A self-consistent-field calculation for open systems such as graphene monoxide

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Abstract

To introduce a method for calculating the graphene monoxide(GMO) optical properties. Dielectric function of GMO is calculated using a self-consistent-field Markovian master equation formalism(SCF-MMFE). In here, to employ this method to calculate the dielectric function, complex conductivity, also to obtain plasmon dispersion and propagation length for substrate.
GMO is considered by SiO_2 and hBN substrates. Calculating is shown dielectric function and plasmon dispersion what describe GMO optical properties.

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