

# Periklis Petropoulos

## List of Publications by Year in descending order

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434  
papers

8,435  
citations

53794

45  
h-index

62596

80  
g-index

438  
all docs

438  
docs citations

438  
times ranked

4538  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Deep Learning-Aided Optical IM/DD OFDM Approaches the Throughput of RF-OFDM. IEEE Journal on Selected Areas in Communications, 2022, 40, 212-226.                                   | 14.0 | 9         |
| 2  | Machine-Learning-Aided Optical OFDM for Intensity Modulated Direct Detection. Journal of Lightwave Technology, 2022, 40, 2357-2369.   | 4.6  | 5         |
| 3  | ML-Assisted Equalization for 50-Gb/s/λ O-Band CWDM Transmission Over 100-km SMF. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.                            | 2.9  | 6         |
| 4  | A Review of Capabilities and Scope for Hybrid Integration Offered by Silicon-Nitride-Based Photonic Integrated Circuits. Sensors, 2022, 22, 4227.                                   | 3.8  | 15        |
| 5  | Roadmap on multimode photonics. Journal of Optics (United Kingdom), 2022, 24, 083001.   | 2.2  | 27        |
| 6  | Polarization Control in Integrated Silicon Waveguides Using Semiconductor Nanowires. Nanomaterials, 2022, 12, 2438.   | 4.1  | 4         |
| 7  | Four-Wave Mixing-Based Wavelength Conversion and Parametric Amplification in Submicron Silicon Core Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11. | 2.9  | 22        |
| 8  | High-Speed DD Transmission Using a Silicon Receiver Co-Integrated With a 28-nm CMOS Gain-Tunable Fully-Differential TIA. Journal of Lightwave Technology, 2021, 39, 1138-1147.      | 4.6  | 10        |
| 9  | Performance-enhanced Amplified O-band WDM Transmission using Machine Learning based Equalization. , 2021, , .   |      | 1         |
| 10 | Experimental Characterization of Turbo-Coded 20 Gbps Fiber-Wireless-Fiber Optical Links. IEEE Access, 2021, 9, 112726-112732.   | 4.2  | 0         |
| 11 | All-Optical control of spatial beam intensity in multimode fibres by polarisation modulation. IET Optoelectronics, 2021, 15, 233-238.   | 3.3  | 0         |
| 12 | High Gain, Low Noise, Spectral-Gain-Controlled, Broadband Lumped Fiber Raman Amplifier. Journal of Lightwave Technology, 2021, 39, 1458-1463.                                       | 4.6  | 13        |
| 13 | Experimental characterization of an o-band bismuth-doped fiber amplifier. Optics Express, 2021, 29, 15345.  | 3.4  | 16        |
| 14 | Numerical and experimental study on the impact of chromatic dispersion on O-band direct-detection transmission. Applied Optics, 2021, 60, 4383.                                     | 1.8  | 12        |
| 15 | 4-Level Alternate-Mark-Inversion for Reach Extension in the O-Band Spectral Region. Journal of Lightwave Technology, 2021, 39, 2847-2853.   | 4.6  | 4         |
| 16 | Low-Latency WDM Intensity Modulation and Direct-Detection Transmission Over >100 km Distances in a Hollow Core Fiber. Laser and Photonics Reviews, 2021, 15, 2100102.               | 8.7  | 7         |
| 17 | Demonstration of >1Tbit/s WDM OWC with wavelength-transparent beam tracking-and-steering capability. Optics Express, 2021, 29, 33694.   | 3.4  | 12        |
| 18 | Hollow-Core NANF for High-Speed Short-Reach Transmission in the S+C+L-Bands. Journal of Lightwave Technology, 2021, 39, 6167-6174.  | 4.6  | 9         |

