

Chao Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	SNR enhancement for Brillouin distributed optical fiber sensors based on asynchronous control.. <i>Optics Express</i> , 2022 , 30, 4231-4248	3.3	1
366	High performance thin-film lithium niobate modulator on a silicon substrate using periodic capacitively loaded traveling-wave electrode. <i>APL Photonics</i> , 2022 , 7, 026103	5.2	8
365	Introduction to machine learning techniques: An optical communication perspective 2022 , 1-42		
364	Dynamic BOTDA based on spectrally efficient frequency-division multiplexing. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	
363	Low-latency and efficient retiming and equalizing scheme for a 112-Gbps bandwidth-limited optical PAM-4 system.. <i>Optics Express</i> , 2022 , 30, 14565-14573	3.3	0
362	Dynamic Evaluation of Four CV Modes Multiplexing System using KramersKronig Reception and 4 4 Non-Singular MIMO. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	0
361	Deep learning enhanced long-range fast BOTDA for vibration measurement. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	3
360	Accelerated Fast BOTDA Assisted by Compressed Sensing and Image Denoising. <i>IEEE Sensors Journal</i> , 2021 , 21, 25723-25729	4	1
359	Hybrid Coding and Filtering Technique for Optical IM-DD Link With Robustness to Multipath Interference and Bandwidth Limitation. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-10	1.8	0
358	Optical Single Sideband Signal Reconstruction Based on Time-Domain Iteration. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2319-2326	4	5
357	Improving the Spatial Resolution of a BOTDA Sensor Using Deconvolution Algorithm. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2215-2222	4	3
356	Forward Transmission Based Ultra-Long Distributed Vibration Sensing With Wide Frequency Response. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2241-2249	4	12
355	Joint OSNR and Frequency Offset Estimation Using Signal Spectrum Correlations. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2854-2863	4	1
354	Transmission and Generation of Orbital ANGULAR Momentum Modes in Optical Fibers. <i>Photonics</i> , 2021 , 8, 246	2.2	2
353	Vibration Detection in Distributed Acoustic Sensor With Threshold-Based Technique: A Statistical View and Analysis. <i>Journal of Lightwave Technology</i> , 2021 , 39, 4082-4093	4	3
352	Theoretical analysis of PAM-N and M-QAM BER computation with single-sideband signal. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	1
351	Low-complexity sparse absolute-term based nonlinear equalizer for C-band IM/DD systems. <i>Optics Express</i> , 2021 , 29, 21891-21901	3.3	3

350	Distributed Optical Fiber Sensing Assisted by Optical Communication Techniques. <i>Journal of Lightwave Technology</i> , 2021 , 39, 3654-3670	4	3
349	Experimental demonstration of pre-electronic dispersion compensation in IM/DD systems using an iterative algorithm. <i>Optics Express</i> , 2021 , 29, 24735-24749	3.3	9
348	Beyond 1.6 Tb/s Net Rate PAM Signal Transmission for Rack-Rack Optical Interconnects With Mode and Wavelength Division Multiplexing. <i>Journal of Lightwave Technology</i> , 2021 , 39, 340-346	4	2
347	Pattern recognition in distributed fiber-optic acoustic sensor using an intensity and phase stacked convolutional neural network with data augmentation. <i>Optics Express</i> , 2021 , 29, 3269-3283	3.3	5
346	Learning Enabled Continuous Transmission of Spatially Distributed Information through Multimode Fibers. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000348	8.3	6
345	Unidirectional Ultra-Long Distributed Optical Fiber Sensor. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-7	1.8	2
344	Design Optimization of Silicon and Lithium Niobate Hybrid Integrated Traveling-Wave Mach-Zehnder Modulator. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-6	1.8	2
