

Lei Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

3,327
citations

33
h-index

51
g-index

151
ext. papers

4,328
ext. citations

9.6
avg, IF

5.53
L-index

#	Paper	IF	Citations
130	Two-dimensional layered architecture constructing energy and phonon blocks for enhancing thermoelectric performance of InSb. <i>Science China Materials</i> , 2022 , 65, 1353	7.1	0
129	Selenium Vacancies and Synergistic Effect of Near- and Far-Field-Enabled Ultrasensitive Surface-Enhanced Raman-Scattering-Active Substrates for Malaria Detection.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1453-1463	6.4	2
128	Wafer-Scale Growth of Vertical-Structured SnSe ₂ Nanosheets for Highly Sensitive, Fast-Response UV-Vis-NIR Broadband Photodetectors. <i>Advanced Optical Materials</i> , 2022 , 10, 2102250	8.1	3
127	Hierarchical Network Enabled Flexible Textile Pressure Sensor with Ultrabroad Response Range and High-Temperature Resistance.. <i>Advanced Science</i> , 2022 , e2105738	13.6	4
126	Recent progress of fiber-based transistors: materials, structures and applications. <i>Frontiers of Optoelectronics</i> , 2022 , 15, 1	2.8	1
125	Roadmap for flexible solid-state aqueous batteries: From materials engineering and architectures design to mechanical characterizations. <i>Materials Science and Engineering Reports</i> , 2022 , 148, 100671	30.9	9
124	Fiber Optofluidic Microlasers: Structures, Characteristics, and Applications. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100171	8.3	8
123	Freestanding Metal-Organic Frameworks and Their Derivatives: An Emerging Platform for Electrochemical Energy Storage and Conversion.. <i>Chemical Reviews</i> , 2022 ,	68.1	10
122	Micro/nanofiber fabrication technologies for wearable sensors: a review. <i>Journal of Micromechanics and Microengineering</i> , 2022 , 32, 064002	2	
121	Mechanics of controlled fragmentation by cold drawing. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 159, 104726	5	
120	Advanced Multifunctional Aqueous Rechargeable Batteries Design: From Materials and Devices to Systems. <i>Advanced Materials</i> , 2021 , e2104327	24	15
119	High-Capacity Iron-Based Anodes for Aqueous Secondary Nickel-Iron Batteries: Recent Progress and Prospects. <i>ChemElectroChem</i> , 2021 , 8, 273-273	4.3	
118	Self-powered multifunctional sensing based on super-elastic fibers by soluble-core thermal drawing. <i>Nature Communications</i> , 2021 , 12, 1416	17.4	21
117	Advanced Thermally Drawn Multimaterial Fibers: Structure-Enabled Functionalities 2021 , 2021, 1-15		4
116	Flexible Tactile Sensor Based on Patterned Ag-Nanofiber Electrodes through Electrospinning. <i>Sensors</i> , 2021 , 21,	3.8	5
115	Thermoelectric Properties of CuSe Nano-Thin Film by Magnetron Sputtering. <i>Materials</i> , 2021 , 14,	3.5	8
114	Recent Advancement of Anti-Resonant Hollow-Core Fibers for Sensing Applications. <i>Photonics</i> , 2021 , 8, 128	2.2	5

