

Ozdal Boyraz

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

2,440
citations

331670

21
h-index

206112

48
g-index

110
all docs

110
docs citations

110
times ranked

1826
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Ranging and velocimetry measurements by phase-based MTCW lidar. Optics Express, 2021, 29, 13552. | 3.4 | 15 |
| 2 | Mechanical design and thermal analysis of a 12U CubeSat MTCW lidar based optical measurement system for littoral ocean dynamics. , 2021, , . | | 4 |
| 3 | Metalens wide-angle receiver for free space optical communications. , 2021, , . | | 3 |
| 4 | High Sensitivity Long-Wave Infrared Detector Design Based on Integrated Plasmonic Absorber and VOâ,, Nanobeam. IEEE Journal of Quantum Electronics, 2021, 57, 1-11. | 1.9 | 3 |
| 5 | Wireless Communication Technologies in Omnidirectional CubeSat Crosslink: Feasibility Study and Performance Analysis. IEEE Journal on Miniaturization for Air and Space Systems, 2021, 2, 157-166. | 2.7 | 6 |
| 6 | Enhancing the multi-tone continuous-wave lidar with phase detection. , 2021, , . | | 3 |
| 7 | Optoelectronic Readout of STT-RAM Based on Plasmon Drag Effect. IEEE Journal of Quantum Electronics, 2021, 57, 1-7. | 1.9 | 0 |
| 8 | Optoelectronic Readout of STT-RAM Memory Cells Using Plasmon Drag Effect. , 2021, , . | | 0 |
| 9 | Single-shot ranging and velocimetry with a CW lidar far beyond the coherence length of the CW laser. Optics Express, 2021, 29, 42343. | 3.4 | 14 |
| 10 | Editorial for the Special Issue on Silicon Photonics Bloom. Micromachines, 2020, 11, 670. | 2.9 | 0 |
| 11 | Spectral dynamics on saturable absorber in mode-locking with time stretch spectroscopy. Scientific Reports, 2020, 10, 14460. | 3.3 | 12 |
| 12 | Immunity of nanoscale magnetic tunnel junctions with perpendicular magnetic anisotropy to ionizing radiation. Scientific Reports, 2020, 10, 10220. | 3.3 | 19 |
| 13 | Omnidirectional Optical Crosslinks for CubeSats: Transmitter Optimization. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4556-4566. | 4.7 | 6 |
| 14 | Realization of Omnidirectional CubeSat Crosslink by Wavelength-Selective Optical Transceiver. IEEE Journal on Miniaturization for Air and Space Systems, 2020, 1, 47-55. | 2.7 | 7 |
| 15 | Effect of magnesium oxide adhesion layer on resonance behavior of plasmonic nanostructures. Applied Physics Letters, 2020, 116, . | 3.3 | 7 |
| 16 | Impact of receiver architecture on small satellite optical link in the presence of pointing jitter. Applied Optics, 2020, 59, 10177. | 1.8 | 11 |
| 17 | Graphene-incorporated plasmo-thermomechanical infrared radiation detection. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 774. | 2.1 | 2 |
| 18 | Simultaneous ranging and velocimetry with multi-tone continuous wave lidar. Optics Express, 2020, 28, 17241. | 3.4 | 10 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Selective and efficient infrared detection by plasmonically heated vanadium-dioxide nanowire. , 2020, , . | | 4 |
| 20 | Multi Tone Continuous Wave Lidar. , 2019, , . | | 2 |
| 21 | Realization of Multitone Continuous Wave Lidar. IEEE Photonics Journal, 2019, 11, 1-10. | 2.0 | 13 |
| 22 | Array of symmetric nanohole dimers with high sensitivity for detection of changes in an STT-RAM ultrathin dielectric layer. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3090. | 2.1 | 3 |
| 23 | Graphene-coated Suspended Metallic Nanostructures for Fast and Sensitive Optomechanical Infrared Detection. , 2019, , . | | 2 |
| 24 | A Basic Approach for Speed Profiling of Alternating Targets with Photonic Doppler Velocimetry. , 2019, , . | | 4 |
| 25 | Array of Symmetric Nanohole Dimers for STT-RAM Ultrathin Layer Sensing. , 2019, , . | | 2 |
| 26 | Physical Layer Cryptographic Key Generation by Exploiting PMD of an Optical Fiber Link. Journal of Lightwave Technology, 2018, 36, 5903-5911. | 4.6 | 48 |
