Xinliang Zhang

List of Publications by Citations

598 papers	6,963 citations	37 h-index	50 g-index
870 ext. papers	9,228 ext. citations	3.4 avg, IF	6.26 L-index

#	Paper	IF	Citations
598	All-optical AND gate at 10 Gbit/s based on cascaded single-port-couple SOAs. *Optics Express*, **2004**, 12, 361-6	3.3	102
597	Metal□Oxide□Semiconductor-Structured MgZnO Ultraviolet Photodetector with High Internal Gain. *Journal of Physical Chemistry C*, **2010**, 114, 7169-7172	3.8	97
596	Single-crystalline cubic MgZnO films and their application in deep-ultraviolet optoelectronic devices. *Applied Physics Letters*, **2009**, 95, 131113	3.4	94
595	Refractive index sensing based on higher-order mode reflection of a microfiber Bragg grating. *Optics Express*, **2010**, 18, 26345-50	3.3	87
594	Orbital angular momentum complex spectrum analyzer for vortex light based on the rotational Doppler effect. *Light: Science and Applications*, **2017**, 6, e16251	16.7	84
593	Bandwidth and wavelength-tunable optical bandpass filter based on silicon microring-MZI structure. *Optics Express*, **2011**, 19, 6462-70	3.3	80
592	Ultrawideband monocycle generation using cross-phase modulation in a semiconductor optical amplifier. *Optics Letters*, **2007**, 32, 1223-5	3	77
591	Integrated switchable mode exchange for reconfigurable mode-multiplexing optical networks. *Optics Letters*, **2016**, 41, 3257-60	3	71
590	Ultra-compact bent multimode silicon waveguide with ultralow inter-mode crosstalk. *Optics Letters*, **2017**, 42, 3004-3007	3	62
589	High-speed all-optical differentiator based on a semiconductor optical amplifier and an optical filter. *Optics Letters*, **2007**, 32, 1872-4	3	62
588	Universal multimode waveguide crossing based on transformation optics. *Optica*, **2018**, 5, 1549	8.6	62
587	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
586	Simultaneous demonstration on all-optical digital encoder and comparator at 40 Gb/s with semiconductor optical amplifiers. *Optics Express*, **2007**, 15, 15080-5	3.3	57
585	Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. *Physical Review Letters*, **2018**, 120, 133901	7.4	56
584	Novel slow light waveguide with controllable delay-bandwidth product and utra-low dispersion. *Optics Express*, **2010**, 18, 5942-50	3.3	56
583	Ultrafast all-optical three-input Boolean XOR operation for differential phase-shift keying signals using periodically poled lithium niobate. *Optics Letters*, **2008**, 33, 1419-21	3	56
582	An optically tunable wideband optoelectronic oscillator based on a bandpass microwave photonic filter. *Optics Express*, **2013**, 21, 16381-9	3.3	53

581	Comparison analysis of optical frequency comb generation with nonlinear effects in highly nonlinear fibers. *Optics Express*, **2013**, 21, 8508-20	3.3	52
580	All-optical tuning of a magnetic-fluid-filled optofluidic ring resonator. *Lab on A Chip*, **2014**, 14, 3004-10	7.2	48
579	Integrated dual-mode 3 dB power coupler based on tapered directional coupler. *Scientific Reports*, **2016**, 6, 23516	4.9	48
578	A Continuously Tunable Sub-Gigahertz Microwave Photonic Bandpass Filter Based on an Ultra-High-Q Silicon Microring Resonator. *Journal of Lightwave Technology*, **2018**, 36, 4312-4318	4	48
577	Improvement of delay-bandwidth product in photonic crystal slow-light waveguides. *Optics Express*, **2010**, 18, 16309-19	3.3	47
576	Multidimensional Manipulation of Photonic Spin Hall Effect with a Single-Layer Dielectric Metasurface. *Advanced Optical Materials*, **2019**, 7, 1801365	8.1	47
575	On-chip data exchange for mode division multiplexed signals. *Optics Express*, **2016**, 24, 528-35	3.3	46
574	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. *Science*, **2021**, 373, 1353-1358	33.3	46
