, 11, 12311-12317	16.7	29
106	A Transparent and Flexible Capacitive-Force Touch Pad from High-Aspect-Ratio Copper Nanowires with Enhanced Oxidation Resistance for Applications in Wearable Electronics. *Small Methods*, **2018**, 2, 1800077	12.8	29
105	Monolithic digital patterning of polydimethylsiloxane with successive laser pyrolysis. *Nature Materials*, **2021**, 20, 100-107	27	28
104	Fluidic applications for atomic force microscopy (AFM) with microcantilever sensors. *Experiments in Fluids*, **2010**, 48, 721-736	2.5	24
103	Kinetic enhancement via passive deposition of carbon-based nanomaterials in vanadium redox flow batteries. *Journal of Power Sources*, **2017**, 366, 241-248	8.9	23
102	A Liquid Metal Based Multimodal Sensor and Haptic Feedback Device for Thermal and Tactile Sensation Generation in Virtual Reality. *Advanced Functional Materials*, **2020**, 31, 2007772	15.6	23

101	Surface elasticity and charge concentration-dependent endothelial cell attachment to copolymer polyelectrolyte hydrogel. *Acta Biomaterialia*, **2009**, 5, 144-51	10.8	23
100	Two orders of magnitude suppression of graphene's thermal conductivity by heavy dopants (Si). *Carbon*, **2018**, 138, 98-107	10.4	22
99	Metal Nanowire-Coated Metal Woven Mesh for High-Performance Stretchable Transparent Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 40905-40913	9.5	22
98	How to optically count graphene layers. *Optics Letters*, **2012**, 37, 3765-7	3	22
97	Microscale Heat and Mass Transport of Evaporating Thin Film of Binary Mixture. *Journal of Thermophysics and Heat Transfer*, **2006**, 20, 320-326	1.3	22
96	Thermally Controlled, Active Imperceptible Artificial Skin in Visible-to-Infrared Range. *Advanced Functional Materials*, **2020**, 30, 2003328	15.6	22
95	Highly Customizable Transparent Silver Nanowire Patterning via Inkjet-Printed Conductive Polymer Templates Formed on Various Surfaces. *Advanced Materials Technologies*, **2020**, 5, 2000042	6.8	21
94	Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. *Nature Communications*, **2021**, 12, 4658	17.4	21
93	Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. *Advanced Materials Technologies*, **2020**, 5, 1900939	6.8	20
92	Binary Fluid Mixture and Thermocapillary Effects on the Wetting Characteristics of a Heated Curved Meniscus. *Journal of Heat Transfer*, **2003**, 125, 867-874	1.8	20
91	Directional Shape Morphing Transparent Walking Soft Robot. *Soft Robotics*, **2019**, 6, 760-767	9.2	19
90	Label-free visualization of microfluidic mixture concentration fields using a surface plasmon resonance (spr) reflectance imaging. *Experiments in Fluids*, **2006**, 41, 905-916	2.5	19
89	Thermally stable Ag@ZrO 2 core-shell via atomic layer deposition. *Materials Letters*, **2017**, 188, 372-374	3.3	18
88	Review of the Multi-scale Nano-structure Approach to the Development of High Efficiency Solar Cells. *Smart Science*, **2014**, 2, 54-62	1.5	18
87	Measuring near-field nanoparticle concentration profiles by correlating surface plasmon resonance reflectance with effective refractive index of nanofluids. *Optics Letters*, **2010**, 35, 393-5	3	18
86	Use of confocal laser scanning microscopy (CLSM) for depthwise resolved microscale-particle image velocimetry (PIV). *Optics and Lasers in Engineering*, **2006**, 44, 208-223	4.6	18
85	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. *Advanced Materials Technologies*, **2019**, 4, 1800422	6.8	17
84	Ultrasonication assisted production of silver nanowires with low aspect ratio and their optical properties. *Ultrasonics Sonochemistry*, **2015**, 22, 35-40	8.9	17

83	Electrochemical sensing of mercury ions in electrolyte solutions by nitrogen-doped graphene quantum dot electrodes at ultralow concentrations. *Journal of Molecular Liquids*, **2020**, 302, 112593	6	17
82	Recent advances in liquid-metal-based wearable electronics and materials. *IScience*, **2021**, 24, 102698	6.1	17
