# Ampalavanapillai Nirmalathas

List of Publications by Year
in descending order



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|---|---|---|---|
| 374 papers | 4,657 citations | 117453 34 h-index | 161609 54 g-index |
| 378 all docs | 378 docs citations | 378 times ranked | 3035 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Radio-Over-Fiber Technologies for Emerging Wireless Systems. IEEE Journal of Quantum Electronics, 2016, 52, 1-11. | 1.0 | 180 |
| 2 | Analysis of optical carrier-to-sideband ratio for improving transmission performance in fiber-radio links. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2181-2187. | 2.9 | 146 |
| 3 | Transmission improvement in fiber wireless links using fiber Bragg gratings. IEEE Photonics Technology Letters, 2005, 17, 190-192. | 1.3 | 130 |
| 4 | 5G C-RAN With Optical Fronthaul: An Analysis From a Deployment Perspective. Journal of Lightwave Technology, 2018, 36, 2059-2068. | 2.7 | 126 |
| 5 | Evolution of Radio-Over-Fiber Technology. Journal of Lightwave Technology, 2019, 37, 1647-1656. | 2.7 | 113 |
| 6 | Intermodulation Distortion Improvement for Fiber–Radio Applications Incorporating OSSB+C Modulation in an Optical Integrated-Access Environment. Journal of Lightwave Technology, 2007, 25, 1602-1612. | 2.7 | 106 |
| 7 | High-Speed Optical Wireless Communication System for Indoor Applications. IEEE Photonics Technology Letters, 2011, 23, 519-521. | 1.3 | 93 |
| 8 | Millimeter-wave broad-band fiber-wireless system incorporating baseband data transmission over fiber and remote LO delivery. Journal of Lightwave Technology, 2000, 18, 1355-1363. | 2.7 | 91 |
| 9 | 4$,imes,$12.5 Gb/s WDM Optical Wireless Communication System for Indoor Applications. Journal of Lightwave Technology, 2011, 29, 1988-1996. | 2.7 | 84 |
| 10 | Digitized Radio-Over-Fiber Technologies for Converged Optical Wireless Access Network. Journal of Lightwave Technology, 2010, 28, 2366-2375. | 2.7 | 78 |
| 11 | Wavelength reuse in the WDM optical interface of a millimeter-wave fiber-wireless antenna base station. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 2006-2012. | 2.9 | 71 |
| 12 | Modeling the Total Energy Consumption of Mobile Network Services and Applications. Energies, 2019, 12, 184. | 1.6 | 70 |
| 13 | Next generation optical-wireless converged network architectures. IEEE Network, 2012, 26, 22-27. | 4.9 | 67 |
| 14 | Performance analysis of optimized millimeter-wave fiber radio links. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 921-928. | 2.9 | 66 |
| 15 | Digitized RF transmission over fiber. IEEE Microwave Magazine, 2009, 10, 75-81. | 0.7 | 64 |
| 16 | Tunable All-Optical Wavelength Conversion of 160-Gb/s RZ Optical Signals by Cascaded SFG-DFG Generation in PPLN Waveguide. IEEE Photonics Technology Letters, 2007, 19, 384-386. | 1.3 | 63 |
| 17 | High-speed duplex optical wireless communication system for indoor personal area networks. Optics Express, 2010, 18, 25199. | 1.7 | 63 |
| 18 | Design and Analysis of Digitized RF-Over-Fiber Links. Journal of Lightwave Technology, 2009, 27, 2052-2061. | 2.7 | 62 |

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| 19 | Analysis of large flood events: Based on flood data during 1985â€“2016 in Australia and India. International Journal of Disaster Risk Reduction, 2017, 24, 1-11. | 1.8 | 61 |
| 20 | Radio-Over-Fiber Technology: Present and Future. Journal of Lightwave Technology, 2021, 39, 881-888. | 2.7 | 60 |