573	Optical nonreciprocity in asymmetric optomechanical couplers. *Scientific Reports*, **2015**, 5, 8657	4.9	44
572	Ultrahigh-speed all-optical half adder based on four-wave mixing in semiconductor optical amplifier. *Optics Express*, **2006**, 14, 11839-47	3.3	44
571	Theoretical analysis and experimental verification on optical rotational Doppler effect. *Optics Express*, **2016**, 24, 10050-6	3.3	43
570	40 Gb/s all-optical logic NOR and OR gates using a semiconductor optical amplifier: Experimental demonstration and theoretical analysis. *Optics Communications*, **2008**, 281, 1710-1715	2	42
569	A proposal for two-input arbitrary Boolean logic gates using single semiconductor optical amplifier by picosecond pulse injection. *Optics Express*, **2009**, 17, 7725-30	3.3	41
568	Compact Notch Microwave Photonic Filters Using On-Chip Integrated Microring Resonators. *IEEE Photonics Journal*, **2013**, 5, 5500307-5500307	1.8	40
567	PPLN-Based Flexible Optical Logic and Gate. *IEEE Photonics Technology Letters*, **2008**, 20, 211-213	2.2	40
566	All-optical ultrawideband monocycle generation utilizing gain saturation of a dark return-to-zero signal in a semiconductor optical amplifier. *Optics Letters*, **2007**, 32, 2158-60	3	40
565	Photonic generation of a microwave signal by incorporating a delay interferometer and a saturable absorber. *Optics Letters*, **2008**, 33, 554-6	3	38
564	Dual-pump Kerr Micro-cavity Optical Frequency Comb with varying FSR spacing. *Scientific Reports*, **2016**, 6, 28501	4.9	38

563	Deterministic generation and switching of dissipative Kerr soliton in a thermally controlled micro-resonator. *AIP Advances*, **2019**, 9, 025314	1.5	38
562	Ultrahigh-Q microwave photonic filter with Vernier effect and wavelength conversion in a cascaded pair of active loops. *Optics Letters*, **2010**, 35, 1242-4	3	37
561	On-chip multiplexing conversion between wavelength division multiplexing-polarization division multiplexing and wavelength division multiplexing-mode division multiplexing. *Optics Letters*, **2014**, 39, 758-61	3	36
560	Triangular-shaped pulse generation based on self-convolution of a rectangular-shaped pulse. *Optics Letters*, **2014**, 39, 2258-61	3	36
559	Slow light in an alternative row of ellipse-hole photonic crystal waveguide. *Applied Optics*, **2013**, 52, 1155-60	1.7	36
558	Reconfigurable All-Optical Logic Gates for Multi-Input Differential Phase-Shift Keying Signals: Design and Experiments. *Journal of Lightwave Technology*, **2009**, 27, 5268-5275	4	36
557	Single-longitudinal-mode fiber ring laser using fiber grating-based Fabry-Perot filters and variable saturable absorbers. *Optics Communications*, **2006**, 267, 177-181	2	36
556	On-chip WDM mode-division multiplexing interconnection with optional demodulation function. *Optics Express*, **2015**, 23, 32130-8	3.3	34
555	. *IEEE Photonics Technology Letters*, **2010**, 22, 844-846	2.2	34
554	Investigation of Patterning Effects in Ultrafast SOA-Based Optical Switches. *IEEE Journal of Quantum Electronics*, **2010**, 46, 87-94	2	34
553	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
552	All-Optical Tunable Microlaser Based on an Ultrahigh-Q Erbium-Doped Hybrid Microbottle Cavity. *ACS Photonics*, **2018**, 5, 3794-3800	6.3	33
551	Ultra-compact waveguide crossing for a mode-division multiplexing optical network. *Optics Letters*, **2017**, 42, 4913-4916	3	33
550	N-dimentional multiplexing link with 1.036-Pbit/s transmission capacity and 112.6-bit/s/Hz spectral efficiency using OFDM-8QAM signals over 368 WDM pol-muxed 26 OAM modes **2014**,		33
549	All-optical differentiator based on cross-gain modulation in semiconductor optical amplifier. *Optics Letters*, **2007**, 32, 3029-31	3	33
