



## Research output

### Performance analysis of packet layer FEC codes and interleaving in FSO channels

Liu, J., Zhang, X., Blow, K. & Fowler, S., 22 Sept 2017, In: IET Communications. 11, 13, p. 2042-2048

### Characteristics and stability of soliton crystals in optical fibres for the purpose of optical frequency comb generation

Zajnulina, M., Böhm, M., Bodenmüller, D., Blow, K., Boggio, J. M. C., Rieznik, A. A. & Roth, M. M., 15 Jun 2017, In: Optics Communications. 393, p. 95-102 8 p.

### Upgrading legacy long-haul WDM systems through unbalancing the proportion of 1s and 0s in the transmitted data

Nahas, M. M. & Blow, K. J., 2 Sept 2016, In: IETE Journal of Research. 62, 5, p. 663-670 8 p.

### Digital back propagation in soliton coherent transmission

Yushko, O., Fedoruk, M., Blow, K., Redyuk, A., Turitsyn, S., Doran, N. & Ellis, A., 9 Nov 2015, *2015 Tyrrhenian International Workshop on Digital Communications, TIWDC 2015*. IEEE, p. 20-23 4 p.

### Soliton radiation beat analysis of optical pulses generated from two continuous-wave lasers

Zajnulina, M., Böhm, M., Blow, K., Rieznik, A. A., Giannone, D., Haynes, R. & Roth, M. M., 11 Sept 2015, In: Chaos. 25, 10, 6 p., 103104.

### A random channel access scheme for massive machine devices in LTE cellular networks

Ilori, A., Tang, Z., He, J., Blow, K. & Chen, H-H., 9 Sept 2015, *2015 IEEE International Conference on Communications, ICC*. IEEE, p. 2985-2990 6 p.

### The impact of pump phase-modulation and filtering on WDM signals in a fibre optical parametric amplifier

Stephens, M. F. C., Redyuk, A., Sygletos, S., Phillips, I., Harper, P., Blow, K. & Doran, N., 2015, *Proceedings of Optical Fiber Communication Conference, 22–26 March 2015, Los Angeles, California, United States*. paper W2A.43. (OSA technical digest).

### Simultaneous multiple channel all-optical NRZ to CSRZ and RZ to CSRZ format conversion using an SOA-NOLM

Wahid, M. H. A., Nahas, M. M., Ibbotson, R. A. & Blow, K. J., Dec 2014, In: Optics Communications. 332, p. 55-58 4 p.

### Comparison of bit error rate estimation methods for QPSK CO-OFDM transmission

Le, T. S., McCarthy, M. E., Suibhne, N. M., Giacoumidis, E., Doran, N. J., Ellis, A. D. & Blow, K. J., 15 Nov 2014, In: IEEE Photonics Technology Letters. 26, 22, p. 2244-2247 4 p.

### Bit error rate estimation methods for QPSK CO-OFDM transmission

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### Timing and phase jitter suppression in coherent soliton transmission

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### Nonlinear inverse synthesis and eigenvalue division multiplexing in optical fiber channels

Prilepsky, J. E., Derevyanko, S. A., Blow, K. J., Gabitov, I. & Turitsyn, S. K., 1 Jul 2014, In: Physical Review Letters. 113, 1, 5 p., 013901.

**Investigation of the effect of an increased supervisory signal power in a high-loss loopback monitoring system**  
Blow, K. & Nahas, M., 17 Apr 2014, In: IET Communications. 8, 6, p. 800-804 5 p.

**Power pre-emphasis for suppression of FWM in coherent optical OFDM transmission**  
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**Spiral attractor created by vector solitons**

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**Language independent on-off voice over IP source model with lognormal transitions**

Saikh, A. D., Blow, K. J., Eberhard, M. A. & Fowler, S. A., 24 Sept 2013, In: IET Communications. 7, 14, p. 1449-1455 7 p.

**Adaptive sending rate over wireless mesh networks using SNR**

Fowler, S., Eberhard, M. & Blow, K., Apr 2013, *Security, design, and architecture for broadband and wireless network technologies*. Chilamkurti, N. (ed.). IGI Global, p. 199-217 19 p. (Premier reference source).

**Comparison of numerical bit error rate estimation methods in 112Gbs QPSK CO-OFDM transmission**

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**Hybrid squeezing of solitonic resonant radiation in photonic crystal fibers**

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**In-Motes EYE: a real time application for automobiles in wireless sensor networks**

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Nahas, M. M., Wahid, M. H. A., Ibbotson, R. A. & Blow, K. J., 1 Jan 2005, *Nonlinear Guided Waves and Their Applications, NLGW 2005*.

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## Projects

### HIPNET: 62058 - HIPNET

Blow, K. & Eberhard, M.

29/05/06 → 30/08/11

## Activities

**Advanced photonics congress (Event)**

Keith Blow (Peer reviewer)

2012

**Journal of Modern Optics (Journal)**

Keith Blow (Editorial board member)

1 Jan 1998 → ...