Chuan-Fei Guo

List of Publications by Citations

135 papers	5,024 citations	36 h-index	67 g-index
146 ext. papers	6,488 ext. citations	9.3 avg, IF	6.13 L-index

#	Paper	IF	Citations
135	Metallic nanostructures for light trapping in energy-harvesting devices. *Light: Science and Applications*, **2014**, 3, e161-e161	16.7	327
134	Highly stretchable and transparent nanomesh electrodes made by grain boundary lithography. *Nature Communications*, **2014**, 5, 3121	17.4	310
133	Flexible Electronics: Stretchable Electrodes and Their Future. *Advanced Functional Materials*, **2019**, 29, 1805924	15.6	305
132	Uniform self-forming metallic network as a high-performance transparent conductive electrode. *Advanced Materials*, **2014**, 26, 873-7	24	244
131	Graded intrafillable architecture-based iontronic pressure sensor with ultra-broad-range high sensitivity. *Nature Communications*, **2020**, 11, 209	17.4	177
130	Flexible transparent conductors based on metal nanowire networks. *Materials Today*, **2015**, 18, 143-154	21.8	174
129	A Highly Sensitive Flexible Capacitive Tactile Sensor with Sparse and High-Aspect-Ratio Microstructures. *Advanced Electronic Materials*, **2018**, 4, 1700586	6.4	154
128	Capillary-Force-Induced Cold Welding in Silver-Nanowire-Based Flexible Transparent Electrodes. *Nano Letters*, **2017**, 17, 1090-1096	11.5	145
127	Recent progresses on flexible tactile sensors. *Materials Today Physics*, **2017**, 1, 61-73	8	137
126	Electrical bioadhesive interface for bioelectronics. *Nature Materials*, **2021**, 20, 229-236	27	136
125	Ionic Skin with Biomimetic Dielectric Layer Templated from Calathea Zebrine Leaf. *Advanced Functional Materials*, **2018**, 28, 1802343	15.6	129
124	A novel BiOCl film with flowerlike hierarchical structures and its optical properties. *Nanotechnology* , **2009**, 20, 275702	3.4	117
123	Natural Plant Materials as Dielectric Layer for Highly Sensitive Flexible Electronic Skin. *Small*, **2018**, 14, e1801657	11	99
122	Thermal, Waterproof, Breathable, and Antibacterial Cloth with a Nanoporous Structure. *ACS Applied Materials & Interfaces*, **2018**, 10, 2026-2032	9.5	90
121	Laser Direct Writing of Tree-Shaped Hierarchical Cones on a Superhydrophobic Film for High-Efficiency Water Collection. *ACS Applied Materials & Interfaces*, **2017**, 9, 29248-29254	9.5	84
120	Topotactic transformations of superstructures: from thin films to two-dimensional networks to nested two-dimensional networks. *Journal of the American Chemical Society*, **2011**, 133, 8211-5	16.4	76
119	Fatigue-free, superstretchable, transparent, and biocompatible metal electrodes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 12332-7	11.5	71

