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Sommario/riassunto	<p>This work focusses on the first demonstration of silicon light-emitting diodes (SiLEDs) based on silicon nanocrystals as light emitting material. In a detailed study we characterize the optoelectronic and morphological properties of the SiLEDs. In addition, a whole set of new fields of applications of silicon nanocrystals, such as biomedical approaches or direct laser sintering, and detailed spectroscopic study of the particles complete the work.</p>