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|----|---|------|-----------|
| 19 | The Evolution of Optical OFDM. IEEE Communications Surveys and Tutorials, 2021, 23, 1430-1457.  | 39.4 | 48        |
| 20 | Amplified O-band direct-detection transmission using bismuth-doped fiber amplifiers. , 2021, , .  |      | 0         |
| 21 | Experimental Demonstration of 50-Gb/s/Z O-band CWDM Direct-Detection Transmission over 100-km SMF. , 2021, , .  |      | 0         |
| 22 | Ultra-wideband IM/DD Transmission over Hollow-core Fibres. , 2021, , .  |      | 1         |
| 23 | Silicon Nitride Photonics for the Near-Infrared. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-13.  | 2.9  | 40        |
| 24 | Interband Short Reach Data Transmission in Ultrawide Bandwidth Hollow Core Fiber. Journal of Lightwave Technology, 2020, 38, 159-165.   | 4.6  | 53        |
| 25 | Experimental Demonstration of Dual O+C-Band WDM Transmission Over 50-km SSMF With Direct Detection. Journal of Lightwave Technology, 2020, 38, 2278-2284.                               | 4.6  | 23        |
| 26 | Design and Characterisation of Terabit/s Capable Compact Localisation and Beam-Steering Terminals for Fiber-Wireless-Fiber Links. Journal of Lightwave Technology, 2020, 38, 6817-6826. | 4.6  | 23        |
| 27 | Phase Preserving Amplitude Saturation Through Tone Synthesis Assisted Saturated Four-Wave Mixing. Journal of Lightwave Technology, 2020, 38, 1817-1826.                                 | 4.6  | 3         |
| 28 | Multi-Band Direct-Detection Transmission Over an Ultrawide Bandwidth Hollow-Core NANF. Journal of Lightwave Technology, 2020, 38, 2849-2857.  | 4.6  | 17        |
| 29 | First Investigation on Double- and Single-sideband Formats in BDFA-enabled O-band Transmission. , 2020, , .   |      | 4         |
| 30 | Experimental Characterization of Bismuth-Doped Fibre Amplifier: Electrical NF, PDG, and XGM. , 2020, , .  |      | 2         |
| 31 | Co-design of a differential transimpedance amplifier and balanced photodetector for a sub-pJ/bit silicon photonics receiver. Optics Express, 2020, 28, 14038.                           | 3.4  | 14        |
| 32 | Supercontinuum generation in tantalum pentoxide waveguides for pump wavelengths in the 900â€%nm to 1500â€%nm spectral region. Optics Express, 2020, 28, 32173.                          | 3.4  | 12        |
| 33 | Beyond Terabit/s WDM Optical Wireless Transmission using Wavelength-transparent Beam Tracking and Steering. , 2020, , .   |      | 9         |
| 34 | Electronicâ€%photonic convergence for silicon photonics transmitters beyond 100 Gbps onâ€%off keying. Optica, 2020, 7, 1514.  | 9.3  | 47        |
| 35 | High-speed multi-layer coded adaptive LACO-OFDM and its experimental verification. OSA Continuum, 2020, 3, 2614.  | 1.8  | 4         |
| 36 | Comparative Investigations between SSMF and Hollow-core NANF for Transmission in the S+C+L-bands. , 2020, , .   |      | 2         |

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|----|--|-----|-----------|
| 37 | Record Gain, Low Noise Figure, C+L Band Lumped Raman Amplifier. , 2020, , .  |     | 0         |
| 38 | Tapered submicron silicon core fiber for broadband wavelength conversion. , 2020, , .  |     | 0         |
| 39 | Beyond 100-Gb/s Direct-detection Transmission using an Optical Receiver Co-integrated with a 28-nm CMOS Gain-tunable Fully-differential TIA. , 2020, , . |     | 1         |
| 40 | Intermodal Four Wave Mixing in Silicon-Rich Silicon Nitride Waveguides. , 2020, , .  |     | 0         |
| 41 | A novel optical receiver for PAM-4 transmission. , 2020, , .   |     | 0         |
| 42 | Mid-Index Silicon Nitride Devices for Enhanced Linear and Non-Linear Photonic Functionalities. , 2019, , .   |     | 0         |
| 43 | Spectral Difference Interferometry for the Characterization of Optical Media. Laser and Photonics Reviews, 2019, 13, 1900007.                            | 8.7 | 1         |
| 44 | Cryptography in coherent optical information networks using dissipative metamaterial gates. APL Photonics, 2019, 4, 046102.                              | 5.7 | 7         |
| 45 | Intermodal Bragg-Scattering Four Wave Mixing in Silicon Waveguides. Journal of Lightwave Technology, 2019, 37, 1680-1685.                                | 4.6 | 19        |
| 46 | WDM Transmission With In-Line Amplification at 1.3 $\mu\text{m}$ Using a Bi-Doped Fiber Amplifier. Journal of Lightwave Technology, 2019, 37, 1826-1830. | 4.6 | 29        |
| 47 | Bandwidth enhancement of inter-modal four wave mixing Bragg scattering by means of dispersion engineering. APL Photonics, 2019, 4, 022902.               | 5.7 | 20        |
| 48 | Self-Pumping Saturated Four Wave Mixing Through Harmonic Synthesis. , 2019, , .  |     | 3         |
| 49 | Beyond 100-Gb/s direct-detection transmission over the S+C+L-bands in an ultra-wide bandwidth hollow core fibre. , 2019, , .                             |     | 1         |
| 50 | Reach extension of PAM4 signals in O-band transmission by application of alternate-mark-inversion. , 2019, , .   |     | 3         |
| 51 | Si and Si-Rich Silicon-Nitride Waveguides for Optical Transmissions and Nonlinear Applications Around 2 $\mu\text{m}$ . , 2019, , .                      |     | 0         |
| 52 | Mid-Index Silicon Nitride Devices for Enhanced Linear and Non-Linear Photonic Functionalities. , 2019, , .   |     | 0         |
| 53 | Nonlinear control of coherent absorption and its optical signal processing applications. APL Photonics, 2019, 4, 106109.                                 | 5.7 | 1         |
| 54 | Si-rich Si nitride waveguides for optical transmissions and toward wavelength conversion around 2 $\mu\text{m}$ . Applied Optics, 2019, 58, 5165.        | 1.8 | 6         |