113	Compact Robust Vector Bending Sensor Based on Single Stress-Appling Fiber. <i>IEEE Sensors Journal</i> , 2021 , 21, 9165-9170	4	2
112	NaTi ₂ (PO ₄) ₃ hollow nanoparticles encapsulated in carbon nanofibers as novel anodes for flexible aqueous rechargeable sodium-ion batteries. <i>Nano Energy</i> , 2021 , 82, 105764	17.1	20
111	Ultrasensitive Broadband Refractometer Based on Single Stress-Appling Fiber at Dispersion Turning Point. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2528-2535	4	4
110	Inorganic Thermoelectric Fibers: A Review of Materials, Fabrication Methods, and Applications. <i>Sensors</i> , 2021 , 21,	3.8	4
109	Semiconductor core fibres: materials science in a bottle. <i>Nature Communications</i> , 2021 , 12, 3990	17.4	9
108	Advanced Multi-Material Optoelectronic Fibers: A Review. <i>Journal of Lightwave Technology</i> , 2021 , 39, 3836-3845	4	4
107	Recent Advances and Prospects of Fiber-Shaped Rechargeable Aqueous Alkaline Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100060	1.6	1
106	The Recent Progress of MEMS/NEMS Resonators. <i>Micromachines</i> , 2021 , 12,	3.3	4
105	High-Capacity Iron-Based Anodes for Aqueous Secondary Nickel-Iron Batteries: Recent Progress and Prospects. <i>ChemElectroChem</i> , 2021 , 8, 274-290	4.3	8
104	Ultrasensitive Exhaled Breath Sensors Based on Anti-Resonant Hollow Core Fiber with In Situ Grown ZnO-Bi ₂ O ₃ Nanosheets. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001978	4.6	25
103	Elastic and Stretchable Functional Fibers: A Review of Materials, Fabrication Methods, and Applications. <i>Advanced Fiber Materials</i> , 2021 , 3, 1-13	10.9	26
102	Hybrid Plasmonic Fiber-Optic Sensors. <i>Sensors</i> , 2020 , 20,	3.8	10
101	Rational Construction of Self-Standing Sulfur-Doped Fe ₂ O ₃ Anodes with Promoted Energy Storage Capability for Wearable Aqueous Rechargeable NiCo-Fe Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001064	21.8	24
100	Engineering MoS ₂ Nanosheets on Spindle-Like Fe ₂ O ₃ as High-Performance Core-Shell Pseudocapacitive Anodes for Fiber-Shaped Aqueous Lithium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2003967	15.6	30
99	All-Metal Phosphide Electrodes for High-Performance Quasi-Solid-State Fiber-Shaped Aqueous Rechargeable Ni-Fe Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12801-12808	9.5	16
98	In-Fiber Structured Particles and Filament Arrays from the Perspective of Fluid Instabilities. <i>Advanced Fiber Materials</i> , 2020 , 2, 1-12	10.9	12
97	High-performance zero-standby-power-consumption-under-bending pressure sensors for artificial reflex arc. <i>Nano Energy</i> , 2020 , 73, 104743	17.1	18
96	High-performance x-ray source based on graphene oxide-coated CuS nanowires grown on copper film. <i>Nanotechnology</i> , 2020 , 31, 485202	3.4	1

95	All-in-one stretchable coaxial-fiber strain sensor integrated with high-performing supercapacitor. <i>Energy Storage Materials</i> , 2020 , 25, 124-130	19.4	67
94	Nickel metal-organic framework nanosheets as novel binder-free cathode for advanced fibrous aqueous rechargeable Ni ²⁺ /Zn battery. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3262-3269	13	33
93	Controlled Fragmentation of Single-Atom-Thick Polycrystalline Graphene. <i>Matter</i> , 2020 , 2, 666-679	12.7	30
92	Thermally drawn advanced functional fibers: New frontier of flexible electronics. <i>Materials Today</i> , 2020 , 35, 168-194	21.8	74
91	Designer patterned functional fibers via direct imprinting in thermal drawing. <i>Nature Communications</i> , 2020 , 11, 3842	17.4	19
90	Single-Crystal SnSe Thermoelectric Fibers via Laser-Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. <i>Advanced Materials</i> , 2020 , 32, e2002702	24	25
89	Binder-free NaTi ₂ (PO ₄) ₃ anodes for high-performance coaxial-fiber aqueous rechargeable sodium-ion batteries. <i>Nano Energy</i> , 2020 , 67, 104212	17.1	41
88	Achieving ultrahigh-energy-density in flexible and lightweight all-solid-state internal asymmetric tandem 6.6 V all-in-one supercapacitors. <i>Energy Storage Materials</i> , 2020 , 25, 893-902	19.4	12
87	Highly Sensitive and Wide Linear-Response Pressure Sensors Featuring Zero Standby Power Consumption under Bending Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19563-19571	9.5	13
86	Phase-matching and Peak Nonlinearity Enhanced Third-Harmonic Generation in Graphene Plasmonic Coupler. <i>Physical Review Applied</i> , 2019 , 11,	4.3	11
85	One-step synthesis of cyclodextrin-capped gold nanoparticles for ultra-sensitive and highly-integrated plasmonic biosensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 286, 429-436	8.5	28
84	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. <i>Nano Letters</i> , 2019 , 19, 4035-4042	11.5	128
83	Flexible and High Performance Piezoresistive Pressure Sensors Based on Hierarchical Flower-Shaped SnSe ₂ Nanoplates. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2803-2809	6.1	15
82	Ultra-endurance coaxial-fiber stretchable sensing systems fully powered by sunlight. <i>Nano Energy</i> , 2019 , 60, 267-274	17.1	33
81	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. <i>Advanced Optical Materials</i> , 2019 , 7, 1900905	8.1	6
80	Tunable 3D light trapping architectures based on self-assembled SnSe ₂ nanoplate arrays for ultrasensitive SERS detection. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10179-10186	7.1	18
79	In-Fiber Production of Laser-Structured Stress-Mediated Semiconductor Particles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45330-45337	9.5	7
78	Optoelectronic Fibers 2019 , 1335-1350		

