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Influence of PEG coating on optical and thermal response of gold nanospheres and nanorods

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Highlights

- Impact of PEGylation on photothermal properties of nanoparticles depends on its morphology.
- For nanosphere, PEG coating thickness only has impact on absolute value of maximum efficiencies.
- For nanorod, PEG coating thickness only has impact on the LSPR wavelength.
- PEG coatings can be utilized to manipulate the photothermal behaviors of nanoparticle.

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