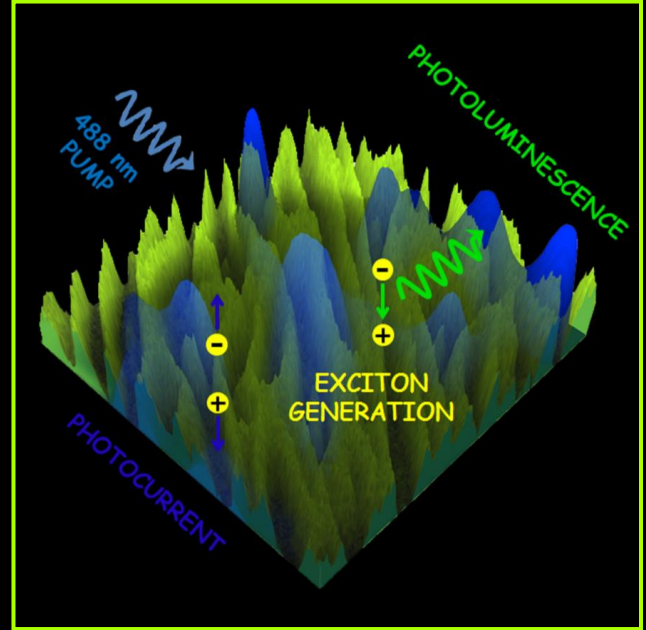
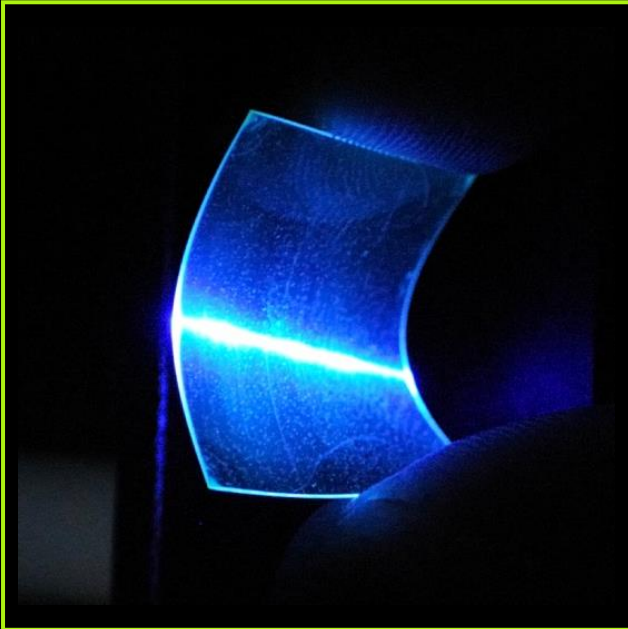
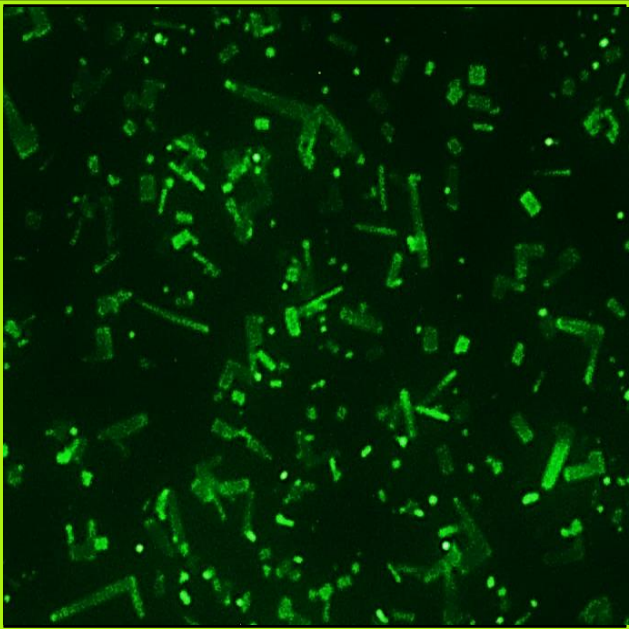


LABORATORIO DI FOTONICA



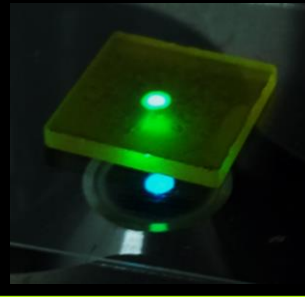
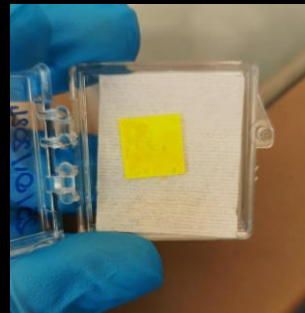
interazione
radiazione-materia