77	In-fibre particle manipulation and device assembly via laser induced thermocapillary convection. <i>Nature Communications</i> , 2019 , 10, 5206	17.4	15
76	A one-dimensional channel self-standing MOF cathode for ultrahigh-energy-density flexible NiZn batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27217-27224	13	33
75	All Binder-Free Electrodes for High-Performance Wearable Aqueous Rechargeable Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 101	19.5	28
74	Conversion Synthesis of Self-Standing Potassium Zinc Hexacyanoferrate Arrays as Cathodes for High-Voltage Flexible Aqueous Rechargeable Sodium-Ion Batteries. <i>Small</i> , 2019 , 15, e1905115	11	20
73	Advanced Multimaterial Electronic and Optoelectronic Fibers and Textiles. <i>Advanced Materials</i> , 2019 , 31, e1802348	24	129
72	Ultraflexible Glassy Semiconductor Fibers for Thermal Sensing and Positioning. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2441-2447	9.5	29
71	Touchpoint-Tailored Ultrasensitive Piezoresistive Pressure Sensors with a Broad Dynamic Response Range and Low Detection Limit. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2551-2558	9.5	60
70	Fully Solar-Powered Uninterrupted Overall Water-Splitting Systems. <i>Advanced Functional Materials</i> , 2019 , 29, 1808889	15.6	14
69	Hollow rice grain-shaped TiO ₂ nanostructures for high-efficiency and large-area perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 191, 389-398	6.4	10
68	Ultra-sensitive chemical and biological analysis via specialty fibers with built-in microstructured optofluidic channels. <i>Lab on A Chip</i> , 2018 , 18, 655-661	7.2	33
67	The improvement of thermoelectric property of bulk ZnO via ZnS addition: Influence of intrinsic defects. <i>Ceramics International</i> , 2018 , 44, 6461-6465	5.1	16
66	Spectral Characteristics and Ultrahigh Sensitivities Near the Dispersion Turning Point of Optical Microfiber Couplers. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2409-2415	4	40
65	Formation of ultra-flexible, conformal, and nano-patterned photonic surfaces via polymer cold-drawing. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4649-4657	7.1	13
64	Ultrasensitive measurement of gas refractive index using an optical nanofiber coupler. <i>Optics Letters</i> , 2018 , 43, 679-682	3	41
63	Birefringence induced Vernier effect in optical fiber modal interferometers for enhanced sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 275, 16-24	8.5	32
62	Highly sensitive gas refractometers based on optical microfiber modal interferometers operating at dispersion turning point. <i>Optics Express</i> , 2018 , 26, 29148-29158	3.3	42
61	Optoelectronic Fibers 2018 , 1-16		
60	Electron-Rich Two-Dimensional Molybdenum Trioxides for Highly Integrated Plasmonic Biosensing. <i>ACS Photonics</i> , 2018 , 5, 347-352	6.3	35

