List of Publications by Year in descending order

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| | | 117625 | 123424 |
|----------|----------------|--------------|----------------|
| 114 | 4,023 | 34 | 61 |
| papers | citations | h-index | g-index |
| | | | |
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| 132 | 132 | 132 | 1646 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 1 | Experimental demonstration of adaptive model selection based on reinforcement learning in photonic reservoir computing. Nonlinear Theory and Its Applications IEICE, 2022, 13, 123-138. | 0.6 | 0 |
| 2 | Adaptive decision making using a chaotic semiconductor laser for multi-armed bandit problem with time-varying hit probabilities. Nonlinear Theory and Its Applications IEICE, 2022, 13, 112-122. | 0.6 | 3 |
| 3 | Photonic reinforcement learning based on optoelectronic reservoir computing. Scientific Reports, 2022, 12, 3720. | 3.3 | 7 |
| 4 | Photonic accelerator based on optical chaos. , 2022, , . | | 0 |
| 5 | Photonic Computing Highlighting Ultimate Nature of Light: Decision Making by Photonics. leice Ess Fundamentals Review, 2022, 15, 310-317. | 0.1 | 0 |
| 6 | Decision making for large-scale multi-armed bandit problems using bias control of chaotic temporal waveforms in semiconductor lasers. Scientific Reports, 2022, 12, 8073. | 3.3 | 7 |
| 7 | Photonic decision making for solving competitive multi-armed bandit problem using semiconductor laser networks. Nonlinear Theory and Its Applications IEICE, 2022, 13, 582-597. | 0.6 | 2 |
| 8 | Performance Improvement of Delay-Based Photonic Reservoir Computing. Natural Computing Series, 2021, , 377-396. | 2.2 | 1 |
| 9 | Fast dynamics of low-frequency fluctuations in a quantum-dot laser with optical feedback. Optics Express, 2021, 29, 17962. | 3.4 | 5 |
| 10 | High-entropy chaos generation using semiconductor lasers subject to intensity-modulated optical injection for certified physical random number generation. Optics Letters, 2021, 46, 3384. | 3.3 | 15 |
| 11 | Entropy rate of chaos in an optically injected semiconductor laser for physical random number generation. Optics Express, 2021, 29, 2442. | 3.4 | 17 |
| 12 | Photonic Artificial Intelligence Using Complex Photonics: Reservoir Computing and Decision Making. , 2021, , . | | 0 |
| 13 | Photonic neural field on a silicon chip: large-scale, high-speed neuro-inspired computing and sensing. Optica, 2021, 8, 1388. | 9.3 | 28 |
| 14 | Decision Making Photonics: Solving Bandit Problems Using Photons. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10. | 2.9 | 14 |
| 15 | Reservoir Computing Using Multiple Lasers With Feedback on a Photonic Integrated Circuit. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9. | 2.9 | 65 |
| 16 | Lotka–Volterra Competition Mechanism Embedded in a Decision-Making Method. Journal of the Physical Society of Japan, 2020, 89, 014801. | 1.6 | 4 |
| 17 | Reservoir computing and decision making using laser dynamics for photonic accelerator. Japanese Journal of Applied Physics, 2020, 59, 040601. | 1.5 | 6 |
| 18 | Adaptive model selection in photonic reservoir computing by reinforcement learning. Scientific Reports, 2020, 10, 10062. | 3.3 | 7 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Dynamic channel selection in wireless communications via a multi-armed bandit algorithm using laser chaos time series. Scientific Reports, 2020, 10, 1574. | 3.3 | 39 |
| 20 | Entropy evaluation of white chaos generated by optical heterodyne for certifying physical random number generators. Optics Express, 2020, 28, 3686. | 3.4 | 16 |