81	Unveiling hidden complex cavities formed during nanocrystalline self-assembly. *Langmuir*, **2009**, 25, 1881-4	4	16
80	Enhanced Thermoelectric Conversion Efficiency of CVD Graphene with Reduced Grain Sizes. *Nanomaterials*, **2018**, 8,	5.4	16
79	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. *Science Advances*, **2019**, 5, eaav4916	14.3	15
78	Full-field and real-time surface plasmon resonance imaging thermometry. *Optics Letters*, **2007**, 32, 3456-8	3	15
77	Effect of graphene-substrate conformity on the in-plane thermal conductivity of supported graphene. *Carbon*, **2017**, 125, 39-48	10.4	14
76	A new heat propagation velocity prevails over Brownian particle velocities in determining the thermal conductivities of nanofluids. *Nanoscale Research Letters*, **2011**, 6, 361	5	14
75	Optoelectric biosensor using indium-tin-oxide electrodes. *Optics Letters*, **2007**, 32, 1405-7	3	14
74	Heat flow diversion in supported graphene nanomesh. *Carbon*, **2017**, 123, 45-53	10.4	13
73	Surface plasmon resonance reflectance imaging technique for near-field (~100 nm) fluidic characterization. *Experiments in Fluids*, **2010**, 48, 547-564	2.5	13
72	Selective Thermochemical Growth of Hierarchical ZnO Nanowire Branches on Silver Nanowire Backbone Percolation Network Heaters. *Journal of Physical Chemistry C*, **2017**, 121, 22542-22549	3.8	12
71	Real-time and full-field detection of near-wall salinity using surface plasmon resonance reflectance. *Analytical Chemistry*, **2007**, 79, 5418-23	7.8	12
70	Metal-Oxide Nanomaterials Synthesis and Applications in Flexible and Wearable Sensors. *ACS Nanoscience Au*,		12
69	Smart Stretchable Electronics for Advanced Human Machine Interface. *Advanced Intelligent Systems*, **2021**, 3, 2000157	6	12
68	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. *Nanomaterials*, **2018**, 8,	5.4	12
67	Selective electro thermal growth of zinc oxide nanowire on photolithographically patterned electrode for microsensor applications. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2016**, 3, 173-177	3.8	11
66	Near-Field Thermometry Sensor Based on the Thermal Resonance of a Microcantilever in Aqueous Medium. *Sensors*, **2007**, 7, 3156-3165	3.8	11

65	Thermo-Haptic Materials and Devices for Wearable Virtual and Augmented Reality. *Advanced Functional Materials*, **2020**, 31, 2007376	15.6	11
64	Control and Manipulation of Nano Cracks Mimicking Optical Wave. *Scientific Reports*, **2015**, 5, 17292	4.9	10
63	Non-enzymatic electrochemical detection of hydrogen peroxide on highly amidized graphene quantum dot electrodes. *Applied Surface Science*, **2020**, 528, 146936	6.7	9
62	ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. *Nanomaterials*, **2018**, 8,	5.4	9
61	Biohybrid Actuators for Soft Robotics: Challenges in Scaling Up. *Actuators*, **2020**, 9, 96	2.4	9
60	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu@Au Core–Shell Nanowire. *Advanced Materials Technologies*, **2020**, 5, 2000661	6.8	9
59	Metallic Nanowire Coupled CsPbBr3 Quantum Dots Plasmonic Nanolaser. *Advanced Functional Materials*, **2021**, 31, 2102375	15.6	9
58	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. *Energy Technology*, **2016**, 4, 271-277	3.5	9
57	Nano Sensing and Energy Conversion Using Surface Plasmon Resonance (SPR). *Materials*, **2015**, 8, 4332-4343	3.4	8
56	Challenges and Strategies in Developing an Enzymatic Wearable Sweat Glucose Biosensor as a Practical Point-Of-Care Monitoring Tool for Type II Diabetes.. *Nanomaterials*, **2022**, 12,	5.4	8
55	Transparent Air Filters with Active Thermal Sterilization. *Nano Letters*, **2021**,	11.5	8
54	Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. *ACS Nano*, **2021**, 15, 15730-15740	16.7	8
53	Functional Materials and Devices for XR (VR/AR/MR) Applications. *Advanced Functional Materials*, **2021**, 31, 2106546	15.6	8
52	Boosted thermal conductance of polycrystalline graphene by spin-coated silver nanowires. *International Journal of Heat and Mass Transfer*, **2019**, 134, 547-553	4.9	7
