

# Keang-Po Ho

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11073151/publications.pdf>

Version: 2024-02-01

99  
papers

3,037  
citations

185998

28  
h-index

174990

52  
g-index

99  
all docs

99  
docs citations

99  
times ranked

1472  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Mode-dependent loss and gain: statistics and effect on mode-division multiplexing. Optics Express, 2011, 19, 16612.   | 1.7  | 292       |
| 2  | Spectral Efficiency Limits and Modulation/Detection Techniques for DWDM Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 259-272.                 | 1.9  | 261       |
| 3  | Statistics of Group Delays in Multimode Fiber With Strong Mode Coupling. Journal of Lightwave Technology, 2011, 29, 3119-3128.  | 2.7  | 222       |
| 4  | Equalization-enhanced phase noise for coherent-detection systems using electronic digital signal processing. Optics Express, 2008, 16, 15718.                               | 1.7  | 159       |
| 5  | Electronic Compensation Technique to Mitigate Nonlinear Phase Noise. Journal of Lightwave Technology, 2004, 22, 779-783.  | 2.7  | 120       |
| 6  | MIMO Signal Processing for Mode-Division Multiplexing: An overview of channel models and signal processing architectures. IEEE Signal Processing Magazine, 2014, 31, 25-34. | 4.6  | 117       |
| 7  | Linear Propagation Effects in Mode-Division Multiplexing Systems. Journal of Lightwave Technology, 2014, 32, 614-628.   | 2.7  | 113       |
| 8  | Exact analysis of homodyne crosstalk induced penalty in WDM networks. IEEE Photonics Technology Letters, 1998, 10, 457-458.   | 1.3  | 92        |
| 9  | Mode Coupling and its Impact on Spatially Multiplexed Systems. , 2013, , 491-568.   |      | 82        |
| 10 | Generation of arbitrary quadrature signals using one dual-drive Modulator. Journal of Lightwave Technology, 2005, 23, 764-770.  | 2.7  | 75        |
| 11 | Statistical properties of stimulated Raman crosstalk in WDM systems. Journal of Lightwave Technology, 2000, 18, 915-921.  | 2.7  | 73        |
| 12 | Error Probability of DPSK Signals With Cross-Phase Modulation Induced Nonlinear Phase Noise. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 421-427.     | 1.9  | 59        |
| 13 | Equalization-enhanced phase noise for 100Gb/s transmission and beyond with coherent detection. Optics Express, 2010, 18, 17239.   | 1.7  | 59        |
| 14 | A bottleneck for optical fibres. Nature, 2001, 411, 1007-1009.  | 13.7 | 54        |
| 15 | Analysis of homodyne crosstalk in optical networks using Gram-Charlier series. Journal of Lightwave Technology, 1999, 17, 149-154.  | 2.7  | 50        |
| 16 | Group Delay Management and Multiinput Multioutput Signal Processing in Mode-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 2867-2880.            | 2.7  | 50        |
| 17 | Probability density of nonlinear phase noise. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1875.   | 0.9  | 48        |
| 18 | Frequency Diversity in Mode-Division Multiplexing Systems. Journal of Lightwave Technology, 2011, 29, 3719-3726.  | 2.7  | 48        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Fiber-fault identification for branched access networks using a wavelength-sweeping monitoring source. IEEE Photonics Technology Letters, 1999, 11, 614-616.                          | 1.3 | 45        |
| 20 | The Effect of Interferometer Phase Error on Direct-Detection DPSK and DQPSK Signals. IEEE Photonics Technology Letters, 2004, 16, 308-310.  | 1.3 | 45        |
| 21 | Coherent Optical OFDM Transmitter Design Employing Predistortion. IEEE Photonics Technology Letters, 2008, 20, 954-956.   | 1.3 | 44        |
| 22 | Performance degradation of phase-modulated systems due to nonlinear phase noise. IEEE Photonics Technology Letters, 2003, 15, 1213-1215.  | 1.3 | 43        |
| 23 | Dynamic power-equalized EDFA module based on strain tunable fiber Bragg gratings. IEEE Photonics Technology Letters, 1999, 11, 797-799.   | 1.3 | 41        |
