



# Simultaneous removal of inorganic and organic pollutants from multicomponent solutions by the use of zeolitic materials obtained from fly ash waste

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## Abstract

Fly ash is an energy waste considered as a global environmental hazard. Annually, it is generated in the amount of over 50 million tons. One of the ways of fly ash management is its conversion into porous structures, which then can be applied to capture other pollutants from the aquatic environment. This paper presents the adsorption capabilities of four products of hydrothermal reaction of fly ash (HC FA), i.e., zeolites (Na-X, Na-P1) and their composites with carbon (Na-X(C), Na-P1(C)). All five materials were characterized in terms of their structure and used as adsorbents of heavy metals (Pb(II), Zn(II) ions) and organic compounds (diclofenac – popular anti-inflammatory drug, poly(acrylic acid) – polymer commonly used in industry) from their mixed solutions. Adsorption–desorption, electrokinetic and stability measurements were performed to determine the mechanisms driving the formation of the mixed adsorption layers. It was found that Na-X zeolite adsorbed 322.1 mg/g of Pb(II), 332.5 mg/g of Zn(II) and 6.68 mg/g of DCF, whereas Na-P1 bounded 332.9 mg/g of Pb(II), 103.6 mg/g of Zn(II) and 21.19 mg/g of DCF. In the mixed systems of adsorbates, these values were different, but also satisfactory. For example, in the Zn(II) presence, the adsorption of DCF on Na-X increased from 6.68 to 12.86 mg/g and that on Na-X(C), from 8.49 to 21.95 mg/g. The adsorbed pollutants changed the structure of electrical double layer of zeolitic materials. Moreover, they affected the stability of the examined suspensions. The presented results are promising for the further application of obtained zeolitic materials for environmental remediation.

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# Pdf Online Simultaneous Multi Pollutants Removal Advanced Technology

**Nguyen Thi Kim Oanh**



## **Pdf Online Simultaneous Multi Pollutants Removal Advanced Technology:**

*Frontier Technology for Water Treatment and Pollutant Removal* Puangrat Kajitvichyanukul, Charongpun Musikavong, Tanapon Phenrat, 2019-11-15 Frontier technology in water treatment and pollutant removal is needed not only for maximizing water reuse but also for the rapid detection of contaminants in the recycled water The UN announced the years 2018 to 2028 as the International Decade for Action Water for Sustainable Development To realize this mission innovative and frontier technologies for water treatment and pollutant removal are important components This book aims to serve as a platform for updating the scientific community with recent progress in this area covering frontier technologies in analytical technique physicochemical treatment chemical treatment and biological treatment In Focus a book series that showcases the latest accomplishments in water research Each book focuses on a specialist area with papers from top experts in the field It aims to be a vehicle for in depth understanding and inspire further conversations in the sector **Integrated Air Quality Management** Nguyen Thi Kim Oanh, 2012-07-05 The steady growth in the number of vehicles on the road heavy reliance on coal use of dirty fuels for residential combustion and extensive open burning are some of the major factors leading to the progressive deterioration of air quality in developing countries in Asia And despite efforts to establish and implement air quality measurement systems the development of infrastructure environmental technology and management practices continues to lag behind the rate of emission increase Based on ten years of coordinated research Integrated Air Quality Management Asian Case Studies discusses technical and policy tools for the integrated air quality management of developing countries in Asia The book begins with an overview of major issues of air quality management practices in developing Asia and potential approaches to reduce pollution including opportunities for integration of air quality improvement and climate migration strategies It covers the methodology and results of fine particulate matter monitoring using traditional filter based and satellite monitoring techniques It examines the applications of a 3D dispersion modeling tool for urban and regional air quality management focusing on surface ozone fine particulate matter and acid deposition The final chapters discuss innovative control technologies for gaseous air pollutants and illustrate the integrated air quality management in developing Asia through case studies for target source categories including agricultural residue field burning vehicle emissions brick kilns and industrial VOC emission Illustrated with case studies this book presents an integrated air quality management methodology that employs technical and policy tools to achieve air quality goals It includes technical information and policy recommendations based on the outcomes of several multi year air quality research programs coordinated by the Asian Institute of Technology The text combines fundamental information and advanced knowledge useful to large audiences dealing with subjects of integrated air quality management **Sustainable Remediation Technologies for Emerging Pollutants in Aqueous Environment** Mohammad Hadi Dehghani, Rama Rao Karri, Inderjeet Tyagi, 2023-09-12 Sustainable Technologies for Remediation of Emerging Pollutants from Aqueous Environment compiles and

collates advanced technologies for the purification of water and wastewater The book covers the biological purification of wastewater the use of adsorbents for decontamination of water the role of membrane technology and its composites for removing emerging pollutants and applications of advanced oxidation processes AOP for removal of emerging pollutants This resource provides a single source solution to academicians and young researchers by assembling the latest information on the application of the conventional and non conventional in water and wastewater purification Presents global impacts of pollutants in the water environment including organic pollutants inorganic pollutants and biological contamination Compares removal mechanisms of emerging pollutants by different purification technologies Applies conventional and non conventional techniques to water and wastewater purification processes      *Modeling and Assessment of High-gravity Process for Multiple Air Pollutants Removal* □□□,2021      **Pollution Control Technologies** Swatantra P. Singh,Karthik Rathinam,Tarun Gupta,Avinash Kumar Agarwal,2021-06-18 p This monograph is based on pollution control technologies available to deal with water and air pollution It includes removal of variety of pollutants including arsenic chromium uranium pesticides and arsenic from water using adsorption technique In addition this book deals with the sampling and removal of microplastics using various techniques The contents also focus on the role of membrane technology in water and wastewater treatment and particulate matter air pollution and its control techniques This volume will be a useful guide for researchers academics and scientists

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