Na Chen

List of Publications by Year in Descending Order

92 papers	1,057 citations	20 h-index	29 g-index
131 ext. papers	1,348 ext. citations	2.8 avg, IF	4.11 L-index

#	Paper	IF	Citations
92	Nailfold Microhemorrhage Segmentation with Modified U-Shape Convolutional Neural Network. *Applied Sciences (Switzerland)*, **2022**, 12, 5068	2.6	
91	Monitoring the differentiation of dimethyl sulfoxide-induced human leukemia (HL-60) cells by Raman spectroscopy. *Journal of Raman Spectroscopy*, **2021**, 52, 1086-1094	2.3	
90	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	4
89	Rapid and high-precision quantitative analysis based on substrate rotation-enhanced Raman scattering effect. *Journal of Raman Spectroscopy*, **2020**, 51, 1278-1285	2.3	1
88	Segmenting nailfold capillaries using an improved U-net network. *Microvascular Research*, **2020**, 130, 104011	3.7	6
87	Ag Nanoparticles for the Direct Detection of Oxaprozin in the Blood Using Surface-Enhanced Raman Spectroscopy. *ACS Applied Nano Materials*, **2020**, 3, 5928-5935	5.6	2
86	Deep convolutional neural networks combine Raman spectral signature of serum for prostate cancer bone metastases screening. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2020**, 29, 102245	6	12
85	3D Printing Technique-Improved Phase-Sensitive OTDR for Breakdown Discharge Detection of Gas-Insulated Switchgear. *Sensors*, **2020**, 20,	3.8	6
84	Sapphire Fabry-Perot interferometer for high-temperature pressure sensing. *Applied Optics*, **2020**, 59, 5189-5196	1.7	14
83	Exceeding 50% slope efficiency DBR fiber laser based on a Yb-doped crystal-derived silica fiber with high gain per unit length. *Optics Express*, **2020**, 28, 23771-23783	3.3	5
82	Study of the Verdet constant of the holmium-doped silica fiber. *OSA Continuum*, **2020**, 3, 1096	1.4	4
81	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	0.9	8
80	The study of ultrasound and iontophoresis on oxaprozin transdermal penetration using surface-enhanced Raman spectroscopy. *Drug Delivery and Translational Research*, **2020**, 10, 83-92	6.2	3
79	Surface-enhanced Raman spectroscopy of preoperative serum samples predicts Gleason grade group upgrade in biopsy Gleason grade group 1 prostate cancer. *Urologic Oncology: Seminars and Original Investigations*, **2020**, 38, 601.e1-601.e9	2.8	2
78	Surface-enhanced Raman spectroscopy before radical prostatectomy predicts biochemical recurrence better than CAPRA-S. *International Journal of Nanomedicine*, **2019**, 14, 431-440	7.3	9
77	The fabrication of a high-sensitivity surface-enhanced Raman spectra substrate using texturization and electroplating technology. *Applied Surface Science*, **2019**, 490, 109-116	6.7	4
76	Thermal Poling of New Double-Hole Optical Fibers. *Applied Sciences (Switzerland)*, **2019**, 9, 2176	2.6	2

75	The Orbital Angular Momentum Fiber Modes for Magnetic Field Sensing. *IEEE Photonics Technology Letters*, **2019**, 31, 893-896	2.2	12
74	Few-mode ring-core quantum dots-doped optical fiber amplifier. *Optical Fiber Technology*, **2019**, 51, 59-63	2.4	5
73	Distributed Vibration Sensor With Laser Phase-Noise Immunity by Phase-Extraction □OTDR. *Photonic Sensors*, **2019**, 9, 223-229	2.3	6
72	All-Fiber Multiplexing and Transmission of High-Order Circularly Polarized Orbital Angular Momentum Modes With Mode Selective Couplers. *IEEE Photonics Journal*, **2019**, 11, 1-9	1.8	6
71	Cylindrical vector modes based Mach-Zehnder interferometer with vortex fiber for sensing applications. *Applied Physics Letters*, **2019**, 115, 051103	3.4	10
70	CO2 laser annealing of Ge core optical fibers with different laser power. *Optical Materials Express*, **2019**, 9, 1333	2.6	13
69	Laser stimulating ST36 with optical fiber induce blood component changes in mice: a Raman spectroscopy study. *Journal of Biophotonics*, **2018**, 11, e201700262	3.1	2
68	Effects of annealing on the residual stresses distribution and the structural properties of Si core fiber. *Optical Fiber Technology*, **2018**, 41, 193-199	2.4	4
67	Composition and strain analysis of Si1-xGex core fiber with Raman spectroscopy. *AIP Advances*, **2018**, 8, 065006	1.5	2
66	Tapered optical fiber deposited with PbS as an optical fiber amplifier based on atomic layer deposition. *Optical Engineering*, **2018**, 57, 1	1.1	0
65	LED Phototherapy with Gelatin Sponge Promotes Wound Healing in Mice. *Photochemistry and Photobiology*, **2018**, 94, 179-185	3.6	3
64	The effect of laser acupuncture on hypoxia tolerance and inflammation reaction in mice with optical fiber acupuncture needle intra body. *Journal of Innovative Optical Health Sciences*, **2017**, 10, 1650039	1.2	1
63	Sol□gel silica glass-cladding semiconductor-core optical fiber. *Materials Today Communications*, **2017**, 11, 179-183	2.5	7
62	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	6	23
61	Laser-induced self-assembly gold nanoparticles on the silanized surface of a tapered fiber and its application as a SERS probe. *Journal of Physics: Conference Series*, **2017**, 844, 012054	0.3	
60	Measurement and Imaging of Raman Spectroscopy with Nanoparticles. *Frontiers in Nanobiomedical Research*, **2017**, 23-37		
59	Surface-enhanced Raman scattering spectra revealing the inter-cultivar differences for Chinese ornamental : a new promising method for plant taxonomy. *Plant Methods*, **2017**, 13, 92	5.8	8
58	The dynamic process of laser drawing germanium core optical fiber. *Journal of Physics: Conference Series*, **2017**, 844, 012058	0.3	2

