Andrew D Ellis

List of Publications by Year
in descending order

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302 papers	6,822 citations	81743 39 h-index	88477 70 g-index
302 all docs	302 docs citations	302 times ranked	3459 citing authors

#	Article	IF	Citations
1	Distributed Raman Amplification for Fiber Nonlinearity Compensation in a Mid-Link Optical Phase Conjugation System. Sensors, 2022, 22, 758.	2.1	10
2	Demonstration of 10-channel mode- and polarization-division multiplexed free-space optical transmission with successive interference cancellation DSP. Optics Letters, 2022, 47, 2742.	1.7	10
3	Single-wavelength transmission at 1.1-Tbit/s net data rate over a multi-modal free-space optical link using commercial devices. Optics Letters, 2022, 47, 3495.	1.7	8
4	Coupled Transceiver-Fiber Nonlinearity Compensation Based on Machine Learning for Probabilistic Shaping System. Journal of Lightwave Technology, 2021, 39, 388-399.	2.7	16
5	Digital compensation of imperfect pump counter-phasing induced phase distortion in optical phase conjugation of high-order QAM. Optics Express, 2021, 29, 17464.	1.7	6
6	Foreward to the Special Issue on the 45th European Conference on Optical Communication (ECOC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.7	0
7	On the Performance of Digital Back Propagation in Spatial Multiplexing Systems. Journal of Lightwave Technology, 2020, 38, 2790-2798.	2.7	6
8	Nonlinear Tolerance Enhancement Based on Perturbation Theory for Optical Phase Conjugation Systems. , 2020, , .		3
9	Artificial Neural Network-Based Compensation for Transceiver Nonlinearity in Probabilistic Shaping Systems. , 2020, , .		2
10	Enhancing the Signal Power Symmetry for Optical Phase Conjugation Using Erbium-Doped-Fibre-Assisted Raman Amplification. IEEE Access, 2020, 8, 222766-222773.	2.6	4
11	Nonlinear Performance of Few-Mode Fiber Links With Intermediate Coupling. Journal of Lightwave Technology, 2019, 37, 989-999.	2.7	20
12	Combating Fiber Nonlinearity Using Dual-Order Raman Amplification and OPC. IEEE Photonics Technology Letters, 2019, 31, 877-880.	1.3	16
13	Filter Bank Multi-Sub-Band Transmission for Optical Systems With Mode Multiplexing. IEEE Photonics Journal, 2019, 11, 1-12.	1.0	2
14	Distributed Raman Amplification Design for Fibre Nonlinearity Compensation with Mid-Link Optical Phase Conjugation. , 2019, , .		1
15	Fiber Nonlinearity Compensation Using Erbium-Doped-Fiber-Assisted Dual-Order Raman Amplification. , 2019, , .		1
16	Enhanced Nonlinearity Compensation Efficiency of Optical Phase Conjugation System. , 2019, , .		4
17	86-GBaud subcarrier multiplexed 16QAM signal generation using an electrical 90 degree hybrid and IQ mixers. Optics Express, 2019, 27, 11819.	1.7	1
18	Tackling Africaâ€™s digital divide. Nature Photonics, 2018, 12, 249-252.	15.6	44

