

# Zhenyi Chen

## List of Publications by Year in descending order

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50  
papers

519  
citations

687363

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h-index

713466

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g-index

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all docs

51  
docs citations

51  
times ranked

647  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring Junction Temperature of RF MOSFET under Its Working Condition Using Fiber Bragg Grating. <i>Micromachines</i> , 2022, 13, 463.	2.9	5
2	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
3	High-Sensitivity Bending Sensor Based on Supermode Interference in Coupled Four-Core Sapphire-Derived Fiber. <i>Journal of Lightwave Technology</i> , 2021, 39, 3932-3940.	4.6	10
4	Influence of Temperature on All-Silica Fabry-Pérot Pressure Sensor. <i>IEEE Photonics Journal</i> , 2021, 13, 1-9.	2.0	3
5	Raman Spectroscopy Reveals Abnormal Changes in the Urine Composition of Prostate Cancer: An Application of an Intelligent Diagnostic Model with a Deep Learning Algorithm. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000090.	6.1	13
6	The image-based analysis and classification of urine sediments using a LeNet-5 neural network. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 109-114.	1.9	24
7	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
8	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
9	Segmenting nailfold capillaries using an improved U-net network. <i>Microvascular Research</i> , 2020, 130, 104011.	2.5	17
10	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
11	Enhanced FBG Temperature Sensitivity in PbS-Doped Silica Optical Fiber. <i>Journal of Lightwave Technology</i> , 2019, 37, 4902-4907.	4.6	15
12	Surface-enhanced Raman spectroscopy before radical prostatectomy predicts biochemical recurrence better than CAPRA-S. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 431-440.	6.7	17
13	Thermal Poling of New Double-Hole Optical Fibers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2176.	2.5	3
14	Wide-spectrum properties of Yb: YAG crystal-derived fiber. , 2019, , .		0
15	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
16	LED Phototherapy with Gelatin Sponge Promotes Wound Healing in Mice. <i>Photochemistry and Photobiology</i> , 2018, 94, 179-185.	2.5	8
17	Luminescence characteristics of PbS semiconductor in silica optical fiber. , 2018, , .		0
18	Effect of the Yb <sup>3+</sup> on fluorescence lifetime of Er-doped silica optical fiber. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Influence of Gamma-ray irradiation on the fluorescence lifetime of Bi/Er co-doped fibers. , 2018, , .		0
20	Excitation and Transmission of 12 OAM Modes in 3.7-km-long Ring Fiber with High Refractive Index Difference. , 2018, , .		1
21	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
22	Ultraviolet Irradiation Effects on luminescent Centres in Bismuth-Doped and Bismuth-Erbium Co-Doped Optical Fibers via Atomic Layer Deposition. Electronics (Switzerland), 2018, 7, 259.	3.1	1
23	The Raman spectroscopy measurement of interstitial fluid in ST36 acupoint by optical fiber probe. , 2018, , .		0
24	A device designed for plant growth with automatic adjustment. , 2018, , .		1
25	Composition and strain analysis of Si1-xGex core fiber with Raman spectroscopy. AIP Advances, 2018, 8, .	1.3	3
26	Generation of the First-Order OAM Modes in Ring Fibers by Exerting Pressure Technology. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	11
27	Refractive Index Modulation by Crystallization in Sapphire-Derived Fiber. IEEE Photonics Technology Letters, 2017, 29, 723-726.	2.5	12
28	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
29	Measurement and Imaging of Raman Spectroscopy with Nanoparticles. Frontiers in Nanobiomedical Research, 2017, , 23-37.	0.1	0
30	Gain property of the few mode Er-doped silica fiber. , 2017, , .		0
31	SERS Taper-Fiber Nanoprobe Modified by Gold Nanoparticles Wrapped with Ultrathin Alumina Film by Atomic Layer Deposition. Sensors, 2017, 17, 467.	3.8	17
32	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
33	In vivo Raman measurement of levofloxacin lactate in blood using a nanoparticle-coated optical fiber probe. Biomedical Optics Express, 2016, 7, 810.	2.9	9
34	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
35	Distinguishing Cancerous Liver Cells Using Surface-Enhanced Raman Spectroscopy. Technology in Cancer Research and Treatment, 2016, 15, 36-43.	1.9	8
36	SERS detection of expired tetracycline hydrochloride with an optical fiber nano-probe. Analytical Methods, 2015, 7, 1307-1312.	2.7	30

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37	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
38	Gold Nanoparticles-Modified Tapered Fiber Nanoprobe for Remote SERS Detection. IEEE Photonics Technology Letters, 2014, 26, 777-780.	2.5	53
39	Remote detection of the surface-enhanced Raman spectrum with the optical fiber nanoprobe. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 575-578.	0.6	4
40	Dark solitons in nonlocal media with competing nonlinearities. Physical Review A, 2013, 87, .	2.5	32
41	In-Fiber Mach-Zehnder Interferometer Based on Double Cladding Fibers for Refractive Index Sensor. IEEE Sensors Journal, 2011, 11, 2395-2400.	4.7	65
42	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. Journal of Electronic Materials, 2010, 39, 1343-1350.	2.2	6
43	Surface-enhanced Raman scattering optical fiber sensor using biconical taper fiber. , 2010, , .		2
44	A biconical taper multi-mode fiber SERS sensor. , 2010, , .		1
45	Low-Loss Fiber-Optic Intrinsic Fabry-Perot Micro-Cavity Interferometric Sensor. , 2008, , .		1
46	Theoretical Analysis of Fiber-Optic Evanescent Wave Sensors. , 2008, , .		5
47	A Micro-displacement Sensor Based on Cladding Mode Resonance of Optical Special Fiber. , 2008, , .		2
48	Fabry-Perot temperature sensor for quasi-distributed measurement utilizing OTDR. , 2008, , .		0
49	Fabrication and characteristics of silica optical fiber doped with InP nano-semiconductor material. Optical and Quantum Electronics, 2007, 39, 975-981.	3.3	4
50	Study of a dynamic-shape-curve function for a fused tapering optical fiber. Applied Optics, 2006, 45, 6914.	2.1	9