

## **[P18] Molecular Modeling Study of Diazinon and its adsorption On Montmorillonite**

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Water pollution is a serious problem for the entire world. It threatens the health of humans. Persistent Organic Pollutants (POPs), are toxic synthetic organic chemicals that are used in industry and agriculture and which entrain the water pollution. The process of adsorption is considered to be one of the best water treatments around the world. The adsorption of organic pollutants (POPs) on clay is very effective in this field.

In this work, we studied an organophosphorus pesticide, diethoxy-[(2-isopropyl-6-methyl-4-pyrimidinyl)oxy]-thioxophosphorane (Diazinon); by molecular modeling and the ability of its adsorption on Montmorillonite (Mt).

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