118	Controllable two-stage droplet evaporation method and its nanoparticle self-assembly mechanism. *Langmuir*, **2013**, 29, 6232-41	4	68
117	Self-assembly of gold nanorods into symmetric superlattices directed by OH-terminated hexa(ethylene glycol) alkanethiol. *Langmuir*, **2011**, 27, 11394-400	4	66
116	Highly active and durable self-standing WS2/graphene hybrid catalysts for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 9472-9476	13	66
115	High-Fidelity Conformal Printing of 3D Liquid Alloy Circuits for Soft Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 7148-7156	9.5	65
114	Highly Transparent and Flexible Iontronic Pressure Sensors Based on an Opaque to Transparent Transition. *Advanced Science*, **2020**, 7, 2000348	13.6	61
113	The shape evolution of gold seeds and gold@silver core-shell nanostructures. *Nanotechnology*, **2009**, 20, 305602	3.4	60
112	BiOCl nanowire with hierarchical structure and its Raman features. *Applied Surface Science*, **2012**, 258, 1949-1954	6.7	59
111	Hybrid MnO2@NiCo2O4 nanosheets for high performance asymmetric supercapacitors. *Inorganic Chemistry Frontiers*, **2018**, 5, 1378-1385	6.8	58
110	A general strategy to superstructured networks and nested self-similar networks of bismuth compounds. *ACS Nano*, **2012**, 6, 8746-52	16.7	54
109	Path-guided wrinkling of nanoscale metal films. *Advanced Materials*, **2012**, 24, 3010-4, 3076	24	51
108	Hard-magnetic elastica. *Journal of the Mechanics and Physics of Solids*, **2020**, 142, 104045	5	50
107	First Decade of Interfacial Iontronic Sensing: From Droplet Sensors to Artificial Skins. *Advanced Materials*, **2021**, 33, e2003464	24	50
106	Studies on mechanical properties of thermoelectric materials by nanoindentation. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2191-2195	1.6	49
105	PEDOT:PSS/Grafted-PDMS Electrodes for Fully Organic and Intrinsically Stretchable Skin-like Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 10373-10379	9.5	49
104	Enhancing the Scratch Resistance by Introducing Chemical Bonding in Highly Stretchable and Transparent Electrodes. *Nano Letters*, **2016**, 16, 594-600	11.5	48
103	Bi2S3 nanonetwork as precursor for improved thermoelectric performance. *Nano Energy*, **2014**, 4, 113-122	17.1	48
102	Grayscale photomask fabricated by laser direct writing in metallic nano-films. *Optics Express*, **2009**, 17, 19981-7	3.3	43
101	Highly Sensitive Flexible Iontronic Pressure Sensor for Fingertip Pulse Monitoring. *Advanced Healthcare Materials*, **2020**, 9, e2001023	10.1	39

100	Thermoelectric property enhancement in Yb-doped n-type skutterudites YbxCo4Sb12. *Acta Materialia*, **2014**, 75, 316-321	8.4	37
99	Synergistic enhancement of thermoelectric and mechanical performances of ionic liquid LiTFSI modulated PEDOT flexible films. *Journal of Materials Chemistry C*, **2019**, 7, 4374-4381	7.1	34
98	Symmetry control of nanorod superlattice driven by a governing force. *Nature Communications*, **2017**, 8, 1410	17.4	34
97	Buckled Tin Oxide Nanobelt Webs as Highly Stretchable and Transparent Photosensors. *Small*, **2015**, 11, 5712-8	11	34
96	A Highly Sensitive, Reliable, and High-Temperature-Resistant Flexible Pressure Sensor Based on Ceramic Nanofibers. *Advanced Science*, **2020**, 7, 2000258	13.6	33
95	Deformation-induced cold-welding for self-healing of super-durable flexible transparent electrodes. *Nano Energy*, **2014**, 8, 110-117	17.1	32
94	Zinc oxide nanostructures: epitaxially growing from hexagonal zinc nanostructures. *Nanotechnology*, **2008**, 19, 445710	3.4	32
93	Ionic liquid□ctivated wearable electronics. *Materials Today Physics*, **2019**, 8, 78-85	8	30
92	Well-oriented epitaxial gold nanotriangles and bowties on MoS2 for surface-enhanced Raman scattering. *Nanoscale*, **2015**, 7, 9153-7	7.7	29
91	A Highly Stretchable and Fatigue-Free Transparent Electrode Based on an In-Plane Buckled Au Nanotrough Network. *Advanced Electronic Materials*, **2017**, 3, 1600534	6.4	28
90	Iontronic pressure sensor with high sensitivity and linear response over a wide pressure range based on soft micropillared electrodes. *Science Bulletin*, **2021**, 66, 1091-1100	10.6	27
89	Giant Poisson□s Effect for Wrinkle-Free Stretchable Transparent Electrodes. *Advanced Materials*, **2019**, 31, e1902955	24	25
88	MTMO grayscale photomask. *Optics Express*, **2010**, 18, 2621-31	3.3	25
87	Fast visible light photoelectric switch based on ultralong single crystalline V□□hanobelt. *Optics Express*, **2012**, 20, 6974-9	3.3	24
86	A broadband solar absorber with 12 nm thick ultrathin a-Si layer by using random metallic nanomeshes. *Applied Physics Letters*, **2014**, 104, 251119	3.4	23
85	Bivariate-continuous-tunable interface memristor based on Bi2S3 nested nano-networks. *Nano Research*, **2014**, 7, 953-962	10	22
84	Effect of triple fillers in thermoelectric performance of p-type skutterudites. *Journal of Alloys and Compounds*, **2015**, 623, 104-108	5.7	21
83	Operable persistent photoconductivity of Bi2S3 nested nano-networks. *Physical Chemistry Chemical Physics*, **2015**, 17, 851-7	3.6	21