materiali
innovativi

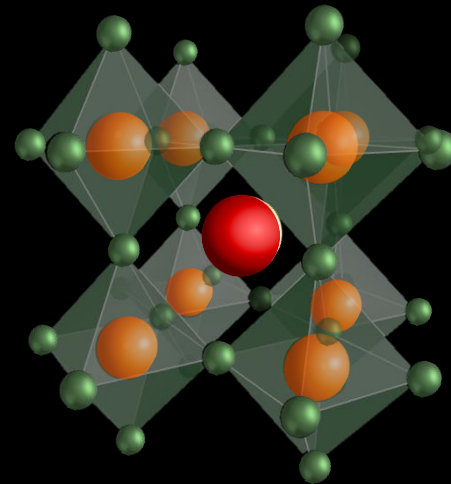


Il gruppo




Marco Anni
Maria Luisa De Giorgi
Stefania Milanese

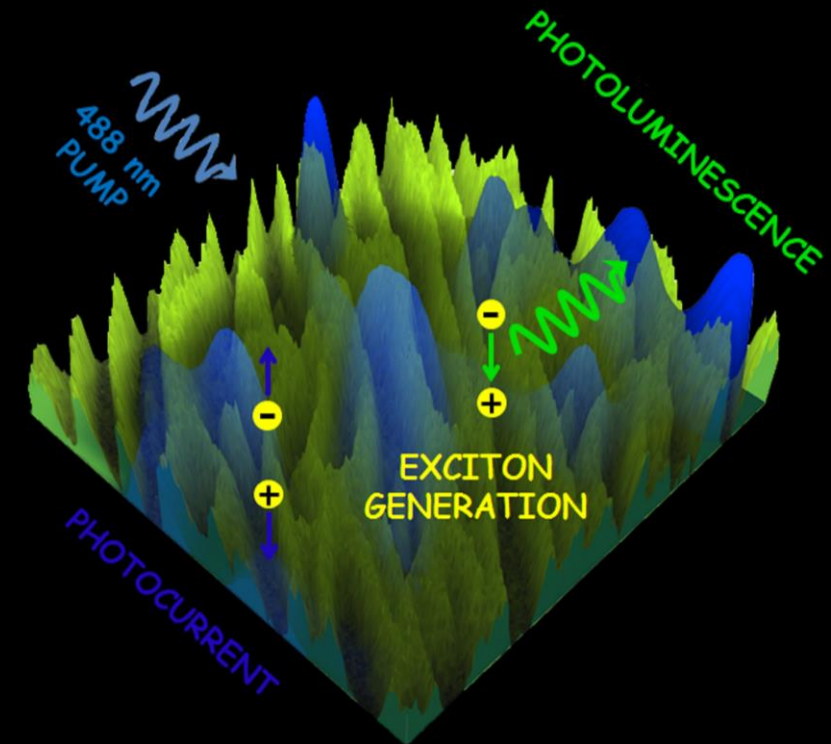
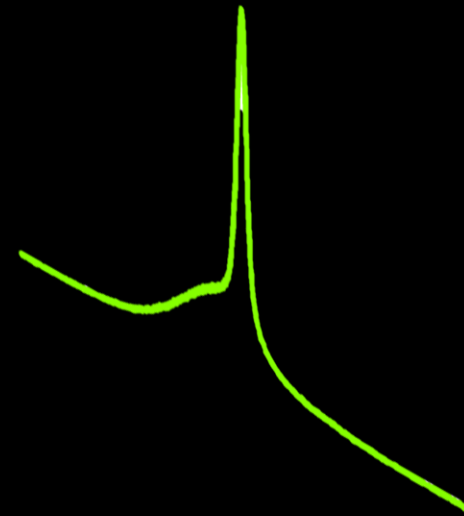
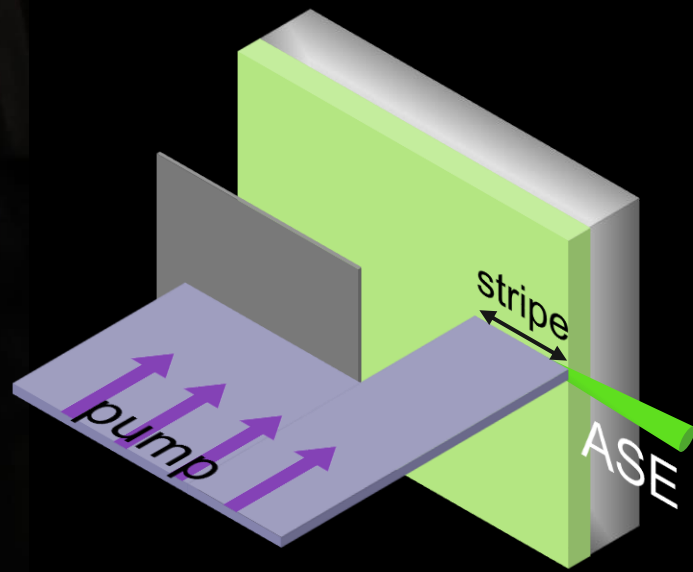


