

Wu Yuan

List of Publications by Year in descending order

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78
papers

2,764
citations

159585

30
h-index

175258

52
g-index

79
all docs

79
docs citations

79
times ranked

2583
citing authors

#	ARTICLE	IF	CITATIONS
1	Humidity insensitive TOPAS polymer fiber Bragg grating sensor. Optics Express, 2011, 19, 19731.	3.4	236
2	High-T _g TOPAS microstructured polymer optical fiber for fiber Bragg grating strain sensing at 110 degrees. Optics Express, 2013, 21, 4758.	3.4	187
3	High Sensitivity Polymer Optical Fiber-Bragg-Grating-Based Accelerometer. IEEE Photonics Technology Letters, 2012, 24, 763-765.	2.5	163
4	Improved thermal and strain performance of annealed polymer optical fiber Bragg gratings. Optics Communications, 2011, 284, 176-182.	2.1	140
5	Selective filling of photonic crystal fibers using focused ion beam milled microchannels. Optics Express, 2011, 19, 17585.	3.4	124
6	Label-free biosensing with high sensitivity in dual-core microstructured polymer optical fibers. Optics Express, 2011, 19, 7790.	3.4	117
7	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. New Phytologist, 2012, 194, 775-783.	7.3	111
8	Tunable Polymer Fiber Bragg Grating (FBG) Inscription: Fabrication of Dual-FBG Temperature Compensated Polymer Optical Fiber Strain Sensors. IEEE Photonics Technology Letters, 2012, 24, 401-403.	2.5	108
9	High performance chitosan diaphragm-based fiber-optic acoustic sensor. Sensors and Actuators A: Physical, 2010, 163, 42-47.	4.1	92
10	Optical fibre Bragg grating recorded in TOPAS cyclic olefin copolymer. Electronics Letters, 2011, 47, 271.	1.0	92
11	Narrow Bandwidth 850-nm Fiber Bragg Gratings in Few-Mode Polymer Optical Fibers. IEEE Photonics Technology Letters, 2011, 23, 660-662.	2.5	74
12	Real-time protein biosensor arrays based on surface plasmon resonance differential phase imaging. Biosensors and Bioelectronics, 2008, 24, 606-612.	10.1	73
13	Dynamic Characterization of Polymer Optical Fibers. IEEE Sensors Journal, 2012, 12, 3047-3053.	4.7	73
14	Sensitivity enhancement based on application of multi-pass interferometry in phase-sensitive surface plasmon resonance biosensor. Optics Communications, 2007, 275, 491-496.	2.1	65
15	Robust and fast characterization of OCT-based optical attenuation using a novel frequency-domain algorithm for brain cancer detection. Scientific Reports, 2017, 7, 44909.	3.3	64
16	Microstructured optical fiber refractive index sensor. Optics Letters, 2010, 35, 856.	3.3	60
17	Refractive Index Sensing in an All-Solid Twin-Core Photonic Bandgap Fiber. IEEE Sensors Journal, 2010, 10, 1192-1199.	4.7	59
18	2â€“10 μ m mid-infrared supercontinuum generation in As ₂ Se ₃ photonic crystal fiber. Laser Physics Letters, 2013, 10, 095107.	1.4	58

