

V V Dudelev

List of Publications by Year in descending order

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82
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413
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82
times ranked

237
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Observation of Long Turn-On Delay in Pulsed Quantum Cascade Lasers. Journal of Lightwave Technology, 2022, 40, 2104-2110. | 4.6 | 3 |
| 2 | Quantum-Cascade Laser with Radiation Emission through a Textured Layer. Semiconductors, 2022, 56, 1-4. | 0.5 | 0 |
| 3 | Observation of the Turn-on Delay in InAs- and InP-based Quantum Cascade Lasers under Pulsed Pumping with Non-zero Rise-time. , 2021, , . | | 0 |
| 4 | Spectral Dynamics of Quantum Cascade Lasers Generating Frequency Combs in the Long-Wavelength Infrared Range. Technical Physics, 2020, 65, 1281-1284. | 0.7 | 2 |
| 5 | Spectral Characteristics of Half-Ring Quantum-Cascade Lasers. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT/Overlo | 0.6 | 0 |
| 6 | 10-W 4.6- $\hat{1}$ / ₄ m quantum cascade lasers. Quantum Electronics, 2020, 50, 720-721. | 1.0 | 6 |
| 7 | Observation of the increase in turn-on delay of quantum cascade lasers under pulsed electrical pumping with finite rise time. Journal of Physics: Conference Series, 2020, 1697, 012062. | 0.4 | 0 |
| 8 | Heterostructures of Quantum-Cascade Laser for the Spectral Range of 4.6 $\hat{1}$ / ₄ m for Obtaining a Continuous-Wave Lasing Mode. Technical Physics Letters, 2020, 46, 442-445. | 0.7 | 8 |
| 9 | High-power (>1 W) room-temperature quantum-cascade lasers for the long-wavelength IR region. Quantum Electronics, 2020, 50, 141-142. | 1.0 | 20 |
| 10 | High-Power (>13 W) Quantum-Cascade Lasers for Long Wavelength Infrared Range. , 2020, , . | | 0 |
| 11 | A Study of the Spatial-Emission Characteristics of Quantum-Cascade Lasers for the 8- $\hat{1}$ / ₄ m Spectral Range. Technical Physics Letters, 2020, 46, 1152-1155. | 0.7 | 1 |
| 12 | Dynamics of Frequency Combs Generation by QCLs in 8 $\hat{1}$ / ₄ m Wavelength Range. , 2020, , . | | 2 |
| 13 | Turn-on Delay of Quantum Cascade Lasers under Pulsed Pumping with Non-zero Rise-time. , 2020, , . | | 0 |
| 14 | Cancellation of side lobes in "droplet" Bessel beams generated with semiconductor laser. , 2020, , . | | 1 |
| 15 | Development and study of high-power quantum-cascade lasers emitting at 4.5 $\hat{1}$ / ₄ m. Quantum Electronics, 2020, 50, 989-994. | 1.0 | 7 |
| 16 | High Power Quantum-Cascade Lasers for 8 $\hat{1}$ / ₄ m Spectral Region. , 2020, , . | | 0 |
| 17 | The Technique for QCLs Heating Dynamics Measurements. , 2020, , . | | 1 |
| 18 | Turn-on Timescale Quenching in two State Quantum Well Lasers. , 2019, , . | | 2 |

