Ping Shum

List of Publications by Citations

647 papers	11,090 citations	49 h-index	68 g-index
855 ext. papers	13,711 ext. citations	2.9 avg, IF	6.34 L-index

#	Paper	IF	Citations
647	Temperature-insensitive strain sensor with polarization-maintaining photonic crystal fiber based Sagnac interferometer. *Applied Physics Letters*, **2007**, 90, 151113	3.4	273
646	A selectively coated photonic crystal fiber based surface plasmon resonance sensor. *Journal of Optics (United Kingdom)*, **2010**, 12, 015005	1.7	160
645	Refractive index sensor using microfiber-based Mach-Zehnder interferometer. *Optics Letters*, **2012**, 37, 67-9	3	144
644	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. *Nano Letters*, **2019**, 19, 4035-4042	11.5	128
643	Measurements of refractive index sensitivity using long-period grating refractometer. *Optics Communications*, **2004**, 229, 65-69	2	123
642	Tunable and switchable dual-wavelength Tm-doped mode-locked fiber laser by nonlinear polarization evolution. *Optics Express*, **2015**, 23, 4369-76	3.3	112
641	Highly sensitive refractive index sensor based on cascaded microfiber knots with Vernier effect. *Optics Express*, **2015**, 23, 6662-72	3.3	101
640	Long period grating cascaded to photonic crystal fiber modal interferometer for simultaneous measurement of temperature and refractive index. *Optics Letters*, **2012**, 37, 2283-5	3	96
639	Cascaded fiber-optic Fabry-Perot interferometers with Vernier effect for highly sensitive measurement of axial strain and magnetic field. *Optics Express*, **2014**, 22, 19581-8	3.3	92
638	Nanostructural zinc oxide and its electrical and optical properties. *Journal of Applied Physics*, **2004**, 95, 661-666	2.5	90
637	Refractive index sensing based on higher-order mode reflection of a microfiber Bragg grating. *Optics Express*, **2010**, 18, 26345-50	3.3	87
636	Measurement of a Topological Edge Invariant in a Microwave Network. *Physical Review X*, **2015**, 5,	9.1	85
635	Single-Longitudinal-Mode Erbium-Doped Fiber Ring Laser Based on High Finesse Fiber Bragg Grating Fabry□Pérot Etalon. *IEEE Photonics Technology Letters*, **2008**, 20, 976-978	2.2	84
634	Strain-insensitive and high-temperature long-period gratings inscribed in photonic crystal fiber. *Optics Letters*, **2005**, 30, 367-9	3	80
633	Ultrawideband monocycle generation using cross-phase modulation in a semiconductor optical amplifier. *Optics Letters*, **2007**, 32, 1223-5	3	77
632	Thermally drawn advanced functional fibers: New frontier of flexible electronics. *Materials Today*, **2020**, 35, 168-194	21.8	74
631	High-energy laser pulse with a submegahertz repetition rate from a passively mode-locked fiber laser. *Optics Letters*, **2009**, 34, 1432-4	3	72

