

Kai Shi

List of Publications by Year in descending order

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75
papers

1,665
citations

331670

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315739

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75
all docs

75
docs citations

75
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and Uniform Optically-Switched Data Centre Networks Enabled by Amplitude Caching. , 2021, , .		0
2	Synchronous subnanosecond clock and data recovery for optically switched data centres using clock phase caching. Nature Electronics, 2020, 3, 426-433.	26.0	32
3	Sirius. , 2020, , .		88
4	Nonlinearity-Free Coherent Transmission in Hollow-Core Antiresonant Fiber. Journal of Lightwave Technology, 2019, 37, 909-916.	4.6	43
5	Spectrally Efficient 168 Gb/s/λ WDM 64-QAM Single-Sideband Nyquist-Subcarrier Modulation With Kramers-Kronig Direct-Detection Receivers. Journal of Lightwave Technology, 2018, 36, 1340-1346.	4.6	34
6	Digital Linearization of Direct-Detection Transceivers for Spectrally Efficient 100 Gb/s/λ WDM Metro Networking. Journal of Lightwave Technology, 2018, 36, 27-36.	4.6	27
7	Sub-Nanosecond Clock and Data Recovery in an Optically-Switched Data Centre Network. , 2018, , .		30
8	Comparison of Low Complexity Coherent Receivers for UDWDM-PONs (λ -to-the-User). Journal of Lightwave Technology, 2018, 36, 3453-3464.	4.6	52
9	Bridging the Last Mile for Optical Switching in Data Centers. , 2018, , .		23
10	DSP for Single-sideband Direct-detection Systems. , 2018, , .		1
11	SSBI Mitigation and the Kramers-Kronig Scheme in Single-Sideband Direct-Detection Transmission With Receiver-Based Electronic Dispersion Compensation. Journal of Lightwave Technology, 2017, 35, 1887-1893.	4.6	245
12	Bidirectional wavelength-division multiplexing transmission over installed fibre using a simplified optical coherent access transceiver. Nature Communications, 2017, 8, 1043.	12.8	26
13	Effect of nonlinear gain on the phase noise of Y-branch lasers. Optical and Quantum Electronics, 2017, 49, 1.	3.3	1
14	168 Gb/s/λ Direct-Detection 64-QAM SSB Nyquist-SCM Transmission over 80 km Uncompensated SSMF at 4.54 b/s/Hz net ISD using a Kramers-Kronig Receiver. , 2017, , .		13
15	Joint Optimisation of Resampling Rate and Carrier-to-Signal Power Ratio in Direct-Detection Kramers-Kronig Receivers. , 2017, , .		27
16	Investigation of bandwidth loading in optical fibre transmission using amplified spontaneous emission noise. Optics Express, 2017, 25, 19529.	3.4	63
17	246 GHz Digitally Stitched Coherent Receiver. , 2017, , .		4
18	Record High Capacity (6.8 Tbit/s) WDM Coherent Transmission in Hollow-Core Antiresonant Fiber. , 2017, , .		3

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19	Real time dynamic strain monitoring of optical links using the backreflection of live PSK data. Optics Express, 2016, 24, 22303.	3.4	88
20	Comparison of digital signal-signal beat interference compensation techniques in direct-detection subcarrier modulation systems. Optics Express, 2016, 24, 29176.	3.4	33
21	Two-Stage Linearization Filter for Direct-Detection Subcarrier Modulation. IEEE Photonics Technology Letters, 2016, 28, 2838-2841.	2.5	34
22	A 50 Gb/s Transparent Indoor Optical Wireless Communications Link With an Integrated Localization and Tracking System. Journal of Lightwave Technology, 2016, 34, 2510-2517.	4.6	63
23	Design and Demonstration of a 400 Gb/s Indoor Optical Wireless Communications Link. Journal of Lightwave Technology, 2016, 34, 5332-5339.	4.6	51
24	Effect of nonlinear gain on the phase noise of Y-branch lasers: Numerical study. , 2016, , .		1
25	Mode Coupling Effects in Ring-Core Fibers for Space-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 3365-3372.	4.6	50
26	Polarization-Insensitive Single-Balanced Photodiode Coherent Receiver for Long-Reach WDM-PONs. Journal of Lightwave Technology, 2016, 34, 2034-2041.	4.6	45
27	Towards Stable and Ultra-Fast Converging Equalizers for Multimode Fiber Transmission Systems. , 2016, , .		0
28	Simplified Impulse Response Characterization for Mode Division Multiplexed Systems. , 2016, , .		6
29	SLM-based mode division multiplexing system with 6 th -6 sparse equalization. , 2015, , .		2
30	Beyond 100-Gb/s Indoor Wide Field-of-View Optical Wireless Communications. IEEE Photonics Technology Letters, 2015, 27, 367-370.	2.5	109
31	Sparse Adaptive Frequency Domain Equalizers for Mode-Group Division Multiplexing. Journal of Lightwave Technology, 2015, 33, 311-317.	4.6	69
32	Frequency Diversity MIMO Detection for DP- QAM Transmission. Journal of Lightwave Technology, 2015, 33, 1388-1394.	4.6	15
33	Spectrally Shaped DP-16QAM Super-Channel Transmission with Multi-Channel Digital Back-Propagation. Scientific Reports, 2015, 5, 8214.	3.3	100
34	SLM-Based Mode Division Multiplexing System With 6 th imes 6 th Sparse Equalization. IEEE Photonics Technology Letters, 2015, 27, 1687-1690.	2.5	7
35	DSP Complexity Growth in MIMO-MDM Systems for Short Reach Networks. , 2015, , .		0
36	Linear and nonlinear impairment mitigation in a Nyquist spaced DP-16QAM WDM transmission system with full-field DBP. , 2014, , .		5

