

## Enhancement on Radon Adsorption Property of GAC using Nano-size Carbon Colloids

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### Abstract

Granular activated carbon (GAC) is well-known as an efficient adsorbent against a number of gaseous pollutants. Radon is one of those pollutants, and radon has been classified as the second leading cause of lung cancer in USA. This study was to enhance the radon removal efficiency with applying nano-technology. Nano-size carbon colloids (NCC) was produced through electrolysis which is simple and cheap. NCC was used for impregnation with activated carbon. Surface areas of both NCC-treated and non-treated activated carbon did not show a significant difference. However, the results of radon removal efficiency show that impregnated carbon with NCC could capture about 1.3 ~ 2 times of more radon gas compared to non-treated activated carbon. It is assumed that nano-size carbon colloids might have filled up meso-pores, and meso-pores turned into micro-pores eventually. Because meso-pores initially accounted for large portion of whole pores, more radon could be captured to NCC-impregnated activated carbon.

**Keywords:** Radon, Nano-Size Carbon Colloid, Activated Carbon

### 1. Introduction

#### 1.1 Radon

Radon is an inert gas, and a naturally occurring radioactive material. Radon is well-known as one of the hazardous indoor air pollutants. Because, radon is colorless, odorless and tasteless, it is not easy to detect or remove indoor radon. Radon can penetrate into lung through respiration, and emits alpha particles during the decays. Alpha particles can cause lung cancer via DNA damage. Due to this fact, radon has been classified as the second leading cause of lung cancer.

#### 1.2 Granular Activated Carbon(GAC)

Granular activated carbon has a relatively larger particle size compared to powdered activated carbon and consequently presents a smaller external surface. These carbons are therefore preferred for all adsorption of gases and vapors as their diffusion are faster. Granular carbons are used for water treatment, deodorization and separation of components of flow system. Generally, GAC is used for pollutant capture in the indoor air. Also, radon is one of the indoor air pollutants which can be captured by GAC. GAC adsorbs pollutants through physical adsorption method. Pores on GAC can be classified into three types; micro-pore, meso-pore and macro-pore. This depends on the size of the pores (micro-pore : 10~100 Å, meso-pore : 100~1,000 Å, macro-pore : 1000~100,000 Å). Pore size is very important because the adsorption efficiency can vary according to the size of target pollutant. In this study, target pollutant is Radon (<sup>222</sup>Rn), and the diameter of radon is approximately 0.44 nm (4.4 Å).

#### 1.3 Nano Technology

Nano Technology is the study of the control of matter on an atomic and molecular scale. Generally, nanotechnology deals with structures of the size 100 nanometers or smaller and involves developing materials or devices within that size. Nanotechnology is very diverse, ranging from novel extension of conventional device physics to completely new approaches based on molecular self-assembly, to developing new materials with dimensions on the nanoscale, and even to speculation on whether we can directly control matter on the atomic scale. Nano Technology is a significant field at the crossroads of engineering and material science. This study focused on producing nano size carbon colloids using an electrochemical method that is a relatively cheap method, and applying this to the removal efficiency assessment of radon through a absorption test.

# Assessment Of Gas Adsorption For Radon Removal

**Joseph A. Drago**



## **Assessment Of Gac Adsorption For Radon Removal:**

**Assessment of GAC Adsorption for Radon Removal** David A. Cornwell, Nancy E. Kinner, Nancy E. McTigue, 1999

*Critical Assessment of Radon Removal Systems for Drinking Water Supplies* Joseph A. Drago, 1998      Risk Assessment of Radon in Drinking Water National Research Council, Commission on Life Sciences, Board on Radiation Effects Research, Committee on Risk Assessment of Exposure to Radon in Drinking Water, 1999-06-24 The Safe Drinking Water Act directs the U S Environmental Protection Agency EPA to regulate the quality of drinking water including its concentration of radon an acknowledged carcinogen This book presents a valuable synthesis of information about the total inhalation and ingestion risks posed by radon in public drinking water including comprehensive reviews of data on the transfer of radon from water to indoor air and on outdoor levels of radon in the United States It also presents a new analysis of a biokinetic model developed to determine the risks posed by ingestion of radon and reviews inhalation risks and the carcinogenesis process The volume includes scenarios for quantifying the reduction in health risk that might be achieved by a program to reduce public exposure to radon Risk Assessment of Radon in Drinking Water reflecting research and analysis mandated by 1996 amendments to the Safe Drinking Water Act provides comment on a variety of methods to reduce radon entry into homes and to reduce the concentrations of radon in indoor air and in water The models analysis and reviews of literature contained in this book are intended to provide information that EPA will need to set a new maximum contaminant level as it is required to do in 2000      **Federal Register** ,1999-11      **Andrew W. Breidenbach Environmental Research Center Small Systems Resource Directory** ,1992      **Comparative Health Effects Assessment of Drinking Water Treatment Technologies** ,1988      **Analysis of Costs for Radon Removal from Drinking Water Systems** Kennedy/Jenks Consultants,1992      *Selected Water Resources Abstracts* ,1991      **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency,1994      **Energy Abstracts for Policy Analysis** ,1988      *Selected Water Resources Abstracts* ,1991      *EPA Publications Bibliography* United States. Environmental Protection Agency,1987      **Environmental Pollution & Control** ,1983      **Pollution Abstracts** ,1997      **The Role of Microalgae in Wastewater Treatment** Lala Behari Sukla, Enketeswara Subudhi, Debabrata Pradhan, 2018-11-03 This book deals with the most emerging aspects of algal research with special reference to microalgae viz diversity mutations genomics and metagenomics study eco physiology culturing microalgae for food and feed biofuel production harvesting of microalgae separation and purification of biochemicals techno economical assessment microalgal biotechnology algal bacterial systems for wastewater treatment It describes the complex issues associated with the above mentioned areas with the intervention of cutting edge biotechnological tools and techniques like next generation sequencing methods metabolomics and bioreactor design and development The chapters provide past developments current information and future prospects of algal technology as an alternate avenue for waste water treatment and its potential for production of biofuel and nutraceuticals

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