

# Jiawen Li

## List of Publications by Year in descending order

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71  
papers

2,026  
citations

218677

26  
h-index

243625

44  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro lens fabrication by means of femtosecond two photon photopolymerization. Optics Express, 2006, 14, 810.	3.4	232
2	Multifunctional Janus Microplates Arrays Actuated by Magnetic Fields for Water/Light Switches and Bioinspired Assimilatory Coloration. Advanced Materials, 2019, 31, e1807507.	21.0	144
3	Botanicalinspired 4D Printing of Hydrogel at the Microscale. Advanced Functional Materials, 2020, 30, 1907377.	14.9	122
4	Multi-frequency intravascular ultrasound (IVUS) imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 97-107.	3.0	112
5	Environmentally Adaptive Shape-Morphing Microrobots for Localized Cancer Cell Treatment. ACS Nano, 2021, 15, 18048-18059.	14.6	94
6	Conical Hollow Microhelices with Superior Swimming Capabilities for Targeted Cargo Delivery. Advanced Materials, 2019, 31, e1808226.	21.0	89
7	Ultrathin monolithic 3D printed optical coherence tomography endoscopy for preclinical and clinical use. Light: Science and Applications, 2020, 9, 124.	16.6	80
8	Novel combined miniature optical coherence tomography ultrasound probe for in vivo intravascular imaging. Journal of Biomedical Optics, 2011, 16, 060505.	2.6	69
9	Femtosecond Mathieu Beams for Rapid Controllable Fabrication of Complex Microcages and Application in Trapping Microobjects. ACS Nano, 2019, 13, 4667-4676.	14.6	63
10	Remote Photothermal Actuation of Underwater Bubble toward Arbitrary Direction on Planar Slippery Fe <sub>3</sub> O <sub>4</sub> Doped Surfaces. Advanced Functional Materials, 2019, 29, 1904766.	14.9	59
11	High speed intravascular photoacoustic imaging with fast optical parametric oscillator laser at 1.7 μm. Applied Physics Letters, 2015, 107, 083701.	3.3	57
12	Resonant acoustic radiation force optical coherence elastography. Applied Physics Letters, 2013, 103, 103704.	3.3	56
13	Intravascular atherosclerotic imaging with combined fluorescence and optical coherence tomography probe based on a double-clad fiber combiner. Journal of Biomedical Optics, 2012, 17, 0705011.	2.6	54
14	Targeted SingleCell Therapeutics with Magnetic Tubular Micromotor by OneStep Exposure of Structured Femtosecond Optical Vortices. Advanced Functional Materials, 2019, 29, 1905745.	14.9	54
15	Integrated IVUS-OCT Imaging for Atherosclerotic Plaque Characterization. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 196-203.	2.9	53
16	Integrated IVUS-OCT for Real-Time Imaging of Coronary Atherosclerosis. JACC: Cardiovascular Imaging, 2014, 7, 101-103.	5.3	51
17	Two-photon polymerisation 3D printed freeform micro-optics for optical coherence tomography fibre probes. Scientific Reports, 2018, 8, 14789.	3.3	50
18	Transparent LightDriven Hydrogel Actuator Based on Photothermal Marangoni Effect and Buoyancy Flow for ThreeDimensional Motion. Advanced Functional Materials, 2021, 31, 2009386.	14.9	48