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19	Optimal operational conditions for supercontinuum-based ultrahigh-resolution endoscopic OCT imaging. <i>Optics Letters</i> , 2016, 41, 250.	3.3	57
20	Super-achromatic monolithic microprobe for ultrahigh-resolution endoscopic optical coherence tomography at 800nm. <i>Nature Communications</i> , 2017, 8, 1531.	12.8	57
21	Surface Plasmon Resonance Biosensor Incorporated in a Michelson Interferometer With Enhanced Sensitivity. <i>IEEE Sensors Journal</i> , 2007, 7, 70-73.	4.7	55
22	Surface-enhanced Raman scattering biosensor for DNA detection on nanoparticle island substrates. <i>Applied Optics</i> , 2009, 48, 4329.	2.1	52
23	Thermal tunability of photonic bandgaps in liquid crystal infiltrated microstructured polymer optical fibers. <i>Optics Express</i> , 2009, 17, 19356.	3.4	50
24	Note: Optical fiber milled by focused ion beam and its application for Fabry-Pérot refractive index sensor. <i>Review of Scientific Instruments</i> , 2011, 82, 076103.	1.3	47
25	Nonlinear fiber-optic strain sensor based on four-wave mixing in microstructured optical fiber. <i>Optics Letters</i> , 2012, 37, 794.	3.3	46
26	Fiber Optic Line-Based Sensor Employing Time Delay Estimation for Disturbance Detection and Location. <i>Journal of Lightwave Technology</i> , 2014, 32, 1032-1037.	4.6	46
27	Two-dimensional biosensor arrays based on surface plasmon resonance phase imaging. <i>Applied Optics</i> , 2007, 46, 2325.	2.1	40
28	Effects of electric field on flow boiling heat transfer in a vertical minichannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 726-741.	4.8	39
29	Polarization-sensitive surface plasmon enhanced ellipsometry biosensor using the photoelastic modulation technique. <i>Sensors and Actuators A: Physical</i> , 2009, 151, 23-28.	4.1	34
30	Theranostic OCT microneedle for fast ultrahigh-resolution deep-brain imaging and efficient laser ablation in vivo. <i>Science Advances</i> , 2020, 6, eaaz9664.	10.3	34
31	Parallel deep neural networks for endoscopic OCT image segmentation. <i>Biomedical Optics Express</i> , 2019, 10, 1126.	2.9	30
32	Temperature Compensated Strain Sensor Based on Cascaded Sagnac Interferometers and All-Solid Birefringent Hybrid Photonic Crystal Fibers. <i>IEEE Sensors Journal</i> , 2012, 12, 1641-1646.	4.7	26
33	Super-achromatic optical coherence tomography capsule for ultrahigh-resolution imaging of esophagus. <i>Journal of Biophotonics</i> , 2019, 12, e201800205.	2.3	24
34	Automatic and robust segmentation of endoscopic OCT images and optical staining. <i>Biomedical Optics Express</i> , 2017, 8, 2697.	2.9	21
35	Fiber-Optic Sensor for Acoustic Localization. <i>Journal of Lightwave Technology</i> , 2014, 32, 1892-1898.	4.6	17
36	Fiber-Optic sensor without polarization-induced signal fading. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1307-1313.	1.4	16

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37	Label-free imaging of human brain tissue at subcellular resolution for potential rapid intra-operative assessment of glioma surgery. <i>Theranostics</i> , 2021, 11, 7222-7234.	10.0	15
38	Robust layer segmentation of esophageal OCT images based on graph search using edge-enhanced weights. <i>Biomedical Optics Express</i> , 2018, 9, 4481.	2.9	14
39	Improving the sensitivity limit of surface plasmon resonance biosensors by detecting mixed interference signals. <i>Applied Optics</i> , 2007, 46, 8068.	2.1	13
40	Laser-assisted lateral optical fiber processing for selective infiltration. <i>Optics Express</i> , 2014, 22, 2675.	3.4	13
41	Broadband rotary joint for high-speed ultrahigh-resolution endoscopic OCT imaging at 800nm. <i>Optics Letters</i> , 2017, 42, 4978.	3.3	13
42	Ultralow-voltage electrothermal MEMS based fiber-optic scanning probe for forward-viewing endoscopic OCT. <i>Optics Letters</i> , 2019, 44, 2232.	3.3	12
43	In vivo assessment of vascular-targeted photodynamic therapy effects on tumor microvasculature using ultrahigh-resolution functional optical coherence tomography. <i>Biomedical Optics Express</i> , 2020, 11, 4316.	2.9	11
44	Integrated scanning spectrometer with a tunable micro-ring resonator and an arrayed waveguide grating. <i>Photonics Research</i> , 2022, 10, A74.	7.0	11
45	In vivo assessment of inflammatory bowel disease in rats with ultrahigh-resolution colonoscopic OCT. <i>Biomedical Optics Express</i> , 2022, 13, 2091.	2.9	11
46	Optical clearing for luminal organ imaging with ultrahigh-resolution optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016, 21, 081211.	2.6	9
47	Current Advances in COPD Imaging. <i>Academic Radiology</i> , 2019, 26, 335-343.	2.5	8
48	Visualization and Validation of The Microstructures in The Airway Wall in vivo Using Diffractive Optical Coherence Tomography. <i>Academic Radiology</i> , 2022, 29, 1623-1630.	2.5	7
49	Direct Visualization and Quantitative Imaging of Small Airway Anatomy Using Deep Learning Assisted Diffractive OCT. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 238-246.	4.2	7
50	Polymer PCF Bragg grating sensors based on poly(methyl methacrylate) and TOPAS cyclic olefin copolymer. , 2011, , .		6
51	870nm Bragg grating in single mode TOPAS microstructured polymer optical fibre. <i>Proceedings of SPIE</i> , 2011, , .	0.8	5
52	Coherent mid-infrared supercontinuum generation with As ₂ Se ₃ photonic crystal fiber and femtosecond Airy pulses. <i>Laser Physics Letters</i> , 2015, 12, 125101.	1.4	4
53	Polymer optical fiber Bragg grating sensors: Measuring acceleration. , 2010, , .		3
54	All-solid birefringent hybrid photonic crystal fiber based interferometric sensor for measurement of strain and temperature. , 2011, , .		3