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19	Overcoming degradation in spatial multiplexing systems with stochastic nonlinear impairments. Scientific Reports, 2018, 8, 17539.	1.6	14
20	Symmetry Requirements for 34dB Nonlinearity Compensation in OPC Systems. , 2018, , .		2
21	Impact of Linear Mode Coupling on the Nonlinear Transmission Performance of Few-Mode Fibres. , 2018, , .		0
22	Limits of Optical Fibre Communication Systems. , 2018, , .		0
23	An Expression for Nonlinear Noise in Optical Phase Conjugation Systems With Lumped Amplifiers. IEEE Photonics Technology Letters, 2018, 30, 2056-2059.	1.3	4
24	Experimental demonstration of 72% reach enhancement of 36Tbps optical transmission system using mid-link optical phase conjugation. Optics Express, 2018, 26, 23960.	1.7	18
25	Analysis of the nonlinear Kerr effects in optical transmission systems that deploy optical phase conjugation. Optics Express, 2018, 26, 3145.	1.7	24
26	Amplifier-free 200-Gb/s tandem SSB doubly differential QPSK signal transmission over 80-km SSMF with simplified receiver-side DSP. Optics Express, 2018, 26, 8418.	1.7	7
27	224-Gb/s Carrier-Recovery-Free Doubly Differential 2ASK-8PSK for Short-Reach Optical Networks. IEEE Photonics Technology Letters, 2018, 30, 1463-1466.	1.3	1
28	Transparent Dielectric Metasurfaces for Spatial Mode Multiplexing. Laser and Photonics Reviews, 2018, 12, 1800031.	4.4	37
29	Nonlinearity compensation using optical phase conjugation deployed in discretely amplified transmission systems. Optics Express, 2018, 26, 23945.	1.7	23
30	Distributed Raman Amplification for Combating Optical Nonlinearities in Fibre Transmission. , 2018, , .		2
31	Dielectric Metasurfaces for Optical Communications and Spatial Division Multiplexing. , 2018, , .		2
32	Reduction of Nonlinear Intersubcarrier Intermixing in Coherent Optical OFDM by a Fast Newton-Based Support Vector Machine Nonlinear Equalizer. Journal of Lightwave Technology, 2017, 35, 2391-2397.	2.7	36
33	WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. Journal of Lightwave Technology, 2017, 35, 2981-2987.	2.7	2
34	Semi-Analytical Modelling of Linear Mode Coupling in Few-Mode Fibers. Journal of Lightwave Technology, 2017, 35, 4011-4022.	2.7	39
35	Experimental Analysis of Nonlinear Impairments in Fibre Optic Transmission Systems up to 7.3 THz. Journal of Lightwave Technology, 2017, 35, 4809-4816.	2.7	17
36	Impact of Optical Phase Conjugation on the Nonlinear Shannon Limit. Journal of Lightwave Technology, 2017, 35, 792-798.	2.7	18

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37	Training-Aided Channel Estimation and Equalization in SDM Systems with MISO Pre-Convergence under Strong Coupling. , 2017, , .		0
38	200-Gb/s Polarization Multiplexed Doubly Differential QPSK Signal Transmission over 80-km SSMF Using Tandem SSB without Optical Amplification. , 2017, , .		1
39	Performance Enhancement Prediction for Optical Phase Conjugation in Systems with 100km Amplifier Spacing. , 2017, , .		2
40	Nonlinear Compensation Using Digital Back-Propagation in Few-Mode Fibre Spans with Intermediate Coupling. , 2017, , .		1
41	Nonamplified 100Gbps doubly differential QPSK optical signal transmission over 80 km SSMF without carrier recovery. , 2017, , .		0
42	Calculation of Receiver Sensitivities in (Orthogonal) Subcarrier Multiplexing Microwave-Optical Links. Applied Sciences (Switzerland), 2017, 7, 184.	1.3	1
43	Performance limits in optical communications due to fiber nonlinearity. Advances in Optics and Photonics, 2017, 9, 429.	12.1	139
44	Nonlinear Transmission Performance in Delay-Managed Few-Mode Fiber Links with Intermediate Coupling. , 2017, , .		7
45	Experimental Verification of Four Wave Mixing in Lumped Optical Transmission Systems that Employ Mid-Link Optical Phase Conjugation. , 2017, , .		3
46	Intra and inter-channel nonlinearity compensation in WDM coherent optical OFDM using artificial neural network based nonlinear equalization4. , 2017, , .		5
47	Nonlinear Inter-Subcarrier Intermixing Reduction in Coherent Optical OFDM using Fast Machine Learning Equalization. , 2017, , .		3
48	A High-sensitivity Coherent Receiver without Frequency Recovery Enabled by Doubly Differential QPSK. , 2017, , .		3
49	Optimization of Parametric Comb Generation Using Interferometric Wavelength Selective Switch. , 2017, , .		0
50	Self-starting opticalâ€“electricalâ€“optical homodyne clock recovery for phase-modulated signals. Optics Letters, 2017, 42, 3486.	1.7	0
51	QPSK 3R regenerator using a phase sensitive amplifier. Optics Express, 2016, 24, 16649.	1.7	16
52	Suppression of nonlinear distortion in few-mode fibres using strong mode coupling. , 2016, , .		0
53	Four wave mixing in distributed Raman amplified optical transmission systems. , 2016, , .		5
54	Comparison of DSP-based nonlinear equalizers for intra-channel nonlinearity compensation in coherent optical OFDM. Optics Letters, 2016, 41, 2509.	1.7	35

