

عنوان مقاله:

Effect of geometrical order on the optical properties of metal nanoparticles

محل انتشار:

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خلاصه مقاله:

In this paper, we study the theoretical computational of the optical properties of collections of metal nanoparticles with electromagnetic interparticle interaction. The linear optical properties of MNPs are determined by localized surface Plasmon resonance. The LSPR for a MNP depends on substance, size, shape and surroundings. There are three classes of plasmons, depending on the geometry of the metal under study. Second-order generation is the nonlinear properties of MNPs. It has been used to study ultrafast electron dynamics in MNPs by second order autocorrelation, or local electric-field effects like surface enhanced Raman scattering, but has been rarely considered on its own merits. Interaction between multiple particles with defined geometrical arrangements are considered

کلمات کلیدی:

Nanoparticle, Surface Plasmon, Mie theory

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