

Список публикаций оппонента Крыжановской Н.В.

1. N. V. Kryzhanovskaya, K.A. Ivanov, N.A. Fominykh, S.D. Komarov, I.S. Makhov, E.I. Moiseev, J. A. Guseva, M.M. Kulagina, S.A. Mintairov, N.A. Kalyuzhnny, A.I. Lihachev, R.A. Khabibullin, R.R. Galiev, A.Yu. Pavlov, K.N. Tomosh, M.V. Maximov, A.E. Zhukov; III-V microdisk lasers coupled to planar waveguides. *J. Appl. Phys.* 2023; 134 (10): 103101. <https://doi.org/10.1063/5.0165279>
2. Konstantin A. Ivanov, Alexey M. Nadtochiy, Natalia V. Kryzhanovskaya, Sergey A. Mintairov, Nikolay A. Kalyuzhnny, Ivan A. Melnichenko, Mikhail V. Maximov, Alexey E. Zhukov, Time-resolved temperature-dependent photoluminescence spectroscopy of InGaAs/GaAs quantum well-dots, *Journal of Luminescence*, 255, 2023, 119620, <https://doi.org/10.1016/j.jlumin.2022.119620>
3. A. E. Zhukov et al., "Optical Loss in Microdisk Lasers With Dense Quantum Dot Arrays," in *IEEE Journal of Quantum Electronics*, vol. 59, no. 1, pp. 1-8, Feb. 2023, Art no. 2000108, doi: 10.1109/JQE.2022.3229300.
4. Makhov, I.; Ivanov, K.; Moiseev, E.; Dragunova, A.; Fominykh, N.; Shernyakov, Y.; Maximov, M.; Kryzhanovskaya, N.; Zhukov, A. Two-State Lasing in Microdisk Laser Diodes with Quantum Dot Active Region. *Photonics* 2023, 10, 235. <https://doi.org/10.3390/photonics10030235photonics>
5. Melnichenko, Ivan, Eduard Moiseev, Natalia Kryzhanovskaya, Ivan Makhov, Alexey Nadtochiy, Nikolay Kalyuznny, Valeriy Kondratev, and Alexey Zhukov. 2022. "Submicron-Size Emitters of the 1.2–1.55 μm Spectral Range Based on InP/InAsP/InP Nanostructures Integrated into Si Substrate" *Nanomaterials* 12, no. 23: 4213. <https://doi.org/10.3390/nano122342131>
6. Shugabaev, T.; Gridchin, V.O.; Komarov, S.D.; Kirilenko, D.A.; Kryzhanovskaya, N.V.; Kotlyar, K.P.; Reznik, R.R.; Girshova, Y.I.; Nikolaev, V.V.; Kaliteevski, M.A.; et al. Photoluminescence Redistribution of InGaN Nanowires Induced by Plasmonic Silver Nanoparticles. *Nanomaterials* 2023, 13, 1069. <https://doi.org/10.3390/nano13061069>
7. A. Babichev, S. Blokhin, A. Gladyshev, L. Karachinsky, I. Novikov, A. Blokhin, M. Bobrov, N. Maleev, V. Andryushkin, E. Kolodeznyi, D. Denisov, N. Kryzhanovskaya, K. Voropaev, V. Ustinov, A. Egorov, H.Li, Si-Cong Tian, Saiyi Han, G. Sapunov, Dieter Bimberg., "Single-Mode High-Speed 1550 nm Wafer Fused VCSELs for Narrow WDM Systems," in *IEEE Photonics Technology Letters*, vol. 35, no. 6, pp. 297-300, 15 March15, 2023, doi: 10.1109/LPT.2023.3241001.
8. A E Zhukov, E I Moiseev, A M Nadtochiy, I S Makhov, K A Ivanov, A S Dragunova, N A Fominykh, Yu M Shernyakov, S A Mintairov, N A Kalyuzhnny, S V Mikushev, F I Zubov, M V Maximov, N V Kryzhanovskaya, Dynamic characteristics and noise modelling of directly modulated quantum well-dots microdisk lasers on silicon, *Laser Physics Letters* 19(2), 025801 (2022). <https://doi.org/10.1088/1612-202X/ac44a3>
9. Kryzhanovskaya N.V. 1.3 μm optically-pumped monolithic VCSEL based on GaAs with InGa(Al)As superlattice active region, 2022 *Laser Phys. Lett.* 19 075801 10.1088/1612-202X/ac6e6e
10. F I Zubov, E I Moiseev, A M Nadtochiy, N A Fominykh, K A Ivanov, I S Makhov, A S Dragunova, M V Maximov, A A Vorobyev, A M Mozharov, S A Mintairov, N A Kalyuzhnny, N Yu Gordeev, N V Kryzhanovskaya and A E Zhukov, Improvement of thermal resistance in InGaAs/GaAs/AlGaAs microdisk lasers bonded onto silicon, *Semicond. Sci. Technol.* 37 075010 (2022) <https://doi.org/10.1088/1361-6641/ac7071>