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55	Effect of second order signalâ€“noise interactions in nonlinearity compensated optical transmission systems. Optics Letters, 2016, 41, 1849.	1.7	23
56	The effect of high optical power on modern fibre at 1.5 Âµm. , 2016, , .		0
57	PMD tolerant nonlinear compensation using in-line phase conjugation. Optics Express, 2016, 24, 3385.	1.7	26
58	Boosting bandwidth. Physics World, 2016, 29, 17-17.	0.0	1
59	On the group delay statistics of few-mode fibres with intermediate linear mode coupling. , 2016, , .		2
60	The Ultimate Communication Capacity Limit. , 2016, , .		0
61	WDM Orthogonal Subcarrier Multiplexing. Journal of Lightwave Technology, 2016, 34, 1815-1823.	2.7	12
62	4 Tb/s Transmission Reach Enhancement Using 10 Ã— 400 Gb/s Super-Channels and Polarization Insensitive Dual Band Optical Phase Conjugation. Journal of Lightwave Technology, 2016, 34, 1717-1723.	2.7	89
63	Demonstration of Nonlinear Inverse Synthesis Transmission Over Transoceanic Distances. Journal of Lightwave Technology, 2016, 34, 2459-2466.	2.7	54
64	Blind Phase Noise Estimation for CO-OFDM Transmissions. Journal of Lightwave Technology, 2016, 34, 745-753.	2.7	34
65	Advantages of Strong Mode Coupling for Suppression of Nonlinear Distortion in Few-Mode Fibers. , 2016, , .		13
66	All-Analogue Real-Time Filter Bank OFDM over 50 Km of SSMF using a Novel Synchronization Technique. , 2016, , .		2
67	Single sideband FBMC system for 2-km SMF transmission. , 2016, , .		0
68	Mid-Link Optical Phase Conjugation in Lumped Optical Transmission Systems. , 2016, , .		0
69	Few-mode fibre group-delays with intermediate coupling. , 2015, , .		9
70	Digital back propagation in soliton coherent transmission. , 2015, , .		0
71	Signal Processing Using Opto-Electronic Devices. Springer Series in Optical Sciences, 2015, , 291-323.	0.5	0
72	Experimental Implementation of an All-Optical Interferometric Drop, Add, and Extract Multiplexer for Superchannels. Journal of Lightwave Technology, 2015, 33, 1351-1357.	2.7	27

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73	Fiber nonlinearity-induced penalty reduction in CO-OFDM by ANN-based nonlinear equalization. Optics Letters, 2015, 40, 5113.	1.7	73
74	All-optical add-drop multiplexer for OFDM signals. , 2015, , .		2
75	Foreword to the Special Issue on European Conference on Optical Communications (ECOC 2014). Journal of Lightwave Technology, 2015, 33, 959-963.	2.7	0
76	Experimental demonstration of an all-optical interferometric drop, add, and extract multiplexer for OFDM super-channel. , 2015, , .		0
77	Highly Robust Dual-Polarization Doubly Differential PSK Coherent Optical Packet Receiver for Energy Efficient Reconfigurable Networks. Journal of Lightwave Technology, 2015, 33, 5218-5226.	2.7	6
78	Optimum Bias Point in Broadband Subcarrier Multiplexing With Optical IQ Modulators. Journal of Lightwave Technology, 2015, 33, 258-266.	2.7	11
79	Differential polarization decoding for robust coherent optical packet switched networks. , 2015, , .		1
80	All-Analogue Real-Time Broadband Filter Bank Multicarrier Optical Communications System. Journal of Lightwave Technology, 2015, 33, 5073-5083.	2.7	18
81	Optical Information Capacity Processing. Springer Series in Optical Sciences, 2015, , 325-354.	0.5	1
82	Phase-Conjugated Pilots for Fibre Nonlinearity Compensation in CO-OFDM Transmission. Journal of Lightwave Technology, 2015, 33, 1308-1314.	2.7	24
83	Demonstration of Phase-Conjugated Subcarrier Coding for Fiber Nonlinearity Compensation in CO-OFDM Transmission. Journal of Lightwave Technology, 2015, 33, 2206-2212.	2.7	35
84	Impact of Band Rejection in Multichannel Broadband Subcarrier Multiplexing. Journal of Optical Communications and Networking, 2015, 7, 248.	3.3	8
85	Numerical investigation of all-optical add-drop multiplexing for spectrally overlapping OFDM signals. Optics Express, 2015, 23, 5888.	1.7	7
86	Capacity limits of systems employing multiple optical phase conjugators. Optics Express, 2015, 23, 20381.	1.7	64
87	Practical and cost-effective high-fidelity optical carrier dissemination using coherent communication techniques. Optics Express, 2015, 23, 21678.	1.7	3
88	Regenerative Fourier transformation for dual-quadrature regeneration of multilevel rectangular QAM. Optics Letters, 2015, 40, 3117.	1.7	26
89	Impact of inter-modal four-wave mixing on the performance of mode- and wavelength-division-multiplexing systems. , 2015, , .		1
90	Impact of Linear Mode Coupling on the Group Delay Spread in Few-Mode Fibers. , 2015, , .		15

