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LIST OF PUBLICATIONS

List of Publications

1. **Kuntail, J.**, Jain, Y. M., Shukla, M. & Sinha, I. Adsorption mechanism of phenol, p-chlorophenol, and p-nitrophenol on magnetite surface: A molecular dynamics study. *J. Mol. Liq.* 288, 111053 (2019).
2. **Kuntail, J.**, Pal, S. & Sinha, I. Interfacial phenomena during Fenton reaction on starch stabilized magnetite nanoparticles: Molecular dynamics and experimental investigations. *J. Mol. Liq.* 318, 114037 (2020).
3. **Kuntail, J.**, Verma, A., Kumar, S. & Sinha, I. Photo-Fenton interfacial phenomena on graphene oxide: Computational and experimental investigations. *J. Mol. Liq.* 342, 117461 (2021).
4. **Kuntail, J.**, Kumar, U., & Sinha, I. Insight into photo-Fenton reaction on a magnetite-GO nanocomposite: computational and experimental investigations. *Molecular Catalysis*, (2022).
5. Verma, D.[#] K., **Kuntail, J.**[#], Kumar, B., Rastogi, R. B. & Sinha, I. Amino Borate-Functionalized Reduced Graphene Oxide Further Functionalized with Copper Phthalocyanine Nanotubes for Reducing Friction and Wear. *ACS Appl. Nano Mater.* 3, (2020).
6. Kavita[#], **Kuntail, J.**[#], Verma, D. K., Kumar, B., Singh, A. K., Shukla, N., Sinha, I., & Rastogi, R. B. (2020). Theoretical and experimental studies of pyranopyrazoles and their tribological compatibility with a borate ester. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 606, 125497.
7. Kumar, B., **Kuntail, J.**, Verma, D. K., Rastogi, R. B. & Sinha, I. Mechanism of triboactivity of Schiff bases: Experimental and molecular dynamics simulations studies. *J. Mol. Liq.* 289, (2019).
8. Kumar, U., **Kuntail, J.**, Kumar, A., Prakash, R., Pai M. R., & Sinha, I. In-situ H₂O₂ production for tetracycline degradation on Ag/s-(Co₃O₄/NiFe₂O₄) visible light magnetically recyclable photocatalyst. *Applied Surface Science*, 589, 153013, (2022).

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10. Jain, Y. M., **Kuntail, J.**, Mukherjee, A. & Sinha, I. Computational Insight into the Mechanism of Arsenous Acid Adsorption on Magnetite (311) Surface. *Ind. Eng. Chem. Res.* 58, (2019).
11. Kumar, S., Pal, S., **Kuntail, J.** & Sinha, I. Curcumin functionalized CuO/Ag nanocomposite: Efficient visible light Z-scheme photocatalyst for methyl orange degradation. *Environ. Nanotechnology, Monit. Manag.* 12, (2019).
12. Kumar, S., Pal, S., **Kuntail, J.**, Kumar De, A., & Sinha, I. (2019). Construction of a Visible Light Z-scheme Photocatalyst: Curcumin Functionalized Cu₂O/Ag Nanocomposites. *ChemistrySelect*, 4(36), 10709-10718.
13. Verma, A., Pal, S., **Kuntail, J.**, Kamal, N., Mandal, R. K., & Sinha, I. (2021). Visible light enhanced p-nitrophenol reduction by glycerol over Ag/Cu core-shell bimetallic nanocatalysts. *Journal of Environmental Chemical Engineering*, 9(4), 105655.