

# Sandis Spolitis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2668338/publications.pdf>

Version: 2024-02-01

77  
papers

480  
citations

933447

10  
h-index

996975

15  
g-index

77  
all docs

77  
docs citations

77  
times ranked

194  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | FPGA-Implemented Fractal Decoder with Forward Error Correction in Short-Reach Optical Interconnects. <i>Entropy</i> , 2022, 24, 122.  | 2.2 | 1         |
| 2  | Silica Microsphere WGMR-Based Kerr-OFC Light Source and Its Application for High-Speed IM/DD Short-Reach Optical Interconnects. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4722. | 2.5 | 3         |
| 3  | Road Pavement Structural Health Monitoring by Embedded Fiber-Bragg-Grating-Based Optical Sensors. <i>Sensors</i> , 2022, 22, 4581.  | 3.8 | 8         |
| 4  | Cladding-Pumped Er/Yb-Co-Doped Fiber Amplifier for Multi-Channel Operation. <i>Photonics</i> , 2022, 9, 457.  | 2.0 | 4         |
| 5  | FBG-Based Sensing for Structural Health Monitoring of Road Infrastructure. <i>Journal of Sensors</i> , 2021, 2021, 1-11.  | 1.1 | 38        |
| 6  | Raman Assisted Fiber Optical Parametric Amplifier for S-Band Multichannel Transmission System. <i>Fibers</i> , 2021, 9, 9.  | 4.0 | 13        |
| 7  | Cladding-Pumped Erbium/Ytterbium Co-Doped Fiber Amplifier for C-Band Operation in Optical Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1702.                             | 2.5 | 12        |
| 8  | Demonstration of a fiber optical communication system employing a silica microsphere-based OFC source. <i>Optics Express</i> , 2021, 29, 10903.   | 3.4 | 13        |
| 9  | 100 Gbaud On-Off Keying/Pulse Amplitude Modulation Links in C-Band for Short-Reach Optical Interconnects. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4284.                       | 2.5 | 3         |
| 10 | Evaluation of the Performance-Affecting Factors in the Converged PON. , 2021, , .   |     | 3         |
| 11 | Optical Frequency Combs Generated in Silica Microspheres in the Telecommunication C-, U-, and E-Bands. <i>Photonics</i> , 2021, 8, 345.   | 2.0 | 11        |
| 12 | The architecture of hybrid mm-wave ARoF Super-PON system for 5G implementation. <i>Optical Fiber Technology</i> , 2021, 67, 102697.   | 2.7 | 2         |
| 13 | IM/DD WDM-PON Communication System Based on Optical Frequency Comb Generated in Silica Whispering Gallery Mode Resonator. <i>IEEE Access</i> , 2021, 9, 66335-66345.                    | 4.2 | 14        |
| 14 | Impact of Kerr optical frequency comb linewidth on the performance of NRZ-OOK modulated fiber optical communication system. <i>Laser Physics</i> , 2021, 31, 115101.                    | 1.2 | 2         |
| 15 | Impact of the receiver and transmitter bandwidth on the performance of high-speed OFDM signal in Radio-over-Fiber Communication Systems. , 2021, , .                                    |     | 2         |
| 16 | Microsphere-Based Optical Frequency Comb Generator for 200 GHz Spaced WDM Data Transmission System. <i>Photonics</i> , 2020, 7, 72.   | 2.0 | 14        |
| 17 | Optical Power Budget of 25+ Gbps IM/DD PON with Digital Signal Post-Equalization. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6106.   | 2.5 | 5         |
| 18 | Research of hybrid WDM-PON data transmission system with embedded ASE-powered stealth channels for steganography applications. <i>Optical Fiber Technology</i> , 2020, 58, 102300.      | 2.7 | 5         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Recent Developments in Cladding-Pumped Doped Fiber Amplifiers for Telecommunications Systems. , 2020, , .  |     | 4         |
| 20 | Frequency comb generation in WGM microsphere based generators for telecommunication applications. Quantum Electronics, 2020, 50, 1043-1049.                                | 1.0 | 13        |
| 21 | Implementation of Multi-Wavelength Source for DWDM-PON Fiber Optical Transmission Systems. Latvian Journal of Physics and Technical Sciences, 2020, 57, 24-33.             | 0.6 | 2         |