630	Review of diverse optical fibers used in biomedical research and clinical practice. *Journal of Biomedical Optics*, **2014**, 19, 080902	3.5	70
629	Fabrication and Characterization of a Highly Temperature Sensitive Device Based on Nematic Liquid Crystal-Filled Photonic Crystal Fiber. *IEEE Photonics Journal*, **2012**, 4, 1248-1255	1.8	69
628	Multiwavelength Raman fiber laser with a continuously-tunable spacing. *Optics Express*, **2006**, 14, 3288-93	3.3	69
627	Stable room-temperature multi-wavelength lasing realization in ordinary erbium-doped fiber loop lasers. *Optics Express*, **2006**, 14, 9293-8	3.3	69
626	Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *IEEE Sensors Journal*, **2013**, 13, 2214-2216	4	68
625	Magnetic field sensor using tilted fiber grating interacting with magnetic fluid. *Optics Express*, **2013**, 21, 17863-8	3.3	64
624	Single-wall carbon nanotubes and graphene oxide-based saturable absorbers for low phase noise mode-locked fiber lasers. *Scientific Reports*, **2016**, 6, 25266	4.9	62
623	Optical fiber magnetic field sensor based on magnetic fluid and microfiber mode interferometer. *Optics Communications*, **2015**, 336, 5-8	2	61
622	Highly sensitive SERS detection and quantification of sialic acid on single cell using photonic-crystal fiber with gold nanoparticles. *Biosensors and Bioelectronics*, **2015**, 64, 227-33	11.8	59
621	Exceptional points in a non-Hermitian topological pump. *Physical Review B*, **2017**, 95,	3.3	59
620	Temperature Sensor by Using Selectively Filled Photonic Crystal Fiber Sagnac Interferometer. *IEEE Photonics Journal*, **2012**, 4, 1801-1808	1.8	58
619	Ultrafast All-Optical Signal Processing Based on Single Semiconductor Optical Amplifier and Optical Filtering. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 770-778	3.8	57
618	A simplified model and optimal design of a multiwavelength backward-pumped fiber Raman amplifier. *IEEE Photonics Technology Letters*, **2001**, 13, 945-947	2.2	57
617	Low-loss all-solid photonic bandgap fiber. *Optics Letters*, **2007**, 32, 1023-5	3	56
616	A novel temperature-insensitive fiber Bragg grating sensor for displacement measurement. *Smart Materials and Structures*, **2005**, 14, N7-N10	3.4	56
615	Photonic crystal fiber tip interferometer for refractive index sensing. *Optics Letters*, **2012**, 37, 1373-5	3	55
614	Temperature-insensitive tilt sensor with strain-chirped fiber Bragg gratings. *IEEE Photonics Technology Letters*, **2005**, 17, 2394-2396	2.2	54
613	Theoretical Study of Dual-Core Photonic Crystal Fibers With Metal Wire. *IEEE Photonics Journal*, **2012**, 4, 1178-1187	1.8	53

612	An optically tunable wideband optoelectronic oscillator based on a bandpass microwave photonic filter. *Optics Express*, **2013**, 21, 16381-9	3.3	53
611	Directional torsion and temperature discrimination based on a multicore fiber with a helical structure. *Optics Express*, **2018**, 26, 544-551	3.3	52
610	Ultrathin graphene diaphragm-based extrinsic Fabry-Perot interferometer for ultra-wideband fiber optic acoustic sensing. *Optics Express*, **2018**, 26, 20758-20767	3.3	52
609	High-sensitivity birefringent and single-layer coating photonic crystal fiber biosensor based on surface plasmon resonance. *Applied Optics*, **2018**, 57, 1883-1886	1.7	51
608	Fiber Cavity Ring-Down Refractive Index Sensor. *IEEE Photonics Technology Letters*, **2008**, 20, 1351-1353	2.2	51
607	Sensitivity Enhancement in Surface Plasmon Resonance Biochemical Sensor Based on Transition Metal Dichalcogenides/Graphene Heterostructure. *Sensors*, **2018**, 18,	3.8	50
606	Secure OFDM-PON System Based on Chaos and Fractional Fourier Transform Techniques. *Journal of Lightwave Technology*, **2014**, 32, 2629-2635	4	50
605	. *IEEE Photonics Technology Letters*, **2009**, 21, 1069-1071	2.2	50
604	Thermally tunable narrow-bandpass filter based on a linearly chirped fiber Bragg grating. *Optics Letters*, **2004**, 29, 29-31	3	50
603	Twist sensor based on axial strain insensitive distributed Bragg reflector fiber laser. *Optics Express*, **2012**, 20, 2844-50	3.3	49
602	Photonic-assisted microwave frequency measurement with higher resolution and tunable range. *Optics Letters*, **2009**, 34, 743-5	3	49
601	Photonic generation of tunable microwave signals by beating a dual-wavelength single longitudinal mode fiber ring laser. *Applied Physics B: Lasers and Optics*, **2008**, 91, 99-103	1.9	49
600	Polarization dependent guiding in liquid crystal filled photonic crystal fibers. *Optics Communications*, **2008**, 281, 1598-1606	2	49
599	Deep-notch, ultracompact long-period grating in a large-mode-area photonic crystal fiber. *Optics Letters*, **2003**, 28, 2467-9	3	49
598	Fiber Bragg gratings in heterogeneous multicore fiber for directional bending sensing. *Journal of Optics (United Kingdom)*, **2016**, 18, 085705	1.7	49
597	Side-channel photonic crystal fiber for surface enhanced Raman scattering sensing. *Sensors and Actuators B: Chemical*, **2016**, 223, 195-201	8.5	48
596	Highly sensitive strain sensor based on helical structure combined with Mach-Zehnder interferometer in multicore fiber. *Scientific Reports*, **2017**, 7, 46633	4.9	48
595	Security-Enhanced OFDM-PON Using Hybrid Chaotic System. *IEEE Photonics Technology Letters*, **2015**, 27, 326-329	2.2	48