343	Fiber Vector Eigenmode Multiplexing Based High Capacity Transmission Over 5-km FMF With Kramers-Kronig Receiver. <i>Journal of Lightwave Technology</i> , 2021 , 39, 4932-4938	4	2
342	Hollow Core Bragg Fiber Integrated With Regenerate Fiber Bragg Grating for Simultaneous High Temperature and gas Pressure Sensing. <i>Journal of Lightwave Technology</i> , 2021 , 39, 5643-5649	4	4
341	. <i>Journal of Lightwave Technology</i> , 2021 , 39, 5459-5467	4	2
340	Combined neural network and adaptive DSP training for long-haul optical communications. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	1
339	Performance comparisons between machine learning and analytical models for quality of transmission estimation in wavelength-division-multiplexed systems [Invited]. <i>Journal of Optical Communications and Networking</i> , 2021 , 13, B35	4.1	7
338	Theoretical and numerical analyses for PDM-IM signals using Stokes vector receivers. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	1
337	Bend-Insensitive Grapefruit-Type Holey Ring-Core Fiber for Weakly-Coupled OAM Mode Division Multiplexing Transmission. <i>Journal of Lightwave Technology</i> , 2020 , 38, 4497-4503	4	9
336	Enhancing SNR by Anisotropic Diffusion for Brillouin Distributed Optical Fiber Sensors. <i>Journal of Lightwave Technology</i> , 2020 , 38, 5844-5852	4	5
335	Impact-Based Feature Extraction Utilizing Differential Signals of Phase-Sensitive OTDR. <i>Journal of Lightwave Technology</i> , 2020 , 38, 2539-2546	4	4
334	Design of Weakly Coupled Two-Mode Hollow-Core Antiresonant Fiber With Low Loss. <i>Journal of Lightwave Technology</i> , 2020 , 38, 864-874	4	4
333	Integrating Radio-Over-Fiber Communication System and BOTDR Sensor System. <i>Sensors</i> , 2020 , 20,	3.8	3

332	Simultaneous measurement of temperature and strain based on a hollow core Bragg fiber. <i>Optics Letters</i> , 2020 , 45, 6122-6125	3	9
331	Joint linear and nonlinear noise monitoring techniques based on spectrum analysis. <i>Optics Express</i> , 2020 , 28, 36953-36971	3.3	2
330	Distributed multicore fiber sensors. <i>Opto-Electronic Advances</i> , 2020 , 3, 19002401-19002417	6.5	17
329	1.12 Tbit/s fiber vector eigenmode multiplexing transmission over 5-km FMF with Kramers-Kronig receiver 2020 ,		2
328	Improving Soliton Transmission Systems Through Soliton Interactions. <i>Journal of Lightwave Technology</i> , 2020 , 38, 3563-3572	4	14
327	Machine learning methods for optical communication systems and networks 2020 , 921-978		8
326	Accurate BER Estimation Scheme Based on K-Means Clustering Assisted Gaussian Approach for Arbitrary Modulation Format. <i>Journal of Lightwave Technology</i> , 2020 , 38, 2152-2157	4	5
325	BOTDA Fiber Sensor System Based on FPGA Accelerated Support Vector Regression. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 3826-3837	5.2	4
324	Robust and Fast Temperature Extraction for Brillouin Optical Time-Domain Analyzer by Using Denoising Autoencoder-Based Deep Neural Networks. <i>IEEE Sensors Journal</i> , 2020 , 20, 3614-3620	4	9
323	Advancing theoretical understanding and practical performance of signal processing for nonlinear optical communications through machine learning. <i>Nature Communications</i> , 2020 , 11, 3694	17.4	33
322	Improved Perturbation Detection in Direct Detected ϕ -OTDR Systems using Matched Filtering. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1689-1692	2.2	2
321	Correlated Eigenvalues of Multi-Soliton Optical Communications. <i>Scientific Reports</i> , 2019 , 9, 6399	4.9	8
320	An Optical Communication's Perspective on Machine Learning and Its Applications. <i>Journal of Lightwave Technology</i> , 2019 , 37, 493-516	4	127
319	Efficient Timing/Frequency Synchronization Based on Sparse Fast Fourier Transform. <i>Journal of Lightwave Technology</i> , 2019 , 37, 5299-5308	4	2