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|----|--|------|-----------|
| 55 | Selective wavelength conversion in a few-mode fiber. Optics Express, 2019, 27, 24072.                                      | 3.4  | 10        |
| 56 | Ultrawide Bandwidth Hollow Core Fiber for Interband Short Reach Data Transmission. , 2019, , .                             |      | 15        |
| 57 | Channel Selective Wavelength Conversion by Means of Inter Modal Four Wave Mixing. , 2019, , .                              |      | 4         |
| 58 | PAM4 transmission over 360km of fibre using optical phase conjugation. OSA Continuum, 2019, 2, 973.                        | 1.8  | 6         |
| 59 | Intermodal frequency generation in silicon-rich silicon nitride waveguides. Photonics Research, 2019, 7, 615.              | 7.0  | 19        |
| 60 | Apodized silicon photonic grating couplers for mode-order conversion. Photonics Research, 2019, 7, 1036.                   | 7.0  | 11        |
| 61 | Silicon Grating Coupler for Mode Order Conversion. , 2019, , .   |      | 2         |
| 62 | AMI for Nonlinearity Mitigation in O-Band Transmission. , 2019, , .  |      | 3         |
| 63 | Ultra-Broadband Bragg Scattering Four Wave Mixing in Silicon Rich Silicon Nitride Waveguides. , 2019, , .                  |      | 0         |
| 64 | Apodized silicon photonic grating couplers for mode-order conversion: publisher's note. Photonics Research, 2019, 7, 1221. | 7.0  | 0         |
| 65 | Fibre-optic metadvice for all-optical signal modulation based on coherent absorption. Nature Communications, 2018, 9, 182. | 12.8 | 73        |
| 66 | Group IV Compounds Modulators and Mid Index Waveguides for Enhanced CMOS Photonics. , 2018, , .                            |      | 0         |
| 67 | Inter-Modal Wavelength Conversion in Silicon Waveguide. , 2018, , .  |      | 1         |
| 68 | Broadband Study of Inter-Modal Bragg Scattering Four Wave Mixing in Multi-Mode Fibres. , 2018, , .                         |      | 3         |
| 69 | Silicon Photonics Wavelength Converter based on Inter-Modal Four Wave Mixing Bragg Scattering. , 2018, , .                 |      | 0         |
| 70 | Low-Temperature NH3-Free Silicon Nitride Platforms for Integrated Photonics. , 2018, , .                                   |      | 1         |
| 71 | Amplified O-Band WDM Transmission Using a Bi-Doped Fibre Amplifier. , 2018, , .  |      | 14        |
| 72 | High speed optical transmission at 2µm in subwavelength waveguides made of various materials. , 2018, , .                  |      | 0         |

