# David S Millar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5449464/publications.pdf

Version: 2024-02-01

| 27 | 781 | 516710 16 | 752698 20 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 27 | 27 | 27 | 484 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mitigation of Fiber Nonlinearity Using a Digital Coherent Receiver. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1217-1226. | 2.9 | 112 |
| 2 | High-dimensional modulation for coherent optical communications systems. Optics Express, 2014, 22, 8798. | 3.4 | 95 |
| 3 | Multiset-Partition Distribution Matching. IEEE Transactions on Communications, 2019, 67, 1885-1893. | 7.8 | 90 |
| 4 | Design of a 1 Tb/s Superchannel Coherent Receiver. Journal of Lightwave Technology, 2016, 34, 1453-1463. | 4.6 | 70 |
| 5 | Nonlinearity-Tolerant Four-Dimensional 2A8PSK Family for 5â€“7 Bits/Symbol Spectral Efficiency. Journal of Lightwave Technology, 2017, 35, 1383-1391. | 4.6 | 47 |
| 6 | Blind adaptive equalization of â€¨polarization-switched QPSK modulation. Optics Express, 2011, 19, 8533. | 3.4 | 40 |
| 7 | Analysis of Nonlinear Fiber Interactions for Finite-Length Constant-Composition Sequences. Journal of Lightwave Technology, 2020, 38, 457-465. | 4.6 | 39 |
| 8 | Generation and long-haul transmission of polarization-switched QPSK at 429 Gb/s. Optics Express, 2011, 19, 9296. | 3.4 | 38 |
| 9 | Burst Mode Receiver for 112 Gb/s DP-QPSK with parallel DSP. Optics Express, 2011, 19, B770. | 3.4 | 33 |
| 10 | Irregular Polar Coding for Complexity-Constrained Lightwave Systems. Journal of Lightwave Technology, 2018, 36, 2248-2258. | 4.6 | 25 |
| 11 | Neural Turbo Equalization: Deep Learning for Fiber-Optic Nonlinearity Compensation. Journal of Lightwave Technology, 2020, , 1-1. | 4.6 | 23 |
| 12 | Distribution Matching for High Spectral Efficiency Optical Communication With Multiset Partitions. Journal of Lightwave Technology, 2019, 37, 517-523. | 4.6 | 20 |
| 13 | Parallel-Amplitude Architecture and Subset Ranking for Fast Distribution Matching. IEEE Transactions on Communications, 2020, 68, 1981-1990. | 7.8 | 20 |
| 14 | Huffman-Coded Sphere Shaping for Extended-Reach Single-Span Links. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-15. | 2.9 | 19 |
| 15 | Nonlinearity Tolerant LUT-Based Probabilistic Shaping for Extended-Reach Single-Span Links. IEEE Photonics Technology Letters, 2020, 32, 967-970. | 2.5 | 17 |
| 16 | Pareto Optimization of Adaptive Modulation and Coding Set in Nonlinear Fiber-Optic Systems. Journal of Lightwave Technology, 2017, 35, 1041-1049. | 4.6 | 16 |
| 17 | Huffman-Coded Sphere Shaping and Distribution Matching Algorithms via Lookup Tables. Journal of Lightwave Technology, 2020, 38, 2826-2834. | 4.6 | 16 |
| 18 | Long-Haul Transmission of PS-QPSK at 100 Gb/s Using Digital Backpropagation. IEEE Photonics Technology Letters, 2012, 24, 176-178. | 2.5 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Coded Modulation for Next-Generation Optical Communications. , 2018, , . | | 10 |
| 20 | Performance Oriented DSP for Flexible Long Haul Coherent Transmission. Journal of Lightwave Technology, 2022, 40, 1256-1272. | 4.6 | 10 |
| 21 | Novel Method of Generating QAM-16 Signals at 21.3 Gbaud and Transmission Over 480 km. IEEE Photonics Technology Letters, 2010, 22, 36-38. | 2.5 | 9 |
| 22 | Experimental demonstration of multi-pilot aided carrier phase estimation for DP-64QAM and DP-256QAM. , 2015, , . | | 8 |
| 23 | Digital Signal Processing (DSP) and Its Application in Optical Communication Systems. , 2013, , 163-219. | | 7 |
| 24 | Mapping options of 4D constant modulus format for multi-subcarrier modulation. , 2018, , . | | 3 |
| 25 | Dual Coding Concatenation for Burst-Error Correction in Probabilistic Amplitude Shaping. , 2021, , . | | 1 |
| 26 | DSP for Optical Transponders. Springer Handbooks, 2020, , 155-176. | 0.6 | 0 |
| 27 | Experimental Analysis of Mismatched Soft-Demapping for Probabilistic Shaping in Short-Reach Nonlinear Transmission. , 2021, , . | | 0 |