

Guangming Tao

List of Publications by Year in descending order

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77
papers

3,144
citations

185998

28
h-index

155451

55
g-index

78
all docs

78
docs citations

78
times ranked

2647
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical-morphology metafabric for scalable passive daytime radiative cooling. <i>Science</i> , 2021, 373, 692-696.	6.0	410
2	Emerging Materials and Strategies for Personal Thermal Management. <i>Advanced Energy Materials</i> , 2020, 10, 1903921.	10.2	290
3	Infrared fibers. <i>Advances in Optics and Photonics</i> , 2015, 7, 379.	12.1	274
4	Structured spheres generated by an in-fibre fluid instability. <i>Nature</i> , 2012, 487, 463-467.	13.7	174
5	Thermally drawn advanced functional fibers: New frontier of flexible electronics. <i>Materials Today</i> , 2020, 35, 168-194.	8.3	153
6	Multimaterial Fibers. <i>International Journal of Applied Glass Science</i> , 2012, 3, 349-368.	1.0	128
7	Flexible and Robust Biomaterial Microstructured Colored Textiles for Personal Thermoregulation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19015-19022.	4.0	97
8	Soft bimorph actuator with real-time multiplex motion perception. <i>Nano Energy</i> , 2020, 76, 104926.	8.2	91
9	Wearable Affective Robot. <i>IEEE Access</i> , 2018, 6, 64766-64776.	2.6	86
10	Flexible all-textile dual tactile-tension sensors for monitoring athletic motion during taekwondo. <i>Nano Energy</i> , 2021, 85, 105941.	8.2	77
11	Low Loss, High NA Chalcogenide Glass Fibers for Broadband Mid-Infrared Supercontinuum Generation. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1389-1392.	1.9	75
12	Controlled fragmentation of multimaterial fibres and films via polymer cold-drawing. <i>Nature</i> , 2016, 534, 529-533.	13.7	75
13	Multimaterial preform coextrusion for robust chalcogenide optical fibers and tapers. <i>Optics Letters</i> , 2012, 37, 2751.	1.7	74
14	A multifunctional wearable E-textile <i>via</i> integrated nanowire-coated fabrics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8399-8409.	2.7	64
15	Living with I-Fabric: Smart Living Powered by Intelligent Fabric and Deep Analytics. <i>IEEE Network</i> , 2020, 34, 156-163.	4.9	61
16	Machine learning-optimized Tamm emitter for high-performance thermophotovoltaic system with detailed balance analysis. <i>Nano Energy</i> , 2020, 72, 104687.	8.2	53
17	Thermal Drawing of High-Density Macroscopic Arrays of Well-Ordered Sub-5-nm-Diameter Nanowires. <i>Nano Letters</i> , 2011, 11, 4768-4773.	4.5	51
18	Fabrication and characterization of multimaterial chalcogenide glass fiber tapers with high numerical apertures. <i>Optics Express</i> , 2015, 23, 23472.	1.7	48