| 21 | Full-Duplex Gigabit Indoor Optical Wireless Communication System With CAP Modulation. IEEE Photonics Technology Letters, 2016, 28, 790-793. | 1.3 | 55 |
| 22 | On the merging of millimeter-wave fiber-radio backbone with 25-ghz wdm ring networks. Journal of Lightwave Technology, 2003, 21, 2203-2210. | 2.7 | 51 |
| 23 | Hybrid Multiplexing of Multiband Optical Access Technologies Towards an Integrated DWDM Network. IEEE Photonics Technology Letters, 2006, 18, 2311-2313. | 1.3 | 50 |
| 24 | Capacity analysis for WDMm fiber-radio backbones with star-tree and ring architecture incorporating wavelength interleaving. Journal of Lightwave Technology, 2003, 21, 3308-3315. | 2.7 | 47 |
| 25 | Energy-Aware Routing for Software-Defined Multihop Wireless Sensor Networks. IEEE Sensors Journal, 2021, 21, 10174-10182. | 2.4 | 45 |
| 26 | All-Graphene Planar Self-Switching MISFEDs, Metal-Insulator-Semiconductor Field-Effect Diodes. Scientific Reports, 2014, 4, 3983. | 1.6 | 42 |
| 27 | Mitigation strategy for transmission impairments in millimeter-wave radio-over-fiber networks [Invited]. Journal of Optical Networking, 2009, 8, 201. | 2.5 | 41 |
| 28 | Network Energy Consumption Assessment of Conventional Mobile Services and Over-the-Top Instant Messaging Applications. IEEE Journal on Selected Areas in Communications, 2016, 34, 3168-3180. | 9.7 | 38 |
| 29 | An Energy-Efficient Miniaturized Intracranial Pressure Monitoring System. IEEE Journal of Solid-State Circuits, 2017, 52, 720-734. | 3.5 | 38 |
| 30 | 5G C-RAN architecture: A comparison of multiple optical fronthaul networks. , 2017, , . | | 38 |
| 31 | Methodologies for Assessing the Use-Phase Power Consumption and Greenhouse Gas Emissions of Telecommunications Network Services. Environmental Science & Technology, 2013, 47, 485-492. | 4.6 | 37 |
| 32 | A single sensor based multispectral imaging camera using a narrow spectral band color mosaic integrated on the monochrome CMOS image sensor. APL Photonics, 2020, 5, . | 3.0 | 37 |
| 33 | 60 GHz Analog Radio-Over-Fiber Fronthaul Investigations. Journal of Lightwave Technology, 2017, 35, 4304-4310. | 2.7 | 36 |
| 34 | Experimental Demonstration of a Full-Duplex Indoor Optical Wireless Communication System. IEEE Photonics Technology Letters, 2012, 24, 188-190. | 1.3 | 35 |
| 35 | Cost-Optimal Placement and Backhauling of Small-Cell Networks. Journal of Lightwave Technology, 2015, 33, 3850-3857. | 2.7 | 35 |
| 36 | High-speed indoor optical wireless communication system employing a silicon integrated photonic circuit. Optics Letters, 2018, 43, 3132. | 1.7 | 35 |

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| 37 | Extending optical transmission distance in fiber wireless links using passive filtering in conjunction with optimized modulation. Journal of Lightwave Technology, 2006, 24, 1703-1709. | 2.7 | 34 |
| 38 | Direct Electrohydrodynamic Patterning of High-Performance All Metal Oxide Thin-Film Electronics. ACS Nano, 2019, 13, 13957-13964. | 7.3 | 34 |
| 39 | Best optimizer selection for predicting bushfire occurrences using deep learning. Natural Hazards, 2020, 103, 845-860. | 1.6 | 34 |
| 40 | Multifunctional WDM optical interface for Millimeter-wave fiber-radio antenna base station. Journal of Lightwave Technology, 2005, 23, 1210-1218. | 2.7 | 32 |
| 41 | 4G to 6G: disruptions and drivers for optical access [Invited]. Journal of Optical Communications and Networking, 2022, 14, A143. | 3.3 | 31 |
