

Dimitris Syvridis

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

3,772
citations

279798

23
h-index

128289

60
g-index

101
all docs

101
docs citations

101
times ranked

2392
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Chaos-based communications at high bit rates using commercial fibre-optic links. <i>Nature</i> , 2005, 438, 343-346. | 27.8 | 1,365 |
| 2 | All-optical phase and amplitude regenerator for next-generation telecommunications systems. <i>Nature Photonics</i> , 2010, 4, 690-695. | 31.4 | 595 |
| 3 | Implementation of 140 Gb/s true random bit generator based on a chaotic photonic integrated circuit. <i>Optics Express</i> , 2010, 18, 18763. | 3.4 | 177 |
| 4 | Multilevel quantization of optical phase in a novel coherent parametric mixer architecture. <i>Nature Photonics</i> , 2011, 5, 748-752. | 31.4 | 145 |
| 5 | Chaos-on-a-chip secures data transmission in optical fiber links. <i>Optics Express</i> , 2010, 18, 5188. | 3.4 | 112 |
| 6 | Micro ring resonators as building blocks for an all-optical high-speed reservoir-computing bit-pattern-recognition system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 3048. | 2.1 | 68 |
| 7 | Sub-Tb/s Physical Random Bit Generators Based on Direct Detection of Amplified Spontaneous Emission Signals. <i>Journal of Lightwave Technology</i> , 2012, 30, 1329-1334. | 4.6 | 64 |
| 8 | Gb/s One-Time-Pad Data Encryption With Synchronized Chaos-Based True Random Bit Generators. <i>Journal of Lightwave Technology</i> , 2016, 34, 5325-5331. | 4.6 | 63 |
| 9 | Feedback Phase in Optically Generated Chaos: A Secret Key for Cryptographic Applications. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 119-124. | 1.9 | 59 |
| 10 | Physical Unclonable Function based on a Multi-Mode Optical Waveguide. <i>Scientific Reports</i> , 2018, 8, 9653. | 3.3 | 55 |
| 11 | Dual-wavelength mode-locked quantum-dot laser, via ground and excited state transitions: experimental and theoretical investigation. <i>Optics Express</i> , 2010, 18, 12832. | 3.4 | 54 |
| 12 | All-Fiber Broadband $\{m\text{LP}\}_{02}$ Mode Converter for Future Wavelength and Mode Division Multiplexing Systems. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1638-1641. | 2.5 | 53 |
| 13 | Broadband telecom to mid-infrared supercontinuum generation in a dispersion-engineered silicon germanium waveguide. <i>Optics Letters</i> , 2015, 40, 4118. | 3.3 | 49 |
| 14 | Optical properties of silicon germanium waveguides at telecommunication wavelengths. <i>Optics Express</i> , 2013, 21, 16690. | 3.4 | 44 |
| 15 | Enhancement of Chaos Encryption Potential by Combining All-Optical and Electrooptical Chaos Generators. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 1642-1649. | 1.9 | 39 |
| 16 | FWM-based wavelength conversion of 40 Gbaud PSK signals in a silicon germanium waveguide. <i>Optics Express</i> , 2013, 21, 16683. | 3.4 | 38 |
| 17 | First demonstration of all-optical QPSK signal regeneration in a novel multi-format phase sensitive amplifier. , 2010, , . | | 37 |
| 18 | Amplitude Noise Limiting Amplifier for Phase Encoded Signals Using Injection Locking in Semiconductor Lasers. <i>Journal of Lightwave Technology</i> , 2012, 30, 764-771. | 4.6 | 31 |