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91	Advanced 3R regenerator scheme for high spectral efficient signal waveforms. , 2015, , .		1
92	All-Optical Add-Drop Multiplexing of OFDM Signals. , 2015, , .		0
93	Reduced waiting times using a fast switching dual-polarization DDQPSK receiver in a packet switched network. , 2014, , .		3
94	Comparison of Bit Error Rate Estimation Methods for QPSK CO-OFDM Transmission. IEEE Photonics Technology Letters, 2014, 26, 2244-2247.	1.3	5
95	10â€‰â€‰Mb/s visible light transmission system using a polymer light-emitting diode with orthogonal frequency division multiplexing. Optics Letters, 2014, 39, 3876.	1.7	39
96	Non-rectangular perfect reconstruction pulse shaping based ICI reduction in CO-OFDM. Optics Express, 2014, 22, 1749.	1.7	6
97	Dual-polarization multi-band optical OFDM transmission and transceiver limitations for up to 500 Gb/s uncompensated long-haul links. Optics Express, 2014, 22, 10975.	1.7	20
98	Minimising total energy requirements in amplified links by optimising amplifier spacing. Optics Express, 2014, 22, 19810.	1.7	14
99	Timing and phase jitter suppression in coherent soliton transmission. Optics Letters, 2014, 39, 6308.	1.7	11
100	Quasi-Pilot Aided Phase Noise Estimation for Coherent Optical OFDM Systems. IEEE Photonics Technology Letters, 2014, 26, 504-507.	1.3	40
101	Volterra-Based Reconfigurable Nonlinear Equalizer for Coherent OFDM. IEEE Photonics Technology Letters, 2014, 26, 1383-1386.	1.3	46
102	Digital Fiber Nonlinearity Compensation: Toward 1-Tb/s transport. IEEE Signal Processing Magazine, 2014, 31, 46-56.	4.6	41
103	Enabling transparent technologies for the development of highly granular flexible optical cross-connects. , 2014, , .		10
104	A 20-Mb/s VLC Link With a Polymer LED and a Multilayer Perceptron Equalizer. IEEE Photonics Technology Letters, 2014, 26, 1975-1978.	1.3	25
105	A Unidirectional Scheme for High-Fidelity Optical-Carrier Dissemination Using Phase-Modulation, Homodyne Coherent-Detection, and Frequency Entrainment. , 2014, , .		0
106	Reduced OSNR Penalty for Frequency Drift Tolerant Coherent Packet Switched Systems Using Doubly Differential Decoding. , 2014, , .		5
107	Are few-mode fibres a practical solution to the capacity crunch?. , 2013, , .		7
108	Demonstrating Doubly-Differential Quadrature Phase Shift Keying in the Optical Domain. IEEE Photonics Technology Letters, 2013, 25, 1054-1057.	1.3	7