| 21 | Using multidimensional speckle dynamics for high-speed, large-scale, parallel photonic computing. Optics Express, 2020, 28, 30349. | 3.4 | 32 |
| 22 | Laser network decision making by lag synchronization of chaos in a ring configuration. Optics Express, 2020, 28, 40112. | 3.4 | 33 |
| 23 | On-chip photonic decision maker using spontaneous mode switching in a ring laser. Scientific Reports, 2019, 9, 9429. | 3.3 | 22 |
| 24 | Generative adversarial network based on chaotic time series. Scientific Reports, 2019, 9, 12963. | 3.3 | 13 |
| 25 | Novel frontier of photonics for data processing—Photonic accelerator. APL Photonics, 2019, 4, 090901. | 5.7 | 127 |
| 26 | Photonic reservoir computing based on nonlinear wave dynamics at microscale. Scientific Reports, 2019, 9, 19078. | 3.3 | 29 |
| 27 | Numerical study on dynamics-dependent synchronization in mutually-coupled lasers with asymmetric feedback. Nonlinear Theory and Its Applications IEICE, 2019, 10, 60-73. | 0.6 | Ο |
| 28 | Decision making for the multi-armed bandit problem using lag synchronization of chaos in mutually coupled semiconductor lasers. Optics Express, 2019, 27, 26989. | 3.4 | 25 |
| 29 | Implementation of optical feedback modulation in photonic reservoir computing. , 2019, , . | | Ο |
| 30 | Decision making using lag synchronization of chaos in mutually-coupled semiconductor lasers. , 2019, , . | | 0 |
| 31 | Progress in Fast Physical Random Number Generation with Complex Photonics. The Review of Laser Engineering, 2019, 47, 310. | 0.0 | 1 |
| 32 | Scalable photonic reinforcement learning by time-division multiplexing of laser chaos. Scientific Reports, 2018, 8, 10890. | 3.3 | 46 |
| 33 | Memory Effect on Adaptive Decision Making with a Chaotic Semiconductor Laser. Complexity, 2018, 2018, 1-8. | 1.6 | 16 |
| 34 | Impact of input mask signals on delay-based photonic reservoir computing with semiconductor lasers. Optics Express, 2018, 26, 5777. | 3.4 | 101 |
| 35 | Effect of bandwidth limitation of optical noise injection on common-signal-induced synchronization in multi-mode semiconductor lasers. Optics Express, 2018, 26, 13521. | 3.4 | 7 |
| 36 | Compact reservoir computing with a photonic integrated circuit. Optics Express, 2018, 26, 29424. | 3.4 | 96 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Synchronized Laser Chaos Communication: Statistical Investigation of an Experimental System. IEEE Journal of Quantum Electronics, 2017, 53, 1-10. | 1.9 | 18 |
| 38 | Dynamics Versus Feedback Delay Time in Photonic Integrated Circuits: Mapping the Short Cavity Regime. IEEE Photonics Journal, 2017, 9, 1-12. | 2.0 | 11 |
| 39 | Common-Signal-Induced Synchronization in Semiconductor Lasers With Broadband Optical Noise Signal. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-10. | 2.9 | 10 |
| 40 | Random Number Generation From Intermittent Optical Chaos. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8. | 2.9 | 11 |
| 41 | Physical implementation of oblivious transfer using optical correlated randomness. Scientific Reports, 2017, 7, 8444. | 3.3 | 5 |
| 42 | Recommendations and illustrations for the evaluation of photonic random number generators. APL Photonics, 2017, 2, . | 5.7 | 49 |
| 43 | Dynamics-dependent synchronization in on-chip coupled semiconductor lasers. Physical Review E, 2017, 96, 032216. | 2.1 | 9 |
| 44 | Ultrafast photonic reinforcement learning based on laser chaos. Scientific Reports, 2017, 7, 8772. | 3.3 | 79 |
