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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Rearrangement collision theory of phonon-driven exciton dissociation** *PHYSICAL REVIEW B*
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2024; 121 (30): e2403434121
- **Exciton-Phonon Coupling Induces a New Pathway for Ultrafast Intralayer-to-Interlayer Exciton Transition and Interlayer Charge Transfer in WS₂-MoS₂ Heterostructure: A First-Principles Study.** *Nano letters*
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- **Quasiparticle and Optical Properties of Carrier-Doped Monolayer MoTe₂ from First Principles.** *Nano letters*
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- **Exciton Lifetime and Optical Line Width Profile via Exciton-Phonon Interactions: Theory and First-Principles Calculations for Monolayer MoS₂.** *Nano letters*
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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., Georgaras, J. D., Reid, A. H., Shen, X., Zajac, M. E., Regan, E. C., Yang, J., Taniguchi, T., Watanabe, et al
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