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19	Octave-spanning infrared supercontinuum generation in robust chalcogenide nanotapers using picosecond pulses. <i>Optics Letters</i> , 2012, 37, 4639.	1.7	46
20	In-fiber production of polymeric particles for biosensing and encapsulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15549-15554.	3.3	43
21	High-performance zero-standby-power-consumption-under-bending pressure sensors for artificial reflex arc. <i>Nano Energy</i> , 2020, 73, 104743.	8.2	40
22	Third-order nonlinearity in GeSbSe glasses at mid-infrared wavelengths. <i>Materials Research Bulletin</i> , 2015, 70, 204-208.	2.7	39
23	Nonlinear characterization of robust multimaterial chalcogenide nanotapers for infrared supercontinuum generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 450.	0.9	38
24	Multifunctional Fiber-Enabled Intelligent Health Agents. <i>Advanced Materials</i> , 2022, 34, .	11.1	36
25	Superabsorbent Fibers for Comfortable Disposable Medical Protective Clothing. <i>Advanced Fiber Materials</i> , 2020, 2, 140-149.	7.9	35
26	Robust multimaterial tellurium-based chalcogenide glass fibers for mid-wave and long-wave infrared transmission. <i>Optics Letters</i> , 2014, 39, 4009.	1.7	34
27	Optical Micro/Nano Fibers Enabled Smart Textiles for Human-Machine Interface. <i>Advanced Fiber Materials</i> , 2022, 4, 1108-1117.	7.9	30
28	High-resolution chalcogenide fiber bundles for infrared imaging. <i>Optics Letters</i> , 2015, 40, 4384.	1.7	29
29	Dispersion characterization of chalcogenide bulk glass, composite fibers, and robust nanotapers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2498.	0.9	28
30	Wearable 3.0: From Smart Clothing to Wearable Affective Robot. <i>IEEE Network</i> , 2019, 33, 8-14.	4.9	28
31	Preparation of chalcogenide glass fiber using an improved extrusion method. <i>Optical Engineering</i> , 2016, 55, 056114.	0.5	26
32	In-Fiber Structured Particles and Filament Arrays from the Perspective of Fluid Instabilities. <i>Advanced Fiber Materials</i> , 2020, 2, 1-12.	7.9	25
33	Formation and Properties of a Novel Heavy-Metal Chalcogenide Glass Doped with a High Dysprosium Concentration. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2226-2229.	1.9	23
34	Co-axial silicon/perovskite heterojunction arrays for high-performance direct-conversion pixelated X-ray detectors. <i>Nano Energy</i> , 2020, 78, 105335.	8.2	22
35	Magneto-electrical Clothing Generator for High-Performance Transduction from Biomechanical Energy to Electricity. <i>Advanced Functional Materials</i> , 2022, 32, 2107682.	7.8	21
36	Dual control of the nanofriction of graphene. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6041-6051.	2.7	19

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37	Flexible Fiber Probe for Efficient Neural Stimulation and Detection. <i>Advanced Science</i> , 2020, 7, 2001410.	5.6	19
38	Multimaterial disc-to-fiber approach to efficiently produce robust infrared fibers. <i>Optical Materials Express</i> , 2014, 4, 2143.	1.6	18
39	Negative Information Measurement at AI Edge: A New Perspective for Mental Health Monitoring. <i>ACM Transactions on Internet Technology</i> , 2022, 22, 1-16.	3.0	18
40	Preparation of Low-loss Ge ₁₅ Ga ₁₀ Te ₇₅ chalcogenide glass for far-IR optics applications. <i>Infrared Physics and Technology</i> , 2014, 65, 77-82.	1.3	17
41	Digital design of multimaterial photonic particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6839-6844.	3.3	17
42	Robust multimaterial chalcogenide fibers produced by a hybrid fiber-fabrication process. <i>Optical Materials Express</i> , 2017, 7, 2336.	1.6	17
43	High-resilience cotton base yarn for anti-wrinkle and durable heat-insulation fabric. <i>Composites Part B: Engineering</i> , 2021, 212, 108663.	5.9	16
44	Cognitive Wearable Robotics for Autism Perception Enhancement. <i>ACM Transactions on Internet Technology</i> , 2021, 21, 1-16.	3.0	16
45	Fabrication of an IR hollow-core Bragg fiber based on chalcogenide glass extrusion. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 455-460.	1.1	15
46	Influence of the selenium content on thermo-mechanical and optical properties of Ge ₄₀ Ga ₄₀ Sb ₂₀ S chalcogenide glasses. <i>Infrared Physics and Technology</i> , 2016, 77, 21-26.	1.3	15
47	High-efficiency solar heat storage enabled by adaptive radiation management. <i>Cell Reports Physical Science</i> , 2021, 2, 100533.	2.8	15
48	Use of machine learning to efficiently predict the confinement loss in anti-resonant hollow-core fiber. <i>Optics Letters</i> , 2021, 46, 1454.	1.7	13
49	Multimaterial Fibers. <i>Springer Series in Surface Sciences</i> , 2015, , 1-26.	0.3	12
50	Scalable In-Fiber Manufacture of Functional Composite Particles. <i>ACS Nano</i> , 2018, 12, 11130-11138.	7.3	12
51	Fiber Changes Our Life. <i>Advanced Fiber Materials</i> , 2019, 1, 1-2.	7.9	12
52	Stretchable electromagnetic fibers for self-powered mechanical sensing. <i>Applied Materials Today</i> , 2020, 20, 100623.	2.3	12
53	Discovering extremely low confinement-loss anti-resonant fibers via swarm intelligence. <i>Optics Express</i> , 2021, 29, 35544.	1.7	12
54	Freely adjusted properties in Ge ₄₀ S based chalcogenide glasses with iodine incorporation. <i>Infrared Physics and Technology</i> , 2015, 69, 118-122.	1.3	10

