

Kaiwei Li

List of Publications by Year in descending order

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58
papers

2,056
citations

172386

29
h-index

233338

45
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59
all docs

59
docs citations

59
times ranked

2132
citing authors

#	ARTICLE	IF	CITATIONS
1	High Sensitivity Hydrogen Sensors Based on Optical Micro/Nanofiber Couplers Working at the Dispersion Turning Point. <i>Journal of Lightwave Technology</i> , 2023, 41, 4283-4289.	2.7	0
2	Determining the Orientation of Tilted Fiber Bragg Gratings Using a Planar Substrate. <i>Journal of Lightwave Technology</i> , 2023, 41, 4315-4321.	2.7	1
3	Axial Strain Sensor Based on Microfiber Couplers Operating at the Dispersion Turning Point. <i>IEEE Sensors Journal</i> , 2022, 22, 4090-4095.	2.4	14
4	High-Precision Large-Range Optical Fiber Interferometric Piezometer and Its Wideband Interferometry for Water Pressure Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13.	2.4	4
5	Operando monitoring of ion activities in aqueous batteries with plasmonic fiber-optic sensors. <i>Nature Communications</i> , 2022, 13, 547.	5.8	66
6	Thermally drawn multifunctional fibers: Toward the next generation of information technology. <i>Informa An-Materi-ly</i> , 2022, 4, .	8.5	21
7	Synergistic SERS enhancement and <i>in situ</i> monitoring of photocatalytic reactions in a plasmonic metal/ferroelectric hybrid system by the light-induced pyroelectric effect. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14078-14089.	5.2	9
8	A micro-iridescent focus generated from a microsphere on a reflective nanograting. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	0
9	Broadband Acoustic Sensing with Optical Nanofiber Couplers Working at the Dispersion Turning Point. <i>Sensors</i> , 2022, 22, 4940.	2.1	5
10	Mode Splitting in ITO-Nanocoated Tilted Fiber Bragg Gratings for Vector Twist Measurement. <i>Journal of Lightwave Technology</i> , 2021, 39, 4151-4157.	2.7	11
11	Tunable photonic nanojets from a micro-cylinder with a dielectric nano-layer. <i>Optik</i> , 2021, 225, 165878.	1.4	3
12	Advanced Thermally Drawn Multimaterial Fibers: Structure-Enabled Functionalities. <i>Advanced Devices & Instrumentation</i> , 2021, 2021, .	4.0	10
13	Discrimination of Bulk and Surface Refractive Index Change in Plasmonic Sensors with Narrow Bandwidth Resonance Combs. <i>ACS Sensors</i> , 2021, 6, 3013-3023.	4.0	46
14	Ultrasensitive interferometers based on zigzag-shaped tapered optical microfibers operating at the dispersion turning point. <i>Optics Express</i> , 2021, 29, 36926.	1.7	10
15	Ultrasensitive detection of endocrine disruptors via superfine plasmonic spectral combs. <i>Light: Science and Applications</i> , 2021, 10, 181.	7.7	96
16	On-Demand Fabrication of Optical Microfiber Couplers With Precisely Controlled Dispersion Turning Points: Towards Sensing Application in Liquids. <i>Journal of Lightwave Technology</i> , 2021, 39, 667-673.	2.7	7
17	Elastic and Stretchable Functional Fibers: A Review of Materials, Fabrication Methods, and Applications. <i>Advanced Fiber Materials</i> , 2021, 3, 1-13.	7.9	74
18	Single-Crystal SnSe Thermoelectric Fibers via Laser-Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. <i>Advanced Materials</i> , 2020, 32, e2002702.	11.1	57

