

Vinayaka Damle

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EDUCATION

BAR-ILAN UNIVERSITY

PHD IN NANOTECHNOLOGY

Expected 2022 | Ramat Gan, Israel
Institute of Nanotechnology and
Advanced Materials

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

M.Sc. IN PHYSICS

May 2014 | Surathkal, India

MANGALORE UNIVERSITY

B.Sc. IN PHYSICAL SCIENCES

May 2012 | Karnataka, India
St. Aloysius College, Mangalore

LINKS

LinkedIn:// [vinayaka-damle](#)
Research Gate:// [Vinayaka-Damle](#)
Google Scholar:// [VH-Damle](#)

SKILLS

NANOTECHNOLOGY

TEM • SEM • XRD • PVD • AFM
Photolithography • Nano-Photonics
Optics • SHG • Raman Spectroscopy
LFRS • CERS • SERS • SRS • CARS

PROGRAMMING

Python • Matlab

HOBBIES & INTERESTS

Photography • Literature • Finance
Hiking • Biking • Wild life

AWARDS &

ACCOMPLISHMENTS

2017 President's Scholarship for
Academic Excellence
2012 All India Rank 98 in IIT - Joint
Admission for Masters
2011 All India Rank 369 in IIT - Joint
Admission for Masters
2011 Best Scientific Designer- National
Level Science Fest IMPRINTS
2010 Best Scientific Designer National
Level Science Fest IMPRINTS

EXPERIENCE

VAGDEVI VILAS INSTITUTIONS | RESEARCH FACILITATOR

July 2016 – July 2017 | Bangalore, India

- Worked on synthesis and characterization of biodegradable polymers and composited for biomedical sensor application.

JEOL INDIA PVT LTD | FACILITY TECHNOLOGIST

January 2015 – June 2016 | NITK Surathkal, India

- Managed Electron Microscopy, Material Characterization & Testing facility.

VIDYANIKETAN PUBLIC SCHOOL | LECTURER

Jun 2014 – Jan 2015 | Bangalore, India

- Teaching Physics at high school and higher secondary level.

RESEARCH

DEVICE SPECTROSCOPY LAB | RESEARCHER

Jul 2017 – Present | Ramat Gan, Israel

Worked with **Prof. Yaakov R. Tischler** and **Dr. Hagit Aviv** to study light matter interaction at nano-metric spacial resolution. Engineered and developed spectral enhancement techniques aimed at improvising SNR of Raman scattering signal and detecting materials.

ELECTRON MICROSCOPY LAB | FACILITY TECHNOLOGIST

January 2015 – July 2016 | NITK Surathkal, India

Worked with **Prof. A.C Hegde** and **Dr. Liju Elias** to develop **Ni-P thin films for alkaline water splitting reaction**.

PUBLICATIONS

- [Damle et al., 2018] Damle, V. H., Gouda, L., Tirosh, S., and Tischler, Y. R. Structural characterization and room temperature low-frequency raman scattering from mapbi3 halide perovskite films rigidized by cesium incorporation. *ACS Applied Energy Materials*, 1:6707–6713, 2018. doi:10.1021/acsaem.8b01539.
- [Feinstein et al., 2019] Feinstein, A., Yasinov, R., Karasikov, N., Kapon, O., Damle, V. H., Uliel, T. B., and Tischler, Y. Spectroscopic gas identification using piezo tuned micro-cavity enhanced Raman scattering. In *Next-Generation Spectroscopic Technologies XII*, volume 10983. 2019. doi:10.1117/12.2526300.
- [Ben-Uliel et al., 2020] Ben-Uliel, T., Aviv, H., Zhou, J., Li, M., Avadyayev, S., Kapon, O., Damle, V., Yi, C., and Tischler, Y. Raman scattering obtained from laser excitation of mapbi3 single crystal. *Applied Materials Today*, 19:100571, 2020. ISSN 2352-9407. doi:https://doi.org/10.1016/j.apmt.2020.100571.
- [Damle et al., 2020] Damle, V. H., Sinwani, M., Aviv, H., and Tischler, Y. R. Microcavity enhanced raman spectroscopy of fullerene c60 bucky balls. *Sensors*, 20, 2020. ISSN 1424-8220. doi:10.3390/s20051470.
- [Jacobi et al., 2020] Jacobi, L., Damle, V., Rajeswaran, B., and Tischler, Y. Low-frequency raman spectroscopy as a diagnostic tool for covid-19 and other coronaviruses. *R. Soc. Open Sci*, 7:1–28, 2020.
- [Prabhakar et al., 2021] Prabhakar, R., Moehl, T., Friedrich, D., Kunst, M., Shukla, S., Adeleye, D., Damle, V., Siol, S., Cui, W., Gouda, L., Suh, Z., Tischler, Y., Krol, V. d., and Tilley, D. Unravelling defect passivation mechanisms in sulfur-treated sb2se3. *ChemRxiv, Preprint under peer review*, 2021.