| 24 | Spectrum of Externally Modulated Optical Signals. Journal of Lightwave Technology, 2004, 22, 658-663.   | 2.7 | 38        |
| 25 | Asymptotic probability density of nonlinear phase noise. Optics Letters, 2003, 28, 1350.  | 1.7 | 37        |
| 26 | Optical network scaling: roles of spectral and spatial aggregation. Optics Express, 2014, 22, 29868.  | 1.7 | 33        |
| 27 | Hybrid wavelength-division-multiplexing systems for high-capacity digital and analog video trunking applications. IEEE Photonics Technology Letters, 1998, 10, 297-299.               | 1.3 | 31        |
| 28 | Delay-Spread Distribution for Multimode Fiber With Strong Mode Coupling. IEEE Photonics Technology Letters, 2012, 24, 1906-1909.  | 1.3 | 30        |
| 29 | Impact of Nonlinear Phase Noise to DPSK Signals: A Comparison of Different Models. IEEE Photonics Technology Letters, 2004, 16, 1403-1405.  | 1.3 | 28        |
| 30 | Characterizing Mode-Dependent Loss and Gain in Multimode Components. Journal of Lightwave Technology, 2018, 36, 3815-3823.  | 2.7 | 27        |
| 31 | Compensation improvement of DPSK signal with nonlinear phase noise. IEEE Photonics Technology Letters, 2003, 15, 1216-1218.   | 1.3 | 26        |
| 32 | Mode Coupling Effects in Multi-Mode Fibers. , 2012, , .   |     | 26        |
| 33 | Multichannel add/drop and cross-connect using fibre Bragg gratings and optical switches. Electronics Letters, 1998, 34, 1601.   | 0.5 | 25        |
| 34 | Effect of dispersion on nonlinear phase noise. Optics Letters, 2006, 31, 2109.  | 1.7 | 25        |
| 35 | Exact evaluation of the capacity for intensity-modulated direct-detection channels with optical amplifier noises. IEEE Photonics Technology Letters, 2005, 17, 858-860.               | 1.3 | 24        |
| 36 | Comparison of nonlinear phase noise and intrachannel four-wave mixing for RZ-DPSK signals in dispersive transmission systems. IEEE Photonics Technology Letters, 2005, 17, 1426-1428. | 1.3 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Performance analysis of optical transmission system with polarization-mode dispersion and forward error correction. IEEE Photonics Technology Letters, 1997, 9, 1288-1290. | 1.3 | 22        |
| 38 | Demultiplexer crosstalk rejection requirements for hybrid WDM system with analog and digital channels. IEEE Photonics Technology Letters, 1998, 10, 737-739.               | 1.3 | 22        |
| 39 | Delay Spread Reduction in Mode-Division Multiplexing: Mode Coupling Versus Delay Compensation. Journal of Lightwave Technology, 2015, 33, 4504-4512.                       | 2.7 | 22        |
| 40 | Analysis of co-channel crosstalk interference in optical networks. Electronics Letters, 1998, 34, 383.   | 0.5 | 21        |
| 41 | Equalization-enhanced phase noise induced timing jitter. Optics Letters, 2011, 36, 585.  | 1.7 | 21        |
| 42 | Equalization-Enhanced Phase Noise in Mode-Division Multiplexed Systems. Journal of Lightwave Technology, 2013, 31, 2237-2243.  | 2.7 | 20        |
| 43 | Multichannel bidirectional transmission using a WDM MUX/DMUX pair and unidirectional in-line amplifiers. IEEE Photonics Technology Letters, 1997, 9, 1664-1666.            | 1.3 | 19        |
| 44 | Error probability of DPSK signals with intrachannel four-wave mixing in highly dispersive transmission systems. IEEE Photonics Technology Letters, 2005, 17, 789-791.      | 1.3 | 16        |
| 45 | Effects of Homodyne Crosstalk on Dual-Polarization QPSK Signals. Journal of Lightwave Technology, 2011, 29, 124-131.   | 2.7 | 16        |
| 46 | Exact Model for Mode-Dependent Gains and Losses in Multimode Fiber. Journal of Lightwave Technology, 2012, 30, 3603-3609.  | 2.7 | 16        |
| 47 | Cross-phase Modulation-induced crosstalk for RZ-DPSK signals in dispersive transmission systems. Journal of Lightwave Technology, 2006, 24, 396-403.                       | 2.7 | 15        |