| 42 | Wavelength-interleaved OADMS incorporating optimized multiple phase-shifted fbgs for fiber-radio systems. Journal of Lightwave Technology, 2003, 21, 32-39. | 2.7 | 30 |
| 43 | Simultaneous multiplexing and demultiplexing of wavelength-interleaved channels in DWDM millimeter-wave fiber-radio networks. Journal of Lightwave Technology, 2006, 24, 3341-3352. | 2.7 | 30 |
| 44 | Hybrid Fiber-Wireless Network: An Optimization Framework for Survivable Deployment. Journal of Optical Communications and Networking, 2017, 9, 466. | 3.3 | 30 |
| 45 | Design and performance of the bidirectional optical single-sideband modulator. Journal of Lightwave Technology, 2003, 21, 1071-1082. | 2.7 | 28 |
| 46 | Simplification of millimeter-wave radio-over-fiber system employing heterodyning of uncorrelated optical carriers and self-homodyning of RF signal at the receiver. Optics Express, 2012, 20, 5707. | 1.7 | 28 |
| 47 | Novel schemes for local area network emulation in passive optical networks with RF subcarrier multiplexed customer traffic. Journal of Lightwave Technology, 2005, 23, 2974-2983. | 2.7 | 27 |
| 48 | High-speed indoor optical wireless communication system with single channel imaging receiver. Optics Express, 2012, 20, 8442. | 1.7 | 27 |
| 49 | Optical Transport Network Design for 5G Fixed Wireless Access. Journal of Lightwave Technology, 2019, 37, 3893-3901. | 2.7 | 27 |
| 50 | A novel local area network emulation technique on passive optical networks. IEEE Photonics Technology Letters, 2005, 17, 1121-1123. | 1.3 | 26 |
| 51 | An exact analytical model for dispersive transmission in microwave fiber-optic links using Mach-Zehnder external modulator. IEEE Photonics Technology Letters, 2005, 17, 1525-1527. | 1.3 | 26 |
| 52 | Efficient multiplexing scheme for wavelength-interleaved DWDM millimeter-wave fiber-radio systems. IEEE Photonics Technology Letters, 2005, 17, 2718-2720. | 1.3 | 26 |
| 53 | Indoor infrared optical wireless localization system with background light power estimation capability. Optics Express, 2017, 25, 22923. | 1.7 | 26 |
| 54 | Asymmetrically-gated graphene self-switching diodes as negative differential resistance devices. Nanoscale, 2014, 6, 7628-7634. | 2.8 | 25 |

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| 55 | Protection switching and local area network emulation in passive optical networks. Journal of Lightwave Technology, 2006, 24, 1955-1967. | 2.7 | 24 |
| 56 | Multichannel Digitized RF-Over-Fiber Transmission Based on Bandpass Sampling and FPGA. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3181-3188. | 2.9 | 24 |
| 57 | Optical crosstalk in fiber-radio WDM networks. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 2030-2035. | 2.9 | 23 |
| 58 | Implementation of multiple secure virtual private networks over passive optical networks using electronic CDMA. IEEE Photonics Technology Letters, 2006, 18, 484-486. | 1.3 | 23 |
| 59 | Performance Analysis of Repetition-Coding and Space-Time-Block-Coding as Transmitter Diversity Schemes for Indoor Optical Wireless Communications. Journal of Lightwave Technology, 2019, 37, 5170-5177. | 2.7 | 23 |
| 60 | Generation of 140 GHz optical pulses with suppressed amplitude modulation by subharmonic synchronous modelocking of Fabry-Perot semiconductor laser. Electronics Letters, 2001, 37, 581. | 0.5 | 22 |
| 61 | Novel technique for reduction of amplitude modulation of pulse trains generated by subharmonic synchronous mode-locked laser. IEEE Photonics Technology Letters, 2002, 14, 543-545. | 1.3 | 22 |