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|----|--|-----|-----------|
| 19 | Integrated semiconductor laser with optical feedback: transition from short to long cavity regime. Optics Express, 2015, 23, 18754. | 3.4 | 30 |
| 20 | Integrated Devices for Optical Chaos Generation and Communication Applications. IEEE Journal of Quantum Electronics, 2009, 45, 1421-1428. | 1.9 | 29 |
| 21 | Potential of InGaAs/GaAs Quantum Dots for Applications in Vertical Cavity Semiconductor Optical Amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1180-1187. | 2.9 | 27 |
| 22 | Encryption Efficiency Analysis of Chaotic Communication Systems Based on Photonic Integrated Chaotic Circuits. IEEE Journal of Quantum Electronics, 2010, 46, 1421-1429. | 1.9 | 27 |
| 23 | High-speed all-optical pattern recognition of dispersive Fourier images through a photonic reservoir computing subsystem. Optics Letters, 2015, 40, 3416. | 3.3 | 25 |
| 24 | Sensitivity Analysis of a Star Optical Network Based on Mutually Coupled Semiconductor Lasers. Journal of Lightwave Technology, 2012, 30, 2618-2624. | 4.6 | 24 |
| 25 | Symmetric Few-Mode Fiber Couplers as the Key Component for Broadband Mode Multiplexing. Journal of Lightwave Technology, 2014, 32, 2461-2467. | 4.6 | 23 |
| 26 | Power losses in diffuse ultraviolet optical communications channels. Optics Letters, 2016, 41, 4421. | 3.3 | 23 |
| 27 | Subcarrier modulation in all-optical chaotic communication systems. Optics Letters, 2007, 32, 2134. | 3.3 | 22 |
| 28 | Towards nonlinear conversion from mid- to near-infrared wavelengths using Silicon Germanium waveguides. Optics Express, 2014, 22, 9667. | 3.4 | 22 |
| 29 | QPSK Phase and Amplitude Regeneration at 56 Gbaud in a Novel Idler-Free Non-Degenerate Phase Sensitive Amplifier. , 2011, , . | | 20 |
| 30 | Investigation on the Multimode Dynamics of InGaAsP/InP Microring Lasers. IEEE Journal of Quantum Electronics, 2006, 42, 1266-1273. | 1.9 | 18 |
| 31 | Pulse and noise properties of a two section passively mode-locked quantum dot laser under long delay feedback. Optics Communications, 2014, 313, 248-255. | 2.1 | 18 |
| 32 | Widely Tunable All-Active Microring Lasers. IEEE Photonics Technology Letters, 2006, 18, 2641-2643. | 2.5 | 17 |
| 33 | Dynamic Analysis of Crosstalk Performance in Microring-Based Add/Drop Filters. Journal of Lightwave Technology, 2009, 27, 2027-2034. | 4.6 | 17 |
| 34 | Field-Trial of an All-Optical PSK Regenerator/Multicaster in a 40 Gbit/s, 38 Channel DWDM Transmission Experiment. Journal of Lightwave Technology, 2012, 30, 512-520. | 4.6 | 17 |
| 35 | All-optical Phase Regeneration with Record PSA Extinction Ratio in a Low-birefringence Silicon Germanium Waveguide. Journal of Lightwave Technology, 2016, 34, 3993-3998. | 4.6 | 17 |
| 36 | Two-Section Quantum-Dot Mode-Locked Lasers Under Optical Feedback: Pulse Broadening and Harmonic Operation. IEEE Journal of Quantum Electronics, 2012, 48, 872-877. | 1.9 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Analysis of the Bubbling Effect in Synchronized Networks With Semiconductor Lasers. IEEE Photonics Technology Letters, 2013, 25, 817-820. | 2.5 | 16 |
| 38 | Dynamic Properties of a WDM Switching Module Based on Active Microring Resonators. IEEE Photonics Technology Letters, 2010, 22, 206-208. | 2.5 | 14 |
| 39 | Tunable Master-Oscillator Power-Amplifier Based on Chirped Quantum-Dot Structures. IEEE Photonics Technology Letters, 2012, 24, 1841-1844. | 2.5 | 14 |
| 40 | Highly Correlated Chaotic Emission From Bidirectionally Coupled Semiconductor Lasers. IEEE Photonics Technology Letters, 2016, 28, 1819-1822. | 2.5 | 14 |
| 41 | Time-Scale Independent Permutation Entropy of a Photonic Integrated Device. Journal of Lightwave Technology, 2017, 35, 88-95. | 4.6 | 14 |
| 42 | All-optical phase regeneration of 40Gbit/s DPSK signals in a black-box phase sensitive amplifier. , 2010, , . | | 14 |
| 43 | Pulse width narrowing due to dual ground state emission in quantum dot passively mode locked lasers. Applied Physics Letters, 2010, 96, 211110. | 3.3 | 13 |
| 44 | Intraband Crosstalk Properties of Addâ€“Drop Filters Based on Active Microring Resonators. IEEE Photonics Technology Letters, 2007, 19, 1649-1651. | 2.5 | 12 |
| 45 | Hurst exponents and cyclic scenarios in a photonic integrated circuit. Physical Review E, 2008, 78, 066215. | 2.1 | 12 |
| 46 | Reservoir computing based on transverse modes in a single optical waveguide. Optics Letters, 2019, 44, 1218. | 3.3 | 12 |
| 47 | Chaotic dynamics of semiconductor microring lasers. Optics Letters, 2007, 32, 2912. | 3.3 | 11 |
| 48 | Effect of optical feedback to the ground and excited state emission of a passively mode locked quantum dot laser. Applied Physics Letters, 2010, 97, 061114. | 3.3 | 11 |
| 49 | Direct Modulation Properties of 1.55- μm InGaAsP/InP Microring Lasers. Journal of Lightwave Technology, 2008, 26, 251-256. | 4.6 | 10 |
| 50 | Tunable Wavelength Conversion Using Cross-Gain Modulation in a Vertically Coupled Microring Laser. IEEE Photonics Technology Letters, 2009, 21, 1618-1620. | 2.5 | 10 |
| 51 | Influence of Connectors on the Performance of a VCSEL-Based Standard Step-Index POF Link. IEEE Photonics Technology Letters, 2009, 21, 1888-1890. | 2.5 | 10 |
| 52 | Space-time block code based MIMO encoding for large core step index plastic optical fiber transmission systems. Optics Express, 2011, 19, 10336. | 3.4 | 10 |
| 53 | Phase synchronization scheme for a practical phase sensitive amplifier of ASK-NRZ signals. Optics Express, 2011, 19, 12384. | 3.4 | 10 |
| 54 | Optical Bistability in Active Semiconductor Microring Structures. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 918-926. | 2.9 | 9 |