594	Photonic measurement of microwave frequency based on phase modulation. *Optics Express*, **2009**, 17, 7217-21	3.3	48
593	Theoretical analysis of modulation response and second-order harmonic distortion in vertical-cavity surface-emitting lasers. *IEEE Journal of Quantum Electronics*, **1996**, 32, 2139-2147	2	48
592	Experimental demonstration of large capacity WSDM optical access network with multicore fibers and advanced modulation formats. *Optics Express*, **2015**, 23, 10997-1006	3.3	47
591	Design and fabrication of elliptical-core few-mode fiber for MIMO-less data transmission. *Optics Letters*, **2016**, 41, 3058-61	3	46
590	All-solid multi-core fiber-based multipath Mach–Zehnder interferometer for temperature sensing. *Applied Physics B: Lasers and Optics*, **2013**, 112, 491-497	1.9	46
589	Novel Miniaturized Fabry–Perot Refractometer Based on a Simplified Hollow-Core Fiber With a Hollow Silica Sphere Tip. *IEEE Sensors Journal*, **2012**, 12, 1239-1245	4	46
588	Simultaneous measurement of relative humidity and temperature with PCF-MZI cascaded by fiber Bragg grating. *Optics Communications*, **2013**, 303, 42-45	2	46
587	High-energy wave-breaking-free pulse from all-fiber mode-locked laser system. *Optics Express*, **2009**, 17, 7222-7	3.3	46
586	Multi-wavelength linear-cavity tunable fiber laser using a chirped fiber Bragg grating and a few-mode fiber Bragg grating. *Optics Express*, **2005**, 13, 5614-20	3.3	46
585	Bidirectional passively mode-locked soliton fiber laser with a four-port circulator. *Optics Letters*, **2011**, 36, 2089-91	3	45
584	Heterogeneous all-solid multicore fiber based multipath Michelson interferometer for high temperature sensing. *Optics Express*, **2016**, 24, 20210-8	3.3	45
583	Intensity-modulated magnetic field sensor based on magnetic fluid and optical fiber gratings. *Applied Physics Letters*, **2013**, 103, 183511	3.4	44
582	Widely tunable Tm-doped mode-locked all-fiber laser. *Scientific Reports*, **2016**, 6, 27245	4.9	43
581	Photonic ultrawideband monocycle pulse generation using a single electro-optic modulator. *Optics Letters*, **2008**, 33, 288-90	3	43
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579	Wavelength-selective all-fiber filter based on a single long-period fiber grating and a misaligned splicing point. *Optics Communications*, **2006**, 258, 159-163	2	42
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577	Hybrid Graphene/Gold Plasmonic Fiber-Optic Biosensor. *Advanced Materials Technologies*, **2017**, 2, 1600185	6.8	41

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575	. *IEEE Photonics Journal*, **2015**, 7, 1-10	1.8	41
574	Design for broadband high-efficiency grating couplers. *Optics Letters*, **2012**, 37, 530-2	3	41
573	A largely tunable CFBG-based dispersion compensator with fixed center wavelength. *Optics Express* , **2003**, 11, 2970-4	3.3	41
572	Simple and compact reflective refractometer based on tilted fiber Bragg grating inscribed in thin-core fiber. *Optics Letters*, **2014**, 39, 22-5	3	40
571	Reflective liquid level sensor based on modes conversion in thin-core fiber incorporating titled fiber Bragg grating. *Optics Express*, **2014**, 22, 11834-9	3.3	40
570	Output power characteristics of tunable erbium-doped fiber ring lasers. *Journal of Lightwave Technology*, **2005**, 23, 1334-1341	4	40
569	Temperature-insensitive fiber Bragg grating accelerometer. *IEEE Photonics Technology Letters*, **2003**, 15, 1437-1439	2.2	40
568	Switching dynamics of short optical pulses in a nonlinear directional coupler. *IEEE Journal of Quantum Electronics*, **1999**, 35, 79-83	2	40
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566	Phase sensitive SPR sensor for wide dynamic range detection. *Optics Letters*, **2011**, 36, 4092-4	3	39
565	A stable dual-wavelength fiber laser with tunable wavelength spacing using a polarization-maintaining linear cavity. *Applied Physics B: Lasers and Optics*, **2005**, 81, 807-811	1.9	39
564	Microfiber Fabry-Perot interferometer fabricated by taper-drawing technique and its application as a radio frequency interrogated refractive index sensor. *Optics Letters*, **2012**, 37, 2925-7	3	38
563	Temperature-insensitive accelerometer based on a strain-chirped FBG. *Sensors and Actuators A: Physical*, **2010**, 157, 15-18	3.9	38
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561	Linear cavity erbium-doped fiber laser with over 100 nm tuning range. *Optics Express*, **2003**, 11, 1689-94	3.3	37
560	Performance-Enhanced Direct Detection Optical OFDM Transmission With CAZAC Equalization. *IEEE Photonics Technology Letters*, **2015**, 27, 1507-1510	2.2	35
559	Sensitivity-enhanced fiber optic temperature sensor with strain response suppression. *Optical Fiber Technology*, **2013**, 19, 289-292	2.4	35