57	Gold nanoparticles modified double-tapered fiber for SERS detection. *Journal of Physics: Conference Series*, **2017**, 844, 012055	0.3	0
56	Effect of controlling recrystallization from the melt on the residual stress and structural properties of the Silica-clad Ge core fiber. *Optical Fiber Technology*, **2017**, 37, 6-10	2.4	1
55	All-fiber power sensor based on silicon-germanium core fiber F-P cavity. *Journal of Physics: Conference Series*, **2017**, 844, 012036	0.3	1
54	Strain Distribution in Silica-Clad Crystalline-Germanium-Core Fiber. *Journal of Physics: Conference Series*, **2017**, 844, 012059	0.3	
53	Cascaded Mach-Zehnder interferometers in crystallized sapphire-derived fiber for temperature-insensitive filters. *Optical Materials Express*, **2017**, 7, 1406	2.6	10
52	Surface-enhanced Raman spectroscopy of serum accurately detects prostate cancer in patients with prostate-specific antigen levels of 4-10 ng/mL. *International Journal of Nanomedicine*, **2017**, 12, 5399-5407	7.3	31
51	SERS Taper-Fiber Nanoprobe Modified by Gold Nanoparticles Wrapped with Ultrathin Alumina Film by Atomic Layer Deposition. *Sensors*, **2017**, 17,	3.8	12
50	PbS Quantum Dots Filled Photonic Crystal Fiber for All-fiber Amplifier. *Journal of Physics: Conference Series*, **2017**, 844, 012060	0.3	1
49	A Fading-Discrimination Method for Distributed Vibration Sensor Using Coherent Detection of $varphi $ -OTDR. *IEEE Photonics Technology Letters*, **2016**, 28, 2752-2755	2.2	28
48	Distinguishing Cancerous Liver Cells Using Surface-Enhanced Raman Spectroscopy. *Technology in Cancer Research and Treatment*, **2016**, 15, 36-43	2.7	8
47	A Fiber-Optic Sensor for Acoustic Emission Detection in a High Voltage Cable System. *Sensors*, **2016** , 16,	3.8	24
46	In vivo Raman measurement of levofloxacin lactate in blood using a nanoparticle-coated optical fiber probe. *Biomedical Optics Express*, **2016**, 7, 810-5	3.5	5
45	Fabrication of optical fiber sensor based on double-layer SU-8 diaphragm and the partial discharge detection. *Optoelectronics Letters*, **2015**, 11, 61-64	0.7	5
44	Raman spectroscopy measurement of levofloxacin lactate in blood using an optical fiber nano-probe. *Journal of Raman Spectroscopy*, **2015**, 46, 197-201	2.3	23
43	Temperature characteristics of silicon core optical fiber Fabry-Perot interferometer. *Optics Letters*, **2015**, 40, 1362-5	3	25
42	Radiation-induced photoluminescence enhancement of Bi/Al-codoped silica optical fibers via atomic layer deposition. *Optics Express*, **2015**, 23, 29004-13	3.3	24
41	Photoluminescence properties of Bi/Al-codoped silica optical fiber based on atomic layer deposition method. *Applied Surface Science*, **2015**, 349, 287-291	6.7	21
40	SERS detection of expired tetracycline hydrochloride with an optical fiber nano-probe. *Analytical Methods*, **2015**, 7, 1307-1312	3.2	24