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19	Intraoperative detection of blood vessels with an imaging needle during neurosurgery in humans. <i>Science Advances</i> , 2018, 4, eaav4992.	10.3	46
20	Ultrafast optical-ultrasonic system and miniaturized catheter for imaging and characterizing atherosclerotic plaques in vivo. <i>Scientific Reports</i> , 2015, 5, 18406.	3.3	43
21	Chiral Assemblies of Laser-Printed Micropillars Directed by Asymmetrical Capillary Force. <i>Advanced Materials</i> , 2020, 32, e2002356.	21.0	42
22	Quasi-phase-matching-division multiplexing holography in a three-dimensional nonlinear photonic crystal. <i>Light: Science and Applications</i> , 2021, 10, 146.	16.6	42
23	Miniature optical coherence tomography-ultrasound probe for automatically coregistered three-dimensional intracoronary imaging with real-time display. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	2.6	39
24	Multimodality Intravascular Imaging of High-Risk Coronary Plaque. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 145-159.	5.3	35
25	Trimodality imaging system and intravascular endoscopic probe: combined optical coherence tomography, fluorescence imaging and ultrasound imaging. <i>Optics Letters</i> , 2014, 39, 6652.	3.3	33
26	Perspective: Biomedical sensing and imaging with optical fibers—Innovation through convergence of science disciplines. <i>APL Photonics</i> , 2018, 3, .	5.7	31
27	Miniaturized single-fiber-based needle probe for combined imaging and sensing in deep tissue. <i>Optics Letters</i> , 2018, 43, 1682.	3.3	27
28	Silk: A bio-derived coating for optical fiber sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127864.	7.8	24
29	Femtosecond Laser Regulated Ultrafast Growth of Mushroom-Like Architecture for Oil Repellency and Manipulation. <i>Nano Letters</i> , 2021, 21, 9301-9309.	9.1	22
30	3D-Printed Micro Lens—Lens for In Vivo Multimodal Microendoscopy. <i>Small</i> , 2022, 18, e2107032.	10.0	21
31	Rapid Fabrication of 3D Chiral Microstructures by Single Exposure of Interfered Femtosecond Vortex Beams and Capillary-Force-Assisted Self-Assembly. <i>Advanced Functional Materials</i> , 2022, 32, 2106917.	14.9	17
32	Functional Shape-Morphing Microarchitectures Fabricated by Dynamic Holographically Shifted Femtosecond Multifoci. <i>Nano Letters</i> , 2022, 22, 5277-5286.	9.1	16
33	Flexible needle with integrated optical coherence tomography probe for imaging during transbronchial tissue aspiration. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	13
34	Transit-time analysis based on delay-encoded beam shape for velocity vector quantification by spectral-domain Doppler optical coherence tomography. <i>Optics Express</i> , 2010, 18, 1261.	3.4	12
35	Optimal flushing agents for integrated optical and acoustic imaging systems. <i>Journal of Biomedical Optics</i> , 2015, 20, 056005.	2.6	10
36	Distributed optical fiber sensing of micron-scale particles. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111762.	4.1	9

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37	Whispering gallery mode excitation using exposed-core fiber. <i>Optics Express</i> , 2021, 29, 23549.	3.4	8
38	Sustaining Robust Cavities with Slippery Liquid-Liquid Interfaces. <i>Advanced Science</i> , 2022, 9, e2103568.	11.2	8
39	Automated Coronary Optical Coherence Tomography Feature Extraction with Application to Three-Dimensional Reconstruction. <i>Tomography</i> , 2022, 8, 1307-1349.	1.8	7
40	A Silk-Based Functionalization Architecture for Single Fiber Imaging and Sensing. <i>Advanced Functional Materials</i> , 2022, 32, 2010713.	14.9	6
41	A Handheld Fiber-Optic Probe to Enable Optical Coherence Tomography of Oral Soft Tissue. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2276-2282.	4.2	5
42	Double-Clad Fiber-Based Multifunctional Biosensors and Multimodal Bioimaging Systems: Technology and Applications. <i>Biosensors</i> , 2022, 12, 90.	4.7	4
43	Integrated intravascular optical coherence tomography (OCT) - ultrasound (US) catheter for characterization of atherosclerotic plaques in vivo. , 2012, 2012, 3175-8.		2
44	Real-time co-registered IVUS-OCT catheter for atherosclerotic plaque identification. , 2013, , .		2
45	4D Printing: Botanical-Inspired 4D Printing of Hydrogel at the Microscale ( <i>Adv. Funct. Mater.</i> 4/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070026.	14.9	2
46	Integrated intravascular ultrasound and optical coherence tomography technology: a promising tool to identify vulnerable plaques [INVITED PAPER]. <i>Journal of Biomedical Photonics and Engineering</i> , 2015, 1, 209-224.	0.7	2
47	Integrated IVUS-OCT catheter for in vivo intravascular imaging. , 2012, , .		1
48	Advances in a fully integrated intravascular OCT-ultrasound system for cardiovascular imaging. , 2012, , .		1
49	Miniature integrated optical coherence tomography (OCT) - ultrasound (US) probe for intravascular imaging. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
50	Diagnostic accuracy of integrated intravascular ultrasound and optical coherence tomography (IVUS-OCT) system for coronary plaque characterization. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
51	Protein detection enabled using functionalised silk-binding peptides on a silk-coated optical fibre. <i>RSC Advances</i> , 2021, 11, 22334-22342.	3.6	1
52	Two-dimensional mapping of surface scatterers on an optical fiber core using selective mode launching. <i>APL Photonics</i> , 2021, 6, 026105.	5.7	1
53	Femtosecond laser direct writing continuous phase vortex gratings with proportionally distributed diffraction energy. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	1
54	The Integration of IVUS and OCT. , 2020, , 57-79.		1