59	All-Metal-Organic Framework-Derived Battery Materials on Carbon Nanotube Fibers for Wearable Energy-Storage Device. <i>Advanced Science</i> , 2018 , 5, 1801462	13.6	64
58	Large-scale synthesis of single-crystalline self-standing SnSe nanoplate arrays for wearable gas sensors. <i>Nanotechnology</i> , 2018 , 29, 455501	3.4	26
57	Flexible quasi-solid-state 2.4 V aqueous asymmetric microsupercapacitors with ultrahigh energy density. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20145-20151	13	21
56	Highly Oriented Electrospun P(VDF-TrFE) Fibers via Mechanical Stretching for Wearable Motion Sensing. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800033	6.8	35
55	Ultralow thermal conductivity of silicon nanowire arrays by molecular dynamics simulation. <i>Materials Research Express</i> , 2017 , 4, 025029	1.7	
54	Flexible Piezoelectric Fibers for Acoustic Sensing and Positioning. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600449	6.4	35
53	Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi _{0.5} Sb _{1.5} Te ₃ Nanocomposites. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600554	6.4	57
52	Electrosprayed TiO nanoporous hemispheres for enhanced electron transport and device performance of formamidinium based perovskite solar cells. <i>Nanoscale</i> , 2017 , 9, 412-420	7.7	15
51	Extremely High-Efficiency Coupling Method for Hollow-Core Photonic Crystal Fiber. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-8	1.8	2
50	Performance Enhancement of Tri-Cation and Dual-Anion Mixed Perovskite Solar Cells by Au@SiO ₂ Nanoparticles. <i>Advanced Functional Materials</i> , 2017 , 27, 1606545	15.6	43
49	Hybrid Graphene/Gold Plasmonic Fiber-Optic Biosensor. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600185	18.5	41
48	Laser-Induced In-Fiber Fluid Dynamical Instabilities for Precise and Scalable Fabrication of Spherical Particles. <i>Advanced Functional Materials</i> , 2017 , 27, 1703245	15.6	24
47	Mid-infrared sensing of molecular vibrational modes with tunable graphene plasmons. <i>Optics Letters</i> , 2017 , 42, 2066-2069	3	13
46	High-performance, flexible, and ultralong crystalline thermoelectric fibers. <i>Nano Energy</i> , 2017 , 41, 35-42	17.1	84
45	A stable and long-lasting concentration cell based on a reduced graphene oxide membrane and natural resource electrolyte. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21130-21133	13	2
44	Pristine graphene oxide film-based contactless actuators driven by electrostatic forces. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9534-9539	7.1	8
43	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. <i>ACS Nano</i> , 2017 , 11, 9191-9199	16.7	39
42	Optoelectronic Fibers via Selective Amplification of In-Fiber Capillary Instabilities. <i>Advanced Materials</i> , 2017 , 29, 1603033	24	38

41	Combination of micro-scanning mirrors and multi-mode fibers for speckle reduction in high lumen laser projector applications. <i>Optics Express</i> , 2017 , 25, 3795-3804	3.3	18
40	Feature issue introduction: Multimaterial and Multifunctional Optical Fibers. <i>Optical Materials Express</i> , 2017 , 7, 1906	2.6	
39	Side-channel photonic crystal fiber for surface enhanced Raman scattering sensing. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 195-201	8.5	48
38	Controlled fragmentation of multimaterial fibres and films via polymer cold-drawing. <i>Nature</i> , 2016 , 534, 529-33	50.4	62
37	Integrated liquid crystal photonic bandgap fiber devices. <i>Frontiers of Optoelectronics</i> , 2016 , 9, 466-482	2.8	4
36	Rapid SERS monitoring of lipid-peroxidation-derived protein modifications in cells using photonic crystal fiber sensor. <i>Journal of Biophotonics</i> , 2016 , 9, 32-7	3.1	15
35	Third Harmonic Generation With the Effect of Nonlinear Loss. <i>Journal of Lightwave Technology</i> , 2016 , 34, 1274-1280	4	5
34	Tunable resonant graphene plasmons for mid-infrared biosensing. <i>Optics Express</i> , 2016 , 24, 26241-26248	3.3	2
33	Self-assembled on-chip spherical-cap-shaped microresonators for high sensitivity temperature sensing. <i>Optics Express</i> , 2016 , 24, 26948-26955	3.3	1
32	In-line optofluidic refractive index sensing in a side-channel photonic crystal fiber. <i>Optics Express</i> , 2016 , 24, 27674-27682	3.3	33
31	Azimuthally Polarized Radial Emission from a Quantum Dot Fiber Laser. <i>ACS Photonics</i> , 2016 , 3, 2275-2279	3.3	23
30	Ultrasensitive optical microfiber coupler based sensors operating near the turning point of effective group index difference. <i>Applied Physics Letters</i> , 2016 , 109, 101101	3.4	51
29	The Numerical Modeling of 3D Microfiber Couplers and Resonators. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 1707-1710	2.2	
28	Design and analysis of surface plasmon resonance sensor based on high-birefringent microstructured optical fiber. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 065005	1.7	28
27	Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo. <i>Nature Biotechnology</i> , 2015 , 33, 277-84	44.5	396
26	Magnetic field sensor based on magnetic-fluid-coated long-period fiber grating. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 065402	1.7	17
25	Highly sensitive magnetic field sensor using long-period fiber grating 2015 ,		2
24	Efficient phase-matched third harmonic generation in a metal-clad plasmonic double-slot waveguide. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 025506	1.7	6

