



Shaswat Mohanty

Postdoctoral Scholar, Mechanical Engineering

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- Governor's Medal, Indian Institute of Technology, Madras (07-19-2019)
- Sri Rajesh Achanta Award, Indian Institute of Technology, Madras (04-22-2019)
- Institute Blues Merit, Indian Institute of Technology, Madras (04-22-2019)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , ME-PHD (2024)
- Master of Technology, Indian Institute of Technology, Madras , Mechanical Engineering - Product Design (2019)
- Bachelor of Technology, Indian Institute of Technology, Madras , Mechanical Engineering (2019)

STANFORD ADVISORS

- Wei Cai, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Wei Cai, Micro and Nano Mechanics Lab (3/20/2020)

Publications

PUBLICATIONS

- **Computational approaches to model X-ray photon correlation spectroscopy from molecular dynamics** *MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING*
Mohanty, S., Cooper, C. B., Wang, H., Liang, M., Cai, W.
2022; 30 (7)
- **An analytical model for shape morphing through combined bending and twisting in piezo composites** *MECHANICS OF MATERIALS*
Boddapati, J., Mohanty, S., Annabattula, R.
2020; 144
- **A phase-field model for crack growth in electro-mechanically coupled functionally graded piezo ceramics** *SMART MATERIALS AND STRUCTURES*
Mohanty, S., Kumbhar, P., Swaminathan, N., Annabattula, R.
2020; 29 (4)
- **Stress-electrochemistry interactions in a composite electrode for Li-ion batteries** *SOLID STATE IONICS*
Mohanty, S., Kumbhar, P., Annabattula, R., Swaminathan, N.
2019; 342

- **A finite strain based coupled chemo-mechanical study of the anode materials in lithium-ion batteries** *JOURNAL OF COUPLED SYSTEMS AND MULTISCALE DYNAMICS*
Mohanty, S., Kumbhar, P., Swaminathan, N., Annabattula, R.
2018; 6 (4): 266-272