Fotoluminescenza e Emissione Stimolata in semiconduttori



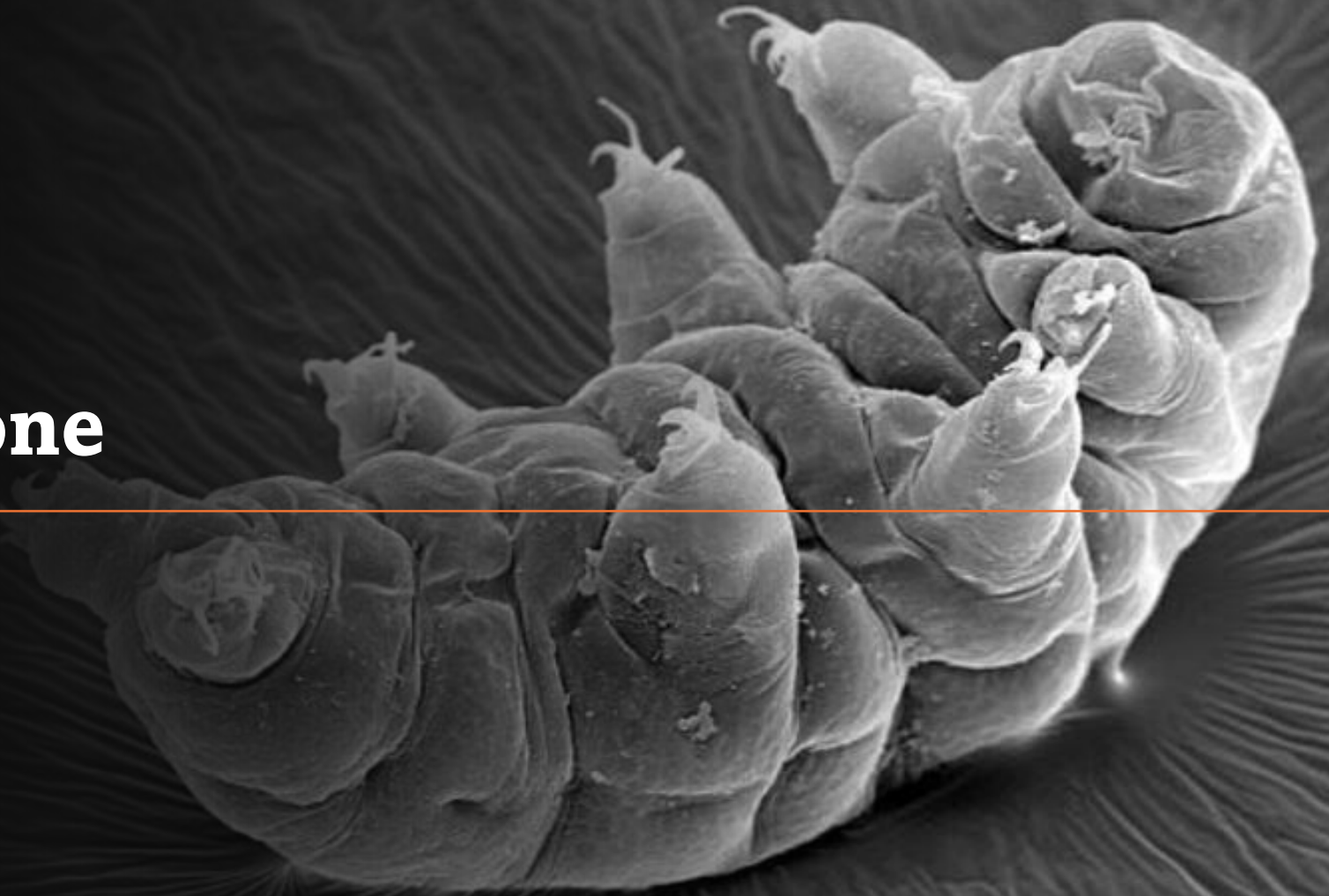
Lead halide perovskite

-  A = MA⁺, Cs⁺
-  B = Pb²⁺
-  X = Br, Cl, I⁻



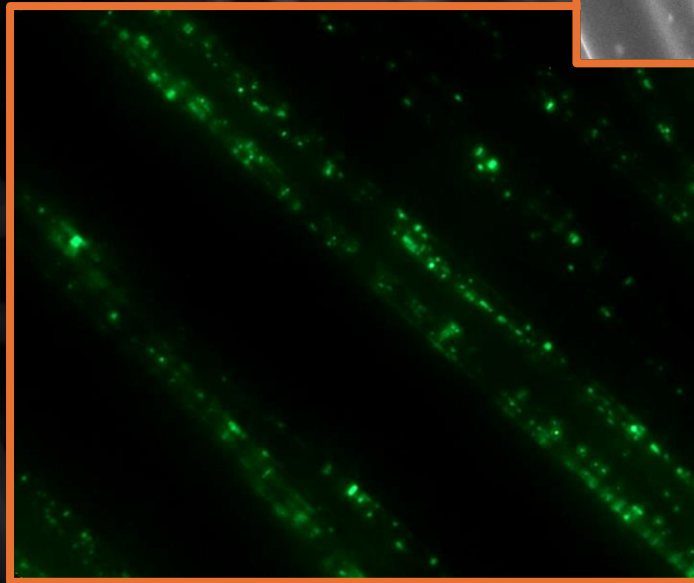
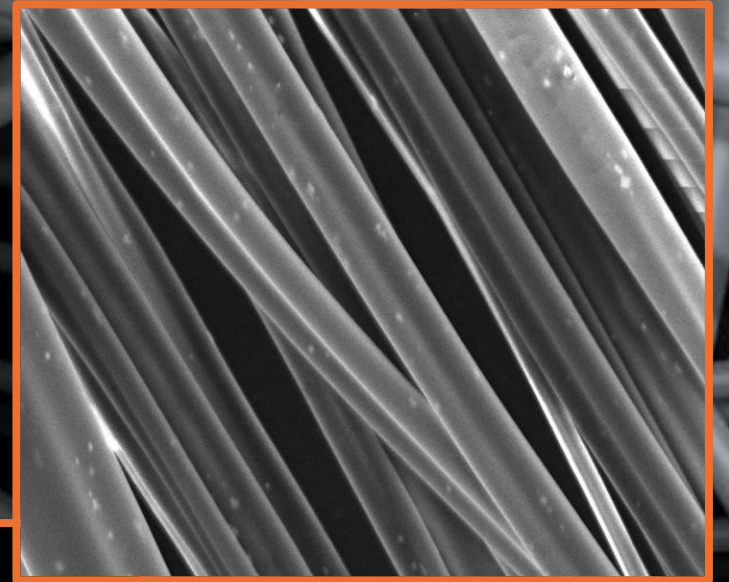
Spettroscopia ad alta risoluzione spaziale

