



Adsorption of crude oil from aqueous solution: A review

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ABSTRACT

Crude oil provides a significant contribution to a country's economy, resulting in a diverse range of petroleum products that can be used to create significant income. However, the major disadvantage of using crude oil is that it depletes world water resources. This has led to a large amount of literature being cleaned out every year on ways of mitigating crude oil spills, particularly by adsorption. In this study, the different types of adsorbents that have been employed in the sorption of crude oil in recent times were reviewed in order to identify the best class of adsorbents needed for successful clean-up and draw conclusions from the findings. The adsorbents were grouped into seven different classes, namely: biosorbents, activated carbons, biochars, polymers and resins, clays and minerals, nanoparticles, and composites. Biosorbents were found to be the most commonly used (43.8 %) due to their abundance and ease of preparation, while activated carbon and clays and minerals (4.2 % each) were the least frequently used. The majority of adsorbents had excellent adsorption capacity and removal efficiency (> 85 %). The adsorption process for all the adsorbents mainly followed the Langmuir isotherm model and correlated well with the pseudo-second order kinetic model. Sorption occurs primarily through intra-particle diffusion, film diffusion, and ion exchange. Other adsorption processes, such as the effects of operating parameters, thermodynamic studies, and adsorbent regeneration and reuse, were also discussed and recommendations outlined for futuristic studies.

1. Introduction

Crude oil exploration processes contribute notably to a country's economy, resulting in the wide range of applications of petroleum products that may be employed to generate substantial revenue [1]. However, as a result of the rise in the use of petroleum products as well as the building of refineries near cities and populated areas, the contamination of surface and subsurface waters has increased [2]. For example, within a span of 36 years (1962–1997), a total of 826 oil spill cases were recorded in the United States of America's marine waters alone, which amounted to a loss of 1.02×10^6 kg of crude oil [3]. According to the data recorded by the International Federation of Cruise Ship Pollution, large-scale oil spills occurred 53 times between 2010 and 2017, with about 47,000 tons of crude oil discharged into the sea, whereby a

ton of spill leaves a 12 km² film of oil on the water's surface, causing significant harm to marine species and general health in the water near shore [4]. Overtime, the increase in the production and evolution of oil and gas technology is associated with risks that occur as a result of the uncontrolled introduction of crude oil and its fractions to marine and water bodies. This is often caused by human error and carelessness in the transportation and distribution of crude oil [5], pipeline vandalism [6], earthquakes and natural disasters [7,8], among others, which allow the oil to seep into the oceans. The environmental consequences of an oil spill are significant, and the impacts are felt on the ecosystem as it causes physical and ecological changes as well as chemical toxicity. The severity of these effects is determined by the extent of pollution, the physical and chemical properties of the spilled oil, the ambient environmental conditions, the sensitivity of marine life, and external factors

Abbreviations: AC, activated carbon; NP, nanoparticle; MWCNT, multi-wall carbon nanotube; PUF, polyurethane foam; PFO, pseudo-first order; PSO, pseudo-second order; RE, removal efficiency; q_{max} , maximum capacity

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Adsorption From Aqueous Solution

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