318	Decision-Feedback Frequency-Domain Volterra Nonlinear Equalizer for IM/DD OFDM Long-Reach PON. <i>Journal of Lightwave Technology</i> , 2019 , 37, 3333-3342	4	12
317	Intelligent 2-Dimensional Soft Decision Enabled by K-Means Clustering for VCSEL-Based 112-Gbps PAM-4 and PAM-8 Optical Interconnection. <i>Journal of Lightwave Technology</i> , 2019 , 37, 6133-6146	4	8
316	Non-invasive human vital signs monitoring based on twin-core optical fiber sensors. <i>Biomedical Optics Express</i> , 2019 , 10, 5940-5951	3.5	16
315	Deep neural networks assisted BOTDA for simultaneous temperature and strain measurement with enhanced accuracy. <i>Optics Express</i> , 2019 , 27, 2530-2543	3.3	33

314	Modulation format identification assisted by sparse-fast-Fourier-transform for hitless flexible coherent transceivers. <i>Optics Express</i> , 2019 , 27, 7072-7086	3.3	15
313	Novel accelerometer realized by a polarization-maintaining photonic crystal fiber for railway monitoring applications. <i>Optics Express</i> , 2019 , 27, 21597-21607	3.3	5
312	CMOS-compatible high-index doped silica waveguide with an embedded silicon-nanocrystal strip for all-optical analog-to-digital conversion. <i>Photonics Research</i> , 2019 , 7, 1200	6	10
311	Algorithms for Blind Separation and Estimation of Transmitter and Receiver IQ Imbalances. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2201-2208	4	29
310	Theoretical CSPR Analysis and Performance Comparison for Four Single-Sideband Modulation Schemes With Kramers-Kronig Receiver. <i>IEEE Access</i> , 2019 , 7, 166257-166267	3.5	8
309	Multi-Dimensional Optical Fiber Sensing Enabled by Digital Coherent Optical Technologies. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2488-2501	4	2
308	Experimental and Theoretical Investigation of the Polymer Optical Fiber Random Laser with Resonant Feedback. <i>Advanced Optical Materials</i> , 2018 , 6, 1701187	8.1	19
307	Digital Signal Processing for Short-Reach Optical Communications: A Review of Current Technologies and Future Trends. <i>Journal of Lightwave Technology</i> , 2018 , 36, 377-400	4	203
306	Enhanced Coherent BOTDA System Without Trace Averaging. <i>Journal of Lightwave Technology</i> , 2018 , 36, 871-878	4	21
305	Support Vector Machine based Differential Pulse-width Pair Brillouin Optical Time Domain Analyzer. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-11	1.8	15
304	Brillouin optical time domain analyzer sensors assisted by advanced image denoising techniques. <i>Optics Express</i> , 2018 , 26, 5126-5139	3.3	36
303	Transmitter and receiver DSP for 112 Gbit/s PAM-4 amplifier-less transmissions using 25G-class EML and APD. <i>Optics Express</i> , 2018 , 26, 22673-22686	3.3	20
302	120 Gbaud PAM-4 transmission over 80-km SSMF using optical band interleaving and Kramers-Kronig detection. <i>Optics Express</i> , 2018 , 26, 25934-25943	3.3	7
301	Nonlinear frequency division multiplexing with b-modulation: shifting the energy barrier. <i>Optics Express</i> , 2018 , 26, 27978-27990	3.3	32
300	Robust in-fiber spatial interferometer using multicore fiber for vibration detection. <i>Optics Express</i> , 2018 , 26, 29629-29637	3.3	12
299	Optical Performance Monitoring in Fiber-Optic Networks Enabled by Machine Learning Techniques 2018 ,		18
298	150-Gb/s SEFDM IM/DD transmission using log-MAP Viterbi decoding for short reach optical links. <i>Optics Express</i> , 2018 , 26, 31075-31084	3.3	9
297	Channel equalisation and data detection for SEFDM over frequency selective fading channels. <i>IET Communications</i> , 2018 , 12, 2315-2323	1.3	5

296	Advanced signal processing techniques for direct detected short reach systems 2018 ,		1
295	260-Gb/s PAM-6 Transmission Using Joint Optical Pre-equalization and a Low-complexity Volterra Equalizer for Short-Reach Optical Interconnects 2018 ,		2
