



Suman Bhasker Ranganath

Postdoctoral Scholar, Photon Science, SLAC

Bio

STANFORD ADVISORS

- Thomas Jaramillo, Postdoctoral Faculty Sponsor
- Johannes Voss, Postdoctoral Research Mentor

LINKS

- Google Scholar: <https://scholar.google.com/citations?user=obprywAAAAJ&hl=en>
- LinkedIn: <https://www.linkedin.com/in/suman-bhasker/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Development of machine-learning models from high-throughput catalysis simulations.

Publications

PUBLICATIONS

- **Hydrolysis of Acetamide on Low-Index CeO₂ Surfaces: Ceria as a Deamidation and General De-esterification Catalyst** *ACS CATALYSIS*
Bhasker-Ranganath, S., Xu, Y.
2022; 12 (16): 10222-10234
- **Elucidating the Mechanism of Ambient-Temperature Aldol Condensation of Acetaldehyde on Ceria** *ACS CATALYSIS*
Bhasker-Ranganath, S., Rahman, M., Zhao, C., Calaza, F., Wu, Z., Xu, Y.
2021; 11 (14): 8621-8634
- **Theoretical analysis of the adsorption of phosphoric acid and model phosphate monoesters on CeO₂ (111)** *SURFACE SCIENCE*
Bhasker-Ranganath, S., Zhao, C., Xu, Y.
2021; 705
- **Adsorption structure of adenine on cerium oxide** *APPLIED SURFACE SCIENCE*
Bercha, S., Bhasker-Ranganath, S., Zheng, X., Beranova, K., Vorokhta, M., Acres, R. G., Skala, T., Matolin, V., Prince, K. C., Xu, Y., Tsud, N.
2020; 530
- **Computational insights into the molecular mechanisms for chromium passivation of stainless-steel surfaces** *MATERIALS TODAY CHEMISTRY*
Bhasker-Ranganath, S., Wick, C. D., Ramachandran, B. R.
2020; 17
- **Role of Metal-Lithium Oxide Interfaces in the Extra Lithium Capacity of Metal Oxide Lithium-Ion Battery Anode Materials** *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*
Ranganath, S., Hassan, A. S., Ramachandran, B., Wick, C. D.

