

Publications

- "Co Implanted Ψ -graphene: A Non-Noble Metal Single-Atom Catalyst for Proficient CO Oxidation Reaction", **Hemang P. Tanna**, Bhumi A. Baraiya, Prafulla K. Jha, *Molecular Catalysis* 556, 113907.
- "Dressing of Cu atom over nickel cluster stimulating the poisoning-free CO oxidation: an ab initio study", Bhumi A. Baraiya, **Hemang P. Tanna**, Prafulla K. Jha, *The Journal of Physical Chemistry A* 125 (24), 5256-5272
- "A Theoretical Inquest of Atomically Injected Ni-atom over Graphene and Analogous Substrates for Hydrogen Evolution Reaction", **Hemang P. Tanna**, Prafulla K. Jha, *Electrocatalysis* 15 (5), 412-420
- "Water-Gas Shift Activity of Atomically Embedded Transition-Metals on AlN Support: A DFT Investigation ", **Hemang P. Tanna**, Prafulla K. Jha, *Inorganic Chemistry Communications* 169, 113075

Conferences and Workshops

- Participated and poster presentation in **International Conference on Condensed Matter and Device Physics-2021**.
- Participated and poster presentation in **65th DAE Solid State Physics Symposium, 2021**.
- Participated and poster presentation in **66th DAE Solid State Physics Symposium, 2022**.
- Participated and oral presentation in **International Conference on Condensed Matter and Device Physics-2023**.
- Participated in one-day symposium on **Application of Machine Learning Methods in Physics**.
- Participated in **2024 Catalysis Science & Technology Symposium** by Royal Society of Chemistry.