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**Answer from the Neighborhood: Sustainable Treatment of Textile Industry Effluent Using Native Biopurifiers from Industrial Discharge Vicinity**

Patel, Abhishek; Yadav, Devesh Kumar; Kumar, Ram  
Acs Es&t Water

Textile industry effluents (TIE) contain mixtures of dyes, fibers, heavy metals, carcinogens, and other recalcitrant pollutants, posing threats to aquatic life and human health. The present study evaluated an integrated bioremediation ap...

Cited publication:

**Enhanced Decolourisation and Biodegradation of Textile Wastewater Using Single and Mixed Cultures of a Newly Isolated Enterobacter Strain**

ผลงานวิจัยของกนกพร

จำนวน 1 เรื่อง

Web of Science แจ้งว่ามีผลงานวิจัยเรื่อง “Answer from the neighborhood: sustainable treatment of textile industry effluent using native biopurifiers from industrial discharge vicinity” ได้ citation งานของกนกพร สังข์รักษ์ จำนวน 1 บทความ ได้แก่

1. ชื่องานวิจัย “Enhanced decolorization and biodegradation of textile wastewater using single and mixed cultures of a newly isolated Enterobacter strain”

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## Answer from the Neighborhood: Sustainable Treatment of Textile Industry Effluent Using Native Biopurifiers from Industrial Discharge Vicinity

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Abstract

Textile industry effluents (TIE) contain mixtures of dyes, fibers, heavy metals, carcinogens, and other recalcitrant pollutants, posing threats to aquatic life and human health. The present study evaluated an integrated bioremediation approach combining the native macrophyte *Ludwigia adscendens* with the native microalgae consortium (*Chlorella vulgaris*, *Scenedesmus dimorphus*, *Scenedesmus quadricauda*, and *Dicystis minoris*) to treat real TIE in Marpur, Guja, India. The untreated TIE exceeded the permissible limits for biochemical oxygen demand (BOD), chemical oxygen demand (COD), lead, and cadmium, releasing harmful organic compounds into nearby water bodies. The integrated treatment system of *L. adscendens* and microalgae consortium showed degradation of dye compounds, significantly reducing color (86.44%), BOD (86.67%), COD (86.9%), nitrate (81.92%), phosphate (87.62%), and heavy metals (53.8% lead, 69.2% chromium, 75.9% cadmium, and 88.4% copper), outperforming macro-treatment systems *L. adscendens* or microalgae consortium alone. A toxicity test using the mesofauna *Ceriodaphnia ca.* revealed significantly higher survival in the treated TIE by the integrated

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