

# Abderrahim Ramdane

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10581137/publications.pdf>

Version: 2024-02-01

54  
papers

1,018  
citations

471509

17  
h-index

454955

30  
g-index

54  
all docs

54  
docs citations

54  
times ranked

649  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | High performance mode locking characteristics of single section quantum dash lasers. Optics Express, 2012, 20, 8649.   | 3.4 | 120       |
| 2  | InAs/InP Quantum-Dot Passively Mode-Locked Lasers for 1.55- $\mu$ m Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1292-1301.   | 2.9 | 95        |
| 3  | High performance InP-based quantum dash semiconductor mode-locked lasers for optical communications. Bell Labs Technical Journal, 0, 14, 63-84.  | 0.7 | 62        |
| 4  | Quantum Dash Mode-Locked Lasers for Data Centre Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 53-60.   | 2.9 | 58        |
| 5  | Separate Error-Free Transmission of Eight Channels at 10 Gb/s Using Comb Generation in a Quantum-Dash-Based Mode-Locked Laser. IEEE Photonics Technology Letters, 2009, 21, 1746-1748.                                       | 2.5 | 46        |
| 6  | Injection-Locking Properties of InAs/InP-Based Mode-Locked Quantum-Dash Lasers at 21 GHz. IEEE Photonics Technology Letters, 2011, 23, 1544-1546.  | 2.5 | 39        |
| 7  | Optical Heterodyne Analog Radio-Over-Fiber Link for Millimeter-Wave Wireless Systems. Journal of Lightwave Technology, 2021, 39, 465-474.  | 4.6 | 38        |
| 8  | Optical Frequency Comb Generation Using Dual-Mode Injection-Locking of Quantum-Dash Mode-Locked Lasers: Properties and Applications. IEEE Journal of Quantum Electronics, 2012, 48, 1327-1338.                               | 1.9 | 37        |
| 9  | A Novel Scheme for Two-Level Stabilization of Semiconductor Mode-Locked Lasers Using Simultaneous Optical Injection and Optical Feedback. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1101208-1101208. | 2.9 | 36        |
| 10 | Optical Feedback Tolerance of Quantum-Dot- and Quantum-Dash-Based Semiconductor Lasers Operating at 1.55 $\mu$ m. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 764-773.                                 | 2.9 | 35        |
| 11 | Coherent WDM transmission using quantum-dash mode-locked laser diodes as multi-wavelength source and local oscillator. Optics Express, 2019, 27, 31164.  | 3.4 | 35        |
| 12 | Single-section quantum well mode-locked laser for 400 Gb/s SSB-OFDM transmission. Optics Express, 2015, 23, 26442.   | 3.4 | 34        |
| 13 | Mitigation of relative intensity noise of quantum dash mode-locked lasers for PAM4 based optical interconnects using encoding techniques. Optics Express, 2017, 25, 20.  | 3.4 | 31        |
| 14 | Amplitude and Phase Noise of Frequency Combs Generated by Single-Section InAs/InP Quantum-Dash-Based Passively and Actively Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.                          | 1.9 | 30        |
| 15 | Comb-based WDM transmission at 10 Tbit/s using a DC-driven quantum-dash mode-locked laser diode. Optics Express, 2019, 27, 31110.  | 3.4 | 30        |
| 16 | Timing jitter from the optical spectrum in semiconductor passively mode locked lasers. Optics Express, 2012, 20, 9151.   | 3.4 | 28        |
| 17 | Stability of Optical Frequency Comb Generated With InAs/InP Quantum-Dash-Based Passive Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2014, 50, 275-280.   | 1.9 | 26        |
| 18 | Quantum dash based single section mode locked lasers for photonic integrated circuits. Optics Express, 2014, 22, 11254.  | 3.4 | 23        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 32QAM WDM transmission at 12 Tbit/s using a quantum-dash mode-locked laser diode (QD-MLLD) with external-cavity feedback. Optics Express, 2020, 28, 23594.                                | 3.4 | 18        |
| 20 | Mode coherence measurements across a 15ÅTHz spectral bandwidth of a passively mode-locked quantum dash laser. Optics Letters, 2012, 37, 1499.   | 3.3 | 17        |
| 21 | Zero-loss multiple-quantum-well electroabsorption modulator with very low chirp. Applied Physics Letters, 1994, 64, 954-956.  | 3.3 | 16        |
| 22 | Microstructural and electrical investigation of Pd/Au ohmic contact on p-GaN. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 010603.          | 1.2 | 15        |
| 23 | Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. Journal of Lightwave Technology, 2020, 38, 5708-5715.                                     | 4.6 | 15        |
| 24 | Observation of Harmonic-Mode-Locking in a Mode-Locked InAs/InP-Based Quantum-Dash Laser With CW Optical Injection. IEEE Photonics Technology Letters, 2011, 23, 549-551.                  | 2.5 | 11        |
| 25 | Analysis of Deep Level Defects in GaN p-i-n Diodes after Beta Particle Irradiation. Electronics (Switzerland), 2015, 4, 1090-1100.  | 3.1 | 10        |
