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Effects of carrier doping on the electronic structure and optical spectroscopy of MoS₂ multilayers

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Propositions

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Effects of carrier doping on the electronic structure and optical spectroscopy of MoS₂ multilayers

By

Fatemah Mohammed A Barakat

- 1- 2D-MoS₂ materials have the potential to overcome the problem of the gapless graphene, which may offer a better solution for the next-generation electronic applications.
- 2- The important participation of doping effect into janus MoSSe monolayer is profitable for enriching the intrinsic properties of new 2D- layered materials for optoelectronic devices.
- 3- Janus 2D-MoSSe are exceptional materials with unique properties, however, their preparations are very complicated. This is where theory could play a role and provide a detailed understating about their properties.
- 4- We should find ways to advance the open-source software, which are accessible to the entire community.
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