

Room temperature SWIR and MWIR photosensitivity of HgTe based CQDs photoresistor

V. S. Popov^{1,2}, T. Milenkovich¹, K. T. Khakimov¹, T. V. Koroleva¹, A. D. Deomidov², R. V. Davletshin², K. A. Khamidullin², O. A. Saptsova¹, V. O. Yakovlev¹, I. A. Shuklov¹, A. A. Koronov¹, A. V. Egorov² and V. P. Ponomarenko^{1,2}

¹ Moscow Institute of Physical and Technical
9 Institutskiy per., Dolgoprudny, Moscow Region, 141701, Russia

² Orion R&P Association, JSC
9 Kosinskaya st., Moscow, 111538, Russia
E-mail: popov.vs@mipt.ru

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The study of colloidal quantum dots (CQD) based mid-wave IR photosensors (MWIR) fabrication methods for creating inexpensive photodetector arrays is one of the most pressing problems in modern photosensorics. HgTe CQDs were synthesized, photoresistors were manufactured, and photosensor characteristics were studied, including the spectral dependence of short-wave and mid-wave IR sensitivity at room temperature.

Keywords: photosensor; MWIR; IR array; colloidal quantum dots; CQD.

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