

## Parivash Moradifar

Physical Science Research Scientist  
Materials Science and Engineering

### Bio

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#### ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Materials Science and Engineering

### Publications

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#### PUBLICATIONS

- **Toward "super-scintillation" with nanomaterials and nanophotonics** *NANOPHOTONICS*  
Delgado, H., Moradifar, P., Chinn, G., Levin, C. S., Dionne, J. A.  
2024
- **Solution-phase sample-averaged single-particle spectroscopy of quantum emitters with femtosecond resolution.** *Nature materials*  
Shi, J., Shen, Y., Pan, F., Sun, W., Mangu, A., Shi, C., McKeown-Green, A., Moradifar, P., Bawendi, M. G., Moerner, W. E., Dionne, J. A., Liu, F., Lindenberg, et al  
2024
- **Accelerating Quantum Materials Development with Advances in Transmission Electron Microscopy.** *Chemical reviews*  
Moradifar, P., Liu, Y., Shi, J., Siukola Thurston, M. L., Utzat, H., van Driel, T. B., Lindenberg, A. M., Dionne, J. A.  
2023
- **Rapid genetic screening with high quality factor metasurfaces.** *Nature communications*  
Hu, J., Safir, F., Chang, K., Dagli, S., Balch, H. B., Abendroth, J. M., Dixon, J., Moradifar, P., Dolia, V., Sahoo, M. K., Pinsky, B. A., Jeffrey, S. S., Lawrence, et al  
2023; 14 (1): 4486
- **Through thick and thin: how optical cavities control spin** *NANOPHOTONICS*  
Dixon, J., Pan, F., Moradifar, P., Bordoloi, P., Dagli, S., Dionne, J.  
2023
- **Double-Bilayer polar nanoregions and Mn antisites in (Ca, Sr)3Mn2O7.** *Nature communications*  
Miao, L., Hasin, K., Moradifar, P., Mukherjee, D., Wang, K., Cheong, S., Nowadnick, E. A., Alem, N.  
2022; 13 (1): 4927
- **Rapid genetic screening with high quality factor metasurfaces.** *ArXiv*  
Hu, J., Safir, F., Chang, K., Dagli, S., Balch, H. B., Abendroth, J. M., Dixon, J., Moradifar, P., Dolia, V., Sahoo, M. K., Pinsky, B. A., Jeffrey, S. S., Lawrence, et al  
2021