| 22 | Evaluation of Intensity Modulated WDM FOTS with Interleaved RS-FEC Code Schemes. , 2020, , .   |     | 1         |
| 23 | Estimating the indivisible error detecting Nodes based on an average probability method. Eastern-European Journal of Enterprise Technologies, 2020, 6, 25-33.              | 0.5 | 3         |
| 24 | Comparison of Dispersion Compensation Techniques for Real-Time up to 160 Gbit/s DWDM C-Band Transmission. Elektronika Ir Elektrotechnika, 2020, 26, 85-93.                 | 0.8 | 14        |
| 25 | Hybrid ARoF-WDM PON Infrastructure for 5G Millimeter-wave Interface and Broadband Internet Service. , 2019, , .  |     | 6         |
| 26 | Research of PAM-4 Modulated WDM-PON Architecture for 5G Millimeter-wave Hybrid Photonics-wireless Interface. , 2019, , .   |     | 0         |
| 27 | Analog Radio-over-fiber WDM-PON Architecture for 5G Millimeter-wave Interface. , 2019, , .   |     | 1         |
| 28 | FBG Sensors Network Embedded in Spectrum-sliced WDM-PON Transmission System Operating on Single Shared Broadband Light Source. , 2019, , .                                 |     | 3         |
| 29 | Performance Analysis of Cost-efficient High-speed up to 32 Gbit/s WDM-PON Next-generation Access Network with Dispersion Compensation. , 2019, , .                         |     | 2         |
| 30 | Integration of FEC Channel-coding Schemes Based on the Bose-Chaudhuri-Hocquenghem (BCH) Code for WDM Fiber Optical Communication Systems. , 2019, , .                      |     | 0         |
| 31 | Evaluation of the Impact of MZM Frequency Response on BER Performance of PAM-4 Modulated WDM-PON. , 2019, , .  |     | 1         |
| 32 | Unified Multi-channel Spectrum-sliced WDM-PON Transmission System with Embedded FBG Sensors Network. , 2019, , .   |     | 4         |
| 33 | Research on FBG-Based Sensor Networks and Their Coexistence with Fiber Optical Transmission Systems. Journal of Sensors, 2019, 2019, 1-13.                                 | 1.1 | 24        |
| 34 | Research of M-PAM and Duobinary Modulation Formats for Use in High-Speed WDM-PON Systems. , 2019, , .  |     | 4         |
| 35 | Noise Immunity of the Fibonacci Counter with the Fractal Decoder Device for Telecommunication Systems. Latvian Journal of Physics and Technical Sciences, 2019, 56, 12-21. | 0.6 | 5         |
| 36 | Research on NRZ-OOK and Duobinary Modulation formats for C and L band 25 Gbit/s WDM-PON Transmission Systems. , 2018, , .  |     | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Evaluation of 4-PAM, NRZ and Duobinary Modulation Formats Performance for Use in 20 Gbit/s DWDM-PON Optical Access Systems. , 2018, , .  |     | 7         |
| 38 | Evaluation of the Channel Spacing and Transceiver Bandwidth for PAM-4 Modulated WDM-PON. , 2018, , .   |     | 2         |
| 39 | Research of FBG Optical Sensors Network and Precise Peak Detection. , 2018, , .  |     | 5         |
| 40 | Considering of PAM-4, DB, NRZ and RZ for Implementation in Next-Generation PONs. , 2018, , .   |     | 2         |
| 41 | Performance investigation of dispersion compensation methods for WDM-PON transmission systems. , 2017, , .   |     | 2         |
| 42 | Evaluation and research of FBG optical temperature sensors network. , 2017, , .  |     | 9         |
| 43 | Design and performance evaluation of FBG-based temperature sensors network. , 2017, , .  |     | 9         |
| 44 | Comparison of C-band and L-band WDM-PON systems performance with PAM-4 modulation format. , 2017, , .  |     | 2         |
| 45 | Demonstration of scalable spectrum-sliced optical WDM-PON access system. , 2017, , .   |     | 1         |
| 46 | Investigation of 4-PAM modulation format for use in WDM-PON optical access systems. , 2017, , .  |     | 5         |
| 47 | Comparison of dispersion compensation methods for 40Gbit/s WDM-PON transmission systems. , 2017, , .   |     | 3         |