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55	Multimaterial fibers: a new concept in infrared fiber optics. , 2014, , .		5
56	Fabrication and characterization of Geâ€“Sbâ€“Seâ€“I glasses and fibers. Applied Physics A: Materials Science and Processing, 2015, 120, 127-135.	1.1	5
57	Multimaterial rod-in-tube coextrusion for robust mid-infrared chalcogenide fibers. Proceedings of SPIE, 2014, , .	0.8	4
58	A carbonâ€“nanofiber glass composite with high electrical conductivity. International Journal of Applied Glass Science, 2020, 11, 590-600.	1.0	4
59	Tapered chalcogenideâ€“tellurite hybrid microstructured fiber for mid-infrared supercontinuum generation. Journal of Modern Optics, 2015, 62, 729-737.	0.6	3
60	Intelligent Fabric Enabled 6G Semantic Communication System for In-Cabin Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 1153-1162.	4.7	3
61	Mid-infrared Supercontinuum Generation in Robust Step-Index Chalcogenide Nanotapers Pumped with a Thulium Fiber Laser. , 2014, , .		2
62	Drawing robust infrared optical fibers from preforms produced by efficient multimaterial stacked coextrusion. , 2014, , .		1
63	Advances in infrared fibers. Proceedings of SPIE, 2015, , .	0.8	1
64	Functional Probes: Flexible Fiber Probe for Efficient Neural Stimulation and Detection (Adv. Sci.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	5.6	1
65	Refractive-index guiding single crystal optical fiber with airâ€“solid cladding. Optical Materials Express, 2021, 11, 2994.	1.6	1
66	Efficient Disc-to-fiber Multimaterial Stacked Coextrusion for Robust Infrared Optical Fibers. , 2013, , .		1
67	One-step Multi-material Preform Extrusion for Robust Chalcogenide Glass Optical Fibers and Tapers. , 2012, , .		1
68	In-fiber fabrication of size-controllable structured particles. , 2012, , .		0
69	Robust fibers for delivering infrared light. SPIE Newsroom, 0, , .	0.1	0
70	One-step Multi-material Preform Extrusion for Robust Chalcogenide Glass Optical Fibers. , 2012, , .		0
71	Multimaterial Fibers for Generating Structured Nanoparticles. , 2012, , .		0
72	Robust Multimaterial Tellurium-based Chalcogenide Glass Infrared Fibers. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
73	Multi-octave mid-infrared supercontinuum generation in robust chalcogenide nanowires using a thulium-fiber laser. , 2016, , .		0
74	Robust Low-Loss Multimaterial Chalcogenide Fiber for Infrared Applications fabricated by a Hybridized approach. , 2016, , .		0
75	Tuning Light with Photonic Particles. , 2016, , .		0
76	Hybridized Fabrication of Robust Low-Loss Multimaterial Chalcogenide Fiber for Infrared Applications. , 2016, , .		0
77	Magneto-electrical Clothing Generator for High-Performance Transduction from Biomechanical Energy to Electricity (Adv. Funct. Mater. 6/2022). Advanced Functional Materials, 2022, 32, .	7.8	0