

# Publication List

Hanwen Zhang

1. H. Zhang. “Constructing optimal Wannier functions via potential theory, Part II: isolated multiband for matrix models.” (To be submitted.)
2. H. Zhang. “A highly accurate procedure for computing globally optimal Wannier functions in one-dimensional crystalline insulators, Part II.” (To be submitted.)
3. H. Zhang. “Constructing optimal Wannier functions via potential theory: isolated single band for matrix models.” *Preprint* (2025).
4. A. Gopal, H. Zhang. “A highly accurate procedure for computing globally optimal Wannier functions in one-dimensional crystalline insulators.” *Advances in Computational Mathematics, Preprint* (2025)
5. H. Zhang, V. Rokhlin. “Finding roots of complex analytic functions via generalized colleague matrices.” *Advances in Computational Mathematics, Preprint* (2024).
6. W. Xue, H. Zhang, A. Gopal, V. Rokhlin, O. Miller. “Fullwave design of cm-scale cylindrical metasurfaces via fast direct solvers.” *Preprint* (2023).
7. H. Zhang, Z. Kuang, S. Puri, and O. Miller. “Conservation-law-based global bounds to quantum optimal control.” *Physical Review Letters, Preprint* (2021).
8. H. Zhang, O. Miller. “Quasinormal coupled mode theory.” *Preprint* (2020).
9. H. Zhang, C.-W. Hsu, and O. Miller. “Scattering concentration bounds: brightness theorems for waves.” *Optica, Preprint* (2019).
10. *Solutions manual to Quantum Mechanics* by Julian Schwinger with Berthold-Georg Englert. (To appear.)