82	A strategy to prepare wafer scale bismuth compound superstructures. *Small*, **2013**, 9, 2394-8	11	21
81	Evolutionary design of magnetic soft continuum robots. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	21
80	Path-directed and maskless fabrication of ordered TiO2 nanoribbons. *Nanoscale*, **2012**, 4, 1545-8	7.7	20
79	Conductive black silicon surface made by silver nanonetwork assisted etching. *Small*, **2013**, 9, 2415-9	11	20
78	Template-catalyst-free growth of single crystalline Bismuth nanorods by RF magnetron sputtering method. *Solid State Communications*, **2009**, 149, 87-90	1.6	20
77	Laser direct writing of nanoreliefs in Sn nanofilms. *Optics Letters*, **2009**, 34, 2820-2	3	20
76	Seamless modulus gradient structures for highly resilient, stretchable system integration. *Materials Today Physics*, **2018**, 4, 28-35	8	19
75	Thermoelectric performance of Ni compensated cerium and neodymium double filled p-type skutterudites. *Physical Chemistry Chemical Physics*, **2014**, 16, 18170-5	3.6	19
74	Leaf-Inspired Flexible Thermoelectric Generators with High Temperature Difference Utilization Ratio and Output Power in Ambient Air. *Advanced Science*, **2021**, 8, 2004947	13.6	19
73	Skin-electrode iontronic interface for mechanosensing. *Nature Communications*, **2021**, 12, 4731	17.4	19
72	Highly Conducting and Stretchable Double Network Hydrogel for Soft Bioelectronics.. *Advanced Materials*, **2022**, e2200261	24	19
71	Highly stable flexible pressure sensors with a quasi-homogeneous composition and interlinked interfaces.. *Nature Communications*, **2022**, 13, 1317	17.4	19
70	Micro-optical elements fabricated by metal-transparent-metallic-oxides grayscale photomasks. *Applied Optics*, **2012**, 51, 6606-11	1.7	18
69	Shape-Programmable Interfacial Solar Evaporator with Salt-Precipitation Monitoring Function. *ACS Nano*, **2021**, 15, 5752-5761	16.7	18
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67	Trigger-Detachable Hydrogel Adhesives for Bioelectronic Interfaces. *Advanced Functional Materials*, **2021**, 31, 2106446	15.6	18
66	One-Step Selective Adhesive Transfer Printing for Scalable Fabrication of Stretchable Electronics. *Advanced Materials Technologies*, **2018**, 3, 1700264	6.8	17
65	A new method for fabricating ultrathin metal films as scratch-resistant flexible transparent electrodes. *Journal of Materiomics*, **2015**, 1, 52-59	6.7	16

64	Nanostructured YbAgCu4 for potentially cryogenic thermoelectric cooling. *Nano Letters*, **2014**, 14, 5016-20	11.5	16
63	TiO2 micro-devices fabricated by laser direct writing. *Optics Express*, **2011**, 19, 17390-5	3.3	16
62	Plasmonic Lens with Multiple-Turn Spiral Nano-Structures. *Plasmonics*, **2011**, 6, 235-239	2.4	16
61	Tuning the Rigidity of Silk Fibroin for the Transfer of Highly Stretchable Electronics. *Advanced Functional Materials*, **2020**, 30, 2001518	15.6	16
60	Enhanced broad-band extraordinary optical transmission through subwavelength perforated metallic films on strongly polarizable substrates. *Applied Physics Letters*, **2013**, 102, 101114	3.4	14
59	Stretchable, transparent and imperceptible supercapacitors based on Au@MnO nanomesh electrodes. *Chemical Communications*, **2019**, 55, 13737-13740	5.8	14
58	Kaleidoscopic imaging patterns of complex structures fabricated by laser-induced deformation. *Nature Communications*, **2016**, 7, 13743	17.4	13
57	Graded Interlocks for Iontronic Pressure Sensors with High Sensitivity and High Linearity over a Broad Range.. *ACS Nano*, **2022**,	16.7	13
56	High-Performance Liquid Alloy Patterning of Epidermal Strain Sensors for Local Fine Skin Movement Monitoring. *Soft Robotics*, **2019**, 6, 414-421	9.2	12
55	Far-Field Focusing of Spiral Plasmonic Lens. *Plasmonics*, **2012**, 7, 377-381	2.4	12
54	Epidermal electrodes with enhanced breathability and high sensing performance. *Materials Today Physics*, **2020**, 12, 100191	8	11
53	A Flexible Strain Sensor of Ba(Ti, Nb)O3/Mica with a Broad Working Temperature Range. *Advanced Materials Technologies*, **2019**, 4, 1900578	6.8	11
52	A high quality BiOCl film with petal-like hierarchical structures and its visible-light photocatalytic property. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 919-23	1.3	11
51	High-index facets bound ripple-like ZnO nanobelts grown by chemical vapor deposition. *CrystEngComm*, **2011**, 13, 5052	3.3	11
50	Bismuth nanowire growth under low deposition rate and its ohmic contact free of interface damage. *AIP Advances*, **2012**, 2, 012112	1.5	11
49	High-Porosity Foam-Based Iontronic Pressure Sensor with Superhigh Sensitivity of 9280 kPa. *Nano-Micro Letters*, **2021**, 14, 21	19.5	11
48	An off-the-shelf bioadhesive patch for sutureless repair of gastrointestinal defects.. *Science Translational Medicine*, **2022**, 14, eabh2857	17.5	10
47	High-Throughput Screening of Self-Healable Polysulfobetaine Hydrogels and their Applications in Flexible Electronics. *Advanced Functional Materials*, **2021**, 31, 2100489	15.6	10

