

SELECTED PEER-REVIEWED PAPERS:

1. A. Gorodetsky, D.V. Lavrukhin, **D.S. Ponomarev**, S.V. Smirnov, A. Yadav, R.A. Khabibullin and E.U. Rafailov, *Enhanced THz generation from interdigitated quantum dot based photoconductive antenna operating in a quasi-ballistic regime*, IEEE Journal of Selected Topics in Quantum Electronics, 29(5), 8500505 (2023), DOI: 10.1109/JSTQE.2023.3271830, **IF = 4.83**
2. **D.S. Ponomarev**, D.V. Lavrukhin, I.A. Glinskiy, A.E. Yachmenev, N.V. Zenchenko, R.A. Khabibullin, T. Otsuji, Yu. Goncharov, and K.I. Zaytsev, *Enhanced THz radiation through thick plasmonic electrode grating photoconductive antenna with tight photocarrier confinement*, Optics Letters, 48(5), 1220-1223 (2023), DOI: 10.1364/OL.486431, **IF = 3.56**
3. S. Kudryashov, A. Nastulyavichus, G. Krasin, K. Khamidullin, K. Boldyrev, D. Kirilenko, A. Yachmenev, **D. Ponomarev**, G. Komandin, S. Lebedev, D. Prikhod'ko, M. Kovalev, *CMOS-compatible direct laser writing of sulfur-ultrahyperdoped silicon: breakthrough pre-requisite for UV-THz optoelectronic nano/microintegration*, Optics and Laser Technology 158, 108873 (2023), DOI: 10.1016/j.optlastec.2022.108873, **IF = 4.939**
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7. N.V. Chernomyrdin, M. Skorobogatiy, **D.S. Ponomarev**, V.V. Bukin, V.V. Tuchin and K.I. Zaytsev, *Terahertz solid immersion microscopy: Recent achievements and challenges*, Appl. Phys. Lett. 120, 110501 (2022); DOI: 10.1063/5.0085906, **IF = 3.971**
8. N.V. Chernomyrdin, D.V. Lavrukhin, V.E. Ulitko, R.R. Galiev, A.A. Gavdush, V.B. Anzin, A.N. Perov, G.M. Katyba, I.V. Reshetov, M. Skorobogatiy, **D.S. Ponomarev**, K.I. Zaytsev, *Continuously-tunable middle-infrared bandpass filters based on gradient metal-hole arrays*, Journal of Applied Physics 131, 123103 (2022); DOI: 10.1063/5.0079713, **IF = 2.877**
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PATENTS ON INVENTION

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