294	Averaging-free vector Brillouin optical time domain analyzer assisted by reference probe lightwave. <i>Optics Express</i> , 2018 , 26, 33993-34001	3-3	3
293	Dispersion Tolerant 66.7-Gb/s SEFDM IM/DD Transmission Over 77-km SSMF 2018 ,		1
292	Distributed Vibration Sensor Based on Space-Division Multiplexed Reflectometer and Interferometer in Multicore Fiber. <i>Journal of Lightwave Technology</i> , 2018 , 36, 5764-5772	4	14
291	Machine Learning-Assisted Optical Performance Monitoring in Fiber-Optic Networks 2018 ,		1
290	Experimental study of single channel 100 Gbit/s PAM4 transmission over 40 km using 17 GHz EML and APD at O band. <i>Optical Fiber Technology</i> , 2018 , 45, 411-414	2-4	1
289	Alternative Decoding Methods for Optical Communications Based on Nonlinear Fourier Transform. <i>Journal of Lightwave Technology</i> , 2017 , 35, 1542-1550	4	47
288	Coherent BOTDA Using Phase- and Polarization-Diversity Heterodyne Detection and Embedded Digital Signal Processing. <i>IEEE Sensors Journal</i> , 2017 , 17, 3728-3734	4	7
287	Brillouin optical time domain analyzer enhanced by artificial/deep neural networks 2017 ,		1
286	Deep-ultraviolet second-harmonic generation by combined degenerate four-wave mixing and surface nonlinearity polarization in photonic crystal fiber. <i>Scientific Reports</i> , 2017 , 7, 9224	4-9	2
285	Mid-Infrared Octave-Spanning Supercontinuum and Frequency Comb Generation in a Suspended Germanium-Membrane Ridge Waveguide. <i>Journal of Lightwave Technology</i> , 2017 , 35, 2994-3002	4	33
284	Signal power distribution based modulation format identification for coherent optical receivers. <i>Optical Fiber Technology</i> , 2017 , 36, 75-81	2-4	11
283	Microstructured Optical Fiber Sensors. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3425-3439	4	24
282	Amplifier-Less Transmission of Single Channel 112Gbit/s PAM4 Signal Over 40km Using 25G EML and APD at O band 2017 ,		5
281	Field trial of Machine-Learning-assisted and SDN-based Optical Network Planning with Network-Scale Monitoring Database 2017 ,		29
280	Extraction of temperature distribution using deep neural networks for BOTDA sensing system 2017 ,		4
279	BOTDA sensor utilizing digital optical frequency comb based phase spectrum measurement 2017 ,		1

278	PDM-SSB-OFDM transmission over 80km SSMF based on a single photodetector at C-band 2017 ,		1
277	Brillouin Optical Time-Domain Analyzer Assisted by Support Vector Machine for Ultrafast Temperature Extraction. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4159-4167	4	37
276	Single Channel 50 Gbit/s Transmission Over 40 km SSMF Without Optical Amplification and In-Line Dispersion Compensation Using a Single-End PD-Based PDM-SSB-DMT System. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8	3
275	. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-8	1.8	9
274	Single-measurement digital optical frequency comb based phase-detection Brillouin optical time domain analyzer. <i>Optics Express</i> , 2017 , 25, 9213-9224	3.3	32
273	Temperature extraction in Brillouin optical time-domain analysis sensors using principal component analysis based pattern recognition. <i>Optics Express</i> , 2017 , 25, 16534-16549	3.3	27
272	Joint OSNR monitoring and modulation format identification in digital coherent receivers using deep neural networks. <i>Optics Express</i> , 2017 , 25, 17767-17776	3.3	131
271	High-order modulation on a single discrete eigenvalue for optical communications based on nonlinear Fourier transform. <i>Optics Express</i> , 2017 , 25, 20286-20297	3.3	39
270	Support vector machine assisted BOTDA utilizing combined Brillouin gain and phase information for enhanced sensing accuracy. <i>Optics Express</i> , 2017 , 25, 31210-31220	3.3	24
269	Machine Learning Methods for Optical Communication Systems 2017 ,		16