46	Gold micromeshes as highly active electrocatalysts for methanol oxidation reaction. *RSC Advances*, **2017**, 7, 22479-22484	3.7	9
45	Ionic Flexible Sensors: Mechanisms, Materials, Structures, and Applications. *Advanced Functional Materials*,2110417	15.6	9
44	Photoconductive probing of the trap distribution in switchable interfaces. *Nanoscale*, **2016**, 8, 915-20	7.7	8
43	Realization of near-perfect absorption in the whole reststrahlen band of SiC. *Nanoscale*, **2018**, 10, 9450-9454	7.7	8
42	Stiffness Preprogrammable Soft Bending Pneumatic Actuators for High-Efficient, Conformal Operation. *Soft Robotics*, **2021**,	9.2	8
41	On-Demand Multi-Resolution Liquid Alloy Printing Based on Viscoelastic Flow Squeezing. *Polymers*, **2018**, 10,	4.5	7
40	Substitution of Antimony by Tin and Tellurium in n-Type Skutterudites CoSb2.8Sn x Te0.2□. *Jom*, **2014**, 66, 2282-2287	2.1	7
39	Study on readout durability of super-RENS disk. *Optics Express*, **2008**, 16, 213-8	3.3	7
38	Integration of Soft Electronics and Biotissues. *Innovation(China)*, **2021**, 2, 100074	17.8	7
37	A stretchable and adhesive ionic conductor based on polyacrylic acid and deep eutectic solvents. *Npj Flexible Electronics*, **2021**, 5,	10.7	7
36	Multimicrochannel Microneedle Microporation Platform for Enhanced Intracellular Drug Delivery. *Advanced Functional Materials*,2109187	15.6	7
35	Silver nanowires for anti-counterfeiting. *Journal of Materiomics*, **2020**, 6, 152-157	6.7	6
34	Controllable fabrication of super-resolution nanocrater arrays by laser direct writing. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 7134-7	1.3	6
33	Dynamically Conformal Mask Printing of Liquid Alloy Circuits on Morphing Objects. *Advanced Materials Technologies*, **2021**, 6, 2001274	6.8	6
32	Sandwiched Polyethylene Shrink Film Masking with Tunable Resolution and Shape for Liquid Alloy Patterning. *ACS Applied Polymer Materials*, **2019**, 1, 145-151	4.3	6
31	Superstructure transformations from hexagonal to tetragonal microplates and nested two-dimensional nanonetworks. *Science Bulletin*, **2014**, 59, 1787-1793		5
30	Study on optical and electric properties of ultrafine-grained indium films. *Applied Surface Science*, **2014**, 296, 209-213	6.7	5
29	Ultrathin ZnO nanostructures synthesized by thermal oxidation of hexagonal Zn micro/nanostructures. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 7167-70	1.3	5