548	Two-dimensional grating coupler with a low polarization dependent loss of 0.25 dB covering the C-band. *Optics Letters*, **2016**, 41, 4206-9	3	33
547	Coherent emission of light using stacked gratings. *Physical Review B*, **2013**, 87,	3.3	32
546	All-optical UWB generation and modulation using SOA-XPM effect and DWDM-based multi-channel frequency discrimination. *Optics Express*, **2010**, 18, 24588-94	3.3	31

545	Switchable microwave photonic filter between high Q bandpass filter and notch filter with flat passband based on phase modulation. *Optics Express*, **2010**, 18, 25271-82	3.3	31
544	High-order photonic differentiator employing on-chip cascaded microring resonators. *Optics Letters* , **2013**, 38, 628-30	3	30
543	Multi-channel WDM RZ-to-NRZ format conversion at 50 Gbit/s based on single silicon microring resonator. *Optics Express*, **2010**, 18, 21121-30	3.3	30
542	An ultra-low crosstalk and broadband two-mode (de)multiplexer based on adiabatic couplers. *Scientific Reports*, **2016**, 6, 38494	4.9	30
541	All-optical differential equation solver with constant-coefficient tunable based on a single microring resonator. *Scientific Reports*, **2014**, 4, 5581	4.9	29
540	Single SOA based 16 DWDM channels all-optical NRZ-to-RZ format conversions with different duty cycles. *Optics Express*, **2008**, 16, 16166-71	3.3	29
539	Wideband tunable optoelectronic oscillator based on a microwave photonic filter with an ultra-narrow passband. *Optics Letters*, **2018**, 43, 2328-2331	3	28
538	Generation of Terahertz Vortices Using Metasurface With Circular Slits. *IEEE Photonics Journal*, **2014**, 6, 1-7	1.8	28
537	All-optical computation system for solving differential equations based on optical intensity differentiator. *Optics Express*, **2013**, 21, 7008-13	3.3	28
536	Highly efficient phase-matched second harmonic generation using an asymmetric plasmonic slot waveguide configuration in hybrid polymer-silicon photonics. *Optics Express*, **2013**, 21, 14876-87	3.3	28
535	Single SOA based all-optical adder assisted by optical bandpass filter: Theoretical analysis and performance optimization. *Optics Communications*, **2007**, 270, 238-246	2	28
534	High-contrast and low-power all-optical switch using Fano resonance based on a silicon nanobeam cavity. *Optics Letters*, **2018**, 43, 5977-5980	3	28
533	Efficient Optical Angular Momentum Manipulation for Compact Multiplexing and Demultiplexing Using a Dielectric Metasurface. *Advanced Optical Materials*, **2020**, 8, 1901666	8.1	27
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531	Compact, flexible and versatile photonic differentiator using silicon Mach-Zehnder interferometers. *Optics Express*, **2013**, 21, 7014-24	3.3	27
530	Advances in soliton microcomb generation. *Advanced Photonics*, **2020**, 2, 1	8.1	27
529	Efficient spot size converter for higher-order mode fiber-chip coupling. *Optics Letters*, **2017**, 42, 3702-3705	3	26
528	Dynamic interferometry measurement of orbital angular momentum of light. *Optics Letters*, **2014**, 39, 6058-61	3	26

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526	A tunable and switchable single-longitudinal-mode dual-wavelength fiber laser incorporating a reconfigurable dual-pass Mach–Zehnder interferometer and its application in microwave generation. *Optics Communications*, **2011**, 284, 2337-2340	2	26
525	Tunable Slow Light Based on Plasmon-Induced Transparency in Dual-Stub-Coupled Waveguide. *IEEE Photonics Technology Letters*, **2015**, 27, 89-92	2.2	25
524	Silicon-on-insulator-based microwave photonic filter with narrowband and ultrahigh peak rejection. *Optics Letters*, **2018**, 43, 1359-1362	3	25