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557	Electron-Rich Two-Dimensional Molybdenum Trioxides for Highly Integrated Plasmonic Biosensing. *ACS Photonics*, **2018**, 5, 347-352	6.3	35
556	Dual spectrometer system with spectral compounding for 1-□m optical coherence tomography in vivo. *Optics Letters*, **2014**, 39, 6727-30	3	34
555	Low-loss air-core polarization maintaining terahertz fiber. *Optics Express*, **2008**, 16, 13593-8	3.3	34
554	40 Gb/s all-optical NRZ to RZ format conversion using single SOA assisted by optical bandpass filter. *Optics Express*, **2007**, 15, 2907-14	3.3	34
553	Passive mode locking at harmonics of the free spectral range of the intracavity filter in a fiber ring laser. *Optics Letters*, **2005**, 30, 2852-4	3	34
552	. *IEEE Photonics Technology Letters*, **2003**, 15, 942-944	2.2	34
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550	Ultra-sensitive chemical and biological analysis via specialty fibers with built-in microstructured optofluidic channels. *Lab on A Chip*, **2018**, 18, 655-661	7.2	33
549	An optical fiber network oracle for NP-complete problems. *Light: Science and Applications*, **2014**, 3, e147-e147	16.7	33
548	Improved location algorithm for multiple intrusions in distributed Sagnac fiber sensing system. *Optics Express*, **2014**, 22, 7587-97	3.3	33
547	Dispersion-flattened polarization-maintaining photonic crystal fiber for nonlinear applications. *Optics Communications*, **2009**, 282, 4072-4076	2	33
546	Ultra-wideband pulse generation with flexible pulse shape and polarity control using a Sagnac-interferometer-based intensity modulator. *Optics Express*, **2007**, 15, 18156-61	3.3	33
545	In-line optofluidic refractive index sensing in a side-channel photonic crystal fiber. *Optics Express*, **2016**, 24, 27674-27682	3.3	33
544	Ultra-Low-Loss High-Contrast Gratings Based Spoof Surface Plasmonic Waveguide. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 2008-2018	4.1	32
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542	An efficient approach for investigating surface plasmon resonance in asymmetric optical fibers based on birefringence analysis. *Optics Express*, **2010**, 18, 17950-7	3.3	32
541	A Selectable Multiband Bandpass Microwave Photonic Filter. *IEEE Photonics Journal*, **2013**, 5, 5500509-5500509	1.8	31