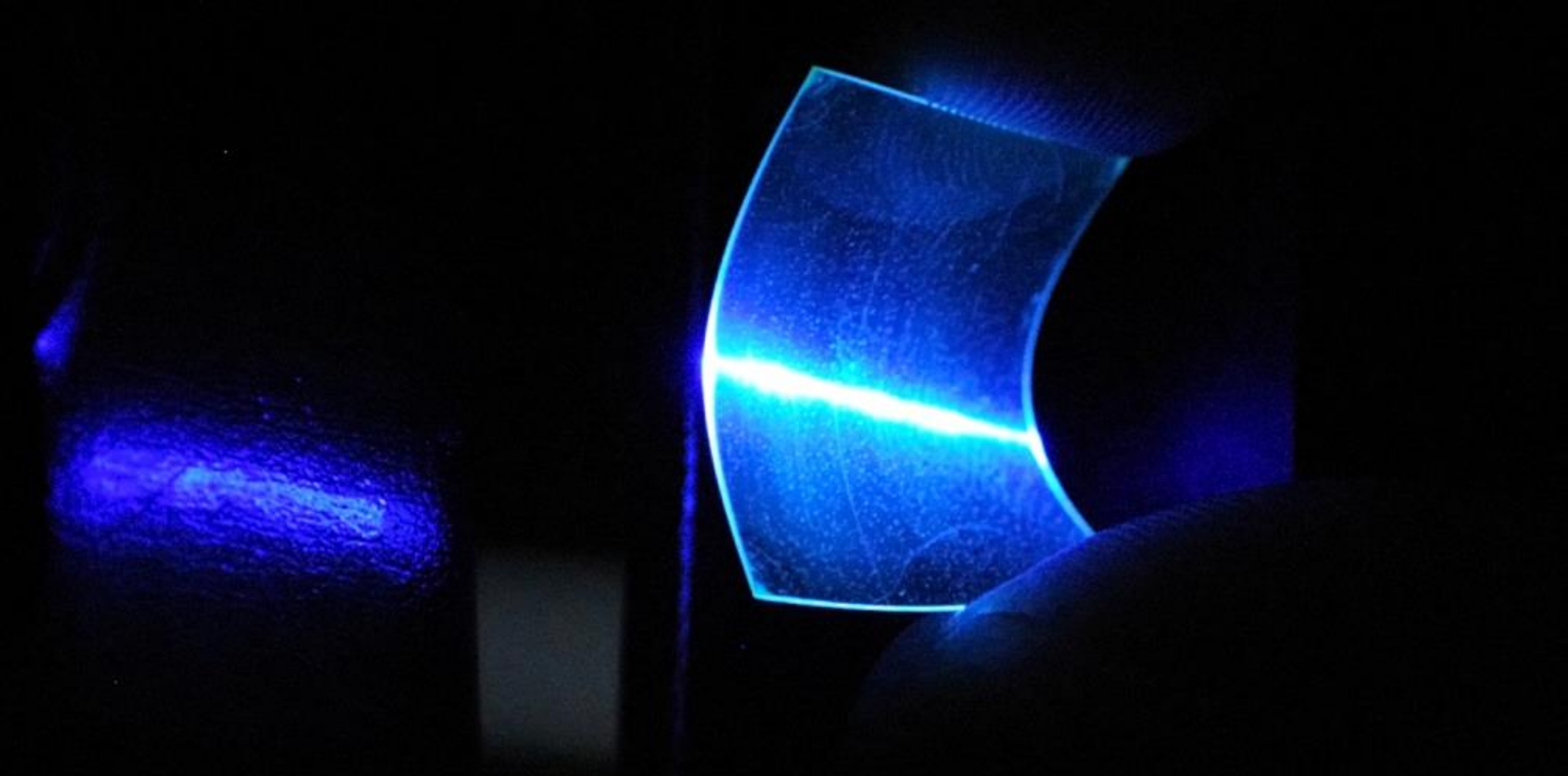
Microscopia Elettronica a Scansione



100µm

**Nanofibre polimeriche
per amplificatori ottici**





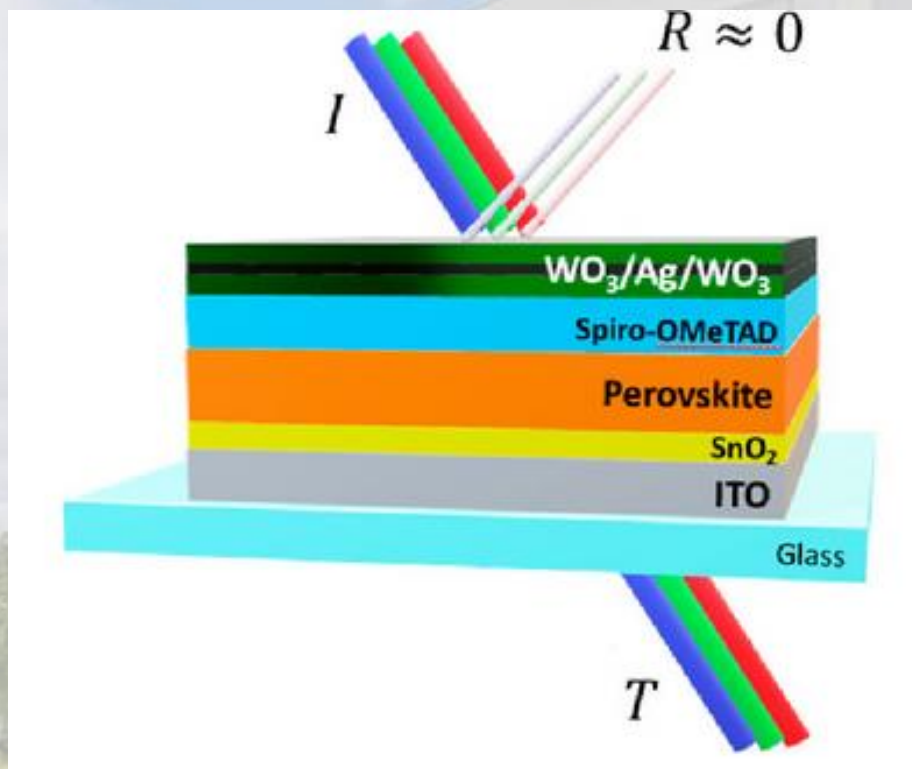
Laser flessibili da film polimerici fluorescenti