523	Wideband and Compact TE-Pass/TM-Stop Polarizer Based on a Hybrid Plasmonic Bragg Grating for Silicon Photonics. *Journal of Lightwave Technology*, **2014**, 32, 1383-1386	4	25
522	Single step etched two dimensional grating coupler based on the SOI platform. *Optics Express*, **2015** , 23, 32490-5	3.3	25
521	All-Optical Canonical Logic Units-Based Programmable Logic Array (CLUs-PLA) Using Semiconductor Optical Amplifiers. *Journal of Lightwave Technology*, **2012**, 30, 3532-3539	4	25
520	Phase regeneration of phase-shift keying signals in highly nonlinear hybrid plasmonic waveguides. *Optics Letters*, **2013**, 38, 848-50	3	25
519	All-Optical Format Conversion From RZ to NRZ Utilizing Microfiber Resonator. *IEEE Photonics Technology Letters*, **2009**, 21, 1202-1204	2.2	25
518	De-multiplexing free on-chip low-loss multimode switch enabling reconfigurable inter-mode and inter-path routing. *Nanophotonics*, **2018**, 7, 1571-1580	6.3	25
517	Monolithically mode division multiplexing photonic integrated circuit for large-capacity optical interconnection. *Optics Letters*, **2016**, 41, 3543-6	3	24
516	On-chip passive three-port circuit of all-optical ordered-route transmission. *Scientific Reports*, **2015**, 5, 10190	4.9	24
515	Temporal imaging using a time pinhole. *Optics Express*, **2014**, 22, 8076-84	3.3	24
514	High-order all-optical differential equation solver based on microring resonators. *Optics Letters*, **2013**, 38, 3735-8	3	24
513	. *Journal of Lightwave Technology*, **2011**, 29, 677-684	4	24
512	A Simplified Photonic Approach to Measuring the Microwave Doppler Frequency Shift. *IEEE Photonics Technology Letters*, **2018**, 30, 246-249	2.2	23
511	Si Photonics for Practical LiDAR Solutions. *Applied Sciences (Switzerland)*, **2019**, 9, 4225	2.6	23
510	Short and efficient mode-size converter designed by segmented-stepwise method. *Optics Letters*, **2014**, 39, 6273-6	3	23

509	Fractional-order photonic differentiator using an on-chip microring resonator. *Optics Letters*, **2014**, 39, 6355-8	3	23
508	Single Passband Microwave Photonic Filter With Continuous Wideband Tunability Based on Electro-Optic Phase Modulator and Fabry-Pérot Semiconductor Optical Amplifier. *Journal of Lightwave Technology*, **2011**, 29, 3542-3550	4	23
507	20-Gb/s All-Optical Format Conversions From RZ Signals With Different Duty Cycles to NRZ Signals. *IEEE Photonics Technology Letters*, **2007**, 19, 1027-1029	2.2	23
506	Silicon mode multiplexer processing dual-path mode-division multiplexing signals. *Optics Letters*, **2016**, 41, 5511-5514	3	23
505	On-chip programmable pulse processor employing cascaded MZI-MRR structure. *Frontiers of Optoelectronics*, **2019**, 12, 148-156	2.8	23
504	Repetition Rate Multiplication Pulsed Laser Source Based on a Microring Resonator. *ACS Photonics*, **2017**, 4, 1677-1683	6.3	22
503	Arbitrary waveform generator and differentiator employing an integrated optical pulse shaper. *Optics Express*, **2015**, 23, 12161-73	3.3	22
502	Chip-integrated all-optical 4-bit Gray code generation based on silicon microring resonators. *Optics Express*, **2015**, 23, 21414-23	3.3	22
501	Quantum Key Distribution with On-Chip Dissipative Kerr Soliton. *Laser and Photonics Reviews*, **2020**, 14, 1900190	8.3	22
500	Experimental demonstration on 40Gbit/s all-optical multicasting logic XOR gate for NRZ-DPSK signals using four-wave mixing in highly nonlinear fiber. *Optics Communications*, **2009**, 282, 2615-2619	2	22
499	All-Optical Clock Recovery From NRZ-DPSK Signal. *IEEE Photonics Technology Letters*, **2006**, 18, 2356-2358	2.2	22
498	Numerical analysis of polarization splitter based on vertically coupled microring resonator. *Optics Express*, **2006**, 14, 11304-11	3.3	22
