

Nanometer LED in biomedical equipment for potential application in

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In the liquid phase, inorganic nanocrystals based light-emitting diode (LED) because of cheap and stable chemical properties and potential application in biomedical diagnostics, but due to the difficulty of realizing ultraviolet emission, its research has not achieved a major breakthrough.

Recently, the United States of America Los Amos National Lab Sergio Brovelli research group and Italy Milan Bicocca University Alberto Paleari cooperative study group, developed a kind of embedded semiconductor nanoparticles of inorganic LED glass substrate. In this device, two tin oxide nano particles are wrapped in a tin oxide, and embedded into the glass material, glass base material in ultraviolet spectrum light, and integrated into the chip. By adjusting the thickness of the shell nanoparticles can control the whole material electric response. This device combines a glass chemical stability and mechanical stability, and having conductivity and electroluminescent properties. So can be used in harsh environment (such as immersion in physiological solution or directly into the human body, is expected to be used in the manufacture of biomedical devices).

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