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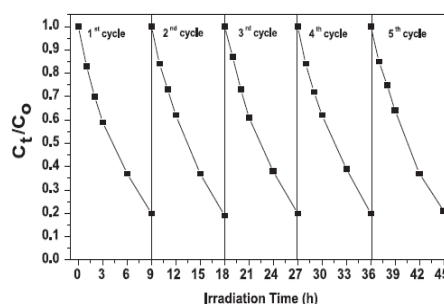
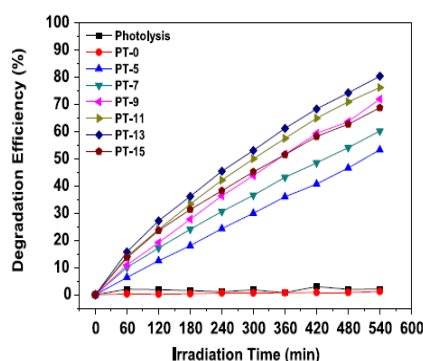
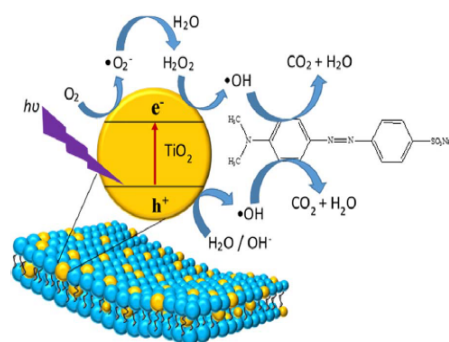
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RESEARCH HIGHLIGHTS

1. Immobilization of TiO₂ into polyethersulfone matrix as hybrid film photocatalyst for effective degradation of methyl orange dye.

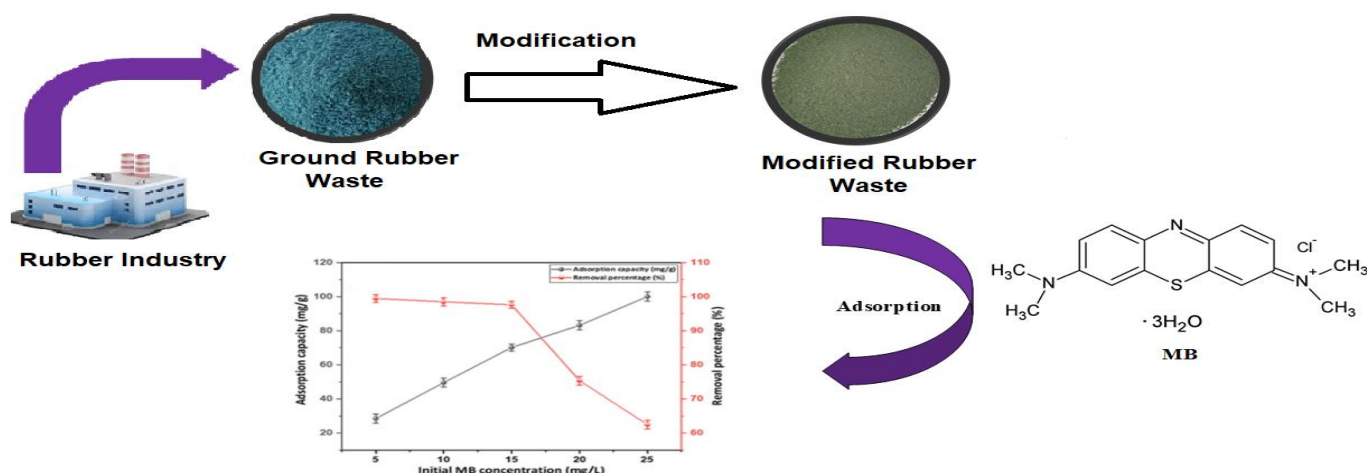
Photodegradation of methyl orange dye using TiO₂ photocatalyst immobilized on polyethersulfone film exhibit good photocatalytic performance under UV irradiation and retained high photocatalytic efficiency up to 5 cycles of photodegradation experiments.



Hir, Z.A.M., Moradihamedani, P., Abdullah, A.H., Mohamed, M.A. Materials Science in Semiconducting Processing, 57, 2017, 157-165.

2. Converting Rubber Waste into a Low-Cost Polymeric Adsorbent for Dye Removal from Aqueous Solution.

Rubber waste collected from glove manufacturing industries was modified using H₂SO₄ to introduce sulfonate group on the rubber waste. Both unmodified and modified rubber waste was used to remove methylene blue dye from aqueous solution. Modified rubber exhibit superior adsorption capacity compared to unmodified rubber waste.



Aliyu, M., Abdullah, A.H. and Mohamed Tahir, M.I., Indones. J. Chem., 2022, 22 (3), 653 – 665.