| 48 | Comparison of Chromatic Dispersion Compensation Method Efficiency for 10 Gbit/S RZ-OOK and NRZ-OOK Wdm-Pon Transmission Systems. Latvian Journal of Physics and Technical Sciences, 2017, 54, 65-75. | 0.6 | 1         |
| 49 | Influence of dispersion slope compensation on 40 Gbit/s WDM-PON transmission system performance with G.652 and G.655 optical fibers. , 2017, , .   |     | 2         |
| 50 | Extended reach 32-channel dense spectrum-sliced optical access system. , 2016, , .   |     | 5         |
| 51 | Different optical fiber nonlinear coefficient experimental measurements. , 2016, , .   |     | 1         |
| 52 | Investigation on optimal transmission parameters for different modulation formats in 10 Gbit/s WDM-PON systems. , 2016, , .  |     | 2         |
| 53 | Performance comparison of modulation formats for 10 Gbit/s WDM-PON systems. , 2016, , .  |     | 2         |
| 54 | Architecture and evaluation of software-defined optical switching matrix for hybrid data centers. , 2016, , .  |     | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | W-band real-time transmission utilizing a reconfigurable RAU for NG-PON networks. , 2016, , .   |     | 2         |
| 56 | Assessment of broadband light source spectral slicing in PON systems. , 2016, , .   |     | 0         |
| 57 | Effectiveness evaluation of dispersion compensation methods for fiber-optical transmission systems. , 2016, , .   |     | 7         |
| 58 | Investigation on Maximum Available Reach for Different Modulation Formats in WDM-PON Systems. Latvian Journal of Physics and Technical Sciences, 2016, 53, 66-75. | 0.6 | 3         |
| 59 | Towards bandwidth scalable transceiver technology for optical metro-access networks. , 2015, , .  |     | 0         |
| 60 | SDN data center performance evaluation of torus and hypercube interconnecting schemes. , 2015, , .  |     | 7         |
| 61 | Sliceable transponders for metro-access transmission links. , 2015, , .   |     | 0         |
| 62 | Cost effective WDM-AON with multicarrier source based on dual-pump FOPA. , 2014, , .  |     | 11        |
| 63 | Realization of dense bidirectional spectrum sliced WDM-PON access system. , 2014, , .   |     | 5         |
| 64 | Spectrum sliced WDM-PON system as energy efficient solution for optical access systems. , 2013, , .   |     | 2         |
| 65 | Latency causes and reduction in optical metro networks. Proceedings of SPIE, 2013, , .  | 0.8 | 16        |
| 66 | A Novel Approach for Transmission of 56 Gbit/s NRZ Signal in Access Network Using Spectrum Slicing Technique. , 2013, , .   |     | 2         |
| 67 | New generation energy efficient WDM-PON system using spectrum slicing technology. , 2012, , .   |     | 9         |
| 68 | Investigation of high-speed AWG filtered spectrum-sliced WDM PON system. , 2012, , .  |     | 12        |
| 69 | Comparison of chromatic dispersion compensation techniques for WDM-PON solution. , 2012, , .  |     | 11        |
| 70 | Optimal design of spectrally sliced ASE seeded WDM-PON system. , 2012, , .  |     | 12        |
| 71 | Performance improvement of high speed spectrum-sliced dense WDM-PON system. , 2012, , .   |     | 6         |
| 72 | Reach Improvement of Spectrum-Sliced Dense WDM-PON System. , 2012, , .  |     | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Comparison of Passive Chromatic Dispersion Compensation Techniques for Long Reach Dense WDM-PON System. Elektronika Ir Elektrotehnika, 2012, 122, . | 0.8 | 5         |
| 74 | Extending the reach of DWDM-PON access network using chromatic dispersion compensation. , 2011, , .   |     | 33        |
| 75 | Schemes for Compensation of Chromatic Dispersion in Combined HDWDM Systems. Latvian Journal of Physics and Technical Sciences, 2011, 48, .          | 0.6 | 11        |
| 76 | Mixed Chromatic Dispersion Compensation Methods for Combined HDWDM Systems. , 2011, , .   |     | 12        |
| 77 | Fiber Bragg Grating Sensors Integration in Fiber Optical Systems. , 0, , .  |     | 1         |