| 48 | Efficient photonic mixer with frequency doubling. IEEE Photonics Technology Letters, 1997, 9, 511-513.   | 1.3 | 14        |
| 49 | Soft-decoding vector quantizer using reliability information from turbo-codes. IEEE Communications Letters, 1999, 3, 208-210.  | 2.5 | 14        |
| 50 | Optimal soft decoding for combined trellis-coded quantization/modulation. IEEE Transactions on Communications, 2000, 48, 901-904.  | 4.9 | 14        |
| 51 | Modeling of waveform distortion due to optical filtering. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 223-226.  | 1.9 | 13        |
| 52 | Wavelength-Selective Switches for Mode-Division Multiplexing: Scaling and Performance Analysis. Journal of Lightwave Technology, 2014, 32, 4326-4337.                      | 2.7 | 13        |
| 53 | Analysis and measurement of root-mean-squared bandwidth of cross-phase-modulation-induced spectral broadening. IEEE Photonics Technology Letters, 1999, 11, 1126-1128.     | 1.3 | 12        |
| 54 | Mid-span compensation of nonlinear phase noise. Optics Communications, 2005, 245, 391-398.   | 1.0 | 12        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | On models of clipping distortion for lightwave CATV systems. IEEE Photonics Technology Letters, 1996, 8, 125-126.   | 1.3 | 11        |
| 56 | Spectral density of cross-phase modulation induced phase noise. Optics Communications, 1999, 169, 63-68.  | 1.0 | 11        |
| 57 | Analysis of direct-detection DPSK signal with homodyne crosstalk. Journal of Lightwave Technology, 2005, 23, 2681-2686.   | 2.7 | 10        |
| 58 | High-dynamic-range optical cross-connect device using fiber Bragg gratings. IEEE Photonics Technology Letters, 1999, 11, 1054-1056.                             | 1.3 | 9         |
| 59 | Channel capacity of WDM systems using constant-intensity modulation formats. , 0, , .   |     | 9         |
| 60 | The optimal compensator for nonlinear phase noise. Optics Communications, 2003, 221, 419-425.   | 1.0 | 9         |
| 61 | Exact analysis of a balanced receiver for differential phase-shift keying signals. Optics Letters, 2007, 32, 472.   | 1.7 | 9         |
| 62 | <title>Advanced modulation and signal processing techniques for 40-Gb/s optical transmission systems</title>. , 2002, , .                                       |     | 8         |
| 63 | Non-Gaussian statistics of soliton timing jitter induced by amplifier noise. Optics Letters, 2003, 28, 2165.  | 1.7 | 8         |
| 64 | Performance of DPSK Signals With Quadratic Phase Noise. IEEE Transactions on Communications, 2005, 53, 1361-1365.   | 4.9 | 8         |
| 65 | Experimental investigation of wavelength-tunable WADM and OXC devices using strain-tunable fiber Bragg gratings. Optics Communications, 1999, 169, 75-80.       | 1.0 | 7         |
| 66 | Eight-channel bidirectional WDM add/drop multiplexer. Electronics Letters, 1998, 34, 947.   | 0.5 | 6         |
| 67 | Phase statistics of the soliton. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 266.   | 0.9 | 6         |
| 68 | Soft-Decoding of Low-Density Parity Check Codes for DPSK Signals. , 2007, , .   |     | 6         |
| 69 | Effects of chromatic dispersion on optical coherent-detection systems. IEEE Transactions on Communications, 2008, 56, 1422-1424.                                | 4.9 | 5         |
| 70 | Unequal error protection based on OFDM and its application in digital audio transmission. , 0, , .  |     | 4         |
| 71 | High-resolution measurement and spectral overlap of cross-phase modulation induced spectral broadening. IEEE Photonics Technology Letters, 2000, 12, 1534-1536. | 1.3 | 4         |
| 72 | Exact error probability of DQPSK signal with nonlinear phase noise. , 0, , .  |     | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Phase and Amplitude Responses of Narrowband Optical Filter Measured by Microwave Network Analyzer. <i>Journal of Lightwave Technology</i> , 2006, 24, 5075-5081.              | 2.7 | 4         |