| 27 | Giant Resonance and Anomalous Quality Factor Scaling in Degenerate Band Edge Coupled Resonator Optical Waveguides. Journal of Lightwave Technology, 2018, 36, 3030-3039. | 4.6 | 24 |
| 28 | Spectral periodicity in soliton explosions on a broadband mode-locked Yb fiber laser using time-stretch spectroscopy. Optics Letters, 2018, 43, 1862. | 3.3 | 32 |
| 29 | Plasmo-thermomechanical radiation detector with on-chip optical readout. Optics Express, 2018, 26, 29638. | 3.4 | 7 |
| 30 | Omnidirectional optical transceiver design techniques for multi-frequency full duplex CubeSat data communication. , 2018, , . | | 3 |
| 31 | Inter-satellite omnidirectional optical communicator for remote sensing. , 2018, , . | | 3 |
| 32 | On-Chip Bimetallic Plasmo-Thermomechanical Detectors for Mid-Infrared Radiation. IEEE Photonics Technology Letters, 2017, 29, 1459-1462. | 2.5 | 7 |
| 33 | Theory of Optical Leaky-Wave Antenna Integrated in a Ring Resonator for Radiation Control. Journal of Lightwave Technology, 2017, 35, 10-18. | 4.6 | 6 |
| 34 | Polarization Mode Dispersion-Based Physical Layer Key Generation for Optical Fiber Link Security. , 2017, , . | | 11 |
| 35 | A Physical Layer Security Key Generation Technique for Inter-Vehicular Visible Light Communication. , 2017, , . | | 2 |
| 36 | Plasmonic detection of possible defects in multilayer nanohole array consisting of essential materials in simplified STT-RAM cell. , 2017, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Electric field enhancement with plasmonic colloidal nanoantennas excited by a silicon nitride waveguide. Optics Express, 2016, 24, 28337. | 3.4 | 20 |
| 38 | Experimental Demonstration of Directive Si ₃ N ₄ Optical Leaky Wave Antennas With Semiconductor Perturbations. Journal of Lightwave Technology, 2016, 34, 4864-4871. | 4.6 | 16 |
| 39 | Electronic control of optical tweezers using space-time-wavelength mapping. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 313. | 2.1 | 1 |
| 40 | Highly nonlinear sub-micron silicon nitride trench waveguide coated with gold nanoparticles. , 2015, , . | | 3 |
| 41 | Uniform and non uniform optical leaky-wave antennas for field shaping. , 2015, , . | | 0 |
| 42 | Experimental demonstration of directive Si ₃ N ₄ optical leaky wave antennas with semiconductor perturbations at near infrared frequencies. , 2015, , . | | 3 |
| 43 | V- π reduction by using modulation index booster (MiBo) in RF links. , 2015, , . | | 1 |
| 44 | Electronically-controlled optical tweezing using space-time-wavelength mapping. , 2015, , . | | 1 |
| 45 | Optical Leaky Wave Antenna Experiment Demonstration and Electronic Modulation Investigation. , 2015, , . | | 2 |
| 46 | Demonstration of π notation="TeX"> V_{π} notation="TeX"> V_{π} Reduction in Electrooptic Modulators Using Modulation Instability. IEEE Photonics Journal, 2014, 6, 1-9. | 2.0 | 4 |
| 47 | Optical leaky-wave antenna integrated in ring resonator. , 2014, , . | | 2 |
| 48 | Phase-gradient gap-plasmon metasurface based blazed grating for real time dispersive imaging. Applied Physics Letters, 2014, 104, . | 3.3 | 46 |
| 49 | Infrared polarizing reflectarray metasurfaces. , 2014, , . | | 2 |
| 50 | Fast Dispersive Laser Scanner by Using Digital Micro Mirror Arrays. Journal of Micro and Nano-Manufacturing, 2014, 2, . | 0.7 | 3 |
| 51 | Theory of a Directive Optical Leaky Wave Antenna Integrated into a Resonator and Enhancement of Radiation Control. Journal of Lightwave Technology, 2014, 32, 1741-1749. | 4.6 | 21 |
| 52 | Optical leaky wave antennas integrated with resonator topologies. , 2014, , . | | 0 |
| 53 | Silicon-on-sapphire waveguides design for mid-IR evanescent field absorption gas sensors. Optics Communications, 2014, 313, 186-194. | 2.1 | 76 |
| 54 | Fast Arbitrary Waveform Generation by Using Digital Micromirror Arrays. IEEE Photonics Journal, 2013, 5, 5500207-5500207. | 2.0 | 12 |