51	Interfacial Thermal Contact Conductance inside the Graphene–Bi2Te3 Heterostructure. *Advanced Materials Interfaces*, **2019**, 6, 1900275	4.6	7
50	Evolvable Skin Electronics by In Situ and In Operando Adaptation. *Advanced Functional Materials*,2106329	15.6	7
49	Highly Controlled Nanoporous Ag Electrode by Vaporization Control of 2-Ethoxyethanol for a Flexible Supercapacitor Application. *Langmuir*, **2017**, 33, 1854-1860	4	6
48	Energy Harvesting Untethered Soft Electronic Devices. *Advanced Healthcare Materials*, **2021**, 10, e2002286	10.1	6

47	Electrocatalytic Oxidation of Glucose on Boron and Nitrogen Codoped Graphene Quantum Dot Electrodes in Alkali Media. *Catalysts*, **2021**, 11, 101	4	6
46	Significant thermal conductivity reduction of CVD graphene with relatively low hole densities fabricated by focused ion beam processing. *Applied Physics Letters*, **2019**, 114, 051905	3.4	5
45	Modeling Alkaline Liquid Metal (Na) Evaporating Thin Films Using Both Retarded Dispersion and Electronic Force Components. *Journal of Heat Transfer*, **2009**, 131,	1.8	5
44	Significant thermoelectric conversion efficiency enhancement of single layer graphene with substitutional silicon dopants. *Nano Energy*, **2021**, 87, 106188	17.1	5
43	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. *Advanced Functional Materials*,2110535	15.6	5
42	Thermal conductivity reduction of multilayer graphene with fine grain sizes. *JMST Advances*, **2019**, 1, 191-195	1.9	4
41	Wearable Temperature Sensors: Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration (Adv. Mater. 2/2020). *Advanced Materials*, **2020**, 32, 2070014	24	4
40	Soft multi-modal thermoelectric skin for dual functionality of underwater energy harvesting and thermoregulation. *Nano Energy*, **2022**, 95, 107002	17.1	4
39	Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 48917-48927	9.5	4
38	From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates. *Advanced Materials*, **2021**, 33, e2008434	24	4
37	Wetting of nanofluids with nanoparticles of opposite surface potentials on pristine CVD graphene. *Experiments in Fluids*, **2016**, 57, 1	2.5	4
36	High-temperature, thin, flexible and transparent Ni-based heaters patterned by laser-induced reductive sintering on colorless polyimide. *Journal of Materials Chemistry C*, **2021**, 9, 5652-5661	7.1	4
35	Operation Range-Optimized Silver Nanowire Through Junction Treatment. *Electronic Materials Letters*, **2020**, 16, 491-497	2.9	3
34	Flexible Electronics: Fast Plasmonic Laser Nanowelding for a Cu-Nanowire Percolation Network for Flexible Transparent Conductors and Stretchable Electronics (Adv. Mater. 33/2014). *Advanced Materials*, **2014**, 26, 5888-5888	24	3
33	Effect of disjoining pressure (Ion multi-scale modeling for evaporative liquid metal (Na) capillary. *International Journal of Heat and Mass Transfer*, **2014**, 78, 137-149	4.9	3
32	Measurements of the minimum elevation of nano-particles by 3D nanoscale tracking using ratiometric evanescent wave imaging. *Experiments in Fluids*, **2006**, 41, 173-183	2.5	3
31	Multi-Bandgap Monolithic Metal Nanowire Percolation Network Sensor Integration by Reversible Selective Laser-Induced Redox.. *Nano-Micro Letters*, **2022**, 14, 49	19.5	3
30	Effects of mass and interaction mismatches on in-plane and cross-plane thermal transport of Si-doped graphene. *International Journal of Heat and Mass Transfer*, **2021**, 169, 120979	4.9	3

29	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. *Materials*, **2018**, 11,	3.5	3
28	Recent Advances in 1D Nanomaterial-Based Bioelectronics for Healthcare Applications. *Advanced NanoBiomed Research*, **2022**, 2, 2100111	0	3
27	The Effect of Particle Morphology on Unipolar Diffusion Charging of Silver Nanowires. *Aerosol Science and Technology*, **2015**, 49, 290-298	3.4	2