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|----|--|-----|-----------|
| 55 | All-Optical Regeneration Based on Phase-Sensitive Nondegenerate Four-Wave Mixing in Optical Fibers. IEEE Photonics Technology Letters, 2010, 22, 1826-1828. | 2.5 | 9 |
| 56 | An Optical Mode Filtering Technique for the Improvement of the Large Core SI-POF Link Performance. Journal of Lightwave Technology, 2010, 28, 1796-1801. | 4.6 | 9 |
| 57 | Analysis of the Optical Amplifier Noise Effect on Electrooptically Generated Hyperchaos. IEEE Journal of Quantum Electronics, 2007, 43, 552-559. | 1.9 | 8 |
| 58 | Dual ground-state pulse generation from a passively mode-locked InAs/InGaAs quantum dot laser. Applied Physics Letters, 2011, 99, . | 3.3 | 8 |
| 59 | Polarization Insensitive Wavelength Conversion in a Low-Birefringence SiGe Waveguide. IEEE Photonics Technology Letters, 2016, 28, 1221-1224. | 2.5 | 8 |
| 60 | All-optical reservoir computing system based on InGaAsP ring resonators for high-speed identification and optical routing in optical networks. Proceedings of SPIE, 2015, , . | 0.8 | 7 |
| 61 | A Chaos-Based Approach to Secure Communications. Optics and Photonics News, 2008, 19, 36. | 0.5 | 6 |
| 62 | Effect of the number of quantum dot layers and dual state emission on the performance of InAs/InGaAs passively mode-locked lasers. Applied Physics Letters, 2012, 101, 251115. | 3.3 | 5 |
| 63 | Two-mode injection-locked FP laser receiver: a regenerator for long-distance stable fiber delivery of radio-frequency standards. Optics Letters, 2015, 40, 886. | 3.3 | 5 |
| 64 | Adaptive Interrogation for Fast Optical Sensing Based on Cascaded Micro-Ring Resonators. IEEE Sensors Journal, 2011, 11, 1595-1601. | 4.7 | 4 |
| 65 | Design and Experimental Evaluation of Active-Passive Integrated Microring Lasers: Threshold Current and Spectral Properties. IEEE Journal of Quantum Electronics, 2011, 47, 1557-1564. | 1.9 | 4 |
| 66 | Design and Experimental Evaluation of Active-Passive Integrated Microring Lasers: Noise Properties. IEEE Journal of Quantum Electronics, 2012, 48, 99-106. | 1.9 | 4 |
| 67 | Experimental Evaluation of Modulation Formatsâ€™ Performance in Diffuse UV Channels. IEEE Photonics Technology Letters, 2017, 29, 897-900. | 2.5 | 4 |
| 68 | P-Torus: wavelength-based switching in packet granularity for intra-data-center networks. Journal of Optical Communications and Networking, 2019, 11, 491. | 4.8 | 4 |
| 69 | Broadly Tunable Laser Using Double-Rings Vertically Coupled to a Passive Waveguide. IEEE Journal of Quantum Electronics, 2010, 46, 306-312. | 1.9 | 3 |
| 70 | Rate-Adaptive DFT-Spread DMT and CDMA-DMT for 1-mm SI-POF Short-Range Links. IEEE Photonics Technology Letters, 2013, 25, 1574-1577. | 2.5 | 3 |
| 71 | Polarization properties of active semiconductor micro-ring structures. Optics Communications, 2008, 281, 421-425. | 2.1 | 2 |
| 72 | Optical Microring-Based Interrogation Method for Phase Detecting Elements. IEEE Sensors Journal, 2009, 9, 2016-2023. | 4.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Message Origin Authentication and Integrity Protection in Chaos-Based Optical Communication. IEEE Journal of Quantum Electronics, 2010, 46, 377-383. | 1.9 | 2 |
| 74 | External optical feedback-induced wavelength selection and Q-switching elimination in an InAs/InGaAs passively mode-locked quantum dot laser. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1071. | 2.1 | 2 |
