

# Zhenyi Chen

## List of Publications by Year in descending order

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50  
papers

519  
citations

687363

13  
h-index

713466

21  
g-index

51  
all docs

51  
docs citations

51  
times ranked

647  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-Fiber Mach-Zehnder Interferometer Based on Double Cladding Fibers for Refractive Index Sensor. IEEE Sensors Journal, 2011, 11, 2395-2400.	4.7	65
2	Gold Nanoparticles-Modified Tapered Fiber Nanoprobe for Remote SERS Detection. IEEE Photonics Technology Letters, 2014, 26, 777-780.	2.5	53
3	Dark solitons in nonlocal media with competing nonlinearities. Physical Review A, 2013, 87, .	2.5	32
4	Evaluation of expressed prostatic secretion and serum using surface-enhanced Raman spectroscopy for the noninvasive detection of prostate cancer, a preliminary study. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1051-1059.	3.3	32
5	SERS detection of expired tetracycline hydrochloride with an optical fiber nano-probe. Analytical Methods, 2015, 7, 1307-1312.	2.7	30
6	Raman spectroscopy measurement of levofloxacin lactate in blood using an optical fiber nano-probe. Journal of Raman Spectroscopy, 2015, 46, 197-201.	2.5	28
7	Generation of the First-Order OAM Modes in Single-Ring Fibers by Offset Splicing Technology. IEEE Photonics Technology Letters, 2016, 28, 1581-1584.	2.5	27
8	The image-based analysis and classification of urine sediments using a LeNet-5 neural network. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 109-114.	1.9	24
9	SERS Taper-Fiber Nanoprobe Modified by Gold Nanoparticles Wrapped with Ultrathin Alumina Film by Atomic Layer Deposition. Sensors, 2017, 17, 467.	3.8	17
10	Surface-enhanced Raman spectroscopy before radical prostatectomy predicts biochemical recurrence better than CAPRA-S. International Journal of Nanomedicine, 2019, Volume 14, 431-440.	6.7	17
11	Segmenting nailfold capillaries using an improved U-net network. Microvascular Research, 2020, 130, 104011.	2.5	17
12	Enhanced FBG Temperature Sensitivity in PbS-Doped Silica Optical Fiber. Journal of Lightwave Technology, 2019, 37, 4902-4907.	4.6	15
13	Raman Spectroscopy Reveals Abnormal Changes in the Urine Composition of Prostate Cancer: An Application of an Intelligent Diagnostic Model with a Deep Learning Algorithm. Advanced Intelligent Systems, 2021, 3, 2000090.	6.1	13
14	Refractive Index Modulation by Crystallization in Sapphire-Derived Fiber. IEEE Photonics Technology Letters, 2017, 29, 723-726.	2.5	12
15	Surface-enhanced Raman scattering spectra revealing the inter-cultivar differences for Chinese ornamental Flos Chrysanthemum: a new promising method for plant taxonomy. Plant Methods, 2017, 13, 92.	4.3	12
16	Generation of the First-Order OAM Modes in Ring Fibers by Exerting Pressure Technology. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	11
17	All-Fiber OAM Amplifier With High Purity and Broadband Spectrum Gain Based on Fused Taper Vortex-Beam Coupler. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	10
18	High-Sensitivity Bending Sensor Based on Supermode Interference in Coupled Four-Core Sapphire-Derived Fiber. Journal of Lightwave Technology, 2021, 39, 3932-3940.	4.6	10

