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## **Abstract**

The massive amount of industrial sludge produce produc



Keyword: Adsorption, Coffee sludge-based adsorbent, Physicochemical, Tartrazine dye

DOI: <a href="https://doi.org/10.24191/esteem.v20iMarch.580.g536">https://doi.org/10.24191/esteem.v20iMarch.580.g536</a>

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