497	On-chip switch for reconfigurable mode-multiplexing optical network. *Optics Express*, **2016**, 24, 21722-8	3.3	22
496	Enhanced optical gradient forces between coupled graphene sheets. *Scientific Reports*, **2016**, 6, 28568	4.9	22
495	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. *Nature*, **2021**, 596, 362-366	50.4	22
494	All-Optical Format Conversions Using Periodically Poled Lithium Niobate Waveguides. *IEEE Journal of Quantum Electronics*, **2009**, 45, 195-205	2	21
493	Tunable bandpass microwave photonic filter with ultrahigh stopband attenuation and skirt selectivity. *Optics Express*, **2016**, 24, 18655-63	3.3	21
492	Ultrafast time-stretch microscopy based on dual-comb asynchronous optical sampling. *Optics Letters*, **2018**, 43, 2118-2121	3	20

491	Terahertz-bandwidth photonic temporal differentiator based on a silicon-on-isolator directional coupler. *Optics Letters*, **2015**, 40, 5614-7	3	20
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488	A Tunable Microwave Photonic Filter Based on an All-Optical Differentiator. *IEEE Photonics Technology Letters*, **2011**, 23, 308-310	2.2	20
487	Simultaneous multiple DWDM channel NRZ-to-RZ regenerative format conversion at 10 and 20 Gb/s. *Optics Express*, **2009**, 17, 3964-9	3.3	20
486	40 Gbit/s reconfigurable photonic logic gates based on various nonlinearities in single SOA. *Electronics Letters*, **2007**, 43, 884	1.1	20
485	Broadband multi-wavelength optical sensing based on photothermal effect of 2D MXene films. *Nanophotonics*, **2019**, 9, 123-131	6.3	20
484	40 Gb/s reconfigurable optical logic gates based on FWM in silicon waveguide. *Optics Express*, **2016**, 24, 2701-11	3.3	19
483	Microstructure and grain growth direction of SRR99 single-crystal superalloy by selective laser melting. *Journal of Alloys and Compounds*, **2019**, 808, 151740	5.7	19
482	Energy-efficient on-chip optical diode based on the optomechanical effect. *Optics Express*, **2017**, 25, 8975-8985	3.3	19
481	Optical phase erasure and its application to format conversion through cascaded second-order processes in periodically poled lithium niobate. *Optics Letters*, **2008**, 33, 1804-6	3	19
480	All-optical format conversion from CS-RZ to NRZ at 40Gbit/s. *Optics Express*, **2007**, 15, 5693-8	3.3	19
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478	Experimental observation of optical differentiation and optical Hilbert transformation using a single SOI microdisk chip. *Scientific Reports*, **2014**, 4, 3960	4.9	18
477	Compact double-part grating coupler for higher-order mode coupling. *Optics Letters*, **2018**, 43, 3172-3175	3	18
476	Iron-oxide nanoparticles embedded silica microsphere resonator exhibiting broadband all-optical wavelength tunability. *Optics Letters*, **2014**, 39, 3845-8	3	18
475	Tunable fractional-order differentiator using an electrically tuned silicon-on-isolator Mach-Zehnder interferometer. *Optics Express*, **2014**, 22, 18232-7	3.3	18
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472	Simultaneous all-optical multi-channel RZ and CSRZ to NRZ format conversion. *Optics Communications*, **2011**, 284, 129-135	2	18
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469	All-optical format conversion using a periodically poled lithium niobate waveguide and a reflective semiconductor optical amplifier. *Applied Physics Letters*, **2007**, 91, 051107	3.4	18
468	Experimental demonstration of both inverted and non-inverted wavelength conversion based on transient cross phase modulation of SOA. *Optics Express*, **2006**, 14, 7587-93	3.3	18
467	Double-layer graphene on photonic crystal waveguide electro-absorption modulator with 12 GHz bandwidth. *Nanophotonics*, **2019**, 9, 2377-2385	6.3	18