COLLABORAZIONI NAZIONALI & INTERNAZIONALI



Dipartimento di Matematica e Fisica

Antonella Lorusso, Marco Mazzeo



ACS
Energy
LETTERS

Open Access

This article is licensed under [CC-BY 4.0](https://creativecommons.org/licenses/by/4.0/)

<http://pubs.acs.org/journal/aelccp>

A Rational Approach to Improve the Overall Performances of Semitransparent Perovskite Solar Cells by Electrode Optical Management

Antonella Lorusso, Sofia Masi,* Claudia Triolo, Fabrizio Mariano, Simone Muia, Alessandro Cannavale, Yu Duan, Marco Anni, Maria Luisa De Giorgi, Salvatore Patané, Olfa Selmi, Iván Mora-Seró, Stefano De Leo,* and Marco Mazzeo*



Cite This: *ACS Energy Lett.* 2024, 9, 1923–1931



Read Online



ARTICLE

Article

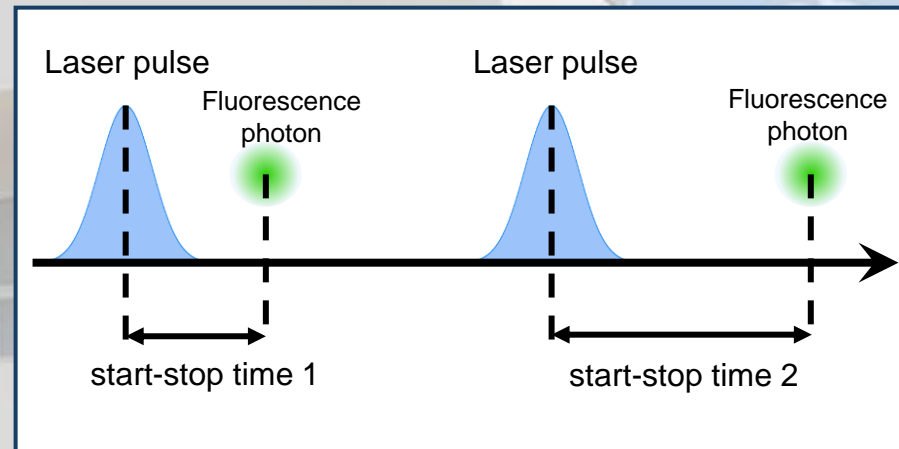
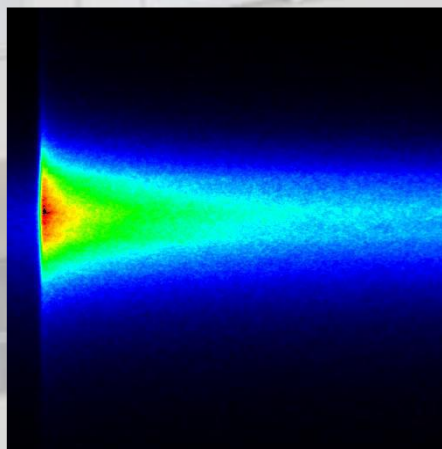
Temperature-Dependent Amplified Spontaneous Emission in CsPbBr₃ Thin Films Deposited by Single-Step RF-Magnetron Sputtering

Giovanni Morello ^{1,2}, Stefania Milanese ³, Maria Luisa De Giorgi ³, Nicola Calisi ^{4,5}, Stefano Caporali ^{4,5}, Francesco Biccari ⁶, Naomi Falsini ⁷, Anna Vinattieri ⁶ and Marco Anni ^{3,*}

Article

Investigation of the Role of the Environment on the Photoluminescence and the Exciton Relaxation of CsPbBr₃ Nanocrystals Thin Films

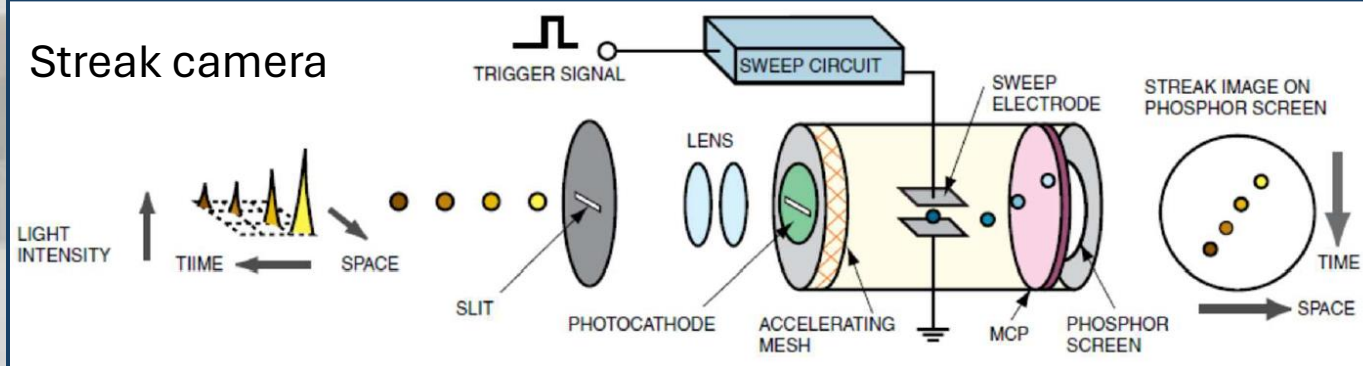
Marco Anni ^{1,*}, Arianna Creti ², Yuhai Zhang ^{3,†}, Maria Luisa De Giorgi ¹ and Mauro Lomascolo ²