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|----|---|-----|-----------|
| 73 | Polarization-Insensitive Four-Wave-Mixing-Based Wavelength Conversion in Few-Mode Optical Fibers. Journal of Lightwave Technology, 2018, 36, 3678-3683.                                 | 4.6 | 16        |
| 74 | Frequency comb generation in a silicon ring resonator modulator. Optics Express, 2018, 26, 790.   | 3.4 | 55        |
| 75 | Picosecond all-optical switching and dark pulse generation in a fibre-optic network using a plasmonic metamaterial absorber. Applied Physics Letters, 2018, 113, .                      | 3.3 | 15        |
| 76 | All-optical Wavelength Conversion of Phase-encoded Signals in Silicon-rich Silicon Nitride Waveguides. , 2018, , .  |     | 2         |
| 77 | Optical Phase Conjugation in Installed Optical Networks. , 2018, , .  |     | 3         |
| 78 | Optical Signal Processing in Silicon-Based Integrated Devices. , 2018, , .  |     | 0         |
| 79 | A Fiberized Metamaterial Device for Ultrafast Control of Coherent Optical Signals. , 2018, , .  |     | 0         |
| 80 | Optical Predistortion Enabling Phase Preservation in Optical Signal Processing Demonstrated in FWM-Based Amplitude Limiter. Journal of Lightwave Technology, 2017, 35, 963-970.         | 4.6 | 5         |
| 81 | Material and optical properties of low-temperature NH <sub>3</sub> -free PECVD SiN <sub>x</sub> layers for photonic applications. Journal Physics D: Applied Physics, 2017, 50, 025106. | 2.8 | 71        |
| 82 | Elliptical Core Few Mode Fibers for Multiple-Input Multiple Output-Free Space Division Multiplexing Transmission. IEEE Photonics Technology Letters, 2017, 29, 1764-1767.               | 2.5 | 31        |
| 83 | Data transmissions at 1.98 $\mu\text{m}$ in cm-long SiGe waveguides. , 2017, , .  |     | 0         |
| 84 | Ten gigabit per second optical transmissions at 1.98 $\mu\text{m}$ in centimetre-long SiGe waveguides. Electronics Letters, 2017, 53, 1213-1214.  | 1.0 | 9         |
| 85 | High-efficiency grating-couplers: demonstration of a new design strategy. Scientific Reports, 2017, 7, 16670.   | 3.3 | 146       |
| 86 | Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. Scientific Reports, 2017, 7, 22.  | 3.3 | 111       |
| 87 | Mitigation of Nonlinear Effects on WDM QAM Signals Enabled by Optical Phase Conjugation With Efficient Bandwidth Utilization. Journal of Lightwave Technology, 2017, 35, 971-978.       | 4.6 | 50        |
| 88 | Tunable index back end of line platform for enhanced integrated photonics. , 2017, , .  |     | 0         |
| 89 | Spectrally Efficient DMT Transmission over 40 km SMF Using an Electrically Packaged Silicon Photonic Intensity Modulator. , 2017, , .   |     | 2         |
| 90 | Field Trial of a Scheme to Overcome Channel Contention using All-Optical Wavelength Conversion. , 2017, , .   |     | 0         |