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| 55 | Fast Dispersive Laser Scanner by Using Digital Micro Mirror Arrays. , 2013, , . | | 1 |
| 56 | Concept of an optical leaky-wave antenna embedded in a Fabry-Pérot resonator. , 2013, , . | | 1 |
| 57 | Nonlinear Optics in Silicon. Series in Optics and Optoelectronics, 2013, , 197-248. | 0.0 | 2 |
| 58 | Analytical study on arbitrary waveform generation by MEMS micro mirror arrays. Optics Express, 2012, 20, 27542. | 3.4 | 8 |
| 59 | Fast arbitrary waveform generation by using digital micro-mirror arrays. , 2012, , . | | 1 |
| 60 | An optical leaky wave antenna with Si perturbations inside a resonator for enhanced optical control of the radiation. Optics Express, 2012, 20, 21305. | 3.4 | 31 |
| 61 | Radiation properties of an integrated optical leaky wave antenna with periodic silicon perturbations. , 2012, , . | | 0 |
| 62 | Enhancing radiation control of an optical leaky wave antenna in a resonator. Proceedings of SPIE, 2012, , . | 0.8 | 2 |
| 63 | Silicon-based optical leaky wave antenna with narrow beam radiation. Optics Express, 2011, 19, 8735. | 3.4 | 69 |
| 64 | Noise Performance of Time Stretch System with Distributed and Discrete Amplifiers. , 2011, , . | | 0 |
| 65 | Control of the radiation of a silicon-based optical leaky wave antenna through optical pumping. , 2011, , . | | 3 |
| 66 | An optical leaky wave antenna with silicon perturbations for electronic control. Proceedings of SPIE, 2011, , . | 0.8 | 5 |
| 67 | Erbium-based plasmonic-assisted vertical emitter. , 2011, , . | | 0 |
| 68 | Electrically Controlled Pulse Compression Using a Silicon Waveguide. , 2011, , . | | 0 |
| 69 | Silicon-based ultra-wide discrete band conversion. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 70 | Discrete parametric band conversion in silicon for mid-infrared applications. Optics Express, 2010, 18, 21981. | 3.4 | 57 |
| 71 | Performance Evaluation of Nondegenerate Wavelength Conversion in a Silicon Nanowire Waveguide. Journal of Lightwave Technology, 2010, , . | 4.6 | 5 |
| 72 | Broadband Wavelength Conversion by Nondegenerate Four-Wave Mixing in a Silicon-On-Insulator Waveguide. , 2010, , . | | 1 |