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37	Frequency diversity MIMO detection for dual-carrier DP-16QAM transmission. , 2014, , .		7
38	Degenerate Mode-Group Division Multiplexing using Delayed Adaptive Frequency-Domain Equalization. , 2014, , .		4
39	Theoretical modeling of tunable three-section slotted Fabry-Perot lasers. , 2013, , .		0
40	Degenerate mode-group division multiplexing using MIMO digital signal processing. , 2013, , .		4
41	Optical Burst-Switched SSB-OFDM Using a Fast Switching SG-DBR Laser. Journal of Optical Communications and Networking, 2013, 5, 994.	4.8	14
42	Dual correlated pumping scheme for phase noise preservation in all-optical wavelength conversion. Optics Express, 2013, 21, 15568.	3.4	35
43	Theoretical Analysis of Tunable Three-Section Slotted Fabry-Perot Lasers Based on Time-Domain Traveling-Wave Model. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1-8.	2.9	9
44	Fast Optical Spectrum Estimation Using a Digital Coherent Receiver. , 2013, , .		1
45	Theoretical study on linewidth characteristics of SGDBR lasers for coherent optical communications. , 2013, , .		0
46	Fast Wavelength Switching Digital Coherent OFDM Transceiver. , 2013, , .		3
47	Detailed experimental phase noise characterization of Y-branch lasers for use in coherent communication systems. , 2013, , .		6
48	Characterization of time-resolved laser differential phase using 3D complementary cumulative distribution functions. Optics Letters, 2012, 37, 1769.	3.3	5
49	Direct modulation of a tuneable slotted Fabry-Perot laser with adaptive modulation OFDM. Optics Express, 2012, 20, B399.	3.4	2
50	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.	4.8	5
51	Low linewidth lasers for enabling high capacity optical communication systems. , 2012, , .		1
52	Increased Bit Rate Direct Modulation AMO-OFDM Transmission by Optical Injection Using Monolithically Integrated Lasers. IEEE Photonics Technology Letters, 2012, 24, 879-881.	2.5	5
53	Influence of facet reflection of SOA on SOA-integrated SGDBR laser. Frontiers of Optoelectronics, 2012, 5, 390-394.	3.7	2
54	Performance enhancement of 10Gb/s direct modulation optical OFDM by external optical injection. Optics Communications, 2012, 285, 136-139.	2.1	0

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55	Time-resolved chirp measurement for 100GBaud test systems using an ideal frequency discriminator. Optics Communications, 2012, 285, 2039-2043.	2.1	6
56	Dynamic Linewidth Measurement Method via an Optical Quadrature Front End. IEEE Photonics Technology Letters, 2011, 23, 1591-1593.	2.5	14
57	Performance improvement of 10Gb/s direct modulation OFDM by optical injection using monolithically integrated discrete mode lasers. Optics Express, 2011, 19, B289.	3.4	15
58	Design, Characterization, and Applications of Index-Patterned Fabry-Perot Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1621-1631.	2.9	18
59	Characterization of a tunable three-section slotted Fabry-Perot laser for advanced modulation format optical transmission. Optics Communications, 2011, 284, 1616-1621.	2.1	24
60	Direct modulation optical OFDM performance enhancement by external optical injection. , 2011, , .		0
61	DQPSK optical packet switching using an SG-DBR laser. , 2011, , .		0
62	Coherent phase modulation detection for self-heterodyne phase noise measurement. Proceedings of SPIE, 2011, , .	0.8	0
63	Self-Coherent Optical Transmission Using a Narrow Linewidth Tunable Slotted Fabry-Perot Laser. , 2010, , .		3
64	Characterization of a Novel Three-Section Tunable Slotted Fabry-Perot Laser. , 2010, , .		4
65	Linewidth of SG-DBR laser and its effect on DPSK transmission. Optics Communications, 2010, 283, 5040-5045.	2.1	9
66	Two-Photon-Absorption-Based OSNR Monitor for NRZ-PSK Transmission Systems. IEEE Photonics Technology Letters, 2010, 22, 275-277.	2.5	9
67	Linewidth Calibration of SG-DBR Lasers. IEEE Photonics Technology Letters, 2010, 22, 1729-1731.	2.5	2
68	Implementation of a cost-effective optical comb source in a WDM-PON with 107Gb/s data to each ONU and 50km reach. Optics Express, 2010, 18, 15672.	3.4	13
69	Fast Switching Slotted Fabry-Perot Laser for Phase Modulated Transmission Systems. Journal of Lightwave Technology, 2010, , .	4.6	2
70	Characterization of Wavelength Tunable Lasers for Future Optical Communication Systems. Journal of Networks, 2010, 5, .	0.4	1
71	Static and dynamic analysis of side-mode suppression of widely tunable sampled grating DBR (SG-DBR) lasers. Optics Communications, 2009, 282, 81-87.	2.1	11
72	Phase shift keyed systems based on a gain switched laser transmitter. Optics Express, 2009, 17, 12668.	3.4	24

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73	Novel Frequency Chirp Compensation Scheme for Directly Modulated SG DBR Tunable Lasers. IEEE Photonics Technology Letters, 2009, 21, 340-342.	2.5	11
74	SG-DBR tunable laser linewidth and its impact on advanced modulation format transmission. , 2009, , .		2
75	Discrete mode lasers for communications applications. Proceedings of SPIE, 2009, , .	0.8	4