| 62 | Experimental Demonstration of Multi-Service Hybrid Fiber-Radio System Using Digitized RF-Over-Fiber Technique. Journal of Lightwave Technology, 2011, 29, 2131-2137. | 2.7 | 22 |
| 63 | Millimeter-Wave Radio-Over-Fiber System Based on Heterodyned Unlocked Light Sources and Self-Homodyned RF Receiver. IEEE Photonics Technology Letters, 2011, 23, 459-461. | 1.3 | 21 |
| 64 | Subharmonic synchronous mode-locking of a monolithic semiconductor laser operating at millimeter-wave frequencies. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 261-269. | 1.9 | 20 |
| 65 | Impact of background light induced shot noise in high-speed full-duplex indoor optical wireless communication systems. Optics Express, 2011, 19, 21321. | 1.7 | 20 |
| 66 | Experimental demonstration of a novel indoor optical wireless localization system for high-speed personal area networks. Optics Letters, 2015, 40, 1246. | 1.7 | 20 |
| 67 | Optical Wireless-Based Indoor Localization System Employing a Single-Channel Imaging Receiver. Journal of Lightwave Technology, 2016, 34, 1141-1149. | 2.7 | 20 |
| 68 | Deployment and Resource Distribution of Mobile Edge Hosts Based on Correlated User Mobility. IEEE Access, 2019, 7, 148-159. | 2.6 | 20 |
| 69 | WDM passive optical network with subcarrier transmission and baseband detection scheme for laser-free optical network units. IEEE Photonics Technology Letters, 2006, 18, 1279-1281. | 1.3 | 19 |
| 70 | Tuneable graphene nanopores for single biomolecule detection. Nanoscale, 2016, 8, 10066-10077. | 2.8 | 19 |
| 71 | Electrically band-limited CSRZ signal with simple generation and large dispersion tolerance for 40-Gb/s WDM transmission systems. IEEE Photonics Technology Letters, 2003, 15, 987-989. | 1.3 | 18 |
| 72 | Improving Energy Efficiency of Video on Demand Services. Journal of Optical Communications and Networking, 2011, 3, 870. | 3.3 | 18 |

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| 73 | Four-Wave-Mixing-Based Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity. IEEE Photonics Technology Letters, 2016, 28, 1739-1742. | 1.3 | 18 |
| 74 | Analytical Characterization of Optical Pulse Propagation in Polarization-Sensitive Semiconductor Optical Amplifiers. IEEE Journal of Quantum Electronics, 2006, 42, 1062-1077. | 1.0 | 17 |
| 75 | Simplified Generation, Transport, and Data Recovery of Millimeter-Wave Signal in a Full-Duplex Bidirectional Fiber-Wireless System. IEEE Photonics Technology Letters, 2012, 24, 1428-1430. | 1.3 | 17 |
| 76 | A 60-GHz Radio-Over-Fiber Fronthaul Using Integrated Microwave Photonics Filters. IEEE Photonics Technology Letters, 2017, 29, 1663-1666. | 1.3 | 17 |
| 77 | Progress in millimeter-wave fiber-radio access networks. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 27-38. | 1.6 | 16 |
| 78 | Dispersion-induced power penalties in millimeter-wave signal transmission using multisection DBR semiconductor laser. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 288-296. | 2.9 | 16 |
| 79 | Cost-Effective Introduction and Energy-Efficient Operation of Long-Reach WDM/TDM PON Systems. Journal of Lightwave Technology, 2011, 29, 3135-3143. | 2.7 | 16 |
| 80 | Local-Traffic-Redirection-Based Dynamic Bandwidth Assignment Scheme for EPON With Active Forwarding Remote Repeater Node. Journal of Optical Communications and Networking, 2011, 3, 245. | 3.3 | 16 |
| 81 | High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects. IEEE Photonics Journal, 2012, 4, 1407-1419. | 1.0 | 16 |
