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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Maximally localized exciton Wannier functions for solids** *PHYSICAL REVIEW B*
Haber, J. B., Qiu, D. Y., da Jornada, F. H., Neaton, J. B.
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- **Quasiparticle and Optical Properties of Carrier-Doped Monolayer MoTe₂ from First Principles.** *Nano letters*
Champagne, A., Haber, J. B., Pokawanvit, S., Qiu, D. Y., Biswas, S., Atwater, H. A., da Jornada, F. H., Neaton, J. B.
2023
- **Exciton Lifetime and Optical Line Width Profile via Exciton-Phonon Interactions: Theory and First-Principles Calculations for Monolayer MoS₂.** *Nano letters*
Chan, Y., Haber, J. B., Naik, M. H., Neaton, J. B., Qiu, D. Y., da Jornada, F. H., Louie, S. G.
2023
- **Rydberg Excitons and Trions in Monolayer MoTe₂.** *ACS nano*
Biswas, S., Champagne, A., Haber, J. B., Pokawanvit, S., Wong, J., Akbari, H., Krylyuk, S., Watanabe, K., Taniguchi, T., Davydov, A. V., Al Balushi, Z. Y., Qiu, D. Y., da Jornada, et al
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- **Bidirectional phonon emission in two-dimensional heterostructures triggered by ultrafast charge transfer.** *Nature nanotechnology*
Sood, A., Haber, J. B., Carlström, J., Peterson, E. A., Barre, E., Georganas, J. D., Reid, A. H., Shen, X., Zajac, M. E., Regan, E. C., Yang, J., Taniguchi, T., Watanabe, et al
2022