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|----|--|-----|-----------|
| 19 | Quantum-Cascade Lasers with U-Shaped Resonator: Single Frequency Generation at Room Temperature. , 2019, , . | | 2 |
| 20 | Generation of Frequency Combs by Quantum Cascade Lasers Emitting in the 8-11/4m Wavelength Range. Technical Physics Letters, 2019, 45, 1027-1030. | 0.7 | 2 |
| 21 | High-Power Quantum-Cascade Lasers Emitting in the 8-11/4m Wavelength Range. Technical Physics Letters, 2019, 45, 735-738. | 0.7 | 16 |
| 22 | The Effect of Active Region Heating on Dynamic and Power Characteristics of Quantum Cascade Lasers Emitting at a Wavelength of 4.8 Åµm at Room Temperature. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT / Overlock 00 Tf 50 61 | | |
| 23 | Room Temperature Lasing of Single-Mode Arched-Cavity Quantum-Cascade Lasers. Technical Physics Letters, 2019, 45, 398-400. | 0.7 | 17 |
| 24 | High-power $\lambda = 8 \text{ Åµm}$ quantum-cascade lasers at room temperature. Journal of Physics: Conference Series, 2019, 1400, 066048. | 0.4 | 1 |
| 25 | Tunable single-frequency source based on a DFB laser array for the spectral region of 1.55 1/4m. Quantum Electronics, 2019, 49, 1158-1162. | 1.0 | 2 |
| 26 | Generation of Droplet Quasi-Bessel Beams Using a Semiconductor Laser. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 848-853. | 0.6 | 5 |
| 27 | High-coupling distributed feedback lasers for the 1.55 1/4m spectral region. Quantum Electronics, 2019, 49, 801-803. | 1.0 | 1 |
| 28 | Dual-band generation around 8 1/4m by quantum cascade lasers in wide temperature range. Journal of Physics: Conference Series, 2018, 1135, 012073. | 0.4 | 1 |
| 29 | Generation of Droplet Bessel Beams Using a Semiconductor Laser. Technical Physics Letters, 2018, 44, 887-889. | 0.7 | 3 |
| 30 | Second Harmonic Generation with a Fractional Order of Periodical Poling. , 2018, , . | | 2 |
| 31 | Growth and optical characterization of 7.5 1/4m quantum-cascade laser heterostructures grown by MBE. Journal of Physics: Conference Series, 2018, 1124, 041029. | 0.4 | 4 |
| 32 | Turn-on Dynamics of Quantum Cascade Lasers with a Wavelength of 8100 nm at Room Temperature. Technical Physics, 2018, 63, 1656-1658. | 0.7 | 11 |
| 33 | A Material for Difference-Frequency Generation of Terahertz Radiation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 125, 582-585. | 0.6 | 4 |
| 34 | High Temperature Laser Generation of Quantum-Cascade Lasers in the Spectral Region of 8 1/4m. Physics of the Solid State, 2018, 60, 2291-2294. | 0.6 | 6 |
| 35 | Dual-Frequency Generation in Quantum Cascade Lasers of the 8-11/4m Spectral Range. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 125, 402-404. | 0.6 | 24 |
| 36 | Generation of the second harmonic in ridge waveguides formed in periodically poled lithium niobate. Quantum Electronics, 2018, 48, 717-719. | 1.0 | 1 |

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|----|---|-----|-----------|
| 37 | Second Harmonic Generation in a PPLN High-Contrast Ridge Waveguide. , 2018, , . | | 0 |
| 38 | Half-disk laser: insight into the internal mode structure of laser resonators. Optics Express, 2018, 26, 14433. | 3.4 | 5 |
| 39 | Temperature effects on optical properties and efficiency of red AlGaInP-based light emitting diodes under high current pulse pumping. Journal of Applied Physics, 2018, 124, . | 2.5 | 11 |
| 40 | Two State Pulsed QW Laser: Turn-on Dynamics. , 2018, , . | | 0 |
| 41 | Photonic-crystal waveguide for the second-harmonic generation. Physics of the Solid State, 2017, 59, 1702-1705. | 0.6 | 5 |
| 42 | Generation of High-Power Ultrashort Optical Pulses Using a Semiconductor Laser with Controlled Current Pumping. Technical Physics, 2017, 62, 1885-1888. | 0.7 | 1 |
| 43 | Peaking of Optical Pulses in Vertical-Cavity Surface-Emitting Lasers with an Active Region Based on Submonolayer InGaAs Quantum Dots. Technical Physics Letters, 2017, 43, 1099-1101. | 0.7 | 1 |
| 44 | Drag coefficient of solid micro-sphere between parallel plates. Journal of Physics: Conference Series, 2016, 769, 012084. | 0.4 | 2 |
| 45 | Metamaterial for the second harmonic generation. , 2016, , . | | 0 |
| 46 | A novel type of quasi-phasematching for the second harmonic generation. Journal of Physics: Conference Series, 2016, 769, 012050. | 0.4 | 4 |
| 47 | Generation of high-power ultrashort optical pulses by semiconductor lasers. Technical Physics Letters, 2016, 42, 1159-1162. | 0.7 | 3 |
| 48 | AFM visualization of half-disk WGM laser modes. , 2016, , . | | 1 |
| 49 | Metamaterial for efficient second harmonic generation. Technical Physics Letters, 2016, 42, 1041-1044. | 0.7 | 7 |
| 50 | Slow passage through thresholds in quantum dot lasers. Physical Review E, 2016, 94, 052208. | 2.1 | 6 |
| 51 | AlGaInP red-emitting light emitting diode under extremely high pulsed pumping. Proceedings of SPIE, 2016, , . | 0.8 | 6 |
| 52 | Dropout dynamics in pulsed quantum dot lasers due to mode jumping. Applied Physics Letters, 2015, 106, 261103. | 3.3 | 5 |
| 53 | Optical trapping with superfocused high-M ² laser diode beam. Proceedings of SPIE, 2015, , . | 0.8 | 1 |
| 54 | Impact of the carrier relaxation paths on two-state operation in quantum dot lasers. , 2015, , . | | 0 |

