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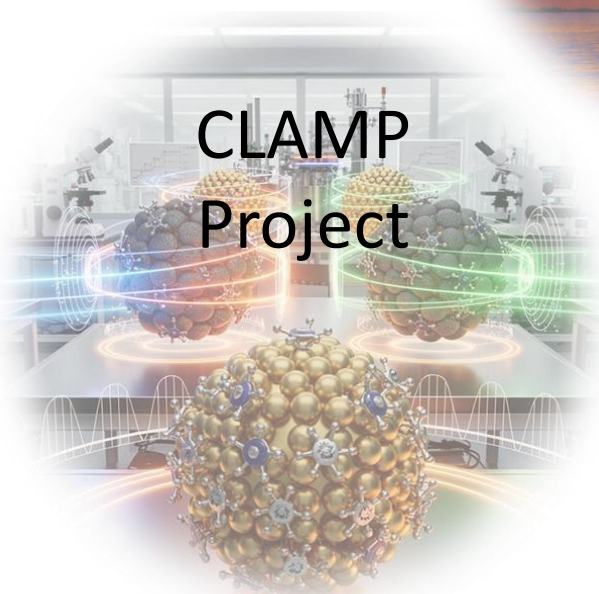
Dario Bassani
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SUNRISE Moonshot

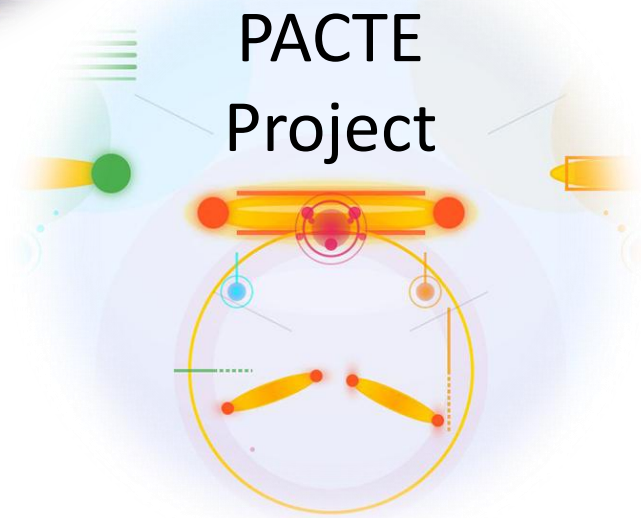
CLAMP Project



PROSECO AAP project



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SUNRISE Publications

ChemEurj | Research Article
doi.org/10.1002/chem.202502037

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Direct Visualization of Plasmon- Induced Hole Injection in Electroactive Luminescent Monolayers on Gold Nanoparticles

Baptiste Maillot,^[a] Ali Dabbous,^[a] Jean-Frédéric Audibert,^[a] Vitor Brasiliense,^{*,[a]} and Fabien Miomandre^{*,[a]}

Plasmonics
https://doi.org/10.1007/s11468-025-03308-6

RESEARCH

Controlled Polymerization at Macroscale and Nanoscale Through Thermoplasmonics

Céline Molinaro^{1,2} · Amine Khitous^{1,2} · Mathieu Bastide^{1,2} · Olivier Soppera^{1,2}

ACS APPLIED POLYMER MATERIALS

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Near-Field Imprinting of Chiral Nanolayers by Plasmon-Induced Photopolymerization for Specific and Ultrasensitive Enantioselective Detection

Amine Khitous,[#] Francesco Arcadio,[#] Luigi Zeni, Nunzio Cennamo, and Olivier Soppera^{*}

Cite This: *ACS Appl. Polym. Mater.* 2026, 8, 6301–6309

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Cite this: *Phys. Chem. Chem. Phys.*, 2025, 27, 16989

Spatially controlled plasmon-induced photopolymerization at the apex of gold nanobipyramids: paving the way for 3D nanofabrication†

Amine Khitous,^[a] Céline Molinaro,^[a] Loïc Vidal,^[a] Stephania Abdallah,^[a] Anthony Désert,^[a] Frédéric Lerouge,^[a] Jean-Pierre Malval,^[a] and Olivier Soppera^{*,[a]}

ACS APPLIED OPTICAL MATERIALS

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Article

Chiroptical Amplification in Circularly Polarized Random Lasing Using Chiral Plasmonic Core–Shell Nanoparticles

Roberta Silva Pugina,^{*} Edwin Danelli Coronel Sanchez, Emanuel Pinheiro Santos, Emma Bagnouls, Anthony Désert, Stéphane Parola, Anderson Stevens Leônidas Gomes, and Sidney José Lima Ribeiro

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Photopolymerizing carbazole-based monomers in dilute media: prototyping organic wires with nanoscale thickness control

Jennifer Calderon-Mora, Ali Dabbous, Baptiste Maillot, Rasta Ghasemi, Jean Frédéric Audibert, Fabien Miomandre^[a] and Vitor Brasiliense^[a]

O. Soppera, N. Cennamo, A. Khitous, F. Arcadio, PROCESS FOR MANUFACTURING A PLASMONIC MULTIMODE WAVEGUIDE SENSOR COMPRISING A PHOTOPOLYMERIZED MOLECULAR IMPRINTED POLYMER NANOLAYER, Application number : EP 25 305 283.1.

Material synthesis and characterization

Plasmon-activated
catalysis

Nanoparticle
synthesis

Plasmon-enhanced photoreactivity and nanostructuration

Microfluidics

Modulation of
optical or
magnetic properties

Sub-diffractive fabrication and visualization

Simulations

Diazonium
salts

Photothermal
semiconductor
welding

Photoinduced functional nanostructures over large surfaces

Modulation via
photocommutation

Grafting of
photoactive
complexes

Structuration of
quartz



**CLAMP
Project**

Jérôme Fresneix – PHENIX

Magnetic nanoparticles – ligand interactions : from steady state to fast measurements



**PACTE
Project**

Clémence Queffelec – CEISAM

Plasmon-Activated Molecular Catalysis Applied to Orthogonal Relay Catalysis



**PROSECO
AAP project**

Nicolas Forget – INPHYNI

Laser processing of semiconductors using structured light



SUNRISE Moonshot

Vitor Brasiliense – PPSM

Ultrasensitive quantitative phase nanometrology for monitoring single nanoparticle modification in operando conditions

Nathalie Destouches & Manuel Flores – Laboratoire Hubert Curien & Toppan Security
Vers l'industrialisation d'un procédé de coloration par laser de métasurfaces plasmoniques aléatoires