Publications pertaining to present work

- Enhancement of photocatalytic activity and regeneration of Fe doped TiO_2 ($Ti_{1-x}Fe_xO_2$) nanocrystalline particles synthesized via inexpensive TiO_2 precursor: Research on Chemical Intermediates, 45, **2019**, 1883-190. https://doi.org/10.1007/s11164-018-3708-2.
- Photodegradation of Direct Blue-199 in carpet industry wastewater using Iron doped TiO_2 nanoparticles and regenerated photocatalyst: International Journal of Chemical kinetics, 51, **2019**, 189-205. https://doi.org/10.1002/kin.21243.
- Solution-combustion synthesis of anion (iodine) doped TiO_2 nanoparticles for photocatalytic degradation of Direct Blue 199 dye and regeneration of used photocatalyst, Journal of Photochemistry & Photobiology-A: Chemistry, 396, **2020**, 112532-112545. https://doi.org/10.1016/j.jphotochem.2020.112532.

Papers presented in conference/seminars

- Sudhakar Saroj, Satya Vir Singh, Synthesis of anion doped TiO_2 nanoparticles using TiO_2 metallic powder by solution combustion method, International conference on Advance in Chemical and Petrochemical Engineering, **2020**, Aligarh Muslim University.
- Sudhakar Saroj, Deepak Bagdi, Satya Vir Singh, Synthesis of Iron doped TiO_2 nanoparticles using TiO_2 metallic powder by solution combustion method, Chemcon, **2017**, Haldiya Institute of Technology.

Communicated Papers

- Synthesis of iodine doped TiO_2 photocatalysts and degradation of Direct Blue 199 dye from carpet industry wastewater and regeneration of used photocatalyst, Catalysis Surveys from Asia, **2020**.