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109	Pilot tone design for dispersion estimation in coherent optical fast OFDM systems. Optics Communications, 2013, 298-299, 75-78.	1.0	1
110	Active stabilisation of single drive dualâ€parallel Machâ€Zehnder modulator for single sideband signal generation. Electronics Letters, 2013, 49, 135-136.	0.5	50
111	Optical Burst-Switched SSB-OFDM Using a Fast Switching SG-DBR Laser. Journal of Optical Communications and Networking, 2013, 5, 994.	3.3	14
112	Impact of power allocation strategies in long-haul few-mode fiber transmission systems. Optics Express, 2013, 21, 10801.	1.7	7
113	Injection locking-based pump recovery for phase-sensitive amplified links. Optics Express, 2013, 21, 14512.	1.7	134
114	Expressions for the nonlinear transmission performance of multi-mode optical fiber. Optics Express, 2013, 21, 22834.	1.7	33
115	Demonstration of amplified data transmission at 2 Âµm in a low-loss wide bandwidth hollow core photonic bandgap fiber. Optics Express, 2013, 21, 28559.	1.7	112
116	Optimal packing for cascaded regenerative transmission based on phase sensitive amplifiers. Optics Express, 2013, 21, 31201.	1.7	10
117	Intra-channel nonlinearity compensation for PM-16QAM traffic co-propagating with 28Gbaud m-ary QAM neighbours. Optics Express, 2013, 21, 4174.	1.7	7
118	Spatial-spectral flexible optical networking: enabling switching solutions for a simplified and efficient SDM network platform. , 2013, , .		0
119	Capacity in Nonlinear Fiber Transmission Systems. , 2013, , .		2
120	Phase Sensitive Signal Processing using Semiconductor Optical Amplifiers. , 2013, , .		7
121	Designs of Coherent Optical Fast OFDM and Performance Comparison to Conventional OFDM. , 2013, , .		1
122	737 Tb/s (96 x 3 x 256-Gb/s) mode-division-multiplexed DP-16QAM transmission with inline MM-EDFA. Optics Express, 2012, 20, B428.	1.7	156
123	Characterization of time-resolved laser differential phase using 3D complementary cumulative distribution functions. Optics Letters, 2012, 37, 1769.	1.7	5
124	Time Resolved Bit Error Rate Analysis of a Fast Switching Tunable Laser for Use in Optically Switched Networks. Journal of Optical Communications and Networking, 2012, 4, A77.	3.3	5
125	All-optical OFDM and distributed Raman amplification: Challenges to enable high capacities and extend reach. , 2012, , .		1
126	Stabilization of self-coherent OFDM with injection locked laser. , 2012, , .		2

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127	Transmission of 4-ASK Optical Fast OFDM With Chromatic Dispersion Compensation. IEEE Photonics Technology Letters, 2012, 24, 34-36.	1.3	26
128	Multi-wavelength regeneration of phase encoded signals based on phase sensitive amplifiers. , 2012, , .		3
129	Nonlinear Pulse Distortion in Few-Mode Fiber. , 2012, , .		3
130	Scaling the Advantages of Intra-channel Nonlinearity Compensation in Future Flexible Optical Networks. , 2012, , .		3
131	Channel estimation and compensation in chromatic dispersion limited optical fast OFDM systems. , 2012, , .		3
132	Advantage of Optical Fast OFDM Over OFDM in Residual Frequency Offset Compensation. IEEE Photonics Technology Letters, 2012, 24, 2284-2287.	1.3	29
133	Nonlinear soliton propagation in a few mode optical fibre. , 2012, , .		1
134	Optical Frequency Comb Generation Using Dual-Mode Injection-Locking of Quantum-Dash Mode-Locked Lasers: Properties and Applications. IEEE Journal of Quantum Electronics, 2012, 48, 1327-1338.	1.0	37
135	Progress in Multichannel All-Optical Regeneration Based on Fiber Technology. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 689-700.	1.9	40
136	Enhanced Self-Coherent OFDM by the Use of Injection Locked Laser. , 2012, , .		10
137	Nonlinearity Compensation via Spectral Inversion and Digital Back-Propagation: A Practical Approach. , 2012, , .		6
138	Phase Synchronization of a Two-Channel Phase-Sensitive Amplifier based on Optical Injection-Locking of InP Quantum-Dash Mode-Locked Lasers. , 2012, , .		1
139	Various Nonlinearity Mitigation Techniques Employing Optical and Electronic Approaches. IEEE Photonics Technology Letters, 2011, 23, 1838-1840.	1.3	31
140	Nonlinear Penalties in Dynamic Optical Networks Employing Autonomous Transponders. IEEE Photonics Technology Letters, 2011, 23, 1213-1215.	1.3	17
141	DPSK Signal Regeneration With a Dual-Pump Nondegenerate Phase-Sensitive Amplifier. IEEE Photonics Technology Letters, 2011, 23, 516-518.	1.3	27
142	Impact of Raman Amplification on a 2-Tb/s Coherent WDM System. IEEE Photonics Technology Letters, 2011, 23, 959-961.	1.3	8
143	Comparison of Frequency Symmetric Signal Generation From a BPSK Input Using Fiber and Semiconductor-Based Nonlinear Elements. IEEE Photonics Technology Letters, 2011, 23, 651-653.	1.3	7
144	Channel Capacity of Non-Linear Transmission Systems. , 2011, , 507-538.		3

