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Near infrared LED based on PbS nanocrystals*

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The principle of operation of near-infrared LEDs based on PbS nanocrystals and aspects of their development are considered. The aging of nanocrystals with different ligand shells is analyzed, as well as spectral transmission of the bottom LED layers. Samples of light-emitting diodes based on NC are demonstrated, their electrical and optical parameters are studied. The emission at a wavelength of 1480 nm is demonstrated.

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