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|----|--|-----|-----------|
| 55 | Quantum dot semiconductor disk laser at 13 μm . Optics Letters, 2015, 40, 3400. | 3.3 | 8 |
| 56 | Study of a novel type of the optical modes in VCSELs. Journal of Physics: Conference Series, 2014, 572, 012044. | 0.4 | 0 |
| 57 | Superfocusing of high-M2 semiconductor laser beams: experimental demonstration. , 2014, , . | | 2 |
| 58 | The effect of slow passage in the pulse-pumped quantum dot laser. , 2014, , . | | 1 |
| 59 | Dynamical interplay between ground and excited states in quantum dot laser. , 2014, , . | | 0 |
| 60 | Manipulation of microparticles using Bessel beams from semiconductor lasers. Technical Physics Letters, 2014, 40, 475-478. | 0.7 | 7 |
| 61 | Bessel beams from semiconductor light sources. Progress in Quantum Electronics, 2014, 38, 157-188. | 7.0 | 18 |
| 62 | Optical trapping with Bessel beams generated from semiconductor lasers. Journal of Physics: Conference Series, 2014, 572, 012039. | 0.4 | 15 |
| 63 | Optical trapping with Bessel beams generated from semiconductor lasers. , 2014, , . | | 0 |
| 64 | Influence of the axicon characteristics and beam propagation parameter M2 on the formation of Bessel beams from semiconductor lasers. Quantum Electronics, 2013, 43, 423-427. | 1.0 | 22 |
| 65 | Turn-on delay of QD and QW laser diodes: What is the difference?. Journal of Physics: Conference Series, 2013, 461, 012030. | 0.4 | 2 |
| 66 | High-speed photodiodes for the mid-infrared spectral region 1.2 μm –2.4 μm based on GaSb/GaInAsSb/GaAlAsSb heterostructures with a transmission band of 2 μm –5 GHz. Semiconductors, 2013, 47, 1103-1109. | 0.5 | 13 |
| 67 | Non-diffracting beams from surface-emitting lasers. Proceedings of SPIE, 2012, , . | 0.8 | 3 |
| 68 | Effect of gain saturation on the current-power characteristic of semiconductor laser. Technical Physics Letters, 2012, 38, 613-615. | 0.7 | 2 |
| 69 | Nonvanishing turn-on delay in quantum dot lasers. Applied Physics Letters, 2012, 100, 081109. | 3.3 | 15 |
| 70 | Superfocusing of multimode semiconductor lasers and light-emitting diodes. Technical Physics Letters, 2012, 38, 402-404. | 0.7 | 11 |
| 71 | Observation of a novel type of optical modes in VCSELs. , 2011, , . | | 0 |
| 72 | High power Bessel beams from EP-VECSELs. Proceedings of SPIE, 2011, , . | 0.8 | 6 |

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|----|--|-----|-----------|
| 73 | Study of non-diffracting light beams from broad-stripe edge-emitting semiconductor lasers. Technical Physics Letters, 2010, 36, 9-12. | 0.7 | 18 |
| 74 | Fast-response p-i-n photodiodes for 0.9–2.4 μm wavelength range. Technical Physics Letters, 2010, 36, 412-414. | 0.7 | 3 |
| 75 | Generation of TE modes in semiconductor vertical-cavity surface-emitting lasers. Technical Physics Letters, 2009, 35, 1133-1136. | 0.7 | 2 |
| 76 | Limitation of the output power of the quantum-well laser diodes under short-pulsed electrical pumping. , 2009, , . | | 0 |
| 77 | Generation of propagation-invariant light beams from semiconductor light sources. Technical Physics Letters, 2008, 34, 1075-1078. | 0.7 | 24 |
| 78 | Novel materials GaInAsPSb/GaSb and GaInAsPSb/InAs for room-temperature optoelectronic devices for a 3–5 μm wavelength range (GaInAsPSb/GaSb and GaInAsPSb/InAs for 3–5 μm). Semiconductor Science and Technology, 2008, 23, 125026. | 2.0 | 5 |
| 79 | Phase effects in broad-stripe curved-grating distributed feedback heterolasers. Technical Physics Letters, 2007, 33, 292-294. | 0.7 | 1 |
| 80 | VCSELs based on arrays of sub-monolayer InGaAs quantum dots. Semiconductors, 2006, 40, 615-619. | 0.5 | 9 |
| 81 | Output Radiation Focusing in Curved-Grating Distributed Bragg Reflector Laser. Technical Physics Letters, 2005, 31, 824. | 0.7 | 7 |
| 82 | Self-Focused Broad Area Distributed Bragg Reflector Laser Diodes. , 2005, , . | | 0 |