Investigation of the exciton relaxation processes in poly(9,9-dioctylfluorene-co-benzothiadiazole):CsPbI_{1.5}Br_{1.5} nanocrystal hybrid polymer-perovskite nanocrystal blend[†]

Antonio Balena,^{†a} Arianna Creti,^b Mauro Lomascolo^b and Marco Anni^{†a*}

Streak camera

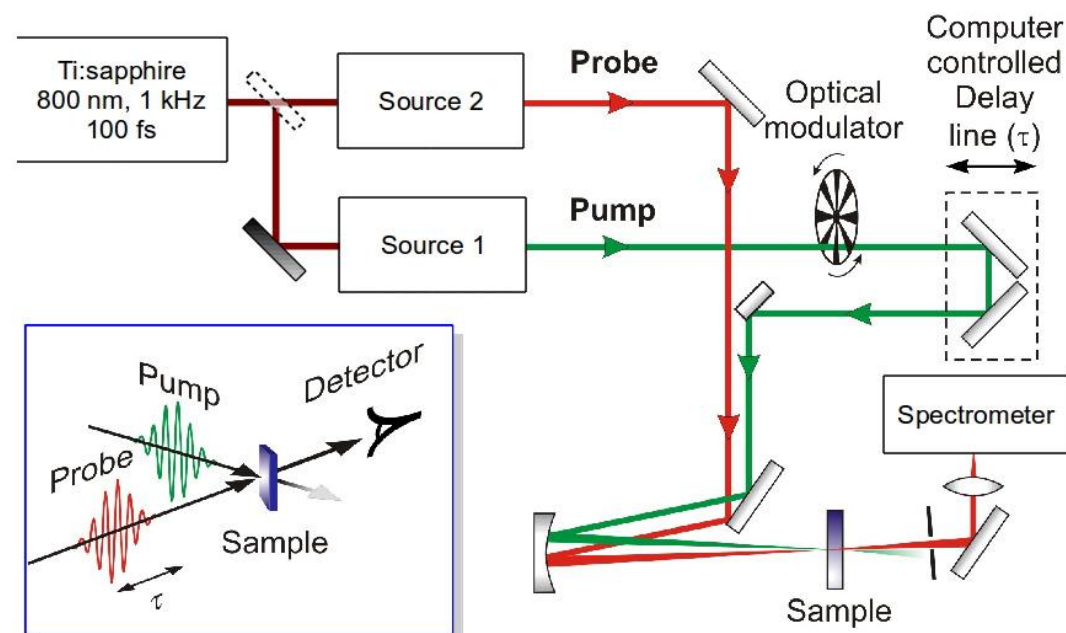


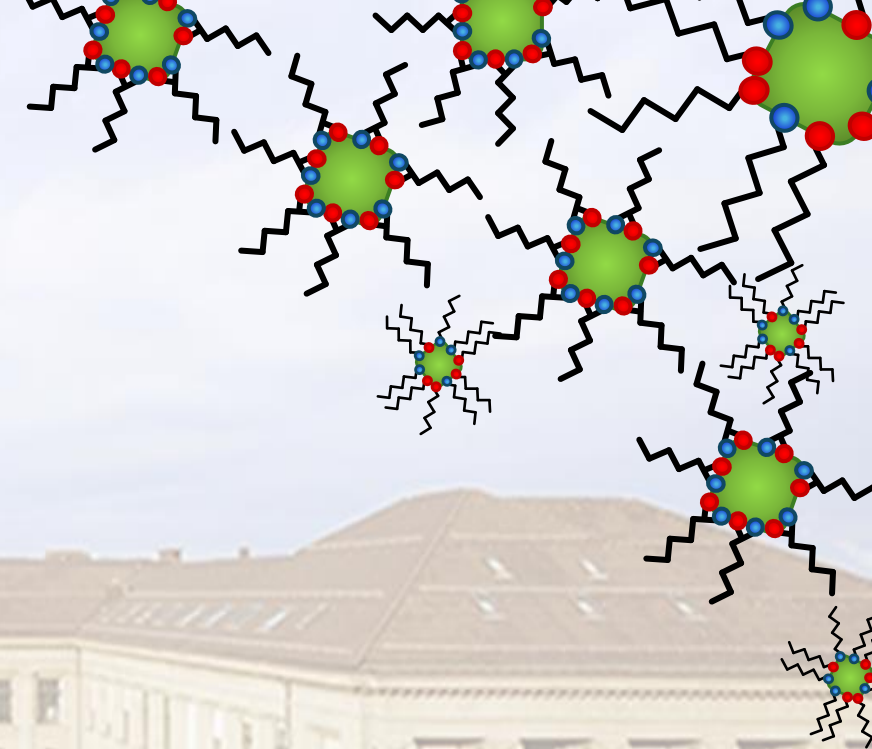


Article

Deep Blue Light Amplification from a Novel Triphenylamine Functionalized Fluorene Thin Film

Tersilla Virgili ^{1,*}, Marco Anni ^{2,*}, Maria Luisa De Giorgi ² , Rocio Borrego Varillas ¹ , Benedetta M. Squeo ³ and Mariacecilia Pasini ^{3,*}





Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Materials Today Physics

journal homepage: www.journals.elsevier.com/materials-today-physics

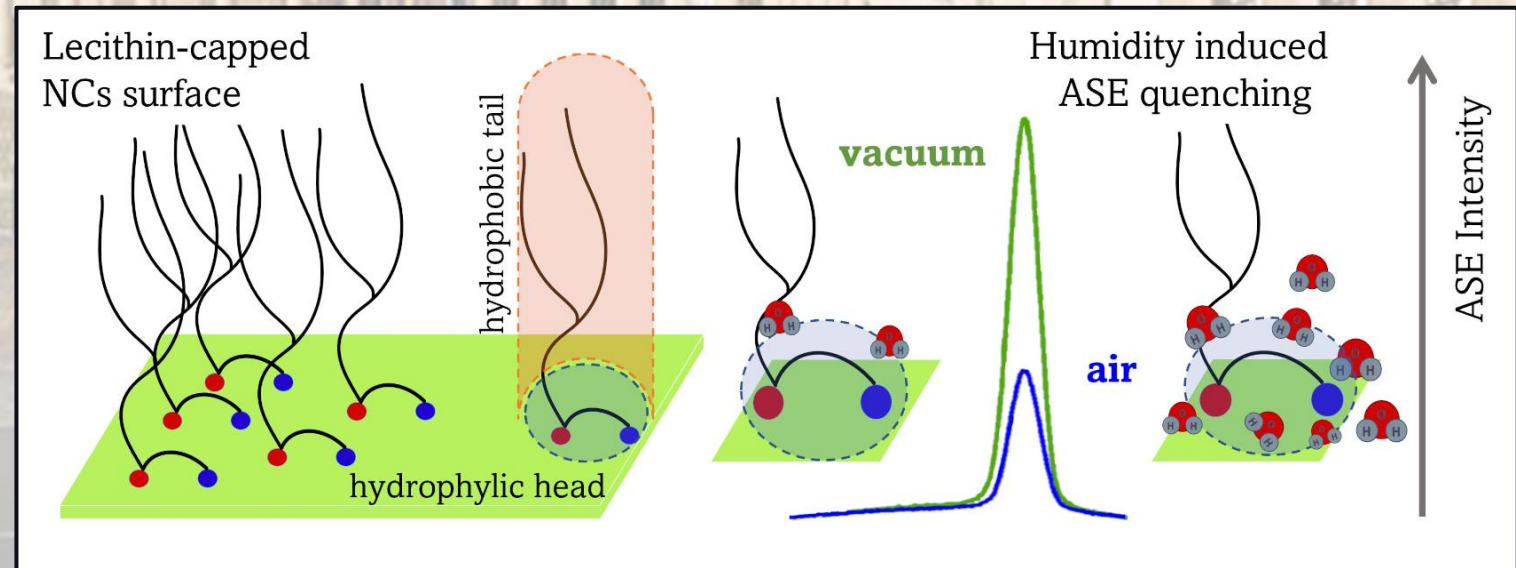
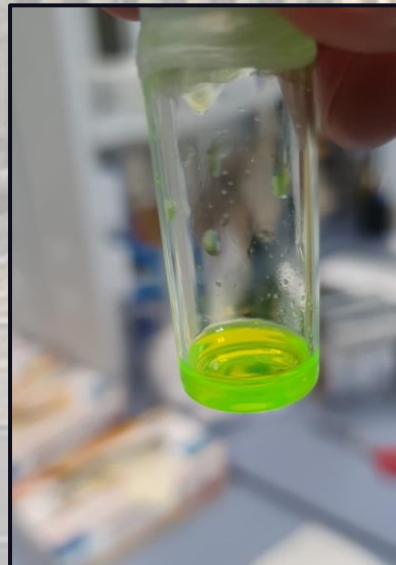
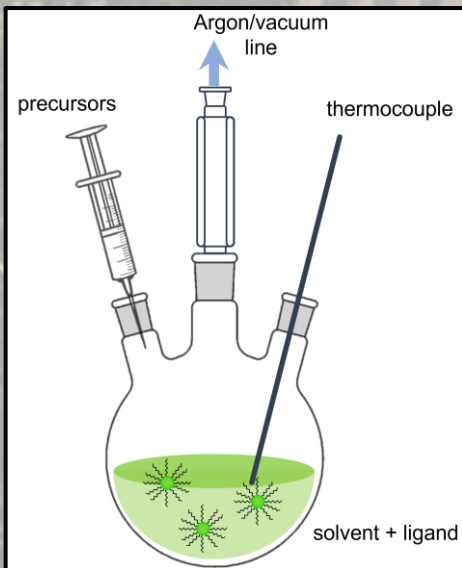
ELSEVIER

materialstoday PHYSICS

Check for updates

Air-sensitive amplified spontaneous emission in lecithin-capped CsPbBr₃ nanocrystals thin films

Stefania Milanese^{a,1}, Giovanni Morello^{b,c,1}, Maria Luisa De Giorgi^{a,b}, Arianna Creti^b, Hordii Andrusiv^{d,e}, Maryna I. Bodnarchuk^{d,e}, Antonio Qualtieri^c, Mauro Lomascolo^b, Maksym V. Kovalenko^{d,e}, Marco Anni^a





