

Nicholas Madamopoulos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

706
citations

16
h-index

22
g-index

99
ext. papers

823
ext. citations

2.9
avg, IF

3.98
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 79 | Novel Measurement-Based Efficient Computational Approach to Modeling Optical Power Transmission in Step-Index Polymer Optical Fiber. <i>Photonics</i> , 2022 , 9, 260 | 2.2 | |
| 78 | Integrated Photonic Linear Frequency Discriminator Filter for 5G Phase-Modulated Microwave Photonic Links. <i>Journal of Lightwave Technology</i> , 2021 , 1-1 | 4 | |
| 77 | Intelligent Traffic-Lights Management by Exploiting Smart Antenna Technology (ITSAT). <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 1-1 | 2.6 | 1 |
| 76 | Experimental demonstration and performance evaluation of a complex fenestration system for daylighting and thermal harvesting. <i>Solar Energy</i> , 2020 , 197, 385-395 | 6.8 | 11 |
| 75 | . <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 12, 66-77 | 2.6 | 1 |
| 74 | Fiber loop mirror based single-platform multifunctional Michelson-Gires-Tournois filter. <i>Optics Communications</i> , 2019 , 436, 134-142 | 2 | 3 |
| 73 | Comparison of Optimized Mathematical Methods in the Improvement of Raster Data and Map Display Resolution of Sentinel-2 Images 2018 , | | 1 |
| 72 | Linearization of photonic components for digital and analog optical fiber communication systems 2017 , | | 2 |
| 71 | Nonlinear optical detections of structural distortions at degraded Fe-doped SrTiO ₃ interfaces. <i>Materials Chemistry and Physics</i> , 2017 , 198, 131-136 | 4.4 | 11 |
| 70 | Daylight and thermal harvesting performance evaluation of a liquid filled prismatic facade using the Radiance five-phase method and EnergyPlus. <i>Building and Environment</i> , 2017 , 126, 396-409 | 6.5 | 22 |
| 69 | Temperature sensitivity of POF links for avionics applications 2017 , | | 1 |
| 68 | Adaptive High Linearity Intensity Modulator for Advanced Microwave Photonic Links 2017 , | | 2 |
| 67 | Ahorrar: Indoor Occupancy Counting to Enable Smart Energy Efficient Office Buildings 2016 , | | 5 |
| 66 | Modelling Wireless Propagation for Indoor Localization. <i>Journal of Cyber Security and Mobility</i> , 2016 , 4, 279-304 | 1 | 2 |
| 65 | Optical frequency discriminator with ultrahigh-amplitude-and-phase linearity for frequency-modulated microwave photonic links 2016 , | | 5 |
| 64 | Quantification of energy savings from dynamic solar radiation regulation strategies in office buildings. <i>Energy and Buildings</i> , 2016 , 122, 140-149 | 7 | 12 |
| 63 | Beam Combining of SOA-Based Bidirectional Tunable Fiber Nested Ring Lasers With Continuous Tunability Over the C-band at Room Temperature. <i>Journal of Lightwave Technology</i> , 2016 , 34, 3703-3710 | 4 | 7 |