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55	Self optical motion-tracking for endoscopic optical coherence tomography probe using micro-beamsplitter probe. , 2014, , .		0
56	Back-to-back optical coherence tomography-ultrasound probe for co-registered three-dimensional intravascular imaging with real-time display. Proceedings of SPIE, 2014, , .	0.8	0
57	TCT-380 Integrated intravascular ultrasound (IVUS) optical coherence tomography (OCT) system for identifying thin-cap fibroatheroma. Journal of the American College of Cardiology, 2014, 64, B111.	2.8	0
58	Ideal flushing agents for integrated optical acoustic imaging systems. , 2015, , .		0
59	Integrated OCT-US catheter for detection of cancer in the gastrointestinal tract. , 2015, , .		0
60	High speed photoacoustic imaging with fast OPO laser at 1.7 $\mu$ m (Conference Presentation). , 2016, , .		0
61	HYBRID IVUS/OCT: â€œPROBINGâ€•THE FUTURE. Journal of the American College of Cardiology, 2017, 69, 976.	2.8	0
62	Imaging Genetically-Modified Cells with a Miniaturised Multimodal Optical Coherence Tomography + Fluorescence Probe. , 2019, , .		0
63	Chiral Microstructures: Chiral Assemblies of Laserâ€Printed Micropillars Directed by Asymmetrical Capillary Force (Adv. Mater. 31/2020). Advanced Materials, 2020, 32, 2070236.	21.0	0
64	Precise on-Fiber Plasmonic Spectroscopy Using a Gradient-Index Microlens. Journal of Lightwave Technology, 2021, 39, 270-274.	4.6	0
65	Imaging-aided Temperature Measurements with a Single Optical Fiber for in-vivo Sensing Applications. , 2018, , .		0
66	Novel concepts for sensing, imaging and mode generation in fibers using high-index glass. , 2019, , .		0
67	Chemical sensing based on silk coated exposed-core fibers. , 2019, , .		0
68	Co-located sensing and imaging via a single fibre [Invited]. , 2020, , .		0
69	Single-fiber-based probe for combined imaging and pH sensing. , 2021, , .		0
70	3Dâ€Printed Micro Lensâ€inâ€Lens for In Vivo Multimodal Microendoscopy (Small 17/2022). Small, 2022, 18, .	10.0	0
71	Multimodal imaging needle combining optical coherence tomography and fluorescence for imaging of live breast cancer cells labeled with a fluorescent analog of tamoxifen. Journal of Biomedical Optics, 2022, 27, .	2.6	0