268	4 bits/symbol Phase and Amplitude Modulation on a Single Discrete Eigenvalue for Transmissions based on Nonlinear Fourier Transform 2017 ,		5
267	Amplifier-Less Transmission of 56Gbit/s PAM4 over 60km Using 25Gbps EML and APD 2017 ,		5
266	Recent Advances in Short Reach Systems 2017 ,		10
265	50-Gb/s PDM-DMT-SSB Transmission over 40km SSMF using a Single Photodetector in C-band 2017 ,		2
264	Polarization-dependent intermodal four-wave mixing in a birefringent multimode photonic crystal fiber. <i>Optics Letters</i> , 2017 , 42, 1644-1647	3	5
263	100-Gb/s 80-km transmission of PIM-SSB-OFDM at C-band using a single-end photodetector. <i>Optical Engineering</i> , 2017 , 56, 1	1.1	
262	112 Gb/s transmission over 80 km SSMF using PDM-PAM4 and coherent detection without optical amplifier. <i>Optics Express</i> , 2016 , 24, 17359-71	3.3	14
261	Post-FEC performance evaluation of coherent QPSK system with an enhanced pilot-aided CPE scheme. <i>Photonic Network Communications</i> , 2016 , 32, 230-235	1.7	

260	Signal processing using artificial neural network for BOTDA sensor system. <i>Optics Express</i> , 2016 , 24, 6769-82	3.5	80
259	Modulation Format Identification in Coherent Receivers Using Deep Machine Learning. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 1886-1889	2.2	100
258	Fractional Fourier Transformation-Based Blind Chromatic Dispersion Estimation for Coherent Optical Communications. <i>Journal of Lightwave Technology</i> , 2016 , 34, 2371-2380	4	16
257	Optical Performance Monitoring: A Review of Current and Future Technologies. <i>Journal of Lightwave Technology</i> , 2016 , 34, 525-543	4	165
256	Phase Modulation on Nonlinear Discrete Spectrum for Nonlinear Frequency Division Multiplexed Transmissions 2016 ,		3
255	Programmable long-period grating in a liquid core optical fiber. <i>Optics Letters</i> , 2016 , 41, 4763-4766	3	3
254	Bi-Directional Brillouin Optical Time Domain Analyzer System for Long Range Distributed Sensing. <i>Sensors</i> , 2016 , 16,	3.8	1
253	Experimental demonstration of 608Gbit/s short reach transmission employing half-cycle 16QAM Nyquist-SCM signal and direct detection with 25Gbps EML. <i>Optics Express</i> , 2016 , 24, 25057-25067	3.3	13
252	Transmission of a 120-GBd PM-NRZ Signal Using a Monolithic Double-Side EML. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2176-2179	2.2	9
251	. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-7	1.8	10
250	On-chip integratable all-optical quantizer using strong cross-phase modulation in a silicon-organic hybrid slot waveguide. <i>Scientific Reports</i> , 2016 , 6, 19528	4.9	11
249	. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-9	1.8	24
248	Optical Performance Monitoring For Fiber-Optic Communication Networks 2016 , 473-506		10
247	Investigation of microwave photonic filter based on multiple longitudinal modes fiber laser source. <i>Optical Fiber Technology</i> , 2015 , 23, 122-128	2.4	
246	140-Gb/s 20-km Transmission of PAM-4 Signal at 1.3 μm for Short Reach Communications. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1757-1760	2.2	73
245	Carrier Phase Estimation Through the Rotation Algorithm for 64-QAM Optical Systems. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1766-1773	4	17
244	Fast polarization-state tracking scheme based on radius-directed linear Kalman filter. <i>Optics Express</i> , 2015 , 23, 19673-80	3.3	31
243	Experimental study of PAM-4, CAP-16, and DMT for 100 Gb/s short reach optical transmission systems. <i>Optics Express</i> , 2015 , 23, 1176-89	3.3	207

242	Long-haul quasi-single-mode transmissions using few-mode fiber in presence of multi-path interference. <i>Optics Express</i> , 2015 , 23, 3156-69	3.3	37
241	Scanning-free BOTDA based on ultra-fine digital optical frequency comb. <i>Optics Express</i> , 2015 , 23, 5277-84	3.3	36
