Chao Lu

List of Publications by Citations

367 papers	6,683 citations	40 h-index	66 g-index
465 ext. papers	8,532 ext. citations	2.9 avg, IF	6 L-index

#	Paper	IF	Citations
367	Stable and uniform dual-wavelength erbium-doped fiber laser based on fiber Bragg gratings and photonic crystal fiber. *Optics Express*, **2005**, 13, 142-7	3.3	225
366	Experimental study of PAM-4, CAP-16, and DMT for 100 Gb/s short reach optical transmission systems. *Optics Express*, **2015**, 23, 1176-89	3.3	207
365	Mode-division multiplexed transmission with inline few-mode fiber amplifier. *Optics Express*, **2012**, 20, 2668-80	3.3	204
364	Digital Signal Processing for Short-Reach Optical Communications: A Review of Current Technologies and Future Trends. *Journal of Lightwave Technology*, **2018**, 36, 377-400	4	203
363	Optical Performance Monitoring: A Review of Current and Future Technologies. *Journal of Lightwave Technology*, **2016**, 34, 525-543	4	165
362	Temperature-insensitive Interferometer using a highly birefringent photonic Crystal fiber loop mirror. *IEEE Photonics Technology Letters*, **2004**, 16, 2535-2537	2.2	143
361	Joint OSNR monitoring and modulation format identification in digital coherent receivers using deep neural networks. *Optics Express*, **2017**, 25, 17767-17776	3.3	131
360	An Optical Communications Perspective on Machine Learning and Its Applications. *Journal of Lightwave Technology*, **2019**, 37, 493-516	4	127
359	Measurements of refractive index sensitivity using long-period grating refractometer. *Optics Communications*, **2004**, 229, 65-69	2	123
358	Switchable and tunable multiwavelength erbium-doped fiber laser with fiber Bragg gratings and photonic crystal fiber. *IEEE Photonics Technology Letters*, **2005**, 17, 1626-1628	2.2	112
357	Modulation format identification in heterogeneous fiber-optic networks using artificial neural networks. *Optics Express*, **2012**, 20, 12422-31	3.3	101
356	Modulation Format Identification in Coherent Receivers Using Deep Machine Learning. *IEEE Photonics Technology Letters*, **2016**, 28, 1886-1889	2.2	100
355	Advanced modulation formats for short reach optical communication systems. *IEEE Network*, **2013**, 27, 6-13	11.4	97
354	All-optical fiber anemometer based on laser heated fiber Bragg gratings. *Optics Express*, **2011**, 19, 10124-30	3.3	91
353	Signal processing using artificial neural network for BOTDA sensor system. *Optics Express*, **2016**, 24, 6769-82	3.3	80
352	Strain-insensitive and high-temperature long-period gratings inscribed in photonic crystal fiber. *Optics Letters*, **2005**, 30, 367-9	3	80
351	High-speed WDM-PON using CW injection-locked Fabry-Pérot laser diodes. *Optics Express*, **2007**, 15, 2953-62	3.3	76