23	Crystalline silicon core fibres from aluminium core preforms. <i>Nature Communications</i> , 2015 , 6, 6248	17.4	53
22	High-throughput corrosion quantification in varied microenvironments. <i>Corrosion Science</i> , 2014 , 88, 481-486	6.86	9
21	Silicon-in-silica spheres via axial thermal gradient in-fibre capillary instabilities. <i>Nature Communications</i> , 2013 , 4, 2216	17.4	75
20	Direct atomic-level observation and chemical analysis of ZnSe synthesized by in situ high-throughput reactive fiber drawing. <i>Nano Letters</i> , 2013 , 13, 975-9	11.5	29
19	Microfluidic directional emission control of an azimuthally polarized radial fibre laser. <i>Nature Photonics</i> , 2012 , 6, 229-233	33.9	69
18	Preparation and transmission of low-loss azimuthally polarized pure single mode in multimode photonic band gap fibers. <i>Optics Express</i> , 2012 , 20, 6029-35	3.3	8
17	Fabrication and characterization of fibers with built-in liquid crystal channels and electrodes for transverse incident-light modulation. <i>Applied Physics Letters</i> , 2012 , 101, 011108	3.4	25
16	Low loss liquid crystal photonic bandgap fiber in the near-infrared region. <i>Optical Review</i> , 2011 , 18, 114-116	11.6	12
15	Tunable and rotatable polarization controller using photonic crystal fiber filled with liquid crystal. <i>Applied Physics Letters</i> , 2010 , 96, 241104	3.4	24
14	Liquid crystal parameter analysis for tunable photonic bandgap fiber devices. <i>Optics Express</i> , 2010 , 18, 4074-87	3.3	10
13	Electrically tunable Yb-doped fiber laser based on a liquid crystal photonic bandgap fiber device. <i>Optics Express</i> , 2010 , 18, 8229-38	3.3	8
12	Electrically tunable bandpass filter using solid-core photonic crystal fibers filled with multiple liquid crystals. <i>Optics Letters</i> , 2010 , 35, 1608-10	3	31
11	Electrically Tunable Bandpass Filter Based on Liquid Crystal Photonic Bandgap Fibers 2010 ,		2
10	Optically fed microwave true-time delay based on a compact liquid-crystal photonic-bandgap-fiber device. <i>Optics Letters</i> , 2009 , 34, 2757-9	3	20
9	On-chip tunable long-period grating devices based on liquid crystal photonic bandgap fibers. <i>Optics Letters</i> , 2009 , 34, 3818-20	3	29
8	Biased liquid crystal infiltrated photonic bandgap fiber. <i>Optics Express</i> , 2009 , 17, 4442-53	3.3	18
7	Thermal tunability of photonic bandgaps in liquid crystal infiltrated microstructured polymer optical fibers. <i>Optics Express</i> , 2009 , 17, 19356-64	3.3	41
6	Continuously tunable all-in-fiber devices based on thermal and electrical control of negative dielectric anisotropy liquid crystal photonic bandgap fibers. <i>Applied Optics</i> , 2009 , 48, 497-503	0.2	52

5	Compact Design of an Electrically Tunable and Rotatable Polarizer Based on a Liquid Crystal Photonic Bandgap Fiber. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1633-1635	2.2	38
4	High thermal and electrical tunability of negative dielectric liquid crystal photonic bandgap fibers 2008 ,		1
3	Integrating liquid crystal based optical devices in photonic crystal fibers. <i>Optical and Quantum Electronics</i> , 2007 , 39, 1009-1019	2.4	36
2	Progress in Metafibers for Sustainable Radiative Cooling and Prospects of Achieving Thermally Drawn Metafibers. <i>Advanced Energy and Sustainability Research</i> , 2100168	1.6	
1	Thermally drawn multifunctional fibers: Toward the next generation of information technology. <i>Information Materials</i> ,	23.1	2