| 75 | Distributed Optical Parametric Amplification at 1.3 μm : Performance and Applications in Optical Access Networks. IEEE Photonics Technology Letters, 2012, 24, 694-696. | 2.5 | 2 |
| 76 | Efficient Orthogonal Modulation Enabled by Injection Locked Limiting Amplifiers. IEEE Photonics Technology Letters, 2013, 25, 667-670. | 2.5 | 2 |
| 77 | Comparison of CAP and DFT-spread DMT for high speed transmission over 50m SI-POF. , 2016, , . | | 2 |
| 78 | Sub-wavelength resolution dynamics of semiconductor passively mode-locked lasers induced by optical feedback. Applied Physics B: Lasers and Optics, 2017, 123, 1. | 2.2 | 2 |
| 79 | Chaos Applications in Optical Communications. , 2010, , 479-510. | | 2 |
| 80 | Suppression of higher order modes in vertically coupled micro-ring resonators. Microwave and Optical Technology Letters, 2007, 49, 2963-2968. | 1.4 | 1 |
| 81 | Performance Evaluation of CDMA-DMT for 1-mm SI-POF Short-Range Transmission Links. IEEE Photonics Technology Letters, 2012, 24, 2042-2045. | 2.5 | 1 |
| 82 | Silicon germanium platform enabling mid-infrared to near-infrared conversion for telecom and sensing applications. , 2014, , . | | 1 |
| 83 | Compact optical displacement sensing by detection of microwave signals generated from a monolithic passively mode-locked laser under feedback. Proceedings of SPIE, 2015, , . | 0.8 | 1 |
| 84 | Coupled semiconductor laser network topologies for efficient synchronization. , 2015, , . | | 1 |
| 85 | Physical layer one-time-pad data encryption through synchronized semiconductor laser networks. , 2016, , . | | 1 |
| 86 | Chaos and non-linear dynamics of a 1.55 μm InGaAsP-InP microring laser. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 87 | Microring resonators with enhanced tolerance to fabrication misalignments. Journal of Optics, 2009, 11, 125401. | 1.5 | 0 |
| 88 | Microring-based devices for telecommunication applications. , 2009, , . | | 0 |
| 89 | Phase regeneration of optical signals. , 2011, , . | | 0 |
| 90 | WDM Switching Module Based on Active Microring Resonators: Applications to Metro Networks. , 2012, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Displacement Sensing by Repetition Rate Pulling in a Passively Mode Locked Laser Under Feedback. IEEE Photonics Technology Letters, 2014, 26, 2418-2421. | 2.5 | 0 |
| 92 | Experimental mapping of nonlinear dynamics in synchronized coupled semiconductor laser networks. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 93 | Spectral filtering effects in synchronized semiconductor laser networks. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 94 | Data transmissions at 1.98 μm in cm-long SiGe waveguides. , 2017, , . | | 0 |
| 95 | Laser Induced Speckle as a Foundation for Physical Security and Optical Computing. , 2018, , . | | 0 |
| 96 | 3D P-Torus: Wavelength-Based Switching in Packet Granularity for Edge Data Center Networks. Lecture Notes in Networks and Systems, 2022, , 261-272. | 0.7 | 0 |
| 97 | Spectral Splitting Effects and Their Influence to the Performance of Quantum Dot Mode Locked Lasers. , 2012, , 49-63. | | 0 |
| 98 | Performance enhancement of point-to-point diffuse links at 265 nm under fog conditions. , 2019, , . | | 0 |
| 99 | Physical Layer Security in Optical Networks. Lecture Notes in Computer Science, 2020, , 412-424. | 1.3 | 0 |
| 100 | Implementation and assessment of a non-line-of-sight network cluster operating at the UVC wavelength band. , 2022, , . | | 0 |