| 82 | Experimental demonstration of high-speed free-space reconfigurable card-to-card optical interconnects. Optics Express, 2013, 21, 2850. | 1.7 | 16 |
| 83 | All-Graphene Planar Double Barrier Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2014, 2, 118-122. | 1.2 | 16 |
| 84 | Secure multiple access for indoor optical wireless communications with time-slot coding and chaotic phase. Optics Express, 2017, 25, 22046. | 1.7 | 16 |
| 85 | Techniques for multichannel data transmission using a multisection laser in millimeter-wave fiber-radio systems. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 1351-1357. | 2.9 | 15 |
| 86 | Optical Clock Recovery at Line Rates via Injection Locking of a Long Cavity Fabryâ€“PÃ‰rot Laser Diode. IEEE Photonics Technology Letters, 2004, 16, 1561-1563. | 1.3 | 15 |
| 87 | Upstream Access and Local Area Networking in Passive Optical Networks Using Self-Seeded Reflective Semiconductor Optical Amplifier. IEEE Photonics Technology Letters, 2007, 19, 1559-1561. | 1.3 | 15 |
| 88 | Mobility-Aware Energy Optimization in Hosts Selection for Computation Offloading in Multi-Access Edge Computing. IEEE Open Journal of the Communications Society, 2020, 1, 1056-1065. | 4.4 | 15 |
| 89 | Demonstration of Non-Orthogonal Multiple Access Scheme using Multilevel Coding without Successive Interference Cancellation with 60 GHz Radio-over-Fiber Fronthaul. , 2018, , . | | 15 |
| 90 | RZ/CSRZ-DPSK and Chirped NRZ Signal Generation Using a Single-Stage Dual-Electrode Mach-Zehnder Modulator. IEEE Photonics Technology Letters, 2004, 16, 2466-2468. | 1.3 | 14 |

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| 91 | Generalized analysis of subcarrier multiplexing in dispersive fiber-optic links using Mach-Zehnder external modulator. Journal of Lightwave Technology, 2006, 24, 2296-2304. | 2.7 | 14 |
| 92 | Efficient Transmission Scheme for AWG-Based DWDM Millimeter-Wave Fiber-Radio Systems. IEEE Photonics Technology Letters, 2007, 19, 206-208. | 1.3 | 14 |
| 93 | Impact of chromatic dispersion on 60 GHz radio-over-fiber transmission. , 2008, , . | | 14 |
| 94 | Experimental demonstration of digitized RF transport over optical fiber links. , 2008, , . | | 14 |
| 95 | All-Graphene Planar Double-Quantum-Dot Resonant Tunneling Diodes. IEEE Journal of the Electron Devices Society, 2016, 4, 30-39. | 1.2 | 14 |
| 96 | Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. IEEE Systems Journal, 2020, 14, 4653-4662. | 2.9 | 14 |
| 97 | Indoor optical wireless access networksâ€"recent progress [Invited]. Journal of Optical Communications and Networking, 2021, 13, A178. | 3.3 | 14 |
| 98 | Optical single-sideband modulator for broad-band subcarrier multiplexing systems. IEEE Photonics Technology Letters, 2003, 15, 311-313. | 1.3 | 13 |
| 99 | Power equalization using polarization rotation in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 2005, 17, 1695-1697. | 1.3 | 13 |
| 100 | Performance Comparison of Directly Modulated VCSEL and DFB Lasers in Wired-Wireless Networks. IEEE Photonics Technology Letters, 2008, 20, 2102-2104. | 1.3 | 13 |
| 101 | Remote Repeater-Based EPON With MAC Forwarding for Long-Reach and High-Split-Ratio Passive Optical Networks. Journal of Optical Communications and Networking, 2010, 2, 28. | 3.3 | 13 |
| 102 | Experimental demonstration of 3Ã—310â€‰â€‰Gb/s reconfigurable free space optical card-to-card interconnects. Optics Letters, 2012, 37, 2553. | 1.7 | 13 |
