

Stanford



Varun Dolia

Ph.D. Student in Materials Science and Engineering, admitted Autumn 2021

Bio

BIO

Varun Dolia is a Benchmark Fellow and a Ph.D. candidate in Prof. Jen Dionne's lab. He is excited about developing nanophotonic platforms for health and environmental monitoring.

EDUCATION AND CERTIFICATIONS

- B.Tech with Honours, Indian Institute of Technology (IIT) Gandhinagar , Materials Science and Engineering (2021)

LINKS

- LinkedIn: <https://www.linkedin.com/in/varun3999/>

Publications

PUBLICATIONS

- **Very-large-scale integrated high quality factor nanoantenna pixels.** *Nature nanotechnology*
Dolia, V., Balch, H. B., Dagli, S., Abdollahramezani, S., Carr Delgado, H., Moradifar, P., Chang, K., Stiber, A., Safir, F., Lawrence, M., Hu, J., Dionne, J. A.
2024
- **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
- **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
- **Progress, Challenges, and Opportunities in the Synthesis, Characterization, and Application of Metal-Boride-Derived Two-Dimensional Nanostructures** *ACS MATERIALS LETTERS*
Gunda, H., Klebanoff, L. E., Sharma, P., Varma, A. K., Dolia, V., Jasuja, K., Stavila, V.
2021; 3 (5): 535-556
- **Dissimilar adsorption of higher-order aggregates compared with monomers and dimers of methylene blue on graphene oxide: An optical spectroscopic perspective** *Carbon Trends*
Dolia, V., James, A. L., Chakrabarty, S., Jasuja, K.
2021; 4