| 26 | Electrical parameters of Au/n-GaN and Pt/n-GaN Schottky diodes. Superlattices and Microstructures, 2015, 82, 269-286.   | 3.1 | 10        |
| 27 | 200-Gb/s Baudrate-Pilot-Aided QPSK/Direct Detection With Single-Section Quantum-Well Mode-Locked Laser. IEEE Photonics Journal, 2016, 8, 1-7.   | 2.0 | 10        |
| 28 | Quantum Dash Passively Mode Locked Laser for Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber Fronthaul Systems. , 2020, , .  |     | 10        |
| 29 | Long-Term Frequency Stabilization of 10-GHz Quantum-Dash Passively Mode-Locked Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 46-52.                           | 2.9 | 9         |
| 30 | Simple dispersion estimate for single-section quantum-dash and quantum-dot mode-locked laser diodes. Optics Letters, 2016, 41, 5676.  | 3.3 | 9         |
| 31 | One-Dimensional Nature of InAs/InP Quantum Dashes Revealed by Scanning Tunneling Spectroscopy. Nano Letters, 2015, 15, 4488-4497.   | 9.1 | 8         |
| 32 | Laterally coupled distributed feedback lasers emitting at 2µm with quantum dash active region and high-duty-cycle etched semiconductor gratings. Journal of Applied Physics, 2017, 121, . | 2.5 | 6         |
| 33 | Electrically injected parity-time symmetric distributed feedback laser diodes (DFB) for telecom applications. Nanophotonics, 2021, 10, 1309-1317.   | 6.0 | 6         |
| 34 | Correlation coefficient measurement of the mode-locked laser tones using four-wave mixing. Applied Optics, 2016, 55, 4441.  | 2.1 | 5         |
| 35 | Ultra-fast optical ranging using quantum-dash mode-locked laser diodes. Scientific Reports, 2022, 12, 1076.   | 3.3 | 5         |
| 36 | Mode locked InAs/InP Quantum dash based DBR Laser monolithically integrated with a semiconductor optical amplifier. , 2013, , .   |     | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Discrimination of Carrier Conduction Mechanisms of InP/InGaAsP/InAs/InP Laser Structure Through Measurements. IEEE Transactions on Electron Devices, 2016, 63, 1866-1870.                        | 3.0 | 4         |
| 38 | Dc and ac electrical response of MOCVD grown GaN in p-i-n structure, assessed through $I-V$ and admittance measurement. Journal Physics D: Applied Physics, 2017, 50, 505109.                    | 2.8 | 4         |
| 39 | Mechanism of Ohmic Cr/Ni/Au contact formation on p-GaN. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 022205.                                       | 1.2 | 3         |
| 40 | Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects. , 2015, , .   |     | 3         |
| 41 | Simultaneous Determination of Electron and Hole Mobilities in InP/InGaAsP/InAs/InP Laser Heterostructure by Admittance Spectroscopy. IEEE Transactions on Electron Devices, 2017, 64, 2881-2885. | 3.0 | 3         |
| 42 | Parity-time Symmetric gratings in 1550 nm Distributed-Feedback lasers diodes: insight on device design rules. Journal of the Optical Society of America B: Optical Physics, 0, , .               | 2.1 | 3         |
| 43 | 56 Gb/s over 1.3 THz frequency range and 400G DWDM PAM-4 transmission with a single quantum dash mode-locked laser source. Optics Express, 2020, 28, 22443.                                      | 3.4 | 3         |
| 44 | Laser diodes for microwave and millimeter wave photonics. , 2009, , .  |     | 2         |
| 45 | WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. Journal of Lightwave Technology, 2017, 35, 2981-2987.  | 4.6 | 2         |
| 46 | Fiber optic applications of multiple quantum well electroabsorption modulators. Annales Des Telecommunications/Annals of Telecommunications, 2003, 58, 1459-1484.                                | 2.5 | 1         |
| 47 | Scaling and tuning properties of microwave generation in CW injection locked InP-based mode-locked quantum dash lasers. , 2011, , .  |     | 1         |
| 48 | Fast-Recovery of the Amplitude and Phase of Short Optical Pulses Using a Frequency-Swept Source Based Heterodyne Measurement. IEEE Photonics Journal, 2018, 10, 1-7.                             | 2.0 | 1         |
| 49 | Phase Synchronization of a Two-Channel Phase-Sensitive Amplifier based on Optical Injection-Locking of InP Quantum-Dash Mode-Locked Lasers. , 2012, , .  |     | 1         |
| 50 | Dynamics of mode-locked InP based quantum dash lasers for optical communications. , 2011, , .  |     | 0         |
| 51 | Tbit/s transmission based on mode locked laser frequency comb sources. , 2015, , .   |     | 0         |
| 52 | Noise investigation of single section InAs/ InP quantum-dash lasers in active and passive mode-locking. , 2016, , .  |     | 0         |
| 53 | Self-Injected Optical Frequency Comb Quantum Dash Lasers. , 2019, , .  |     | 0         |
| 54 | All Optical Passive Stabilization of a Two-Section InAs/InP Based Quantum-Dash Mode-Locked Laser with Simultaneous CW Injection-Locking and Selective Optical Feedback. , 2012, , .              |     | 0         |