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|-----|---|-----|-----------|
| 91  | Optical Phase Conjugation for Simultaneous Dispersion and Nonlinearity Compensation Performed over an 800-km long Field-installed Transmission Link. , 2017, , .                            |     | 3         |
| 92  | Polarization Insensitive Wavelength Conversion in a Few Mode Fibre. , 2017, , .   |     | 2         |
| 93  | Numerical analysis of mode propagation and coupling in multimode fibers. , 2017, , .  |     | 0         |
| 94  | Full quadrature regeneration of QPSK signals using sequential phase sensitive amplification and parametric saturation. Optics Express, 2017, 25, 696.                                       | 3.4 | 24        |
| 95  | Wavelength conversion of complex modulation formats in a compact SiGe waveguide. Optics Express, 2017, 25, 3252.  | 3.4 | 13        |
| 96  | All-optical mode and wavelength converter based on parametric processes in a three-mode fiber. Optics Express, 2017, 25, 33602.   | 3.4 | 38        |
| 97  | Experimental comparison of direct detection Nyquist SSB transmission based on silicon dual-drive and IQ Mach-Zehnder modulators with electrical packaging. Optics Express, 2017, 25, 19332. | 3.4 | 17        |
| 98  | 496 Gb/s direct detection DMT transmission over 40 km single mode fibre using an electrically packaged silicon photonic modulator. Optics Express, 2017, 25, 29798.                         | 3.4 | 4         |
| 99  | Nonlinear Silicon Photonic Signal Processing Devices for Future Optical Networks. Applied Sciences (Switzerland), 2017, 7, 103.   | 2.5 | 34        |
| 100 | C- to L- band Wavelength Conversion Enabled by Parametric Processes in a Few Mode Fiber. , 2017, , .  |     | 6         |
| 101 | Dissipative optical switch for coherent fibre networks with 100 THz bandwidth. , 2017, , .  |     | 1         |
| 102 | Flexible Scheme for Measuring Chromatic Dispersion Based on Interference of Frequency Tones. , 2017, , .  |     | 1         |
| 103 | MIMO-less Space Division Multiplexing Transmission over 1 km Elliptical Core Few Mode Fiber. , 2017, , .  |     | 5         |
| 104 | Minimizing inter-channel cross-phase modulation with optical phase conjugation in asymmetric fibre links. Optics Express, 2016, 24, 20270.  | 3.4 | 1         |
| 105 | Inter-modal four-wave mixing study in a two-mode fiber. Optics Express, 2016, 24, 30338.  | 3.4 | 66        |
| 106 | Integrated silicon optical modulators. , 2016, , .  |     | 0         |
| 107 | Foreword to the Special Issue on European Conference on Optical Communications (ECOC 2015). Journal of Lightwave Technology, 2016, 34, 1406-1410.   | 4.6 | 0         |
| 108 | Ultra-low-power silicon photonics wavelength converter for phase-encoded telecommunication signals. Proceedings of SPIE, 2016, , .  | 0.8 | 0         |

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|-----|---|-----|-----------|
| 109 | All-optical Phase Regeneration with Record PSA Extinction Ratio in a Low-birefringence Silicon Germanium Waveguide. <i>Journal of Lightwave Technology</i> , 2016, 34, 3993-3998. | 4.6 | 17        |
| 110 | Optimisation of amplitude limiters for phase preservation based on the exact solution to degenerate four-wave mixing. <i>Optics Express</i> , 2016, 24, 2774.                     | 3.4 | 13        |
| 111 | Silicon photonic Mach Zehnder modulators for next-generation short-reach optical communication networks. , 2016, , .  |     | 1         |
| 112 | Ultra-Compact Amorphous Silicon Waveguide for Wavelength Conversion. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 410-413.  | 2.5 | 21        |
| 113 | Polarization Insensitive Wavelength Conversion in a Low-Birefringence SiGe Waveguide. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1221-1224.                             | 2.5 | 8         |
| 114 | Multi-Channel Phase Regenerator Based on Polarization-Assisted Phase-Sensitive Amplification. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 845-848.                       | 2.5 | 17        |
| 115 | Phase Regeneration of QPSK Signal in SOA Using Single-Stage, Wavelength Converting PSA. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 205-208.                             | 2.5 | 15        |
| 116 | Detailed phase matching characterization of inter-modal four-wave mixing in a two-mode fiber. , 2016, , .   |     | 2         |
| 117 | Nonlinear optical properties of ytterbium-doped tantalum pentoxide rib waveguides on silicon at telecom wavelengths. , 2016, , .  |     | 1         |
| 118 | Nonlinearity Mitigation for Multi-channel 64-QAM Signals in a Deployed Fiber Link through Optical Phase Conjugation. , 2016, , .  |     | 2         |
| 119 | FWM-based Amplitude Limiter Realizing Phase Preservation through Cancellation of SPM Distortions. , 2016, , .   |     | 0         |
| 120 | Applications of nonlinear parametric effects for advanced processing of optical signals. , 2016, , .  |     | 0         |
| 121 | Multi-channel all-optical signal processing based on parametric effects. , 2016, , .  |     | 0         |
| 122 | CMOS-compatible Silicon-Rich Nitride Waveguides for Ultrafast Nonlinear Signal Processing. , 2016, , .  |     | 0         |
| 123 | Polarization Insensitive Wavelength Conversion of 40 Gb/s DPSK Signals in a Silicon Germanium Waveguide. , 2015, , .  |     | 3         |
| 124 | Phase and amplitude regeneration through sequential PSA and FWM saturation in HNLF. , 2015, , .   |     | 2         |
| 125 | FWM-based, Idler-free Phase Quantiser with Flexible Operating Power. , 2015, , .  |     | 5         |
| 126 | PSA-based phase regeneration of DPSK signals in a silicon germanium waveguide. , 2015, , .  |     | 4         |