26	Wearable Electronics: Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu@Au Core–Shell Nanowire (Adv. Mater. Technol. 12/2020). *Advanced Materials Technologies*, **2020**, 5, 2070073	6.8	2
25	Complex Refractive Index (RI) of Graphene **2019**, 389-412		2
24	Nanowires: Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction (Adv. Mater. 41/2015). *Advanced Materials*, **2015**, 27, 6396-6396	24	2
23	Nonintrusive measurements of mixture concentration fields by analyzing diffraction image patterns (point spread function) of nanoparticles. *Experiments in Fluids*, **2010**, 49, 183-191	2.5	2
22	Facile optical quantification of mercury ion concentration using graphene quantum dot coated filter paper disks. *Materials Chemistry and Physics*, **2021**, 260, 124168	4.4	2
21	Bioinspired Soft Robotic Fish for Wireless Underwater Control of Gliding Locomotion. *Advanced Intelligent Systems*,2100271	6	2
20	Silver Nanowire Patterning: Highly Customizable Transparent Silver Nanowire Patterning via Inkjet-Printed Conductive Polymer Templates Formed on Various Surfaces (Adv. Mater. Technol. 6/2020). *Advanced Materials Technologies*, **2020**, 5, 2070036	6.8	1
19	A Review on Investigation of Graphene Thermal Property: Recent Development in Measurement Techniques. *Multiscale Science and Engineering*, **2019**, 1, 267-279	1.2	1
18	Maskless digital manufacturing of organic thin film transistor by femtosecond laser direct patterning **2014**,		1
17	Flexible and highly sensitive multi-dimensional strain sensor with intersecting metal nanowire arrays **2017**,		1
16	Cavity Microball Lenses: Femtosecond Laser Fabrication of Cavity Microball Lens (CMBL) inside a PMMA Substrate for Super-Wide Angle Imaging (Small 25/2015). *Small*, **2015**, 11, 3006-3006	11	1
15	Nanocomposites: Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite (Adv. Funct. Mater. 36/2014). *Advanced Functional Materials*, **2014**, 24, 5618-5618	15.6	1
14	Evolvable Skin Electronics by In Situ and In Operando Adaptation (Adv. Funct. Mater. 4/2022). *Advanced Functional Materials*, **2022**, 32, 2270029	15.6	1
13	Artificial Thermal Sensation: Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality (Adv. Funct. Mater. 29/2020). *Advanced Functional Materials*, **2020**, 30, 2070196	15.6	1
12	Imperceptible Soft Robotics: Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics (Adv. Mater. 19/2021). *Advanced Materials*, **2021**, 33, 2170147	24	0

11	Heat Transfer Photogallery. *Journal of Heat Transfer*, **2006**, 128, 733-733	1.8
10	Heat Transfer Photogallery. *Journal of Heat Transfer*, **2004**, 126, 493-506	1.8
9	Heat Transfer Photogallery. *Journal of Heat Transfer*, **2005**, 127, 798-798	1.8
8	Facile fabrication of flexible metal grid transparent electrode using inkjet-printed dot array as sacrificial layer.. *Scientific Reports*, **2022**, 12, 1572	4.9
7	Expression of NUANCE, a potential novel oncogene, is inhibited by nonsteroidal anti-inflammatory drugs (NSAIDs) in human colorectal cancer cells. *FASEB Journal*, **2008**, 22, 1031.1	0.9
6	70-2: Low Temperature Process and Material Development for Flexible/Stretchable Transparent Conductor. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 1044-1047	0.5
5	Preface for the Soft and Green Manufacturing and Applications. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2021**, 8, 743-744	3.8
4	Crack Programming: From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates (Adv. Mater. 22/2021). *Advanced Materials*, **2021**, 33, 2170175	24
3	Digital Laser Micropainting: Digital Laser Micropainting for Reprogrammable Optoelectronic Applications (Adv. Funct. Mater. 1/2021). *Advanced Functional Materials*, **2021**, 31, 2170002	15.6
2	Recent Advances in 1D Nanomaterial-Based Bioelectronics for Healthcare Applications. *Advanced NanoBiomed Research*, **2022**, 2, 2270025	0
1	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures (Adv. Funct. Mater. 16/2022). *Advanced Functional Materials*, **2022**, 32, 2270094	15.6