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55	A novel Sagnac fiber optic sensor employing time delay estimation for distributed detection and location. Proceedings of SPIE, 2013, , .	0.8	3
56	Applications of Total Internal Reflection Fluorescence (TIRF) microscopy in cellular bio-imaging. , 2007, , .		2
57	Establishment and Application of Human Interactive Three-Dimensional Spine Software. Applied Mechanics and Materials, 2011, 140, 132-136.	0.2	2
58	Sensitivity enhancement of phase-sensitive surface plasmon resonance biosensor using multi-pass interferometry. , 2006, , .		1
59	Technique for False Image Correction in Second Harmonic Generation Microscopy by Modulating Laser Polarization. , 2006, , .		1
60	Ultrasensitive refractive index sensor based on twin-core photonic bandgap fibers. Proceedings of SPIE, 2009, , .	0.8	1
61	Theoretical investigation on low-loss IR-transmitting hollow-core metallic fiber with double-cladding. , 2012, , .		1
62	2-10 $\hat{1}$ / ₄ m Mid-infrared Supercontinuum Generation in As ₂ Se ₃ Photonic Crystal Fiber. , 2013, , .		1
63	Surface-enhanced Raman spectroscopy on a surface plasmon resonance biosensor platform for gene diagnostics. , 2008, , .		0
64	Surface-Enhanced Raman-Scattering Biosensor on Nanoparticle Island Substrates for DNA Detection. , 2008, , .		0
65	Ultrasensitive twin-core photonic bandgap fiber refractive index sensor. , 2009, , .		0
66	Infiltration liquid crystal in microstructured polymer optical fibers. , 2009, , .		0
67	Grating Writing and Growth at 325nm in Non-Hydrogenated Silica Fiber. , 2010, , .		0
68	Optical fiber sensors fabricated by the focused ion beam technique. Proceedings of SPIE, 2012, , .	0.8	0
69	Temperature compensated, humidity insensitive, high-T_g; TOPAS FBGs for accelerometers and microphones. , 2012, , .		0
70	Femtosecond laser assisted selective infiltration of dual-core photonic crystal fiber. , 2013, , .		0
71	Novel fiber for low-loss mid-infrared transmission. , 2014, , .		0
72	Mo1994 Ultrahigh Resolution Endoscopic Optical Coherence Tomography at 800 nm for Imaging of Bile Duct. Gastrointestinal Endoscopy, 2016, 83, AB487.	1.0	0

#	ARTICLE	IF	CITATIONS
73	Broadband rotary joint for high speed ultrahigh resolution endoscopic OCT imaging (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock	0.784314	0
74	Super-achromatic microprobe for ultrahigh-resolution endoscopic OCT imaging at 800 nm (Conference Presentation) (Withdrawal Notice). , 2018, , .		0
75	Electro-thermal MEMS fiber scanner for endoscopic optical coherence tomography (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock	0.784314	0
76	Design of Microstructured Waveguide Devices for Applications in Optical Sensing. , 2010, , .		0
77	Fiber-optical accelerometers based on polymer optical fiber Bragg gratings. , 2010, , .		0
78	800-nm endobronchial OCT for imaging airway microstructures in vivo. , 2020, , .		0