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145	Fundamental limitations of digital back-propagation in coherent transmission systems. , 2011, , .		3
146	Modified split-step fourier method for compensation of nonlinear fibre impairments. , 2011, , .		1
147	Experimental and Theoretical Investigations of Intensity-Modulation and Direct-Detection Optical Fast-OFDM over MMF-links. IEEE Photonics Technology Letters, 2011, , .	1.3	18
148	Variable optical frequency comb source using a dual parallel Mach-Zehnder modulator. , 2011, , .		6
149	Electronic Impairment Mitigation in Optically Multiplexed Multicarrier Systems. Journal of Lightwave Technology, 2011, 29, 278-290.	2.7	66
150	An All-Optical Grooming Switch for Interconnecting Access and Metro Ring Networks [Invited]. Journal of Optical Communications and Networking, 2011, 3, 206.	3.3	6
151	Impact of signal-ASE four-wave mixing on the effectiveness of digital back-propagation in 112 Gb/s PM-QPSK systems. Optics Express, 2011, 19, 3449.	1.7	100
152	Digital back-propagation for spectrally efficientâ€ŴDM 112 Gbit/s PM m-ary QAM transmission. Optics Express, 2011, 19, 5219.	1.7	86
153	Novel real-time homodyne coherent receiver using a feed-forward based carrier extraction scheme for phase modulated signals. Optics Express, 2011, 19, 8320.	1.7	67
154	Nonlinear penalties in long-haul opticalâ€¨networks employing dynamic transponders. Optics Express, 2011, 19, 9044.	1.7	15
155	Novel synchronous DPSK optical regenerator based on a feed-forward based carrier extraction scheme. Optics Express, 2011, 19, 9445.	1.7	4
156	Compensation of intra-channel nonlinear fibre impairments using simplified digital back-propagation algorithm. Optics Express, 2011, 19, 9453.	1.7	124
157	Experimental comparison of coherent polarization-switched QPSK to polarization-multiplexed QPSK for 10 Ã— 100 km WDM transmission. Optics Express, 2011, 19, 10849.	1.7	26
158	Phase synchronization scheme for a practical phase sensitive amplifier of ASK-NRZ signals. Optics Express, 2011, 19, 12384.	1.7	10
159	Offset-QAM based coherent WDM for spectral efficiency enhancement. Optics Express, 2011, 19, 14617.	1.7	55
160	Nonlinear and ROADM induced penalties in 28 Gbaud dynamic optical mesh networks employing electronic signal processing. Optics Express, 2011, 19, 16739.	1.7	22
161	Nonlinearity compensation in multi-rate 28 Gbaud WDM systems employing optical and digital techniques under diverse link configurations. Optics Express, 2011, 19, 16919.	1.7	15
162	Phase discrimination and simultaneous frequency conversion of the orthogonal components of an optical signal by four-wave mixing in an SOA. Optics Express, 2011, 19, 20015.	1.7	34

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163	Impact of longitudinal power budget in coherent systems employing digital back-propagation. Optics Express, 2011, 19, B40.	1.7	1
164	Polarization multiplexed 16QAM transmission employing modified digital back-propagation. Optics Express, 2011, 19, B805.	1.7	8
165	A practical phase sensitive amplification scheme for two channel phase regeneration. Optics Express, 2011, 19, B938.	1.7	32
166	Symbol Synchronization Exploiting the Symmetric Property in Optical Fast OFDM. IEEE Photonics Technology Letters, 2011, 23, 594-596.	1.3	39
167	Real-Time Self-Homodyne Coherent Receiver for BPSK Signals Using Feed-Forward Carrier Extraction. , 2011, , .		0
168	Compensation of Nonlinear Fibre Impairments in Coherent Systems Employing Spectrally Efficient Modulation Formats. IEICE Transactions on Communications, 2011, E94-B, 1815-1822.	0.4	5
169	A Novel Phase Stabilization Scheme for DPSK CoWDM Signals using High Order Four Wave Mixing. , 2011, , .		1
170	Spectral Efficiency Enhancement Using Coherent WDM with Multi-Level Offset-QAM. , 2011, , .		1
171	Comparitive analysis on the mitigation of intra channel nonlinearities in WDM mesh networks. , 2011, , .		0
172	Implementation of a high speed time resolved error detector utilising a high speed FPGA. , 2011, , .		0
173	DNA immobilisation and hydrogel matrix formation in suspended-core optical fibre. , 2011, , .		0
174	Demonstration of 10â€…Gbit/s transmission over 900â€…km SMF with <400â€…ns adaptation time using full-field EDC. Electronics Letters, 2011, 47, 711.	0.5	1
175	DNA probe detection within 3D hydrogel matrix in a hollow core photonic crystal fibre. , 2011, , .		0
176	Polarization Multiplexed 224 Gb/s 16QAM Transmission Employing Digital Back-Propagation. , 2011, , .		7
177	The Impact of Signal-ASE Four-Wave Mixing in Coherent Transmission Systems. , 2011, , .		5
178	Impact of Longitudinal Power Budget in Coherent Systems Employing Digital Back-Propagation. , 2011, , .		0
179	Performance Improvement by Fibre Nonlinearity Compensation in 112 Gb/s PM M-ary QAM. , 2011, , .		5
180	Chromatic Dispersion Compensation Using Symmetric Extension based Guard Interval in Optical Fast-OFDM. , 2011, , .		5