| 103 | Transmission Enhancement in Coaxial Hole Array Based Plasmonic Color Filter for Image Sensor Applications. IEEE Photonics Journal, 2018, 10, 1-9. | 1.0 | 13 |
| 104 | Dispersion-tolerant multiple WDM channel millimeter-wave signal generation using a single monolithic mode-locked semiconductor laser. Journal of Lightwave Technology, 2005, 23, 295-303. | 2.7 | 12 |
| 105 | Experimental characterization of single and cascaded WDM optical interfaces in a MM-wave fiber-radio network. IEEE Photonics Technology Letters, 2006, 18, 115-117. | 1.3 | 12 |
| 106 | Optical Tandem Single-Sideband-Based WDM Interface for Millimeter-Wave Fiber-Radio Multisector Antenna Base Station. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 725-732. | 2.9 | 12 |
| 107 | Performance of High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects Under Air Turbulence. Journal of Lightwave Technology, 2013, 31, 1687-1693. | 2.7 | 12 |
| 108 | Highly Effective Conductance Modulation in Planar Silicene Field Effect Devices Due to Buckling. Scientific Reports, 2015, 5, 14815. | 1.6 | 12 |

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| 109 | Telecommunications energy and greenhouse gas emissions management for future network growth. Applied Energy, 2016, 166, 174-185. | 5.1 | 12 |
| 110 | Optical X-haul options for 5G fixed wireless access: Which one to choose?. , 2018, , . | | 12 |
| 111 | Advancements towards Global IoT Device Discovery and Integration. , 2019, , . | | 12 |
| 112 | Subharmonic synchronous and hybrid mode-locking of a monolithic DBR laser operating at millimeter-wave frequencies. IEEE Photonics Technology Letters, 1997, 9, 434-436. | 1.3 | 11 |
| 113 | Bit-Rate Identification Using Asynchronous Delayed Sampling. IEEE Photonics Technology Letters, 2009, 21, 893-895. | 1.3 | 11 |
| 114 | Popularity-Aware Caching Algorithm for Video-on-Demand Delivery over Broadband Access Networks. , 2010, , . | | 11 |
| 115 | Single-Channel Directly Detected Optical-OFDM Towards Higher Spectral Efficiency and Simplicity in 100 Gb/s Ethernet and Beyond. Journal of Optical Communications and Networking, 2011, 3, 426. | 3.3 | 11 |
| 116 | Quality of service assurance in EPON-WiMAX converged network. , 2011, , . | | 11 |
| 117 | Impact of Crosstalk on Indoor WDM Optical Wireless Communication Systems. IEEE Photonics Journal, 2012, 4, 375-386. | 1.0 | 11 |
| 118 | High-speed free-space based reconfigurable card-to-card optical interconnects with broadcast capability. Optics Express, 2013, 21, 15395. | 1.7 | 11 |
| 119 | Architecture Discovery Enabled Resource Allocation Mechanism for Next Generation Optical-Wireless Converged Networks. Journal of Optical Communications and Networking, 2013, 5, 1083. | 3.3 | 11 |
| 120 | Hybrid Coordination Function Controlled Channel Access for Latency-Sensitive Tactile Applications. , 2017, , . | | 11 |
| 121 | A Software-Defined Management System for IP-Enabled WSNs. IEEE Systems Journal, 2020, 14, 2335-2346. | 2.9 | 11 |
| 122 | Dispersion Effects in Millimeter-Wave Fiber-Radio Systems Employing Direct-Sequence Code Division Multiple Access. Optical Fiber Technology, 1999, 5, 165-174. | 1.4 | 10 |
| 123 | Performance Enhanced Butt Coupling for Effective Interconnection Between Fiber and Silicon Nanowire. IEEE Journal of Quantum Electronics, 2016, 52, 1-6. | 1.0 | 10 |
| 124 | A Predictive Semi-Persistent Scheduling Scheme for Low-Latency Applications in LTE and NR Networks. , 2019, , . | | 10 |
