Stanford



Shaunak Joshi

Ph.D. Student in Energy Science and Engineering, admitted Autumn 2022

Bio

BIO

I am Shaunak, from India. I am starting my PhD in Energy Science and Engineering with Prof. Daniel Tartakovsky and Prof. Hamdi Tchelepi. My research will primarily focus on pore-scale modeling of lithium-based batteries.

Prior to this, I graduated from the Indian Institute of Technology (IIT) Bombay with a Bachelor's and a Master's in Energy Science and Engineering. I love to play all sorts of sports, especially football, badminton, and cricket. You would usually see me running around the campus on odd days. Hit me up if you want to have a chat!

Publications

PUBLICATIONS

- **Optimized Particle Porosity to Alleviate Diffusion-Induced Stresses in High-Capacity Electrodes** *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*
  Joshi, S. A., Tchelepi, H. A., Tartakovsky, D. M.
  2025; 172 (12)
- **Design of Stable Hollow Particles for Silicon Anodes** *ACS ENERGY LETTERS*
  Joshi, S. A., Tchelepi, H. A., Tartakovsky, D. M.
  2024