350	140-Gb/s 20-km Transmission of PAM-4 Signal at 1.3 $mu text{m}$ for Short Reach Communications. *IEEE Photonics Technology Letters*, **2015**, 27, 1757-1760	2.2	73
349	Experimental demonstration of 10 Gb/s multi-level carrier-less amplitude and phase modulation for short range optical communication systems. *Optics Express*, **2013**, 21, 6459-65	3.3	70
348	Nonlinear Frequency Division Multiplexed Transmissions Based on NFT. *IEEE Photonics Technology Letters*, **2015**, 27, 1621-1623	2.2	66
347	OSNR monitoring for QPSK and 16-QAM systems in presence of fiber nonlinearities for digital coherent receivers. *Optics Express*, **2012**, 20, 19520-34	3.3	66
346	Salinity sensor based on polyimide-coated photonic crystal fiber. *Optics Express*, **2011**, 19, 20003-8	3.3	62
345	Intermodal coupling of supermodes in a twin-core photonic crystal fiber and its application as a pressure sensor. *Optics Express*, **2012**, 20, 21749-57	3.3	60
344	Multiple four-wave mixing self-stability in optical fibers. *Physical Review A*, **2005**, 72,	2.6	60
343	Active mode locking of tunable multi-wavelength fiber ring laser. *Optics Communications*, **2001**, 191, 341-345	2	57
342	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
341	Code for spectral amplitude coding optical CDMA systems. *Electronics Letters*, **2000**, 36, 728	1.1	56
340	Blind modulation format identification for digital coherent receivers. *Optics Express*, **2015**, 23, 26769-78	3.3	53
339	Low-complexity and phase noise tolerant carrier phase estimation for dual-polarization 16-QAM systems. *Optics Express*, **2011**, 19, 21717-29	3.3	51
338	Multiwavelength erbium-doped fiber laser with 0.8-nm spacing using sampled Bragg grating and photonic crystal fiber. *IEEE Photonics Technology Letters*, **2005**, 17, 2538-2540	2.2	51
337	40 Gb/s CAP32 System With DD-LMS Equalizer for Short Reach Optical Transmissions. *IEEE Photonics Technology Letters*, **2013**, 25, 2346-2349	2.2	50
336	Deep-notch, ultracompact long-period grating in a large-mode-area photonic crystal fiber. *Optics Letters*, **2003**, 28, 2467-9	3	49
335	Alternative Decoding Methods for Optical Communications Based on Nonlinear Fourier Transform. *Journal of Lightwave Technology*, **2017**, 35, 1542-1550	4	47
334	In-line microfluidic refractometer based on C-shaped fiber assisted photonic crystal fiber Sagnac interferometer. *Optics Letters*, **2013**, 38, 3283-6	3	46
333	Optical Performance Monitoring Using Artificial Neural Networks Trained With Empirical Moments of Asynchronously Sampled Signal Amplitudes. *IEEE Photonics Technology Letters*, **2012**, 24, 982-984	2.2	44

332	Photonic microwave phase shifter/modulator based on a nonlinear optical loop mirror incorporating a Mach-Zehnder interferometer. *Optics Letters*, **2007**, 32, 745-7	3	44
331	FBG sensor interrogation with high temperature insensitivity by using a HiBi-PCF Sagnac loop filter. *Optics Communications*, **2005**, 250, 63-68	2	44
330	Ultrahigh birefringence index-guiding photonic crystal fiber and its application for pressure and temperature discrimination. *Optics Letters*, **2013**, 38, 1385-7	3	43
329	Temperature-insensitive fiber Bragg grating accelerometer. *IEEE Photonics Technology Letters*, **2003**, 15, 1437-1439	2.2	40
328	Efficient wavelet-based image denoising algorithm. *Electronics Letters*, **2001**, 37, 683	1.1	40
327	High-order modulation on a single discrete eigenvalue for optical communications based on nonlinear Fourier transform. *Optics Express*, **2017**, 25, 20286-20297	3.3	39
326	Cascaded all-optical wavelength conversion for RZ-DPSK signal based on four-wave mixing in semiconductor optical amplifier. *IEEE Photonics Technology Letters*, **2004**, 16, 1685-1687	2.2	38
325	Long-haul quasi-single-mode transmissions using few-mode fiber in presence of multi-path interference. *Optics Express*, **2015**, 23, 3156-69	3.3	37
324	Advanced DSP Techniques Enabling High Spectral Efficiency and Flexible Transmissions: Toward elastic optical networks. *IEEE Signal Processing Magazine*, **2014**, 31, 82-92	9.4	37
323	Brillouin Optical Time-Domain Analyzer Assisted by Support Vector Machine for Ultrafast Temperature Extraction. *Journal of Lightwave Technology*, **2017**, 35, 4159-4167	4	37
322	Scanning-free BOTDA based on ultra-fine digital optical frequency comb. *Optics Express*, **2015**, 23, 5277-84	3.3	36
321	Brillouin optical time domain analyzer sensors assisted by advanced image denoising techniques. *Optics Express*, **2018**, 26, 5126-5139	3.3	36
320	Fast and Robust Blind Chromatic Dispersion Estimation Using Auto-Correlation of Signal Power Waveform for Digital Coherent Systems. *Journal of Lightwave Technology*, **2013**, 31, 306-312	4	34
319	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
318	Mid-Infrared Octave-Spanning Supercontinuum and Frequency Comb Generation in a Suspended Germanium-Membrane Ridge Waveguide. *Journal of Lightwave Technology*, **2017**, 35, 2994-3002	4	33
317	Dispersion-flattened polarization-maintaining photonic crystal fiber for nonlinear applications. *Optics Communications*, **2009**, 282, 4072-4076	2	33
316	Microbend-induced mode coupling in a graded-index multimode fiber. *Applied Optics*, **2005**, 44, 7394-402	1.7	33
315	Performance study on a WDM packet switch with limited-range wavelength converters. *IEEE Communications Letters*, **2001**, 5, 432-434	3.8	33

