

## Application Notes Quantachrome

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*Porous molybdenum carbide nano ... - Nature Communications*

The morphology was characterized by a JEM 2010 (JEOL Ltd., Tokyo, Japan) TEM operated at 120.0 kV. N 2 isotherms of OG, NG, and G were obtained at 196°C (77 K) with an Autosorb-IQ 2-MPC system (Quantachrome, USA). The specific surface area was determined by the Brunauer-Emmett-Teller method.

*Ultralow-temperature-driven water-based sorption ...*

The conventional synthesis of nanomaterials employing physical and chemical methods usually requires high cost and toxic chemicals. Thus, a facile, ecofriendly, cost-effective, novel, and sustainable route for the synthesis of a silver-loaded biochar nanocomposite (Ag@biochar) using *Chenopodium ambrosioides* leaf extract and biomass is reported for the first time in this study to advocate many ...

*Coatings | Free Full-Text | The Tribotechnical Properties ...*

The production cost of water sorbents is also a key concern for the application of the ADC systems. ... (Quantachrome Quadrasorb SI-MP). ... Author notes. These authors contributed equally ...

*Lithiophilicity chemistry of heteroatom-doped carbon to ...*

The liquid nitrogen freeze-thaw (LN2-FT) method has been widely used to improve the coal permeability in

*the coalbed methane (CBM) production. However, the influence of moisture content on the permeability of coal treated by LN2-FT remains unclear, limiting the broad application of this technique. A novel seepage system was proposed to analyze the permeability evolution of anthracite coal ...*

*Polymers | Free Full-Text | Xanthate-Modified Magnetic ...*

*The high cost of metal powder materials and the energy consumption of the methods involved in their production have led to an increase in the cost of technologies for the restoration and hardening of parts. One method of solving this problem is the recycling of powders. A promising method for processing the waste from machine-building industries, including those utilizing non-ferrous metals ...*

*Experimental Study of the Influence of Moisture Content on ...*

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*Anton Paar QuantaTec - Quantachrome*

*Graphene has a theoretical SSA of 2630 m<sup>2</sup> /g and a very high intrinsic electrical conductivity in plane as well as high mechanical strength and chemical stability (). Graphene-based material derived from graphite oxide (GO) is now being manufactured in ton quantities at low cost (). We have previously demonstrated supercapacitors that were based on reduced graphene oxide with capacitance values ...*

*Carbon-Based Supercapacitors Produced by Activation of ...*

*Chitosan has several shortcomings that limit its practical application for the adsorption of heavy metals: mechanical instability, a challenging separation and recovery process, and low equilibrium capacity. This study describes the synthesis of a magnetic xanthate-modified polyvinyl alcohol and chitosan composite (XMPC) for the efficient removal and recovery of heavy metal ions from aqueous ...*

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*Quantachrome Instruments: manufacturer of surface area analyzers, pore size analyzers, density analyzers, water sorption analyzers, chemisorption analyzers and more.*

*Novel Biogenic Synthesis of a Ag@Biochar Nanocomposite as ...*

*Wang, H. et al. Electrochemical tuning of vertically aligned MoS<sub>2</sub> nanofilms and its application in improving hydrogen evolution reaction. Proc. Natl Acad. Sci. USA 110, 19701-19706 (2013) .*

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