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Adsorption now plays a key role in environmental protection engineering and is used to remove pollutants from industrial effluents. The removal of acid dye by adsorption onto activated carbon and the removal of copper ions by sorption onto bone char have been studied using an agitated batch adsorber.

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Adsorption rate on molecular sieving carbon by ...

Predictive models are useful tools for aqueous adsorption research; existing models such as multilinear regression (MLR), however, can only predict adsorption under specific equilibrium concentrations or for certain adsorption isotherm models.

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The inter-crystalline spacing is found to enhance adsorption at the crystallite surfaces. Larger inter-crystalline spacing up to twice the kinetic diameter of CO₂ results in higher adsorption and larger crystallite sizes suppress adsorption. Magnitudes of the inter-crystalline space relative to the kinetic diameter of the adsorbed fluid and the surface to volume ratio of the adsorbent crystallites are found to be important factors determining the adsorption amounts.

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While adsorption based climate control systems offer the advantage of direct usage of primary thermal energy sources for operation, they typically have low COP values, and are often bulky and heavy. A compact and lightweight ATB is necessary to replace existing climate control systems in EVs that use electric battery for operation.

Design and Optimization of High Performance Adsorption ...

Analysis of surface properties of halloysite-carbon nanocomposites and non-modified halloysite was carried out with surface sensitive X-ray photoelectron spectroscopy (XPS) and inverse gas chromatography (IGC). The XPS spectra were measured in a wide range of the electron binding energy (survey spectra) and in the region of C 1s photoelectron peak (narrow scans).

This book is the proceedings of the second Pacific Basin Conference on Adsorption Science and

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Technology that was held May 14-18, 2000 in Brisbane, Australia.

This book presents the latest research on adsorption science and technology. It serves as an excellent reference for research in areas such as fundamentals of adsorption and ion exchange (equilibria and kinetics), new materials, adsorption characterization, novel processes, energy and environmental processes. Contents: Adsorption Equilibria of Sub-Critical and Super-Critical Fluids in Carbonaceous Materials (D D Do & H D Do) Freezing/Melting in Porous Carbons (F R Hung et al.) Measurement of Diffusion in Microporous Solids (D M Ruthven) Ordered Mesoporous Carbons with New Opportunities for Adsorption Studies (R Ryoo & S H Joo) Quantum Micropore Filling and Its Application Possibility (T Tanaka et al.) Adsorption in Microporous Materials: Analytical Equations for TYPE I Isotherms at High Pressure (A L Myers) New Sorbents for Desulfurization of Transportation Fuels (R T Yang et al.) Optimization of Continuous Chromatography Separations (Z Y Zhang et al.) Adsorption Technology for Gas Separation (S Sircar) Carbon Composite Membranes (M Suzuki et al.) On the Dominant Role of Adsorption Effects in Heterogeneous Catalysis (J F Denayer et al.) Pressure-Dependent Models for Adsorption Kinetics on a CMS (Y-S Bae et al.) and other papers Readership: Engineers and researchers in adsorption and separation science; research students in chemical engineering and physical chemistry. Keywords: Adsorption; Adsorbent; Equilibria; Kinetics; Characterization; Adsorption Process

This book presents the latest research on adsorption science and technology. It serves as an excellent reference for research in areas such as fundamentals of adsorption and ion exchange (equilibria and

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kinetics), new materials, adsorption characterization, novel processes, energy and environmental processes.

Proceedings of the NATO Advanced Study Institute, Vimeiro, Portugal, July 17-29, 1988

This book contains papers presented in the 3rd International Conference on Separation Technology 2020 (ICoST 2020) held from 15 to 16th August 2020 at Johor, Malaysia. This proceeding contains papers presented by academics and industrial practitioners showcasing the latest advancements and findings in field of separation technology. The papers are categorized under the following tracks and topics of research: Environment Engineering Biotechnology Absorption and Adsorption Technology Wastewater Treatment ICoST 2020 covers multidisciplinary perspectives on separation research and aims to promote scientific information interchange between academics, researchers, graduates and industry professionals worldwide. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

1991 International Conference on Coal Science Proceedings

This book is intended to present for the first time experimental methods to measure equilibria states of pure and mixed gases being adsorbed on the surface of solid materials. It has been written for engineers

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and scientists from industry and academia who are interested in adsorption-based gas separation processes and/or in using gas adsorption for characterization of the porosity of solid materials. Traditional and new measurement methods for gas adsorption equilibria are presented in Chaps. 2-6 and elucidated by quite a number of experimental data sets, most of them having been measured in the authors' laboratories. Special emphasis is given to uncertainties of data and pros and cons of all measurement methods are offered. Also the basic concepts underlying interpretation of measurements and calculations of adsorbed masses from measurement signals, are discussed in Chap. 1. The authors state that in publishing this book they "hope to contribute to... the development of effective and reliable methods to measure pure gas and gas mixture adsorption equilibria; preventing young (and old) experimenters from doing all the mistakes we have done during our laboratory work*); making experimental gas adsorption data measured today in many laboratories more easily comparable to each other, as methods and procedures should become more and more similar and possibly also will be standardized (IUPAC) in the years to come. "

Fundamentals of Adsorption contains 2 plenary lectures and 96 selected papers from the IVth International Conference, Kyoto, May, 1992. The topics cover a wide range of studies from fundamentals to applications: characterization of porous adsorbents, molecular simulation, adsorption isotherms, diffusion in adsorbents, breakthrough detection, chromatography, pressure swing operation, etc. Model studies on adsorption, surface characterization, microporosimetry, molecular simulations of equilibrium and diffusion, computer simulation of adsorption beds, and many theoretical studies are also included. Special attention is given to: bulk gas separation and purification, solvent recovery, bioproduct separation, environmental pollution control, methane storage, adsorption cooling and resources

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recovery.

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