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313	Advancing theoretical understanding and practical performance of signal processing for nonlinear optical communications through machine learning. *Nature Communications*, **2020**, 11, 3694	17.4	33
312	Single-measurement digital optical frequency comb based phase-detection Brillouin optical time domain analyzer. *Optics Express*, **2017**, 25, 9213-9224	3.3	32
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310	Nonlinear frequency division multiplexing with b-modulation: shifting the energy barrier. *Optics Express*, **2018**, 26, 27978-27990	3.3	32
309	Fast polarization-state tracking scheme based on radius-directed linear Kalman filter. *Optics Express* , **2015**, 23, 19673-80	3.3	31
308	Label-free, disposable fiber-optic biosensors for DNA hybridization detection. *Analyst, The*, **2013**, 138, 1988-94	5	31
307	VCSEL-Based Tilted Fiber Grating Vibration Sensing System. *IEEE Photonics Technology Letters*, **2010**, 22, 1235-1237	2.2	31
306	WDM-PON Architectures With a Single Shared Interferometric Filter for Carrier-Reuse Upstream Transmission. *Journal of Lightwave Technology*, **2007**, 25, 3669-3677	4	31
305	Experimental demonstration of joint OSNR monitoring and modulation format identification using asynchronous single channel sampling. *Optics Express*, **2015**, 23, 30337-46	3.3	30
304	Highly Sensitive Compact Force Sensor Based on Microfiber Bragg Grating. *IEEE Photonics Technology Letters*, **2012**, 24, 700-702	2.2	30
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298	Algorithms for Blind Separation and Estimation of Transmitter and Receiver IQ Imbalances. *Journal of Lightwave Technology*, **2019**, 37, 2201-2208	4	29
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286	Modulation-format-independent blind phase search algorithm for coherent optical square M-QAM systems. *Optics Express*, **2014**, 22, 24044-54	3.3	23
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283	Theoretical and Experimental Optimum System Design for LTE-RoF Over Varying Transmission Span and Identification of System Nonlinear Limit. *IEEE Photonics Journal*, **2012**, 4, 1560-1571	1.8	22
282	Architectural design for multistage 2-D MEMS optical switches. *Journal of Lightwave Technology*, **2002**, 20, 178-187	4	22
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265	Carrier Phase Estimation Through the Rotation Algorithm for 64-QAM Optical Systems. *Journal of Lightwave Technology*, **2015**, 33, 1766-1773	4	17
264	40 Gb/s CAP32 short reach transmission over 80 km single mode fiber. *Optics Express*, **2015**, 23, 11412-23	3.3	17
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255	Support Vector Machine based Differential Pulse-width Pair Brillouin Optical Time Domain Analyzer. *IEEE Photonics Journal*, **2018**, 10, 1-11	1.8	15
254	Theoretical studies on the polarization-modulator-based single-side-band modulator used for generation of optical multicarrier. *Optics Express*, **2014**, 22, 14087-95	3.3	15
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250	Signed chromatic dispersion monitoring of 100Gbit/s CS-RZ DQPSK signal by evaluating the asymmetry ratio of delay tap sampling. *Optics Express*, **2010**, 18, 3149-57	3.3	15
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207	Optical Performance Monitoring For Fiber-Optic Communication Networks **2016**, 473-506		10

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201	Analytical method for band structure calculation of photonic crystal fibers filled with liquid crystal. *Optics Express*, **2008**, 16, 6668-74	3.3	9
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