| 45 | Spontaneous exchange of leader-laggard relationship in mutually coupled synchronized semiconductor lasers. Physical Review E, 2017, 95, 052212. | 2.1 | 19 |
| 46 | Common-signal-induced synchronization in photonic integrated circuits and its application to secure key distribution. Optics Express, 2017, 25, 26029. | 3.4 | 32 |
| 47 | Real-time fast physical random number generator with a photonic integrated circuit. Optics Express, 2017, 25, 6511. | 3.4 | 60 |
| 48 | Performance Improvement of Optical Reservoir Computing Based on Complex Transient Dynamics of a Laser with Time-Delayed Feedback. The Review of Laser Engineering, 2017, 45, 148. | 0.0 | 0 |
| 49 | Photonic integrated circuits unveil crisis-induced intermittency. Optics Express, 2016, 24, 22198. | 3.4 | 22 |
| 50 | Laser dynamical reservoir computing with consistency: an approach of a chaos mask signal. Optics Express, 2016, 24, 8679. | 3.4 | 155 |
| 51 | Complexity and bandwidth enhancement in unidirectionally coupled semiconductor lasers with time-delayed optical feedback. Physical Review E, 2016, 93, 032206. | 2.1 | 24 |
| 52 | Cycles of self-pulsations in a photonic integrated circuit. Physical Review E, 2015, 92, 062905. | 2.1 | 11 |
| 53 | Tb/s physical random bit generation with bandwidth-enhanced chaos in three-cascaded semiconductor lasers. Optics Express, 2015, 23, 1470. | 3.4 | 130 |
| 54 | Inphase and Antiphase Dynamics of Spatially-Resolved Light Intensities Emitted by a Chaotic Broad-Area Semiconductor Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 522-530. | 2.9 | 14 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Secret-Key Distribution Based on Bounded Observability. Proceedings of the IEEE, 2015, 103, 1762-1780. | 21.3 | 15 |
| 56 | Reservoir Computing: Novel Optical Computing Using Laser Dynamics. The Review of Laser Engineering, 2015, 43, 365. | 0.0 | 0 |
| 57 | Numerical Analysis of Antiphase Dynamics of Spatiotemporal Chaos in a Broad-Area Semiconductor Laser. The Review of Laser Engineering, 2015, 43, 393. | 0.0 | 0 |
| 58 | Estimation of the Lyapunov Exponent Using Transient of Generalized Synchronization in Semiconductor Lasers with Optical Feedback. The Review of Laser Engineering, 2015, 43, 387. | 0.0 | 0 |
| 59 | Fast physical random bit generation with photonic integrated circuits with different external cavity lengths for chaos generation. Optics Express, 2014, 22, 11727. | 3.4 | 53 |
| 60 | Finite-time Lyapunov exponents in time-delayed nonlinear dynamical systems. Physical Review E, 2014, 89, 032918. | 2.1 | 17 |
| 61 | Multiple basins of consistency in noise-driven dynamical system. Nonlinear Theory and Its Applications IEICE, 2014, 5, 436-444. | 0.6 | 0 |
| 62 | Secure key distribution using correlated randomness in optical devices. IEICE Proceeding Series, 2014, 1, 336-339. | 0.0 | 0 |
| 63 | Spontaneous exchange of leader-laggard relationship in mutually-coupled semiconductor lasers. IEICE Proceeding Series, 2014, 1, 399-402. | 0.0 | 0 |
| 64 | Noise Effects on Generalized Chaos Synchronization in Semiconductor Lasers. IEICE Proceeding Series, 2014, 2, 413-416. | 0.0 | 0 |
| 65 | Nonlinear dynamics in a photonic integrated circuit for fast chaos generation. IEICE Proceeding Series, 2014, 1, 134-137. | 0.0 | 0 |
| 66 | Finite-time Lyapunov exponents in nonlinear dynamical systems with time-delayed feedback. IEICE Proceeding Series, 2014, 1, 276-279. | 0.0 | 0 |
| 67 | Estimation of maximum Lyapunov exponent using generalized synchronization in semiconductor lasers with optical feedback. IEICE Proceeding Series, 2014, 2, 405-408. | 0.0 | 0 |