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| 127 | PSA-based all-optical multi-channel phase regenerator. , 2015, , .  |     | 5         |
| 128 | Nonlinearity mitigation through optical phase conjugation in a deployed fibre link with full bandwidth utilization. , 2015, , .   |     | 9         |
| 129 | On the role of signal-pump ratio in FWM-based phase preserving amplitude regeneration. , 2015, , .  |     | 2         |
| 130 | Polarization-Assisted Phase-Sensitive Processor. Journal of Lightwave Technology, 2015, 33, 1166-1174.  | 4.6 | 34        |
| 131 | Transient response of a passively mode-locked Er-doped fiber ring laser. Optics Communications, 2015, 356, 161-165.   | 2.1 | 4         |
| 132 | Advanced nonlinear signal processing in silicon-based waveguides. , 2015, , .   |     | 0         |
| 133 | Archon: A Function Programmable Optical Interconnect Architecture for Transparent Intra and Inter Data Center SDM/TDM/WDM Networking. Journal of Lightwave Technology, 2015, 33, 1586-1595. | 4.6 | 58        |
| 134 | Demonstration of Space-to-Wavelength Conversion in SDM Networks. IEEE Photonics Technology Letters, 2015, 27, 828-831.  | 2.5 | 5         |
| 135 | Mid-infrared supercontinuum generation in suspended core tellurite microstructured optical fibers. Optics Letters, 2015, 40, 2237.  | 3.3 | 46        |
| 136 | Record Phase Sensitive Extinction Ratio in a Silicon Germanium Waveguide. , 2015, , .   |     | 7         |
| 137 | Telecom to Mid-infrared Supercontinuum Generation in a Silicon Germanium Waveguide. , 2015, , .   |     | 1         |
| 138 | Broadband telecom to mid-infrared supercontinuum generation in a dispersion-engineered silicon germanium waveguide. Optics Letters, 2015, 40, 4118.   | 3.3 | 49        |
| 139 | Fiber optical parametric amplifiers in optical communication systems. Laser and Photonics Reviews, 2015, 9, 50-74.  | 8.7 | 104       |
| 140 | Phase regeneration of an M-PSK signal using partial regeneration of its M/2-PSK second phase harmonic. Optics Communications, 2015, 334, 35-40.   | 2.1 | 5         |
| 141 | Inspection of Defect-Induced Mode Coupling in Hollow-Core Photonic Bandgap Fibers Using Time-of-Flight. , 2015, , .   |     | 1         |
| 142 | Investigation into the Role of Pump to Signal Power Ratio in FWM-based Phase Preserving Amplitude Regeneration. , 2015, , .   |     | 2         |
| 143 | Optical Regeneration. Springer Series in Optical Sciences, 2015, , 129-155.   | 0.7 | 2         |
| 144 | Tailored Waveform Generation in Mode-Locked Fiber Lasers by In-Cavity Pulse Shaper. , 2014, , .   |     | 2         |

