

List of Publications

1. **Satya Veer Singh**, M. Praveen Kumar, S. Anantharaj, Bratindranath Mukherjee, Subrata Kundu and Bhola N. Pal, “Direct evidence of an efficient plasmon-induced hot-electron transfer at *in situ* grown Ag/TiO₂ interface for highly enhanced solar H₂ generation”. (ACS Applied Eng. Materials, DOI: 10.1021/acsaem.9b02267)
2. **Satya Veer Singh**, Urwashi Gupta, Bratindranath Mukherjee, and Bhola N. Pal. “Role of electronically coupled *in situ* grown silver sulfides (Ag₂S) nanoparticles with TiO₂ for the efficient photoelectrochemical H₂ evolution” (Elsevier, Int. J. Hydrog. Energy, doi.org/10.1016/j.ijhydene.2020.08.098)
3. **Satya Veer Singh**, Anand Sharma, Sajal Biring, and Bhola N. Pal, “Solution processed Cu₂S/TiO₂ heterojunction for visible-NIR photodetector” (Elsevier, Thin solid film doi.org/10.1016/j.tsf.2020.138275)
4. **Satya Veer Singh**, Urwashi Gupta, Sajal Biring, Bratindranath Mukherjee, and Bhola N. Pal. “*In situ* grown electronically coupled Cu₂S-TiO₂ heterojunction thin film for the efficient H₂ evolution via water splitting”. (Elsevier, Solar Energy, minor revision submitted)
5. *Brajesh Kumar*[†], **Satya Veer Singh**[†], Sajal Biring, Bhola N. Pal “A scalable synthesis of sub-10 nm chalcopyrite (CuFeS₂) nanocrystal by microwave-assisted synthesis technique and its application in heavy metal free broad-band photodetector”. (ACS Omega, DOI: 10.1021/acsomega.0c03336 accepted, **†-these two author are equally contribute**)
6. Abhyuday Paliwal[†], **Satya Veer Singh**[†], Anand Sharma, Anumol Sugathan, Shun-Wei Liu, Sajal Biring, and Bhola N. Pal, “Microwave-Polyol Synthesis of Sub-10-nm PbS Nanocrystals for Metal Oxide/Nanocrystal Heterojunction, Photodetectors”. ACS Appl. Nano Mater. **†-these two author are equally contribute** October 30, 2018, DOI: 10.1021/acsanm.8b01194
7. Piyali Maity, **Satya Veer Singh**, Sajal Biring, and Bhola N. Pal, and Anup K. Ghosh “Selective near infrared (NIR) photodetector fabricated with colloidal CdS:Co quantum dots”. RSC, Journal of Material Chemistry C, April 2019, DOI: 10.1039/c9tc01871a

8. Piyali Maity, **Satya Veer Singh**, Sajal Biring, and Bhola N. Pal, and Anup K. Ghosh “Study on the role of Mn dopant in CdS quantum dot sensitized photodiode” (ACS Appl. Nano Mater, under review)