

University of Groningen

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

Barakat, Fatimah

DOI:
[10.33612/diss.554305401](https://doi.org/10.33612/diss.554305401)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date:
2023

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Barakat, F. (2023). *Effects of carrier doping on the electronic structure and optical spectroscopy of MoS₂ multilayers*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen.
<https://doi.org/10.33612/diss.554305401>

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Propositions

Related to the thesis

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.
- 5- For environmental purposes, printed copies of books should be limited.
- 6- "*Anyone who has never made a mistake has never tried anything new*" (Albert Einstein).