240	Polarization-interleave-multiplexed discrete multi-tone modulation with direct detection utilizing MIMO equalization. <i>Optics Express</i> , 2015 , 23, 8409-21	3.3	12
239	Modulation-format-independent OSNR monitoring insensitive to cascaded filtering effects by low-cost coherent receptions and RF power measurements. <i>Optics Express</i> , 2015 , 23, 15971-82	3.3	18
238	40 Gb/s CAP32 short reach transmission over 80 km single mode fiber. <i>Optics Express</i> , 2015 , 23, 11412-23.3	3.3	17
237	Advanced modulation formats for 100Gb/s/lambda short reach applications 2015 ,		2
236	Automatic modulation format/bit-rate classification and signal-to-noise ratio estimation using asynchronous delay-tap sampling. <i>Computers and Electrical Engineering</i> , 2015 , 47, 126-133	4.3	21
235	Experimental Demonstration of 500Gbit/s Short Reach Transmission Employing PAM4 Signal and Direct Detection with 25Gbps Device 2015 ,		22
234	Nonlinear Frequency Division Multiplexed Transmissions Based on NFT. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1621-1623	2.2	66
233	Optical Performance Monitoring in DSP-based Coherent Optical Systems 2015 ,		6
232	Fiber laser sensor for simultaneously axial strain and transverse load detection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 62, 137-141	4.6	6
231	Polarization-Multiplexed DMT With IM-DD Using 2 D MIMO Processing Based on SOP Estimation and MPBI Elimination. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-12	1.8	5
230	A comprehensive theoretical model for on-chip microring-based photonic fractional differentiators. <i>Scientific Reports</i> , 2015 , 5, 14216	4.9	10
229	Performance and Complexity Comparison of CPE Algorithms for 256-QAM Optical Signals 2015 ,		1
228	Blind modulation format identification for digital coherent receivers. <i>Optics Express</i> , 2015 , 23, 26769-78	3.3	53
227	Experimental demonstration of joint OSNR monitoring and modulation format identification using asynchronous single channel sampling. <i>Optics Express</i> , 2015 , 23, 30337-46	3.3	30
226	Pump RIN-induced impairments in unrepeated transmission systems using distributed Raman amplifier. <i>Optics Express</i> , 2015 , 23, 11838-54	3.3	13
225	Assessment of MPI Compensation Effectiveness as Functions of MPI Level and Number of Crosstalk Terms for a 256 Gb/s PM-16QAM Signal 2015 ,		1

224	PDM PAM-4 with IM-DD using a simple MIMO DSP-based receiver for short reach communications 2015 ,		2
223	Impact of Frequency Offset and Laser Phase Noise on Nonlinear Frequency Division Multiplexed Systems via the Nonlinear Fourier Transform 2015 ,		1
222	A distributed fiber vibration sensor utilizing dispersion induced walk-off effect in a unidirectional Mach-Zehnder interferometer. <i>Optics Express</i> , 2014 , 22, 2167-73	3.3	29
221	Advanced DSP Techniques Enabling High Spectral Efficiency and Flexible Transmissions: Toward elastic optical networks. <i>IEEE Signal Processing Magazine</i> , 2014 , 31, 82-92	9.4	37
220	. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1944-1950	4	12
219	Low-Complexity Carrier Phase Recovery for Square M-QAM Based on S-BPS Algorithm. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1863-1866	2.2	11
218	A High-Frequency Accelerometer Based on Distributed Bragg Reflector Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1418-1421	2.2	4
217	In-line microfluidic integration of photonic crystal fibres as a highly sensitive refractometer. <i>Analyst, The</i> , 2014 , 139, 5422-9	5	29
216	Multiple input detection and digital signal processing for uncooled ONUs in a TWDM-PON with a commercial WDM demultiplexer. <i>Optical Fiber Technology</i> , 2014 , 20, 428-433	2.4	1
215	Carrier Phase Estimation for DP-16QAM Using QPSK Partitioning and Quasi-Multiplier-Free Algorithms 2014 ,		6