| 68 | Random number generation with a photonic integrated circuit for fast chaos generation. IEICE Proceeding Series, 2014, 1, 138-141. | 0.0 | 0 |
| 69 | Fast random number generation with bandwidth-enhanced chaos and post-processing. IEICE Proceeding Series, 2014, 1, 142-145. | 0.0 | 0 |
| 70 | Experiment on secure key distribution using correlated random phenomenon in semiconductor lasers. IEICE Proceeding Series, 2014, 1, 340-343. | 0.0 | 0 |
| 71 | Performance of Random Number Generators Using Noise-Based Superluminescent Diode and Chaos-Based Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 0600309-0600309. | 2.9 | 51 |
| 72 | Complexity and frequency bandwidth in unidirectionally-coupled semiconductor lasers with optical feedback. , 2013, , . | | 0 |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 73 | Information-theoretic secure key distribution based on common random-signal induced synchronization in unidirectionally-coupled cascades of semiconductor lasers. Optics Express, 2013, 21, 17869. | 3.4 | 60 |
| 74 | Experiment on synchronization of semiconductor lasers by common injection of constant-amplitude random-phase light. Optics Express, 2012, 20, 11813. | 3.4 | 60 |
| 75 | Secure Key Distribution Using Correlated Randomness in Lasers Driven by Common Random Light. Physical Review Letters, 2012, 108, 070602. | 7.8 | 119 |
| 76 | Generalized synchronization and complexity in unidirectionally coupled dynamical systems. Nonlinear Theory and Its Applications IEICE, 2012, 3, 143-154. | 0.6 | 3 |
| 77 | Nonlinear dynamics and chaos synchronization in Mackey-Glass electronic circuits with multiple time-delayed feedback. Nonlinear Theory and Its Applications IEICE, 2012, 3, 155-164. | 0.6 | 10 |
| 78 | Noise amplification by chaotic dynamics in a delayed feedback laser system and its application to nondeterministic random bit generation. Chaos, 2012, 22, 047513. | 2.5 | 26 |
| 79 | Consistency and complexity in coupled semiconductor lasers with time-delayed optical feedback. Physical Review E, 2012, 86, 066202. | 2.1 | 39 |
| 80 | Estimation of entropy rate in a fast physical random-bit generator using a chaotic semiconductor laser with intrinsic noise. Physical Review E, 2012, 85, 016211. | 2.1 | 38 |
| 81 | Fast Random Number Generation With Bandwidth-Enhanced Chaotic Semiconductor Lasers at 8\$,imes,\$50 Gb/s. IEEE Photonics Technology Letters, 2012, 24, 1042-1044. | 2.5 | 68 |
| 82 | Theory of fast nondeterministic physical random-bit generation with chaotic lasers. Physical Review E, 2012, 85, 046215. | 2.1 | 34 |
| 83 | Fast nondeterministic random-bit generation using on-chip chaos lasers. Physical Review A, 2011, 83, . | 2.5 | 88 |
| 84 | Chaos laser chips with delayed optical feedback using a passive ring waveguide. Optics Express, 2011, 19, 5713. | 3.4 | 59 |
| 85 | Random optical pulse generation with bistable semiconductor ring lasers. Optics Express, 2011, 19, 7439. | 3.4 | 34 |
| 86 | Complexity Analysis in A Semiconductor Laser with Time-Delayed Optical Feedback. The Review of Laser Engineering, 2011, 39, 543-549. | 0.0 | 2 |
| 87 | Review on Ultra-Fast Physical Random Number Generators Based on Optical Random Phenomena. The Review of Laser Engineering, 2011, 39, 508-514. | 0.0 | 2 |
| 88 | Reliability and synchronization in a delay-coupled neuronal network with synaptic plasticity. Physical Review E, 2011, 83, 061915. | 2.1 | 16 |
| 89 | Fast random bit generation with bandwidth-enhanced chaos in semiconductor lasers. Optics Express, 2010, 18, 5512. | 3.4 | 168 |