28	Facile Fabrication of Self-Similar Hierarchical Micro-Nano Structures for Multifunctional Surfaces via Solvent-Assisted UV-Lasering. *Micromachines*, **2020**, 11,	3.3	5
27	Atomic origin of the traps in memristive interface. *Nano Research*, **2017**, 10, 1924-1931	10	4
26	One-step fabrication of micro/nanotunnels in metal interlayers. *Nanoscale*, **2013**, 5, 8351-4	7.7	4
25	Sugar transfer of nanomaterials and flexible electrodes. *International Journal of Smart and Nano Materials*, **2020**, 11, 1-10	3.6	3
24	Transparent Conductive Electrodes: Uniform Self-Forming Metallic Network as a High-Performance Transparent Conductive Electrode (Adv. Mater. 6/2014). *Advanced Materials*, **2014**, 26, 980-980	24	3
23	Sensing mechanisms and applications of flexible pressure sensors. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 178102	0.6	3
22	Artificial Skin: Ionic Skin with Biomimetic Dielectric Layer Templated from Calathea Zebrine Leaf (Adv. Funct. Mater. 37/2018). *Advanced Functional Materials*, **2018**, 28, 1870264	15.6	3
21	Raman scattering in In/InO x core□shell structured nanoparticles. *Chinese Physics B*, **2014**, 23, 087803	1.2	2
20	Metal Oxide Heterostructures for Water Purification. *Journal of Nanomaterials*, **2014**, 2014, 1-2	3.2	2
19	Modified chemical vapor deposition synthesis of ultralong V2O5 nanobelt and its electronic properties. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 914-8	1.3	2
18	Self-Assembly of Semiconductor Metal Oxide Nanostructures. *Journal of Nanomaterials*, **2013**, 2013, 1-2	3.2	2
17	ZnO nanowire arrays with and without cavity tops. *Materials Chemistry and Physics*, **2011**, 129, 905-909	4.4	2
16	Magnetic soft continuum robots with contact forces. *Extreme Mechanics Letters*, **2022**, 51, 101604	3.9	2
15	Anisotropic Shear-Sensitive Tactile Sensors with Programmable Elastomers for Robotic Manipulations. *ACS Applied Materials & Interfaces*, **2021**, 13, 51426-51435	9.5	2
14	Tunnel Encapsulation Technology for Durability Improvement in Stretchable Electronics Fabrication. *Micromachines*, **2018**, 9,	3.3	2
13	Adhesion-Shielding based synthesis of interfacially active magnetic Janus nanoparticles. *Journal of Colloid and Interface Science*, **2022**, 607, 1741-1753	9.3	2
12	Nanostructures for Flexible Electronics and Drug Delivery. *Journal of Nanomaterials*, **2017**, 2017, 1-2	3.2	1
11	A Metamaterial-Plasmonic Scheme Based on a Random Metallic Network for Controlling Thermal Emission. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800206	1.6	1

10	Semiconductor Nanomaterials for Energy Conversion and Storage. *Journal of Nanomaterials*, **2015**, 2015, 1-2	3.2	1
9	Ordered Metal Film Pattern with Submicron Period. *Japanese Journal of Applied Physics*, **2009**, 48, 090208	1.4	1
8	Transparency conversion mechanism and laser induced fast response of bimetallic Bi/In thin film **2008**,		1
7	Current and Future Trends for Polymer Micro/nano Processing in Industrial Applications.. *Advanced Materials*, **2022**, e2200903	24	1
6	Electronic Skins: Natural Plant Materials as Dielectric Layer for Highly Sensitive Flexible Electronic Skin (Small 35/2018). *Small*, **2018**, 14, 1870161	11	0
5	Multimicrochannel Microneedle Microporation Platform for Enhanced Intracellular Drug Delivery (Adv. Funct. Mater. 21/2022). *Advanced Functional Materials*, **2022**, 32, 2270122	15.6	0
4	Beam focusing by tapered metallic nano-slits. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 1026-9	1.3	
3	Liquid Alloy Circuits: Dynamically Conformal Mask Printing of Liquid Alloy Circuits on Morphing Objects (Adv. Mater. Technol. 6/2021). *Advanced Materials Technologies*, **2021**, 6, 2170034	6.8	
2	Fabrication of patterned solid surfaces with highly controllable wettability.. *RSC Advances*, **2021**, 11, 31877-31883	3.7	
1	Interfacial Iontronic Sensing: First Decade of Interfacial Iontronic Sensing: From Droplet Sensors to Artificial Skins (Adv. Mater. 7/2021). *Advanced Materials*, **2021**, 33, 2170050	24	