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Removal of Chromium (VI) from Water Using Orange peel as the Biosorbent: Experimental, Modeling, and Kinetic Studies on Adsorption Isotherms and Chemical Structure

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Abstract: The present work aims to assess the effectiveness and efficiency of orange peels as a low-cost biosorbent for removing Cr(VI) from an aqueous solution by the biosorbent process. The orange peels as adsorbent was characterized using different methods, such as FTIR, pH_{pzc}, equilibrium pH, TGA, XRD, SEM, and (BET). The tests were conducted in the batch mode, and the effects of different parameters, such as the pH, dosage of the biosorbent, influent Cr(VI), and time, on the biosorption of Cr(VI) were investigated. The adsorption kinetics proved that a contact time of 90 min resulted in the highest (approximately 97.8%) Cr(VI) removal, with an adsorption capacity of 4.96 mg/g. Moreover, the increase in the biosorbent dosage (from 1 to 10 g/L) resulted in the enhancement in the Cr(VI) removal effectiveness. Moreover, the pH of the solution also affected significantly the effectiveness of the removal. The tests were conducted under acidic pH solution conditions, and the prediction of the pH value at a zero charge (pH_{pzc}) was confirmed experimentally. Furthermore, the results from the batch-mode assays were successfully tested by an experimental design (full factorial design). The biosorption of Cr(VI) on orange peels occurred mostly according to the pseudo-second-order kinetic model and the uptake of Cr(VI) was satisfactorily described by the Langmuir model.

Keywords: biosorption; chromium; water treatment; batch mode; kinetic; orange peels



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1. Introduction

Chromium (Cr) is one of the most widely used chemicals in the industry thanks to its valuable effects in processing skin for tannery [1], textiles [2], wood and manufacturing dye [3] as well as in paint and paper [4] and in oil refining [5]. Cr(III) and Cr(VI) are two stable oxidation states of Cr that persist in the environment [6]. Cr (III) is essential for human nutrition, especially in glucose metabolism, while Cr(VI) is toxic for humans, animals, and bacteria. Cr(VI) compounds are known to be carcinogenic [7,8]. According to the World Health Organization (WHO) guidelines, the concentration thresholds of Cr(VI)

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backgrounds Particularly in the field of ion physics and chemistry where on going research involves physicists physical chemists and organic chemists who use a variety of experimental and theoretical techniques it is found that in the relaxed but stimulating atmosphere of a NATO ASI each professional group provides unique insights leading to a better definition and solution of problems relating to the properties of gas phase ions This book presents chapters based on the lectures presented at the Les Arcs ASI The participants took the initiative to organize a number of specialized workshops informal discussion groups which considered questions or problem areas of particular interest The accounts of these sessions which are also included in this book make stimulating reading and include considerable useful information This Advanced Study Institute is the fourth in a series of NATO sponsored institutes devoted to the chemistry and physics of ions in the gas phase The first in 1974 in Biarritz France focussed on Interactions between Ions and Molecules *Chemical Structure and Reactivity* B. R. Eggins,1972 *Toxicology Research Projects Directory* ,1979 **Current Controversies in Diagnostic and Interventional Radiology, An Issue of Radiologic Clinics of North America, E-Book** Douglas S. Katz,John J. Hines,2024-10-15 In this issue of Radiologic Clinics guest editors Drs Douglas S Katz and John J Hines bring their considerable expertise to the topic of Current Evidence for Selected Topics in Diagnostic and Interventional Radiology Current evidence in radiology asks the question what is the most appropriate imaging test on the basis of the best available evidence the physician's experience and the patient's expectations In this issue top experts review current controversies in radiology and the evidence used to support or contradict the clinical question asked Contains 14 relevant practice oriented topics including how do we assess controversies using evidence based radiology artificial intelligence in radiology stroke controversies in imaging intervention and management manufactured controversies have obscured the importance of breast cancer screening nuclear medicine controversies and more Provides in depth clinical reviews on current evidence for selected topics in diagnostic and interventional radiology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews **New Frontiers in Nanochemistry: Concepts, Theories, and Trends, 3-Volume Set** Mihai V. Putz,2022-05-29 New Frontiers in Nanochemistry Concepts Theories and Trends 3 Volume Set explains and explores the important fundamental and advanced modern concepts from various areas of nanochemistry and more broadly the nanosciences This innovative and one of a kind set consists of three volumes that focus on structural nanochemistry topological nanochemistry and sustainable nanochemistry respectively collectively forming an explicative handbook in nanochemistry The compilation provides a rich resource that is both thorough and accessible encompassing the core concepts of multiple areas of nanochemistry It also explores the content through a trans disciplinary lens integrating the basic and advanced modern concepts in nanochemistry with various examples applications issues tools algorithms and even historical notes on the important people from physical

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heterogeneous catalysis by studying the heat conductivity of gases in contact with a hot filament How would he be received
now How would he have been treated sixty years ago Yet more than sixty years ago Irving Langmuir through his study of

heat transfer from a tungsten filament uncovered most of the fundamental ideas which are used to day by the scientific community in pure and applied heterogeneous catalysis Through his work with what were for the first time clean metal surfaces Langmuir formulated during a period of a little over ten years until the early thirties the concepts of chemisorption monolayer adsorption sites adsorption isotherm sticking probability catalytic mechanisms by way of the interaction between chemisorbed species behavior of non uniform surfaces and repulsion between adsorbed dipoles It is fair to say that many of these ideas constituting the first revolution in surface chemistry have since been refined through thousands of investigations Countless papers have been published on the subject of the Langmuir adsorption isotherm the Langmuir catalytic kinetics and the Langmuir site exclusion adsorption kinetics The refinements have been significant The original concepts in their primitive or amended form are used everyday by catalytic chemists and chemical engineers all over the world in their treatment of experimental data design of reactors or invention of new processes Modern Physical Organic Chemistry Eric V. Anslyn, Dennis A. Dougherty, 2006 Making explicit the connections between physical organic chemistry and critical fields such as organometallic chemistry materials chemistry bioorganic chemistry and biochemistry this book escorts the reader into an area that has been thoroughly updated in recent times **Energy and Water Development Appropriations for 2010: Dept. of Energy fiscal year 2010 justifications** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2009 **Research Awards Index** ,1988

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