



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

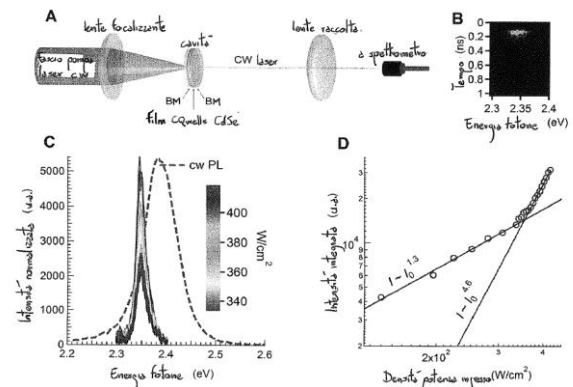
Continuous-wave pumped colloidal nanocrystal laser

INVENTORS

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DESCRIPTION

Laser device comprising, as the active medium, a nanocrystals colloidal film of semiconductor material, wherein said nanocrystals are two-dimensional adapted to constitute nanocrystals quantum wells for the confinement of the charge carriers in the nanocrystals, and having a mechanism of bi-exciton gain.



APPLICATIONS

Optical communication, laser-on-chip computing, quantum computing

KEYWORDS

Solution-processed laser, colloidal quantum wells, continuous-wave laser

BIBLIOGRAPHIC DATA

Laser a nanocristalli colloidali pompato ad onda continua

Application Number

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Applicants

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