| 74 | Maximum-Likelihood Power Estimation for Clipped Signals. <i>IEEE Signal Processing Letters</i> , 2009, 16, 569-571.   | 2.1 | 4         |
| 75 | Joint design of a channel-optimized quantizer and multicarrier modulation. <i>IEEE Transactions on Communications</i> , 1998, 46, 1254-1257.                                  | 4.9 | 3         |
| 76 | Bidirectional multiwavelength ring networks: performance analysis and experimental studies. , 0, , .  |     | 3         |
| 77 | Performance verification of a variable bit-rate limiter for on-off keying (OOK) optical systems. <i>Journal of Lightwave Technology</i> , 2000, 18, 779-786.                  | 2.7 | 3         |
| 78 | Limitation of stimulated Raman scattering cancellation in WDM systems via spectral inversion. <i>IEEE Photonics Technology Letters</i> , 2000, 12, 998-1000.                  | 1.3 | 3         |
| 79 | Impact of nonlinear phase noise to DPSK signals: experimental verification of a simplified theoretical model. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 2236-2238. | 1.3 | 3         |
| 80 | Reconfigurable WDM add/drop multiplexer based on optical switches and fibre Bragg gratings. <i>Optical and Quantum Electronics</i> , 1999, 31, 77-83.                         | 1.5 | 2         |
| 81 | Design of optimal soft decoding for combined trellis coded quantization/modulation in Rayleigh fading channel. , 0, , .   |     | 2         |
| 82 | Performance of DPSK signals with nonlinear phase noise for systems with small number of fiber spans. , 0, , .   |     | 2         |
| 83 | Electric field characterization for phase-Modulated signals using measured spectrogram. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 2143-2145.                       | 1.3 | 2         |
| 84 | Fiber Bragg gratings based multiwavelength cross-connect with high dynamic range. , 0, , .  |     | 1         |
| 85 | Soft-decoding combined trellis-coded quantization/modulation. , 0, , .  |     | 1         |
| 86 | Fault surveillance of branched optical networks using an amplifier-generated wavelength-sweeping monitoring source. , 0, , .  |     | 1         |
| 87 | Optimal detection of solitons with timing jitter. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 2164.                                       | 0.9 | 1         |
| 88 | Equalization-enhanced phase noise for 100Gb/s transmission and beyond with coherent detection. , 2010, , .  |     | 1         |
| 89 | Crosstalk rejection requirements for hybrid WDM system with analog and digital channels. , 0, , .   |     | 0         |
| 90 | Proposed fiber Bragg gratings integrated optical switches for wavelength cross-connect in WDM networks. , 0, , .  |     | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 91 | Broadband access using subcarrier multiplexing and asymmetric digital subscriber lines. , 0, , .  |     | 0         |
| 92 | Simple DCT-based speech coder for Internet applications. , 0, , .   |     | 0         |
| 93 | Polarization Control Technique to Reduce, Power Penalty in Tri-Directional, Transmission Systems. Fiber and Integrated Optics, 2003, 22, 275-282. | 1.7 | 0         |
| 94 | Probability density of signal with nonlinear phase noise. , 0, , .  |     | 0         |
| 95 | Low Noise-figure Miniature Erbium-doped Fibre Amplifier using Uncooled Pump Laser. Optical and Quantum Electronics, 2006, 38, 625-631.            | 1.5 | 0         |
| 96 | Mode coupling in coherent mode-division-multiplexed systems: Impact on capacity and signal processing complexity. , 2012, , .                     |     | 0         |
| 97 | Group delay statistics and management in mode-division multiplexing. , 2015, , .  |     | 0         |
| 98 | Equalization Enhanced Phase Noise Interference in Coherent Optical Communications. , 2010, , .  |     | 0         |
| 99 | Cross-Phase Modulation-Induced Nonlinear Phase Noise for Quadriphase-Shift-Keying Signals. , 2011, , 325-341.                                     |     | 0         |