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181	Optical Mesh Networks employing Dynamic Transponders and Digital Back-Propagation at Higher Bit-Rates. , 2011, , .		0
182	Dual Pump Wave Generation from NRZ-ASK Signal Enabling a â€œBlack-Boxâ€•Phase Sensitive Amplifier. , 2011, , .		0
183	Generation of frequency symmetric signals from a BPSK input for Phase Sensitive Amplification. , 2010, , .		25
184	A novel method of pump and idler signal generation for non-degenerate FWM based phase sensitive amplification. , 2010, , .		1
185	Towards a Practical Implementation of Coherent WDM: Analytical, Numerical, and Experimental Studies. IEEE Photonics Journal, 2010, 2, 833-847.	1.0	19
186	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	15.6	595
187	Full-field feed-forward equalizer with adaptive system optimization. Optical Fiber Technology, 2010, 16, 323-328.	1.4	1
188	Integration of a 3D hydrogel matrix within a hollow core photonic crystal fibre for DNA probe immobilization. Measurement Science and Technology, 2010, 21, 094016.	1.4	13
189	Demonstration of world-first experimental optical Fast OFDM system at 7.174Gbit/s and 14.348Gbit/s. , 2010, , .		6
190	Investigation of duobinary modulation implementations for use in wavelength switched networks. , 2010, , .		2
191	Low cost comb source in a coherent wavelength division multiplexed system. , 2010, , .		11
192	Discrete-Fourier transform based implementation for optical fast OFDM. , 2010, , .		15
193	PMD tolerance of 288 Gbit/s Coherent WDM and transmission over unrepeatered 124 km of field-installed single mode optical fiber. Optics Express, 2010, 18, 13908.	1.7	3
194	40-Gbaud 16-QAM transmitter using tandem IQ modulators with binary driving electronic signals. Optics Express, 2010, 18, 23062.	1.7	39
195	Unrepeatered field transmission of 2 Tbit/s multi-banded coherent WDM over 124 km of installed SMF. Optics Express, 2010, 18, 24745.	1.7	23
196	Field Experiments With a Grooming Switch for OTDM Meshed Networking. Journal of Lightwave Technology, 2010, 28, 316-327.	2.7	14
197	Chromatic Dispersion Compensation Using Full-Field Maximum-Likelihood Sequence Estimation. Journal of Lightwave Technology, 2010, 28, 1023-1031.	2.7	2
198	Time-Resolved Q-factor Measurement and Its Application in Performance Analysis of 42.6 Gbit/s Packets Generated by SGDBR Lasers. Journal of Lightwave Technology, 2010, 28, 1144-1151.	2.7	4

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199	Demonstration of CoWDM using DPSK modulator array with injection-locked lasers. Electronics Letters, 2010, 46, 150.	0.5	7
200	Phase locking and carrier extraction schemes for phase sensitive amplification. , 2010, , .		4
201	Novel carrier extraction scheme for phase modulated signals using feed-forward based modulation stripping. , 2010, , .		4
202	Electronic signal processing for crosstalk- and ISI-free operation in all-optical OFDM. , 2010, , .		2
203	All-optical phase regeneration of 40Gbit/s DPSK signals in a black-box phase sensitive amplifier. , 2010, , .		14
204	Performance characterisation of 42.65â€...Gbit/s dual-gate asynchronous digital optical regenerator using single MZM. Electronics Letters, 2009, 45, 642.	0.5	1
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