**INSTITUTO DE
QUÍMICA FÍSICA
BLAS CABRERA**

Luis Cerdan



ELSEVIER

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Optics and Laser Technology

journal homepage: www.elsevier.com/locate/optlastec

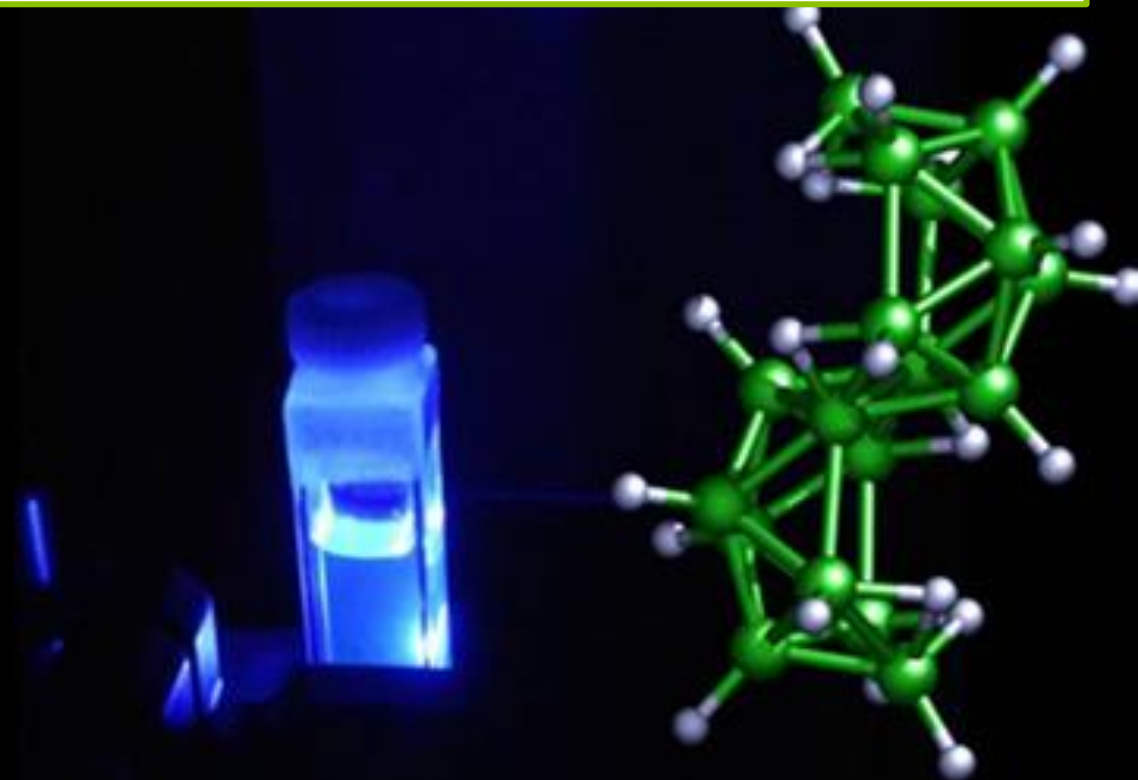
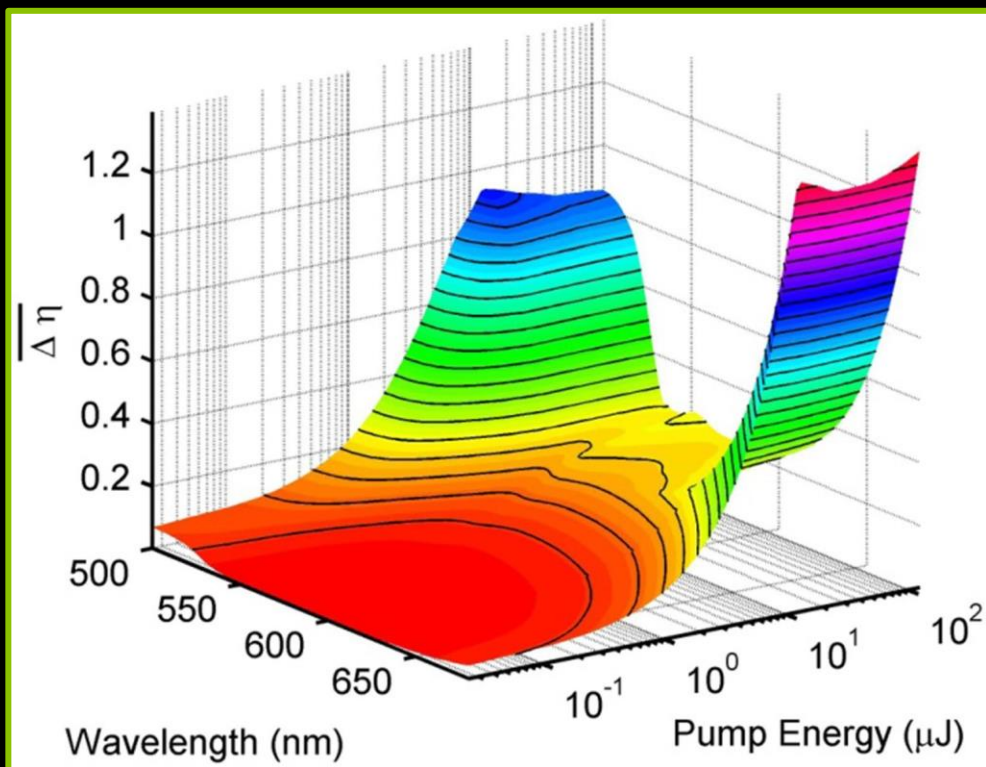


Full length article

Unveiling photophysical and photonic phenomena by means of optical gain measurements in waveguides and solutions




Luis Cerdán ^{a,*}, Marco Anni ^b, Maria Luisa De Giorgi ^b, Pedro G. Boj ^c, María A. Díaz-García ^d



Origin of Amplified Spontaneous Emission Degradation in MAPbBr₃ Thin Films under Nanosecond-UV Laser Irradiation

Maria Luisa De Giorgi,* Titti Lippolis, Nur Fadilah Jamaludin, Cesare Soci, Annalisa Bruno, and Marco Anni

 Cite This: *J. Phys. Chem. C* 2020, 124, 10696–10704

 Read Online

Annalisa Bruno & Cesare Soci