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| 73 | Real-time optical imaging and tracking of micron-sized particles. Optics Communications, 2009, 282, 4672-4675. | 2.1 | 84 |
| 74 | Silicon based optical pulse shaping and characterization. , 2009, , . | | 6 |
| 75 | Pump to Signal RIN Transfer in Silicon Raman Amplifiers. , 2009, , . | | 0 |
| 76 | Nanoscale signal regeneration. Nature Photonics, 2008, 2, 12-13. | 31.4 | 7 |
| 77 | Influence of Pump-to-Signal RIN Transfer on Noise Figure in Silicon Raman Amplifiers. IEEE Photonics Technology Letters, 2008, 20, 2021-2023. | 2.5 | 14 |
| 78 | Dual-Wavelength Mode-Locked Fiber Laser With an Intracavity Silicon Waveguide. IEEE Photonics Technology Letters, 2008, 20, 1184-1186. | 2.5 | 11 |
| 79 | Noise Figure of Silicon Raman Amplifiers. Journal of Lightwave Technology, 2008, 26, 847-852. | 4.6 | 26 |
| 80 | Gain and noise characteristics of high-bit-rate silicon parametric amplifiers. Optics Express, 2008, 16, 13122. | 3.4 | 54 |
| 81 | High-Repetition-Rate Pulsed-Pump Optical Parametric Amplification in Silicon Waveguides. , 2008, , . | | 0 |
| 82 | Dual-wavelength mode-locked laser in silicon. , 2008, , . | | 0 |
| 83 | Laser modelocking and dual wavelength lasing in silicon. , 2008, , . | | 0 |
| 84 | Ultrafast pulse characterization by cross-phase modulation in silicon waveguide. , 2008, , . | | 1 |
| 85 | Noise figure of high-repetition-rate optical parametric amplifiers in silicon. , 2008, , . | | 0 |
| 86 | Effect of TPA and FCA Interplay on Pulse Compression in Silicon. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , . | 0.0 | 0 |
| 87 | Femtosecond real-time single-shot digitizer. Applied Physics Letters, 2007, 91, 161105. | 3.3 | 121 |
| 88 | An All-fiber Tunable Polarization-Dependent Loss Element. , 2007, , . | | 0 |
| 89 | Influence of nonlinear loss competition on pulse compression and nonlinear optics in silicon. Applied Physics Letters, 2007, 91, 201115. | 3.3 | 13 |
| 90 | Pulse compression and modelocking by using TPA in silicon waveguides. Optics Express, 2007, 15, 6500. | 3.4 | 56 |

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| 91 | Pulse Compression and Modelocking by Using TPA in Silicon Waveguides. , 2007, , . | | 0 |
| 92 | Acoustooptic Coherent Mode Coupling in Polarization-Maintaining Fiber and Its Application as a Variable-Polarization-Dependent Loss Element. IEEE Photonics Technology Letters, 2007, 19, 665-667. | 2.5 | 6 |
| 93 | Performance analysis of a FTTH link utilizing asymmetric data transmission. Optics Communications, 2007, 280, 431-434. | 2.1 | 1 |
| 94 | Demonstration of CW Raman gain with zero electrical power dissipation in p-i-n silicon waveguides. , 2006, , . | | 4 |
| 95 | Triggerable Continuum Source for Single-shot Ultra-fast Applications. , 2006, , . | | 0 |
| 96 | Silicon Raman laser, amplifier, and wavelength converter (Keynote Paper). , 2005, , . | | 1 |
| 97 | Scaling laws of nonlinear silicon nanophotonics. , 2005, , . | | 8 |
| 98 | Silicon Raman amplifiers lasers and their applications. , 2005, , . | | 2 |
| 99 | Optical continuum generation on a silicon chip. , 2005, , . | | 1 |
| 100 | Tera-sample per second real-time waveform digitizer. Applied Physics Letters, 2005, 87, 241116. | 3.3 | 32 |
| 101 | Demonstration of directly modulated silicon Raman laser. Optics Express, 2005, 13, 796. | 3.4 | 92 |
| 102 | Raman amplification and lasing in SiGe waveguides. Optics Express, 2005, 13, 2459. | 3.4 | 42 |
| 103 | Silicon Raman Laser. , 2005, , . | | 0 |
| 104 | Silicon and Silicon-Germanium Raman Laser. , 2005, , . | | 0 |
| 105 | Self-phase-modulation induced spectral broadening in silicon waveguides. Optics Express, 2004, 12, 829. | 3.4 | 138 |
| 106 | All optical switching and continuum generation in silicon waveguides. Optics Express, 2004, 12, 4094. | 3.4 | 223 |
| 107 | Demonstration of a silicon Raman laser. Optics Express, 2004, 12, 5269. | 3.4 | 730 |
| 108 | Demonstration of 11dB fiber-to-fiber gain in a silicon Raman amplifier. IEICE Electronics Express, 2004, 1, 429-434. | 0.8 | 63 |

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| 109 | Observation of simultaneous Stokes and anti-Stokes emission in a silicon Raman laser. IEICE Electronics Express, 2004, 1, 435-441. | 0.8 | 9 |