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|-----|--|-----|-----------|
| 145 | Space Division Multiplexing Using Multi-Element Fibers. , 2014, , .  |     | 0         |
| 146 | Optical Phase Quantizer Based on Phase Sensitive Four Wave Mixing at Low Nonlinear Phase Shifts. IEEE Photonics Technology Letters, 2014, 26, 2146-2149. | 2.5 | 20        |
| 147 | Silicon germanium platform enabling mid-infrared to near-infrared conversion for telecom and sensing applications. , 2014, , .                           |     | 1         |
| 148 | Quadrature decomposition of optical fields using two orthogonal phase sensitive amplifiers. , 2014, , .  |     | 4         |
| 149 | Efficient binary phase quantizer based on phase sensitive four wave mixing. , 2014, , .  |     | 5         |
| 150 | Pulse shaping in mode-locked fiber lasers by in-cavity spectral filter. Optics Letters, 2014, 39, 438.   | 3.3 | 39        |
| 151 | Fast and broadband fiber dispersion measurement with dense wavelength sampling. Optics Express, 2014, 22, 943.   | 3.4 | 15        |
| 152 | Towards nonlinear conversion from mid- to near-infrared wavelengths using Silicon Germanium waveguides. Optics Express, 2014, 22, 9667.                  | 3.4 | 22        |
| 153 | Suppression of Gain Variation in a PSA-Based Phase Regenerator Using an Additional Harmonic. IEEE Photonics Technology Letters, 2014, 26, 2074-2077.     | 2.5 | 8         |
| 154 | Highly Nonlinear Tellurite Glass Fiber for Broadband Applications. , 2014, , .   |     | 2         |
| 155 | An Optical Phase Quantiser Exhibiting Suppressed Phase Dependent Gain Variation. , 2014, , .   |     | 8         |
| 156 | Advanced implementations of phase sensitive amplifiers. , 2014, , .  |     | 0         |
| 157 | Multi-Element Fiber Technology for Space-Division Multiplexing Applications. Optics Express, 2014, 22, 3787.   | 3.4 | 42        |
| 158 | Multi-element Fiber for space-division multiplexed optical communication system. , 2014, , .   |     | 1         |
| 159 | 100-GHz Grid-Aligned Multi-Channel Polarization Insensitive Black-Box Wavelength Converter. Journal of Lightwave Technology, 2014, 32, 3027-3035.        | 4.6 | 11        |
| 160 | Signal Regeneration Techniques for Advanced Modulation Formats. , 2014, , .  |     | 2         |
| 161 | First demonstration of all-optical programmable SDM/TDM intra data centre and WDM inter-DCN communication. , 2014, , .                                   |     | 11        |
| 162 | Novel Polarisation-assisted Phase Sensitive Optical Signal Processor Requiring Low Nonlinear Phase Shifts. , 2014, , .                                   |     | 4         |

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|-----|---|-----|-----------|
| 163 | Multi-Element Fiber Technology for High-Capacity Optical Communication Systems. , 2014, , .   |     | 0         |
| 164 | All-Optical Regeneration of Phase Encoded Signals. , 2013, , 589-639.   |     | 2         |
| 165 | High Performance Mach-Zehnder-Based Silicon Optical Modulators. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 85-94.                          | 2.9 | 59        |
| 166 | Broadband, Flat Frequency Comb Generated Using Pulse Shaping-Assisted Nonlinear Spectral Broadening. IEEE Photonics Technology Letters, 2013, 25, 543-545.        | 2.5 | 15        |
| 167 | Multi-Element Fibre for Space-Division Multiplexed Transmission. , 2013, , .  |     | 3         |
| 168 | FWM-based wavelength conversion of 40 Gbaud PSK signals in a silicon germanium waveguide. Optics Express, 2013, 21, 16683.  | 3.4 | 38        |
| 169 | Demonstration of amplified data transmission at 2 $\mu\text{m}$ in a low-loss wide bandwidth hollow core photonic bandgap fiber. Optics Express, 2013, 21, 28559. | 3.4 | 112       |
| 170 | First Demonstration of an Amplified Transmission Line Based on Multi-Element Fibre Technology. , 2013, , .  |     | 8         |
| 171 | Optical properties of silicon germanium waveguides at telecommunication wavelengths. Optics Express, 2013, 21, 16690.   | 3.4 | 44        |
| 172 | Linear and Nonlinear Properties of SiGe Waveguides at Telecommunication Wavelengths. , 2013, , .  |     | 0         |
| 173 | 100GHz Grid-Aligned Reconfigurable Polarization Insensitive Black-Box Wavelength Converter. , 2013, , .   |     | 3         |
| 174 | Signal Regeneration Techniques for Advanced Modulation Formats. , 2013, , .   |     | 0         |
| 175 | Multi-element fiber for space-division multiplexing. , 2013, , .  |     | 2         |
| 176 | Passively Mode-Locked Fiber Laser Incorporating Adaptive Filtering and Dispersion Management. , 2013, , .   |     | 3         |
| 177 | On-Demand Spectrum and Space Defragmentation in an Elastic SDM/FDM/TDM Network with Mixed Multi- and Single-core Fiber Links. , 2013, , .                         |     | 7         |
| 178 | Transmission Performance of Phase-Preserving Amplitude Regenerator based on Optical Injection Locking. , 2013, , .  |     | 0         |
| 179 | FWM-based Wavelength Conversion in a Silicon Germanium Waveguide. , 2013, , .   |     | 0         |
| 180 | Field Trial Experiment over 1200 km on a 100GHz Grid-Aligned Multi-Channel Black-Box Wavelength Converter. , 2013, , .  |     | 0         |

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|-----|--|-----|-----------|
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