

Poster: Beyond electron-photon exchange potential for effective photon-free QEDFT: suppression factor and electron-phonon correlation potential

Here we show the effective photon-free QEDFT approach works well in the strong coupling regime and requires the ‘suppression’ factor and electron-photon correlation potential in the weak coupling regime. We apply the approach to 1D, 2D, and 3D one-electron finite systems to focus on the electron-photon interaction.

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