| 125 | IoT Device Integration and Payment via an Autonomic Blockchain-Based Service for IoT Device Sharing. Sensors, 2022, 22, 1344. | 2.1 | 10 |
| 126 | Increasing upstream capacity in TDM-PON with multiple-wavelength transmission using Fabry-Perot laser diodes. Optics Express, 2007, 15, 10247. | 1.7 | 9 |

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| 127 | Internetworking VCSEL-Based Hybrid Base Station Towards Simultaneous Wireless and Wired Transport for Converged Access Network. IEEE Photonics Technology Letters, 2008, 20, 569-571. | 1.3 | 9 |
| 128 | Scalable and Spectrally Efficient Long-Reach Optical Access Networks Employing Frequency Interleaved Directly Detected Optical OFDM. Journal of Optical Communications and Networking, 2011, 3, 881. | 3.3 | 9 |
| 129 | Radio-over-fiber as the energy efficient backhaul option for mobile base stations. , 2011, , . | | 9 |
| 130 | Multilevel Intensity Modulations for Simplified Full-Duplex Millimeter-Wave Radio-Over-Fiber System for Gigabit Access. IEEE Photonics Journal, 2012, 4, 1956-1972. | 1.0 | 9 |
| 131 | An Efficient Resource Allocation Mechanism for LTEâ€“GEPON Converged Networks. Journal of Network and Systems Management, 2014, 22, 437-461. | 3.3 | 9 |
| 132 | Multi-gigabit indoor optical wireless networks â€” Feasibility and challenges. , 2016, , . | | 9 |
| 133 | A software-defined networking framework for IoT based on 6LoWPAN. , 2018, , . | | 9 |
| 134 | Indoor gigabit optical wireless communication system for personal area networks. , 2010, , . | | 8 |
| 135 | Energy efficiency of on-demand video caching systems and user behavior. Optics Express, 2011, 19, B260. | 1.7 | 8 |
| 136 | Ultra-broadband indoor optical wireless communication system with multimode fiber. Optics Letters, 2012, 37, 1514. | 1.7 | 8 |
| 137 | Transport Schemes for Fiber-Wireless Technology: Transmission Performance and Energy Efficiency. Photonics, 2014, 1, 67-82. | 0.9 | 8 |
| 138 | Experimental demonstration of free-space based 120â€‰â€‰Gb/s reconfigurable card-to-card optical interconnects. Optics Letters, 2014, 39, 5717. | 1.7 | 8 |
| 139 | Review of physical layer networking for optical-wireless integration. Optical Engineering, 2015, 55, 031113. | 0.5 | 8 |
| 140 | Hierarchical aggregation method for a scalable implementation of demand side management. Computers and Operations Research, 2018, 96, 188-199. | 2.4 | 8 |
| 141 | Multi-cell coordination for 60ÂGHz RoF fronthaul enabled by a non-orthogonal multiple access scheme without successive interference cancellation. Optics Letters, 2018, 43, 4236. | 1.7 | 8 |
| 142 | All-optical coding of mode-locked semiconductor laser pulse trains for high bit rate optical communications. Optics Communications, 2003, 217, 161-167. | 1.0 | 7 |
| 143 | Active Remote Node with Layer Two Forwarding for Improving Performance of EPON. , 2008, , . | | 7 |
| 144 | Radio-over-fiber systems. , 2009, , . | | 7 |

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| 145 | OFDM Versus Single Carrier Towards Spectrally Efficient 100ÂGb/s Transmission With Direct Detection. Journal of Optical Communications and Networking, 2012, 4, 779. | 3.3 | 7 |
| 146 | Multilevel Modulations for Gigabit Access in a Simple Millimeter-Wave Radio-Over-Fiber Link. IEEE Photonics Technology Letters, 2012, 24, 1860-1863. | 1.3 | 7 |
| 147 | Converged fiber-wireless access networks for next generation mobile backhaul enabling CoMP. , 2013, , . | | 7 |