214	Blind and Universal DSP for Arbitrary Modulation Formats and Time Domain Hybrid QAM Transmissions 2014 ,		3
213	Superlattice Microstructured Optical Fiber. <i>Materials</i> , 2014 , 7, 4567-4573	3.5	12
212	10-Gb/s All-Optical VPN in WDM-PON Using Injection-Locked Fabry-Pérot Laser Diodes. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 2299-2302	2.2	9
211	Non-data-aided and universal cycle slip detection and correction for coherent communication systems. <i>Optics Express</i> , 2014 , 22, 31167-79	3.3	6
210	Low-cost coherent receiver for long-reach optical access network using single-ended detection. <i>Optics Letters</i> , 2014 , 39, 5248-50	3	5
209	Flat-top pulse generation based on the combined action of active mode locking and nonlinear polarization rotation. <i>Applied Optics</i> , 2014 , 53, 902-6	1.7	3
208	Performance analysis of blind timing phase estimators for digital coherent receivers. <i>Optics Express</i> , 2014 , 22, 6749-63	3.3	12
207	Theoretical studies on the polarization-modulator-based single-side-band modulator used for generation of optical multicarrier. <i>Optics Express</i> , 2014 , 22, 14087-95	3.3	15

206	Pilot-based blind phase estimation for coherent optical OFDM system. <i>Optics Express</i> , 2014 , 22, 22888-94,3	3.3	4
205	Modulation-format-independent blind phase search algorithm for coherent optical square M-QAM systems. <i>Optics Express</i> , 2014 , 22, 24044-54	3.3	23
204	Wideband-adjustable reflection-suppressed rejection filters using chirped and tilted fiber gratings. <i>Optics Express</i> , 2014 , 22, 24430-8	3.3	18
203	Modulation Format Identification Based on Received Signal Power Distributions for Digital Coherent Receivers 2014 ,		18
202	A fast tunable semiconductor laser for FBG sensor interrogation systems 2014 ,		2
201	Distributed Bragg reflector fibre laser-based sensor array for multi-parameter detection. <i>Electronics Letters</i> , 2014 , 50, 1301-1303	1.1	3
200	Theoretical and Experimental Study of a Code-Division Multiplexing Fiber Bragg Grating Sensor System. <i>Fiber and Integrated Optics</i> , 2014 , 33, 26-36	0.8	
199	Experimental Full Duplex Simultaneous Transmission of LTE Over a DWDM Directly Modulated RoF System. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 8	4.1	14
198	10 Gb/s CAP128 System using Directly Modulated Laser for Short Reach Optical Communications 2014 ,		3
197	Modulation-Format-Independent Carrier Phase Estimation for Square M-QAM Systems. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1073-1076	2.2	14
196	Broadband and linear photonic RF phase shifter based on DBR fiber lasers and polarization sensitive optical phase modulator. <i>Optics Communications</i> , 2013 , 297, 55-58	2	0
195	Fiber Bragg Grating Anemometer With Reduced Pump Power-Dependency. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2450-2453	2.2	11
194	40 Gb/s CAP32 System With DD-LMS Equalizer for Short Reach Optical Transmissions. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2346-2349	2.2	50
193	Adaptive CD Estimation for Coherent Optical Receivers Based on Timing Error Detection. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 985-988	2.2	7
192	A Highly Sensitive and Low-Cost Sagnac Loop Based Pressure Sensor. <i>IEEE Sensors Journal</i> , 2013 , 13, 3073-3078	4	23
191	Advanced modulation formats for short reach optical communication systems. <i>IEEE Network</i> , 2013 , 27, 6-13	11.4	97
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14	Efficient wavelet-based image denoising algorithm. <i>Electronics Letters</i> , 2001 , 37, 683	1.1	40
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9	A simplified model and optimal design of a multiwavelength backward-pumped fiber Raman amplifier. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 945-947	2.2	57

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