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|----|---|-----|----|
| 62 | Liquid filled prismatic louver façade for enhanced daylighting in high-rise commercial buildings. <i>Optics Express</i> , 2015 , 23, A805-18 | 3.3 | 13 |
| 61 | A New Methodology for Quantifying the Impact of Direct and Diffuse Solar Radiation on Energy Savings in Commercial Office Spaces. <i>Energy Procedia</i> , 2015 , 78, 2214-2219 | 2.3 | 1 |
| 60 | Fiber-optic Michelson-Gires-Turnois interferometer based multifunctional optical filter for microwave photonic applications 2015 , | | 1 |
| 59 | Managing traffic-light-duration by exploiting smart antenna technology (MATSAT) 2015 , | | 1 |
| 58 | . <i>Journal of Lightwave Technology</i> , 2014 , 32, 939-946 | 4 | 10 |
| 57 | Laser Based Projection System for Displays, Signage and Illumination. <i>Journal of Display Technology</i> , 2014 , 10, 832-839 | | 6 |
| 56 | Performance Analysis of a Hybrid Raman Optical Parametric Amplifier in the O- and E-Bands for CWDM PONs. <i>Photonics</i> , 2014 , 1, 473-487 | 2.2 | 0 |
| 55 | Modeling Methodology for Engineering SI-POF and Connectors in an Avionics System. <i>Journal of Lightwave Technology</i> , 2013 , 31, 468-475 | 4 | 19 |
| 54 | High performance microring resonator (MRR)-based optical filter with reduced group delay and simplified center-wavelength control 2013 , | | 2 |
| 53 | Prismatic louver active façades for natural illumination and thermal energy gain in high-rise and commercial buildings 2013 , | | 3 |
| 52 | Interferometric modulator with phase-modulating and cavity-modulating components (IMPACC) for high linearity microwave applications: technology review 2013 , | | 1 |
| 51 | A Fully Distributed 10G-EPON-based Converged Fixed-Mobile Networking Transport Infrastructure for Next Generation Broadband Access. <i>Journal of Optical Communications and Networking</i> , 2012 , 4, 366 ^{4.1} | | 19 |
| 50 | 2012 , | | 1 |
| 49 | Switchable dual-wavelength SOA-based fiber laser with continuous tunability over the C-band at room-temperature. <i>Optics Express</i> , 2012 , 20, 23367-73 | 3.3 | 15 |
| 48 | Optimization of gain bandwidth and gain ripple of a hybrid Raman/parametric amplifier for access network applications. <i>Applied Optics</i> , 2012 , 51, 7834-41 | 1.7 | 6 |
| 47 | Liquid filled prismatic louver façade for enhanced indoor natural lighting in commercial buildings 2012 , | | 1 |
| 46 | Optical Interconnects. <i>Optical Networks Series</i> , 2012 , 235-300 | | |
| 45 | Tunable multi-wavelength SOA based linear cavity dual-output port fiber laser using Lyot-Sagnac loop mirror. <i>Optics Express</i> , 2011 , 19, 3202-11 | 3.3 | 39 |

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|----|---|-----|----|
| 44 | Inherent RF linearized bandwidth broadening capability of an ultra-linear optical modulator 2011, | | 2 |
| 43 | Analytical model, analysis and parameter optimization of a super linear electro-optic modulator (SFDR > 130 dB). <i>Optics Communications</i> , 2011 , 284, 5578-5587 | 2 | 16 |
| 42 | Improved linear crosstalk tolerance in an un-amplified ring PON. <i>Photonic Network Communications</i> , 2011 , 22, 123-132 | 1.7 | |
| 41 | Effect of Ring Resonator Waveguide Loss on SFDR Performance of Highly Linear Optical Modulators Under Suboctave Operation. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1297-1299 | 2.2 | 14 |
| 40 | Influence of membrane surface shape change on the performance characteristics of a fiber optic microphone. <i>Applied Optics</i> , 2010 , 49, 6660-7 | 0.2 | 5 |
| 39 | Experimental demonstration of a distributed ring-based EPON architecture. <i>Photonic Network Communications</i> , 2010 , 19, 55-61 | 1.7 | 4 |
| 38 | Applications of large-scale optical 3D-MEMS switches in fiber-based broadband-access networks. <i>Photonic Network Communications</i> , 2010 , 19, 62-73 | 1.7 | 24 |
| 37 | An Ultra-Linear Modulator with Inherent SFDR Compensation Capability 2010, | | 2 |
| 36 | SOA-based loop mirror for tunable pulse-width generation. <i>Optics Communications</i> , 2009 , 282, 2608-2614 | | 2 |
| 35 | Dual Sagnac loop mirror SOA-based widely tunable dual-output port fiber laser. <i>Optics Express</i> , 2009 , 17, 14495-501 | 3.3 | 17 |
| 34 | Extending the Gain Bandwidth of Combined Raman-Parametric Fiber Amplifiers Using Highly Nonlinear Fiber. <i>Journal of Lightwave Technology</i> , 2009 , 27, 583-589 | 4 | 21 |
| 33 | Traveling wave optical modulator with high dynamic range (<<130 dB) at large modulation frequencies 2009, | | 3 |
| 32 | Super-linear modulator with extended bandwidth capability for broadband access applications 2009, | | 3 |
| 31 | Fully Integrated NxN MEMS Wavelength Selective Switch with 100% Colorless Add-Drop Ports 2008, | | 6 |
| 30 | Hybrid polymer/cobalt chloride humidity sensors based on optical diffraction. <i>Sensors and Actuators B: Chemical</i> , 2007 , 120, 481-486 | 8.5 | 29 |
| 29 | NiCl ₂ /SiO ₂ sol-gel material for ammonia sensing 2006 , 6377, 66 | | 1 |
| 28 | Optical fiber long-period grating humidity sensor with poly(ethylene oxide)/cobalt chloride coating. <i>Applied Optics</i> , 2006 , 45, 4567-71 | 1.7 | 96 |
| 27 | Performance analysis of the ultra-linear optical intensity modulator 2006, | | 4 |