| 148 | Space-Time-Coded High-Speed Reconfigurable Card-to-Card Free-Space Optical Interconnects. Journal of Optical Communications and Networking, 2017, 9, A189. | 3.3 | 7 |
| 149 | Performance evaluation of CoMP for downlink 60-GHz radio-over-fiber fronthaul. , 2017, , . | | 7 |
| 150 | A Feasibility Study of IEEE 802.11 HCCA for Low-Latency Applications. IEEE Transactions on Communications, 2019, 67, 4928-4938. | 4.9 | 7 |
| 151 | Hybrid Color Filters for Multispectral Imaging. Advanced Theory and Simulations, 2020, 3, 2000137. | 1.3 | 7 |
| 152 | Indoor Optical Wireless Communications using Few-mode Based Uniform Beam Shaping and LMS Based Adaptive Equalization. , 2020, , . | | 7 |
| 153 | Generation and Separation of Closely Separated Dual Baseband Channels for Provisioning of Independent Services in WDM-PON. IEEE Photonics Technology Letters, 2007, 19, 1215-1217. | 1.3 | 6 |
| 154 | Frequency interleaving towards spectrally efficient directly detected optical OFDM for next-generation optical access networks. Optics Express, 2010, 18, 23161. | 1.7 | 6 |
| 155 | DRoF incorporating multi-level modulation for radio-over-fiber. , 2011, , . | | 6 |
| 156 | Graphene Self Switching Diodes with high rectification ratios. , 2013, , . | | 6 |
| 157 | A Novel Network Architecture for Indoor Optical Wireless Communication. , 2019, , . | | 6 |
| 158 | Time-slot coding scheme for multiple access in indoor optical wireless communications. Optics Letters, 2016, 41, 5166. | 1.7 | 6 |
| 159 | Optical Wireless Communications Using Signal Space Diversity with Spatial Modulation. Photonics, 2021, 8, 468. | 0.9 | 6 |
| 160 | The impact of grating dispersion on transmission performance in a millimeter-wave fiber-radio system. IEEE Photonics Technology Letters, 2002, 14, 1345-1347. | 1.3 | 5 |
| 161 | Impact of optical pulse shape on the performance of Long-Haul high capacity DWDM systems. Optics Communications, 2004, 234, 217-227. | 1.0 | 5 |
| 162 | Electrically Band-Limited CSRZ-DPSK Signal With a Simple Transmitter Configuration and Reduced Linear Crosstalk in High Spectral Efficiency DWDM Systems. IEEE Photonics Technology Letters, 2004, 16, 2135-2137. | 1.3 | 5 |

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| 163 | Hybrid multiplexing towards the integration of millimeter-wave fiber-radio systems in DWDM access networks. , 2005, , . | | 5 |
| 164 | Technique to improve carrier-to-interference ratio of optical single sideband with carrier modulated signals. Optics Express, 2006, 14, 11077. | 1.7 | 5 |
| 165 | Upstream access and local customer networking in passive optical networks using a single wavelength-seeded reflective semiconductor optical amplifier. Optics Communications, 2007, 273, 246-251. | 1.0 | 5 |
| 166 | Wavelength switchable ONU transmitter using a self-seeded RSOA for reconfigurable optical VPN over WDM PON. , 2008, , . | | 5 |
| 167 | Simple VCSEL Base-Station Configuration for Hybrid Fiber-Wireless Access Networks. IEEE Photonics Technology Letters, 2009, 21, 534-536. | 1.3 | 5 |
| 168 | Localized P2P VoD Delivery Scheme with Pre-Fetching for Broadband Access Networks. , 2011, , . | | 5 |
| 169 | High-Speed Indoor Optical Wireless Communication System with a Steering Mirror Based Up-Link Receiver. , 2012, , . | | 5 |
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| 172 | IEEE 802.11 HCCA for tactile applications. , 2017, , . | | 5 |
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