#	ARTICLE	IF	CITATIONS
19	Study of a dynamic-shape-curve function for a fused tapering optical fiber. <i>Applied Optics</i> , 2006, 45, 6914.	2.1	9
20	In vivo Raman measurement of levofloxacin lactate in blood using a nanoparticle-coated optical fiber probe. <i>Biomedical Optics Express</i> , 2016, 7, 810.	2.9	9
21	Distinguishing Cancerous Liver Cells Using Surface-Enhanced Raman Spectroscopy. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 36-43.	1.9	8
22	LED Phototherapy with Gelatin Sponge Promotes Wound Healing in Mice. <i>Photochemistry and Photobiology</i> , 2018, 94, 179-185.	2.5	8
23	The study of ultrasound and iontophoresis on oxaprozin transdermal penetration using surface-enhanced Raman spectroscopy. <i>Drug Delivery and Translational Research</i> , 2020, 10, 83-92.	5.8	7
24	Nonvolatile Metal-Oxide Semiconductor Capacitors with Ru-RuO <sub>x</sub> Composite Nanodots Embedded in Atomic-Layer-Deposited Al <sub>2</sub> O <sub>3</sub> Films. <i>Journal of Electronic Materials</i> , 2010, 39, 1343-1350.	2.2	6
25	Theoretical Analysis of Fiber-Optic Evanescent Wave Sensors. , 2008, , .		5
26	Monitoring Junction Temperature of RF MOSFET under Its Working Condition Using Fiber Bragg Grating. <i>Micromachines</i> , 2022, 13, 463.	2.9	5
27	Fabrication and characteristics of silica optical fiber doped with InP nano-semiconductor material. <i>Optical and Quantum Electronics</i> , 2007, 39, 975-981.	3.3	4
28	Remote detection of the surface-enhanced Raman spectrum with the optical fiber nanoprobe. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014, 116, 575-578.	0.6	4
29	Laser stimulating ST36 with optical fiber induce blood component changes in mice: a Raman spectroscopy study. <i>Journal of Biophotonics</i> , 2018, 11, e201700262.	2.3	3
30	Composition and strain analysis of Si <sub>1-x</sub> Gex core fiber with Raman spectroscopy. <i>AIP Advances</i> , 2018, 8, .	1.3	3
31	Thermal Poling of New Double-Hole Optical Fibers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2176.	2.5	3
32	Rapid and high-precision quantitative analysis based on substrate rotation-enhanced Raman scattering effect. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1278-1285.	2.5	3
33	Influence of Temperature on All-Silica Fabry-Pérot Pressure Sensor. <i>IEEE Photonics Journal</i> , 2021, 13, 1-9.	2.0	3
34	A Micro-displacement Sensor Based on Cladding Mode Resonance of Optical Special Fiber. , 2008, , .		2
35	Surface-enhanced Raman scattering optical fiber sensor using biconical taper fiber. , 2010, , .		2
36	Ag Nanoparticles for the Direct Detection of Oxaprozin in the Blood Using Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Nano Materials</i> , 2020, 3, 5928-5935.	5.0	2

#	ARTICLE	IF	CITATIONS
37	Monitoring the differentiation of dimethyl sulfoxide-induced human leukemia (HL60) cells by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1086-1094.	2.5	2
38	Low-Loss Fiber-Optic Intrinsic Fabry-Perot Micro-Cavity Interferometric Sensor. , 2008, , .		1
39	A biconical taper multi-mode fiber SERS sensor. , 2010, , .		1
40	Excitation and Transmission of 12 OAM Modes in 3.7-km-long Ring Fiber with High Refractive Index Difference. , 2018, , .		1
41	Ultraviolet Irradiation Effects on luminescent Centres in Bismuth-Doped and Bismuth-Erbium Co-Doped Optical Fibers via Atomic Layer Deposition. <i>Electronics (Switzerland)</i> , 2018, 7, 259.	3.1	1
42	A device designed for plant growth with automatic adjustment. , 2018, , .		1
43	Fabry-Perot temperature sensor for quasi-distributed measurement utilizing OTDR. , 2008, , .		0
44	Measurement and Imaging of Raman Spectroscopy with Nanoparticles. <i>Frontiers in Nanobiomedical Research</i> , 2017, , 23-37.	0.1	0
45	Gain property of the few mode Er-doped silica fiber. , 2017, , .		0
46	Luminescence characteristics of PbS semiconductor in silica optical fiber. , 2018, , .		0
47	Effect of the Yb <sup>3+</sup> on fluorescence lifetime of Er-doped silica optical fiber. , 2018, , .		0
48	Influence of Gamma-ray irradiation on the fluorescence lifetime of Bi/Er co-doped fibers. , 2018, , .		0
49	The Raman spectroscopy measurement of interstitial fluid in ST36 acupoint by optical fiber probe. , 2018, , .		0
50	Wide-spectrum properties of Yb: YAG crystal-derived fiber. , 2019, , .		0