466	Tunable polarization beam splitter based on optofluidic ring resonator. *Optics Express*, **2016**, 24, 17511-2513	3.3	18
465	All-in-one silicon photonic polarization processor. *Nanophotonics*, **2019**, 8, 2257-2267	6.3	17
464	Bandwidth improvement for germanium photodetector using wire bonding technology. *Optics Express*, **2015**, 23, 25700-6	3.3	17
463	Ultra-Wideband Generation Based on Cascaded Mach–Zehnder Modulators. *IEEE Photonics Technology Letters*, **2011**, 23, 1754-1756	2.2	17
462	Single-longitudinal-mode dual-wavelength fiber ring laser by incorporating variable saturable absorbers and feedback fiber loops. *Optics Communications*, **2007**, 273, 231-237	2	17
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456	Phase regeneration for polarization-division multiplexed signals based on vector dual-pump nondegenerate phase sensitive amplification. *Optics Express*, **2015**, 23, 2010-20	3.3	16

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451	Dual-band optical filter based on a single microdisk resonator. *Optics Letters*, **2011**, 36, 4494-6	3	16
450	Transmission characteristics of dual microring resonators coupled via 3x3 couplers. *Optics Express*, **2007**, 15, 13557-73	3.3	16
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444	Analysis of Performance Optimization for a Microwave Photonic Filter Based on Stimulated Brillouin Scattering. *Journal of Lightwave Technology*, **2017**, 35, 4375-4383	4	15
443	Expanded all-optical programmable logic array based on multi-input/output canonical logic units. *Optics Express*, **2014**, 22, 9959-70	3.3	15
442	Contact Properties of Au/Mg0.27Zn0.73O by Different Annealing Processes. *Journal of Physical Chemistry C*, **2010**, 114, 21757-21761	3.8	15
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440	Experimental observation of tunable wavelength down- and up-conversions of ultra-short pulses in a periodically poled LiNbO3 waveguide. *Optics Communications*, **2007**, 269, 179-187	2	15
439	Proposal for loadable and erasable optical memory unit based on dual active microring optical integrators. *Optics Communications*, **2008**, 281, 5315-5321	2	15
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436	Performance of integrated optical switches based on 2D materials and beyond. *Frontiers of Optoelectronics*, **2020**, 13, 129-138	2.8	15
435	Synthesized soliton crystals. *Nature Communications*, **2021**, 12, 3179	17.4	15
434	Tunable megahertz bandwidth microwave photonic notch filter based on a silica microsphere cavity. *Optics Letters*, **2016**, 41, 5078-5081	3	15
433	Whispering gallery modes in a single silica microparticle attached to an optical microfiber and their application for highly sensitive displacement sensing. *Optics Express*, **2018**, 26, 195-203	3.3	14
432	All-Optical Format Conversion for Multichannel QPSK Signals. *Journal of Lightwave Technology*, **2013**, 31, 375-384	4	14
431	Ultrafast electrical spectrum analyzer based on all-optical Fourier transform and temporal magnification. *Optics Express*, **2017**, 25, 7520-7529	3.3	14
430	Compact in-line optical notch filter based on an asymmetric microfiber coupler. *Applied Optics*, **2013**, 52, 8834-9	1.7	14
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428	Filter-Free Optically Switchable and Tunable Ultrawideband Monocycle Generation Based on Wavelength Conversion and Fiber Dispersion. *IEEE Photonics Technology Letters*, **2010**, 22, 42-44	2.2	14
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425	82-channel multi-wavelength comb generation in a SOA fiber ring laser. *Optics and Laser Technology* , **2010**, 42, 285-288	4.2	14
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