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Optical Communications
Optical Networks

	All	Since 2014
Citations	3271	785
h-index	29	15
i10-index	81	21

TITLE	CITED BY	YEAR
An optical network unit for WDM access networks with downstream DPSK and upstream re-modulated OOK data using injection-locked FP laser W Hung, CK Chan, LK Chen, F Tong Optical Fiber Communication Conference, TuR2	244	2003
Upstream traffic transmitter using injection-locked Fabry-Perot laser diode as modulator for WDM access networks LY Chan, CK Chan, DTK Tong, F Tong, LK Chen Electronics Letters 38 (1), 43-45	156	2002
Theory of burst-mode receiver and its applications in optical multiaccess networks C Su, LK Chen, KW Cheung Journal of lightwave technology 15 (4), 590-606	129	1997
Demonstration of 20-Gb/s all-optical XOR gate by four-wave mixing in semiconductor optical amplifier with RZ-DPSK modulated inputs K Chan, CK Chan, LK Chen, F Tong IEEE Photonics Technology Letters 16 (3), 897-899	120	2004
An all-optical XOR logic gate for high-speed RZ-DPSK signals by FWM in semiconductor optical amplifier N Deng, K Chan, CK Chan, LK Chen IEEE journal of selected topics in quantum electronics 12 (4), 702-707	113	2006
A self-protected architecture for wavelength-division-multiplexed passive optical networks TJ Chan, CK Chan, LK Chen, F Tong IEEE photonics technology letters 15 (11), 1660-1662	113	2003
A multicast WDM-PON architecture using DPSK/NRZ orthogonal modulation Y Zhang, N Deng, CK Chan, LK Chen Photonics Technology Letters, IEEE 20 (17), 1479-1481	65	2008
Fiber-fault identification for branched access networks using a wavelength-sweeping monitoring source CK Chan, F Tong, LK Chen, KP Ho, D Lam Photonics Technology Letters, IEEE 11 (5), 614-616	64	1999
A survivable WDM-PON architecture with centralized alternate-path protection switching for traffic restoration X Sun, CK Chan, LK Chen Photonics Technology Letters, IEEE 18 (4), 631-633	59	2006

TITLE	CITED BY	YEAR
A novel centrally controlled protection scheme for traffic restoration in WDM passive optical networks Z Wang, X Sun, C Lin, CK Chan, LK Chen Photonics Technology Letters, IEEE 17 (3), 717-719	59	2005
A WDM passive optical network with centralized light sources and multicast overlay N Deng, CK Chan, LK Chen, C Lin Photonics Technology Letters, IEEE 20 (2), 114-116	58	2008
An all-optical packet header recognition scheme for self-routing packet networks K Chan, F Tong, CK Chan, LK Chen, W Hung Optical Fiber Communication Conference	54	2002
A practical passive surveillance scheme for optically amplified passive branched optical networks CK Chan, F Tong, LK Chen, J Song, D Lam Photonics Technology Letters, IEEE 9 (4), 526-528	53	1997
Data remodulation on downstream OFSK signal for upstream transmission in WDM passive optical network N Deng, CK Chan, LK Chen, F Tong Electronics Letters 39 (24), 1741-1743	50	2003
Use of Downstream Inverse-RZ Signal for Upstream Data Re-Modulation in a WDM Passive Optical Network G Lu, N Deng, CK Chan, LK Chen Optical Fiber Communication Conference	47	2005
On the Performance of Adaptive MIMO-OFDM Indoor Visible Light Communications Y Hong, LK Chen IEEE Photonics Technology Letters 28 (8), 907-910	46	2016
Exact analysis of homodyne crosstalk induced penalty in WDM networks KP Ho, CK Chan, F Tong, LK Chen Photonics Technology Letters, IEEE 10 (3), 457-458	46	1998
Performance analysis of multicast traffic over spectrum elastic optical networks Q Wang, LK Chen Optical Fiber Communication Conference and Exposition (OFC/NFOEC), 2012 and …	45	2012
A bit-serial optical packet label-swapping scheme using DPSK encoded labels W Hung, CK Chan, LK Chen, F Tong Photonics Technology Letters, IEEE 15 (11), 1630-1632	42	2003
On architecture and limitation of optical multiprotocol label switching (MPLS) networks using optical-orthogonal-code (OOC)/wavelength label YG Wen, Y Zhang, LK Chen Optical Fiber Technology 8 (1), 43-70	41	2002