

Témoignages jeunes & mobilité



Céline Molinaro

Institut de Science des Matériaux de Mulhouse (IS2M),
Mulhouse

Probing temperature generated by arrays of plasmonic nanostructures

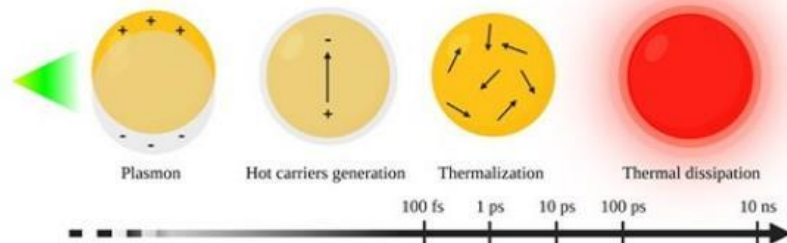
3 weeks mobility – 6 to 26 sept - Sherbrooke, Canada



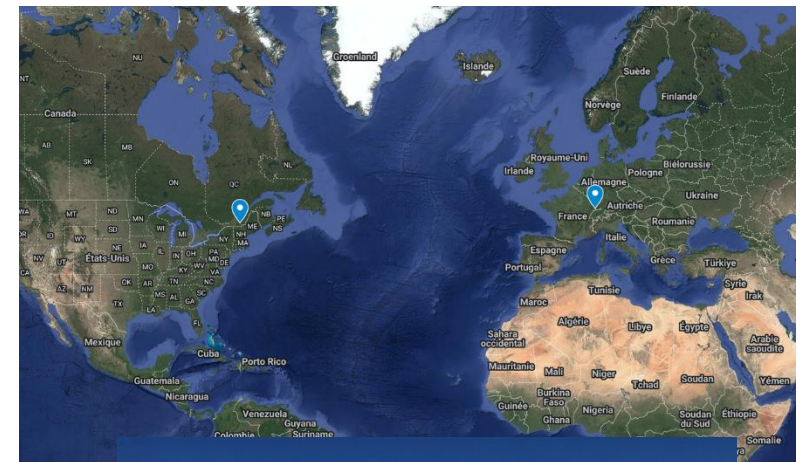
Laboratoire
 Nanotechnologies
 Nanosystèmes

T. Prieur, J-F. Bryche

Temperature generation via thermoplasmonic



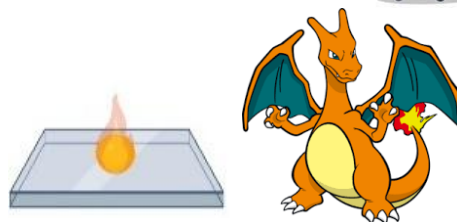
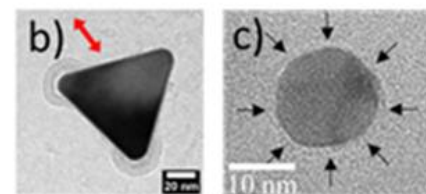
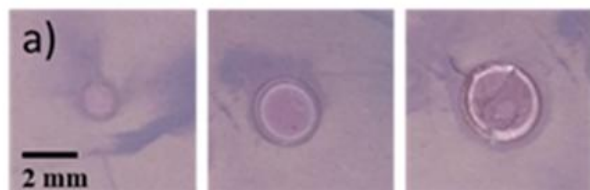
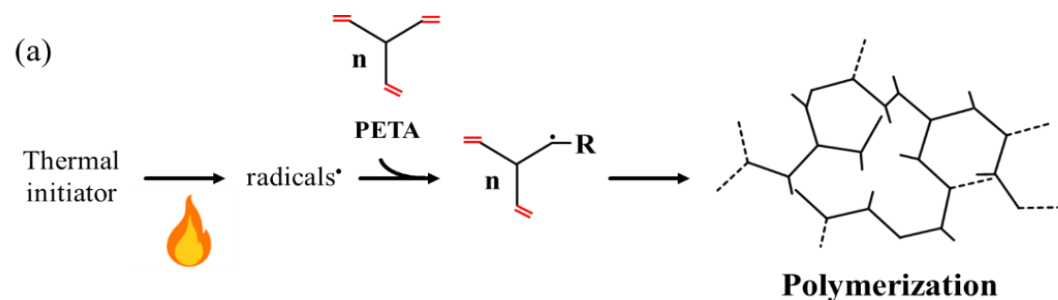
Molinaro et al. *Progress in Nanophotonics* 2022



Thermopolymerization to map the temperature generated via thermoplasmonic



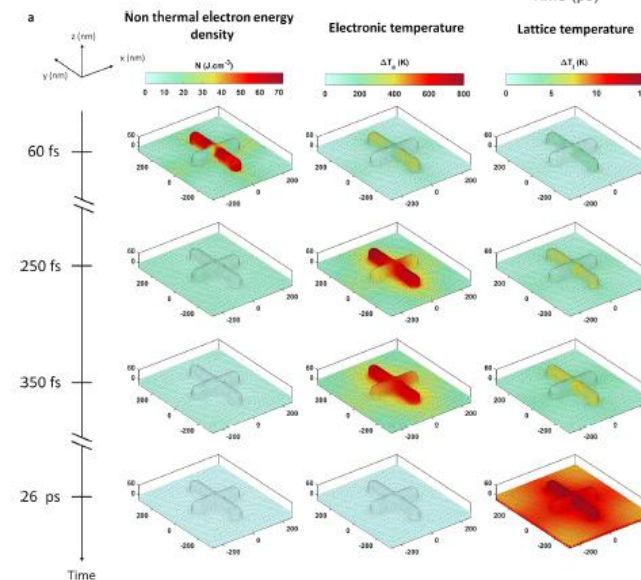
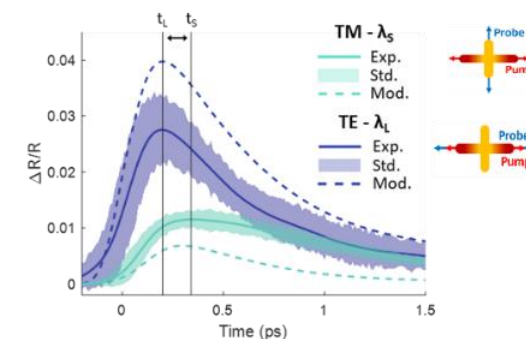
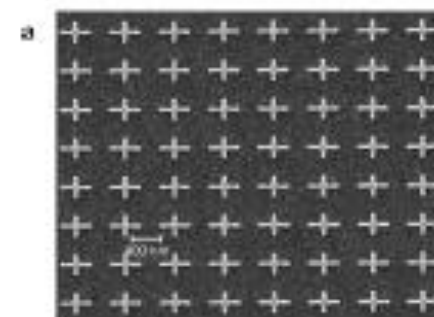
Electronic temperature generated at the nm-scale probed by pump-probe spectroscopy



Thermopolymer $\rightarrow T = [70-210]^{\circ}\text{C}$

Molinaro *et al.* ACS Appl. Polym. Mater 2024
Bastide *et al.* submitted 2026

Khitous *et al.* ChemRxiv 2024
Molinaro *et al.* Plasmonics 2025



Bryche, Vega *et al.* ACS Photonics 2023