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|----|---|------|----|
| 26 | Compact switched-retroreflection-based 2/spl times/2 optical switching fabric for WDM applications. <i>Journal of Lightwave Technology</i> , 2005 , 23, 247-259 | 4 | 3 |
| 25 | Super-linear optical modulator technologies for optical broadband access network: development and potential 2005 , 6012, 214 | | 3 |
| 24 | Optical fiber long-period grating humidity sensor utilizing PEO/CoCl 2 outcladding overlayers 2005 , | | 1 |
| 23 | Photonic delay lines: technology trends and challenges 2003 , 5247, 347 | | |
| 22 | Transport performance of an 80-Gb/s WDM regional area transparent ring network utilizing directly modulated lasers. <i>Journal of Lightwave Technology</i> , 2002 , 20, 562-573 | 4 | 8 |
| 21 | Study of the performance of a transparent and reconfigurable metropolitan area network. <i>Journal of Lightwave Technology</i> , 2002 , 20, 937-945 | 4 | 22 |
| 20 | Performance engineering and topological design of metro WDM optical networks using computer simulation. <i>IEEE Journal on Selected Areas in Communications</i> , 2002 , 20, 149-165 | 14.2 | 26 |
| 19 | Study of a transparent and reconfigurable metropolitan area network 2001 , | | 1 |
| 18 | All-fiber connectorized compact fiber optic delay-line modules using three-dimensional polarization optics. <i>Optical Engineering</i> , 2000 , 39, 2338 | 1.1 | 8 |
| 17 | Demonstration of an all-digital 7-bit 33-channel photonic delay line for phased-array radars. <i>Applied Optics</i> , 2000 , 39, 4168-81 | 1.7 | 26 |
| 16 | Synchronous amplitude and time control for an optimum dynamic range variable photonic delay line. <i>Applied Optics</i> , 1999 , 38, 2309-18 | 1.7 | 10 |
| 15 | Adaptable-delay balanced-loss binary photonic delay line architectures using polarization switching. <i>Optics Communications</i> , 1998 , 152, 135-143 | 2 | 7 |
| 14 | Polarization selective hologram-based photonic delay lines. <i>Optics Communications</i> , 1998 , 157, 225-237 | 2 | 9 |
| 13 | Directly modulated semiconductor-laser-fed photonic delay line with ferroelectric liquid crystals. <i>Applied Optics</i> , 1998 , 37, 1407-16 | 1.7 | 14 |
| 12 | Photonic delay line using electrically switched gratings in polymer dispersed liquid crystals. <i>Optical Engineering</i> , 1998 , 37, 3061 | 1.1 | 7 |
| 11 | Photonic delay lines using polarization-selective holograms for optical signal routing 1998 , | | 2 |
| 10 | Microwave band demonstration of a reflective geometry fiber and free-space binary photonic delay line 1997 , 7, 103-105 | | 6 |
| 9 | Adaptable delay balanced switched photonic control modules for antenna arrays 1997 , | | 1 |

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|---|--|-----|----|
| 8 | Switched photonic delay line for phased-array antenna control using externally modulated microwave fiber optic link 1997 , | | 2 |
| 7 | Characterization of a ferroelectric liquid crystal-based time delay unit for phased array antenna applications. <i>Journal of Lightwave Technology</i> , 1997 , 15, 1088-1094 | 4 | 18 |
| 6 | Phased-array antenna, maximum-compression, reversible photonic beam former with ternary designs and multiple wavelengths. <i>Applied Optics</i> , 1997 , 36, 983-96 | 1.7 | 22 |
| 5 | Photonic time-delay beam-forming architectures using polarization switching arrays 1996 , 2754, 186 | | 3 |
| 4 | Switched three-dimensional photonic delay line using directly modulated semiconductor lasers for microwave radar processing 1996 , | | 1 |
| 3 | Photonic security system using spatial codes and remote coded coherent optical communications. <i>Optical Engineering</i> , 1996 , 35, 2487 | 1.1 | 6 |
| 2 | High signal-to-noise ratio birefringence-compensated optical delay line based on a noise-reduction scheme. <i>Optics Letters</i> , 1995 , 20, 2351 | 3 | 20 |
| 1 | Computer-generated holographic diffractive structures fabricated by direct excimer laser microetching 1995 , 2403, 448 | | |