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19	Narrow bandwidth fiber-optic spectral combs for renewable hydrogen detection. <i>Science China Information Sciences</i> , 2020, 63, 1.	2.7	45
20	Hybrid Plasmonic Fiber-Optic Sensors. <i>Sensors</i> , 2020, 20, 3266.	2.1	24
21	Optical Microfiber Sensors. <i>Progress in Optical Science and Photonics</i> , 2020, , 59-80.	0.3	1
22	A Flexible Dual-Core Optical Waveguide Sensor for Simultaneous and Continuous Measurement of Contact Force and Position. , 2020, , .		4
23	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented Gold Substrates via Cold Etching. <i>Advanced Optical Materials</i> , 2019, 7, 1900905.	3.6	13
24	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.	2.7	36
25	Plasmonic Fiber-Optic Photothermal Anemometers With Carbon Nanotube Coatings. <i>Journal of Lightwave Technology</i> , 2019, 37, 3373-3380.	2.7	43
26	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.	4.0	42
27	Electrochemical Plasmonic Fiber-optic Sensors for Ultra-Sensitive Heavy Metal Detection. <i>Journal of Lightwave Technology</i> , 2019, 37, 3495-3502.	2.7	45
28	High-Sensitivity, Large Dynamic Range Refractive Index Measurement Using an Optical Microfiber Coupler. <i>Sensors</i> , 2019, 19, 5078.	2.1	10
29	Ultraflexible Glassy Semiconductor Fibers for Thermal Sensing and Positioning. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2441-2447.	4.0	50
30	Twist sensor based on surface plasmon resonance excitation using two spectral combs in one tilted fiber Bragg grating. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1176.	0.9	31
31	Twist sensor based on surface plasmon resonance excitation using two spectral combs in one tilted fiber Bragg grating: publisher's note. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1435.	0.9	0
32	Photothermal anemometer based on carbon nanotube-coated highly tilted fiber Bragg grating-assisted SPR sensor. , 2019, , .		1
33	Ultrasensitive label-free optical microfiber coupler biosensor for detection of cardiac troponin I based on interference turning point effect. <i>Biosensors and Bioelectronics</i> , 2018, 106, 99-104.	5.3	111
34	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.	3.1	52
35	Spectral Characteristics and Ultrahigh Sensitivities Near the Dispersion Turning Point of Optical Microfiber Couplers. <i>Journal of Lightwave Technology</i> , 2018, 36, 2409-2415.	2.7	60
36	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.	2.7	17

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37	Electron-Rich Two-Dimensional Molybdenum Trioxides for Highly Integrated Plasmonic Biosensing. ACS Photonics, 2018, 5, 347-352.	3.2	45
38	Optical Micro/Nanofiber-Based Localized Surface Plasmon Resonance Biosensors: Fiber Diameter Dependence. Sensors, 2018, 18, 3295.	2.1	27
39	Highly Oriented Electrospun P(VDF-TrFE) Fibers via Mechanical Stretching for Wearable Motion Sensing. Advanced Materials Technologies, 2018, 3, 1800033.	3.0	46
40	Ultrasensitive measurement of gas refractive index using an optical nanofiber coupler. Optics Letters, 2018, 43, 679.	1.7	56
41	Birefringence induced Vernier effect in optical fiber modal interferometers for enhanced sensing. Sensors and Actuators B: Chemical, 2018, 275, 16-24.	4.0	56
42	Highly sensitive gas refractometers based on optical microfiber modal interferometers operating at dispersion turning point. Optics Express, 2018, 26, 29148.	1.7	66
43	Flexible Piezoelectric Fibers for Acoustic Sensing and Positioning. Advanced Electronic Materials, 2017, 3, 1600449.	2.6	44
44	Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi _{0.5} Sb _{1.5} Te ₃ Nanocomposites. Advanced Electronic Materials, 2017, 3, 1600554.	2.6	80
45	Wearable Electronics: Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi _{0.5} Sb _{1.5} Te ₃ Nanocomposites (Adv. Electron.) Tj ETQq1 2.0.784314 rgBT /O		
46	Hybrid Graphene/Gold Plasmonic Fiber-Optic Biosensor. Advanced Materials Technologies, 2017, 2, 1600185.	3.0	58
47	Laser-Induced In-Fiber Fluid Dynamical Instabilities for Precise and Scalable Fabrication of Spherical Particles. Advanced Functional Materials, 2017, 27, 1703245.	7.8	29
48	High-performance, flexible, and ultralong crystalline thermoelectric fibers. Nano Energy, 2017, 41, 35-42.	8.2	132
49	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. ACS Nano, 2017, 11, 9191-9199.	7.3	53
50	Particles: Laser-Induced In-Fiber Fluid Dynamical Instabilities for Precise and Scalable Fabrication of Spherical Particles (Adv. Funct. Mater. 43/2017). Advanced Functional Materials, 2017, 27, .	7.8	0
51	High-Q silicon microsphere whispering gallery mode resonator fabricated by laser induced in-fiber capillary instability. , 2017, , .		0
52	In-line optofluidic refractive index sensing in a side-channel photonic crystal fiber. Optics Express, 2016, 24, 27674.	1.7	50
53	Azimuthally Polarized Radial Emission from a Quantum Dot Fiber Laser. ACS Photonics, 2016, 3, 2275-2279.	3.2	27
54	Ultrasensitive optical microfiber coupler based sensors operating near the turning point of effective group index difference. Applied Physics Letters, 2016, 109, .	1.5	67

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55	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.	1.0	31
56	Integrated liquid crystal photonic bandgap fiber devices. <i>Frontiers of Optoelectronics</i> , 2016, 9, 466-482.	1.9	6
57	Side-channel photonic crystal fiber for surface enhanced Raman scattering sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 195-201.	4.0	58
58	Gold nanoparticle amplified optical microfiber evanescent wave absorption biosensor for cancer biomarker detection in serum. <i>Talanta</i> , 2014, 120, 419-424.	2.9	106