

List of Publications

- **Hydrogen evolution and oxygen evolution reactions of pristine and alkali metal doped SnSe₂ monolayer:** Inamdar, A.N., Som, N.N., Pratap, A. and Jha, P.K., 2020. Hydrogen evolution and oxygen evolution reactions of pristine and alkali metal doped SnSe₂ monolayer. *International Journal of Hydrogen Energy*, 45(37),pp.18657-18665. <https://doi.org/10.1016/j.ijhydene.2019.07.093>.
- **In Situ defect engineering of HfS₂, HfSe₂ and Janus HfSSe for highly efficient hydrogen evolution reaction: an ab initio study:** In Communication.
- **Enhanced HER activity of 1T- SnSe₂ by defect engineering: a DFT study:** In Communication.
- **Ab initio investigation of 2D niobium trisulfide: a potential candidate as electrocatalyst for water splitting:** In Communication.

List of Presentations

- Advances in Materials Science: Challenges and Opportunities (AMSCO-2021) organized by Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar Gujarat (2021).
- International Conference on Condensed Matter and Device Physics organized by PDEU, Gandhinagar Gujarat (2021).
- International Conference on Diverse Emerging Materials and their Applications organized by University of Lucknow, Lucknow Uttar Pradesh (2021).
- Indo-German joint Scientific Workshop on Membranes for Water and Energy organized by CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar Gujarat (2019).