540	Pulse-train nonuniformity in a fiber soliton ring laser mode-locked by using the nonlinear polarization rotation technique. *Physical Review A*, **2004**, 69,	2.6	31
539	Sensitivity-controllable refractive index sensor based on reflective □shaped microfiber resonator cooperated with Vernier effect. *Scientific Reports*, **2017**, 7, 9620	4.9	30
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537	A Wavelength-Switchable Passively Harmonically Mode-Locked Fiber Laser With Low Pumping Threshold Using Single-Walled Carbon Nanotubes. *IEEE Photonics Technology Letters*, **2010**, 22, 754-756	2.2	30
536	Temperature-Insensitive 2-D Pendulum Clinometer Using Two Fiber Bragg Gratings. *IEEE Photonics Technology Letters*, **2010**, 22, 863-865	2.2	30
535	Simultaneous wavelength and frequency encoded microstructure based quasi-distributed temperature sensor. *Optics Express*, **2012**, 20, 12076-84	3.3	30
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531	Instantaneous Microwave Frequency Measurement Based on Amplified Fiber-Optic Recirculating Delay Loop and BroadBand Incoherent Light Source. *Journal of Lightwave Technology*, **2011**, 29, 78-84	4	29
530	Nonlinear Polarization Rotation in Semiconductor Optical Amplifiers With Linear Polarization Maintenance. *IEEE Photonics Technology Letters*, **2007**, 19, 1931-1933	2.2	29
529	A performance analysis of an all-optical clock extraction circuit based on Fabry-Perot filter. *Journal of Lightwave Technology*, **2001**, 19, 603-613	4	29
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518	An Ultra-Sensitive Magnetic Field Sensor Based on Extrinsic Fiber-Optic Fabry–Perot Interferometer and Terfenol-D. *Journal of Lightwave Technology*, **2015**, 33, 3332-3337	4	26
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516	Harmonic and single pulse operation of a Raman laser using graphene. *Laser Physics Letters*, **2012**, 9, 223-228	1.5	26
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511	Multicore-Fiber-Enabled WSDM Optical Access Network With Centralized Carrier Delivery and RSOA-Based Adaptive Modulation. *IEEE Photonics Journal*, **2015**, 7, 1-9	1.8	25
510	Microfiber Fabry–Perot Interferometer for Dual-Parameter Sensing. *Journal of Lightwave Technology*, **2013**, 31, 1608-1615	4	25
509	A Simple Nanometeric Plasmonic Narrow-Band Filter Structure Based on Metal–Insulator–Metal Waveguide. *IEEE Nanotechnology Magazine*, **2011**, 10, 1371-1376	2.6	25
508	Bandwidth-tunable filter and spacing-tunable comb filter with chirped-fiber Bragg gratings. *Optics Communications*, **2006**, 259, 645-648	2	25
507	Regimes of operation states in passively mode-locked fiber soliton ring laser. *Optics and Laser Technology*, **2004**, 36, 299-307	4.2	25
506	Performance of optical chaotic communication systems using multimode vertical cavity surface emitting lasers. *Optics Communications*, **2001**, 200, 143-152	2	25
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502	Rational Construction of Self-Standing Sulfur-Doped Fe2O3 Anodes with Promoted Energy Storage Capability for Wearable Aqueous Rechargeable NiCo-Fe Batteries. *Advanced Energy Materials*, **2020**, 10, 2001064	21.8	24
501	Nyquist WDM superchannel using offset-16QAM and receiver-side digital spectral shaping. *Optics Express*, **2014**, 22, 17448-57	3.3	24
500	Multiwavelength Brillouin-Erbium Random Fiber Laser Incorporating a Chirped Fiber Bragg Grating. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 294-298	3.8	24
499	Supermode Bragg grating combined Mach-Zehnder interferometer for temperature-strain discrimination. *Optics Express*, **2015**, 23, 33001-7	3.3	24
498	Observation of timing jitter reduction induced by spectral filtering in a fiber laser mode locked with a carbon nanotube-based saturable absorber. *Optics Letters*, **2010**, 35, 2320-2	3	24
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487	Polarization Maintaining Air-Core Bandgap Fibers for Terahertz Wave Guiding. *IEEE Journal of Quantum Electronics*, **2009**, 45, 506-513	2	23

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485	Dual-loop optical buffer (DLOB) based on a 3 /spl times/ 3 collinear fiber coupler. *IEEE Photonics Technology Letters*, **2004**, 16, 2129-2131	2.2	23
484	Effects of active fiber length on the tunability of erbium-doped fiber ring lasers. *Optics Express*, **2003**, 11, 3622-7	3.3	23
483	Sensing and lasing applications of whispering gallery mode microresonators. *Opto-Electronic Advances*, **2018**, 1, 18001501-18001510	6.5	23
482	Azimuthally Polarized Radial Emission from a Quantum Dot Fiber Laser. *ACS Photonics*, **2016**, 3, 2275-2279	6.3	23
481	Magnetic Field Sensor Based on Magnetic Fluid-Infiltrated Phase-Shifted Fiber Bragg Grating. *IEEE Sensors Journal*, **2018**, 18, 4008-4012	4	22
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