| 90 | Experimental evaluation of fast random bit sequence generation using chaotic semiconductor lasers. , 2009, , . | | 0 |

Атѕизні Исніда

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Chaotic polarization dynamics and chaos synchronization in VCSELs. , 2009, , . | | Ο |
| 92 | Synchronization of chaos in mutually coupled vertical-cavity surface-emitting lasers with time delay. , 2009, , . | | 3 |
| 93 | Leader-laggard relationship of chaos synchronization in mutually coupled vertical-cavity surface-emitting lasers with time delay. Physical Review E, 2009, 79, 026210. | 2.1 | 35 |
| 94 | Synchronization of chaotic semiconductor lasers by optical injection with random phase modulation. Optical and Quantum Electronics, 2009, 41, 137-149. | 3.3 | 6 |
| 95 | Fast physical random bit generator based on chaotic semiconductor lasers: Application to quantum cryptography. , 2009, , . | | 0 |
| 96 | Differential-phase-shift quantum key distribution experiment using fast physical random bit generator with chaotic semiconductor lasers. Optics Express, 2009, 17, 9053. | 3.4 | 41 |
| 97 | Synchronization by injection of common chaotic signal in semiconductor lasers with optical feedback. Optics Express, 2009, 17, 10025. | 3.4 | 38 |
| 98 | Synchronization of bandwidth-enhanced chaos in semiconductor lasers with optical feedback and injection. Optics Express, 2009, 17, 19536. | 3.4 | 60 |
| 99 | Efficient physical random bit generation with lasers. , 2009, , . | | 0 |
| 100 | Characteristics of Fast Physical Random Bit Generation Using Chaotic Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2009, 45, 1367-1379. | 1.9 | 65 |
| 101 | Fast physical random bit generation with chaotic semiconductor lasers. Nature Photonics, 2008, 2, 728-732. | 31.4 | 808 |
| 102 | Local conditional Lyapunov exponent characterization of consistency of dynamical response of the driven Lorenz system. Physical Review E, 2008, 78, 036203. | 2.1 | 24 |
| 103 | Numerical Analysis on Chaos Synchronization in Semiconductor Lasers Subject to a Common Drive Signal. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 768-774. | 0.2 | 0 |
| 104 | Separation of mixed chaotic signals in microchip lasers by independent component analysis. , 2007, , . | | 0 |
| 105 | Synchronization of chaos in mutually coupled VCSELs: numerical study. , 2007, , . | | 0 |
| 106 | Consistency in Lasers. The Review of Laser Engineering, 2007, 35, 38-42. | 0.0 | 1 |
| 107 | Common-chaotic-signal induced synchronization in semiconductor lasers. Optics Express, 2007, 15, 3974. | 3.4 | 68 |
| 108 | Analysis of fractal dimension of light scattering in polyhedral mirror-ball structures. , 2007, , . | | 0 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Chaotic dynamics and synchronization in microchip solid-state lasers with optoelectronic feedback. Physical Review E, 2006, 74, 066206. | 2.1 | 6 |
| 110 | Synchronization and communication with chaotic laser systems. Progress in Optics, 2005, , 203-341. | 0.6 | 59 |
| 111 | Generalized Synchronization of Spatiotemporal Chaos in a Liquid Crystal Spatial Light Modulator. Physical Review Letters, 2004, 93, 084101. | 7.8 | 44 |
| 112 | Consistency of Nonlinear System Response to Complex Drive Signals. Physical Review Letters, 2004, 93, 244102. | 7.8 | 144 |
| 113 | Generalized Synchronization of Chaos in Identical Systems with Hidden Degrees of Freedom. Physical Review Letters, 2003, 91, 174101. | 7.8 | 54 |
| 114 | Recent Progress in Quantum Optics. Secure Communications Using Laser Chaos The Review of Laser Engineering, 2000, 28, 682-689. | 0.0 | 0 |