39	Carbon-coated magnetic particles increase tissue temperatures after laser irradiation. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1550018	1.2	1
38	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	0.7	3
37	Passively Q-switched erbium-doped fiber laser using evanescent field interaction with gold-nanosphere based saturable absorber. *Optics Express*, **2014**, 22, 18537-42	3.3	71
36	Gold Nanoparticles-Modified Tapered Fiber Nanoprobe for Remote SERS Detection. *IEEE Photonics Technology Letters*, **2014**, 26, 777-780	2.2	38
35	Change in refractive index of muscle tissue during laser-induced interstitial thermotherapy. *Bio-Medical Materials and Engineering*, **2014**, 24, 807-13	1	
34	Characterization of Nb/Al codoped silica fiber by writing long-period gratings with CO2 laser. *Optical Fiber Technology*, **2013**, 19, 519-522	2.4	
33	Fabrication of Ag/Au core-shell nanowire as a SERS substrate. *Optical Materials*, **2013**, 35, 690-692	3.3	23
32	Fabrication and sensing characteristics of tilted long-period fiber gratings **2013**,		2
31	Four-wave mixing stability in hybrid photonic crystal fibers with two zero-dispersion wavelengths. *Optics Express*, **2013**, 21, 30859-73	3.3	5
30	Quasi-Distributed IFPI Sensing System Demultiplexed With FFT-Based Wavelength Tracking Method. *IEEE Sensors Journal*, **2012**, 12, 2875-2880	4	16
29	In vivo experiments of laser thermotherapy on liver tissue with FBG temperature distribution sensor **2012**,		1
28	Fiber-optic intrinsic Fabry-Perot interferometric sensors fabricated by femtosecond lasers **2011**,		3
27	In-Fiber Mach?ehnder Interferometer Based on Double Cladding Fibers for Refractive Index Sensor. *IEEE Sensors Journal*, **2011**, 11, 2395-2400	4	49
26	Surface-enhanced Raman scattering sensor based on fused biconical taper zone of optical fiber. *Journal of Shanghai University*, **2011**, 15, 26-30		3
25	Modified simulated annealing evolutionary algorithm for fully distributed fiber Bragg grating temperature sensing. *Journal of Shanghai University*, **2011**, 15, 58-62		
24	Preparation of gold colloid and its surface-enhanced Raman scattering properties **2011**,		1
23	Fabrication of tilted long-period fiber gratings by CO2 laser **2011**,		3
22	Cladding-mode resonance of a double-cladding fiber at a near modal cut-off wavelength for RI sensing. *Measurement Science and Technology*, **2010**, 21, 094028	2	5

21	Dynamic temperature monitoring and control with fully distributed fiber Bragg grating sensor **2010** ,		2
20	In-series double cladding fibers for simultaneous refractive index and temperature measurement. *Optics Express*, **2010**, 18, 13072-82	3.3	26
19	Surface-enhanced Raman scattering optical fiber sensor using biconical taper fiber **2010**,		2
18	Characteristics of cladding index modulated fiber gratings for ambient refractive index sensing. *Optical Fiber Technology*, **2009**, 15, 90-94	2.4	3
17	Temperature-Insensitivity Bending Sensor Based on Cladding-Mode Resonance of Special Optical Fiber. *IEEE Photonics Technology Letters*, **2009**, 21, 76-78	2.2	39
16	Proposal for Second-Harmonic Generation Based on Mode Coupling in Coaxial Optical Fiber. *IEEE Photonics Technology Letters*, **2009**, 21, 471-473	2.2	1
15	Fiber-optic refractive index sensor based on cladding-mode resonance **2009**,		1
14	In-fiber Michelson interferometer based on double-cladding fiber for refractive index sensing **2009**,		1
13	Low-Loss Fiber-Optic Intrinsic Fabry-Perot Micro-Cavity Interferometric Sensor **2008**,		1
12	Temperature sensor using an optical fiber coupler with a thin film. *Applied Optics*, **2008**, 47, 3530-4	1.7	35
11	Special optical fiber for temperature sensing based on cladding-mode resonance. *Optics Express*, **2008**, 16, 12967-72	3.3	36
10	Highly sensitive liquid level sensor based on etched fiber Bragg grating. *Proceedings of SPIE*, **2008**,	1.7	8
9	A Micro-displacement Sensor Based on Cladding Mode Resonance of Optical Special Fiber **2008**,		2
8	Cladding Mode Resonance Based Fiber for Temperature Measurement **2008**,		1
7	Effects of distributed birefringence on fiber Bragg grating under non-uniform transverse load. *Optics and Laser Technology*, **2008**, 40, 1037-1040	4.2	11
6	Use of Fiber Bragg Grating Sensors for Determination of a Simply Supported Rectangular Plane Plate Deformation. *IEEE Photonics Technology Letters*, **2007**, 19, 1242-1244	2.2	9
5	Highly Sensitive Liquid-Level Sensor Based on Etched Fiber Bragg Grating. *IEEE Photonics Technology Letters*, **2007**, 19, 1747-1749	2.2	118
4	Theoretical and experimental study on etched fiber Bragg grating cladding mode resonances for ambient refractive index sensing. *Journal of the Optical Society of America B: Optical Physics*, **2007**, 24, 439	1.7	26

3	Characterization of a high birefringence fibre Bragg grating sensor subjected to non-homogeneous transverse strain fields. *Measurement Science and Technology*, **2006**, 17, 939-942	2	16
2	Cladding mode resonances of etch-eroded fiber Bragg grating for ambient refractive index sensing. *Applied Physics Letters*, **2006**, 88, 133902	3.4	51
1	Cladding index modulated fiber grating. *Optics Communications*, **2006**, 259, 587-591	2	9