



Showcasing research from Professor Rossi and Professor Saccomandi's laboratories, Politecnico di Milano, Italy.

On the role of polymeric hydrogels in the thermal response of gold nanorods under NIR laser irradiation

The development of novel responsive nanomaterials to overcome the drawbacks of common hydrogels, inducing responsive properties in three-dimensional polymeric devices, is pivotal. This work shows that composite Au nanorods loaded within agarose-carbomer based hydrogels can serve as a stable photothermal treatment agent with enhanced photothermal efficiency and good thermal stability after consecutive laser irradiations.

As featured in:



See Paola Saccomandi,
Filippo Rossi *et al.*,
Nanoscale Adv., 2023, 5, 6870.