Stanford

Parivash Moradifar

Physical Science Research Scientist

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ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Materials Science and Engineering

Publications

PUBLICATIONS

- **Mechanosensitive Polymer Matrices of Biologically-Relevant Compliance Based on Upconverting Nanoparticles.** *Advanced materials (Deerfield Beach, Fla.)*
  Shi, C. H., Cano, M. C., Casar, J. R., Moradifar, P., Robinson, B. G., Kaltschmidt, J. A., Goodman, M. B., Dionne, J. A.
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- **High-throughput antibody screening with high-quality factor nanophotonics and bioprinting.** *ArXiv*
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- **Thermally induced structural evolution and nanoscale interfacial dynamics in Bi-Sb-Te layered nanostructures** *MATTER*
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- **Very-large-scale integrated high quality factor nanoantenna pixels.** *Nature nanotechnology*
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- **Toward "super-scintillation" with nanomaterials and nanophotonics.** *Nanophotonics*
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- **Toward "super-scintillation" with nanomaterials and nanophotonics** *NANOPHOTONICS*
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- **Solution-phase sample-averaged single-particle spectroscopy of quantum emitters with femtosecond resolution.** *Nature materials*
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  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.
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- **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 (Berlin, Germany)*
  Dixon, J., Pan, F., Moradifar, P., Bordoloi, P., Dagli, S., Dionne, J.
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- **Through thick and thin: how optical cavities control spin** *NANOPHOTONICS*
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- **Double-Bilayer polar nanoregions and Mn antisites in (Ca, Sr)3Mn2O7.** *Nature communications*
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