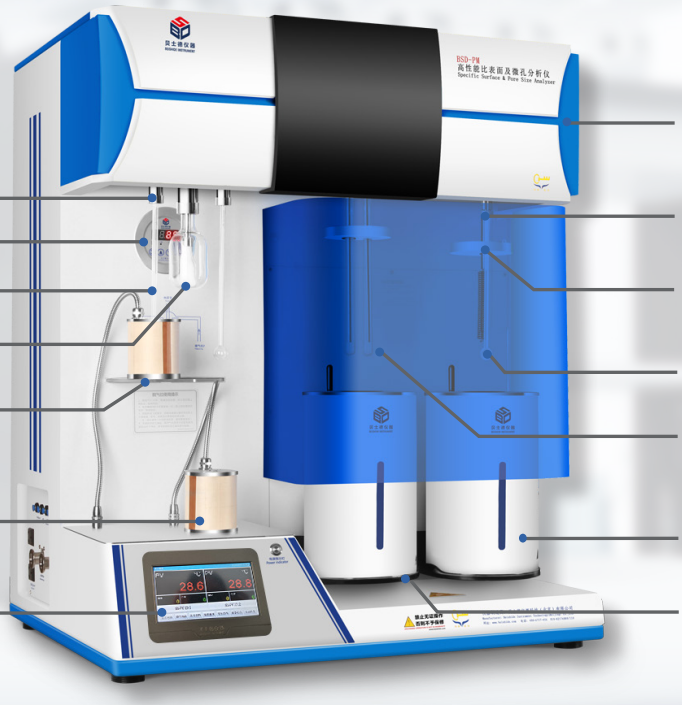
BSD-PMC
Corrosive Gas Adsorption Analyzer

BSD INSTRUMENT
FOCUS ON SORPTION

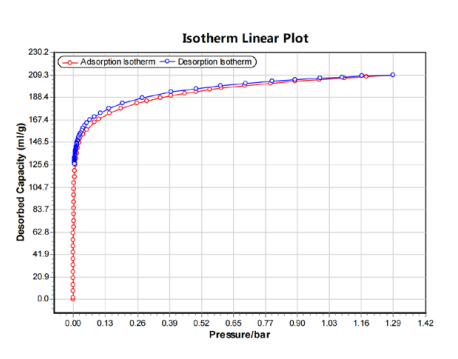


Adsorption Isotherm by Volumetric Method **Corrosive Gas Adsorption Analysis**

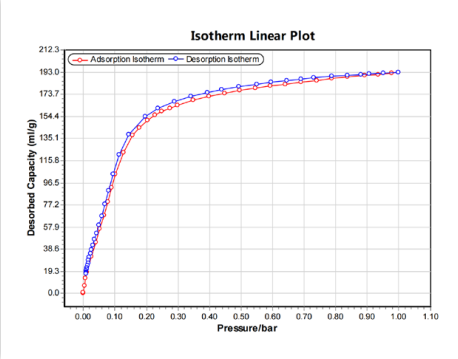
Main Function

- NH_3, SO_2 Gas Adsorption Analysis;
- H_2, CH_4, C_2H_6, C_2H_4, C_3H_6 and etc Adsorption Analysis;
- N_2, O_2, Ar, CO_2 and etc Gas Adsorption Analysis;
- BET Specific Surface Area and Pore Structure Analysis;;
- Adsorption Heat Capacity Analysis;
- IAST Competitive Adsorption Simulation;

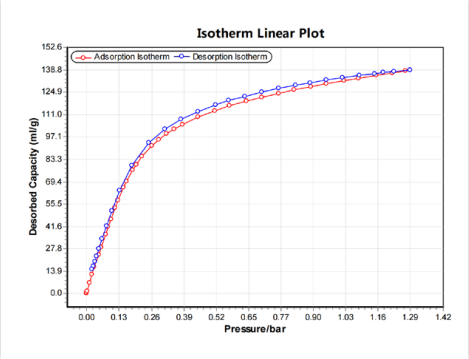
Test Report



Adsorption and Desorption Isotherm of NH_3



Adsorption and Desorption Isotherm of SO_2



Adsorption and Desorption Isotherm of C_3H_8

BSD-PMC
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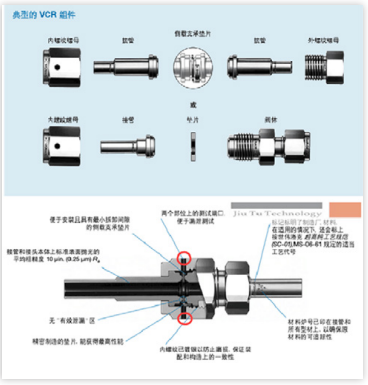
Feature

◆ Test temperature range: from -196 ℃ to 400 ℃ ;
◆ Vacuum System: mechanical pump & molecular pump to reach 10-6Pa;
◆ Pressure transducer: double transducer 1torr - 1000 torr with 0.1% ;
◆ Independent degassing system and analysis system, so degas and adsorption run independently;
◆ Pre-treatment system with 2 degassing stations, which support auto adsoption and degassing at same time;
◆ Analysis station: 1/2 optional;
◆ Corrosion-resistant pipeline and structure design to protect vacuum pump;
◆ Four independent gas inlets;
◆ High air-tightness: Multi manifold modules developed by BSD Instrument, make sure vacuum and stability;
◆ Cold trap: protect vacuum system;
◆ Anti-Contamination System: Exclusively designed filter dust system to prevent flying sample away from polluting instrument, which shorten vacuum time and improve efficiency;
◆ Intelligent software:Auto running and programme controlled degassing and analysis;

◆ Support IAST theoretical model:multi-component competitive adsorption analysis can be obtained by simulating and calculating according to the isotherm of pure component, which can be used for prediction of multisolute sorption;
The adsorption heat is obtained by fitting the adsorption isotherm to the adsorption of the same adsorbent at different temperatures.



VCR Metal Hard Connection Structure

Chemical Engineering Journal 431 (2022) 134057

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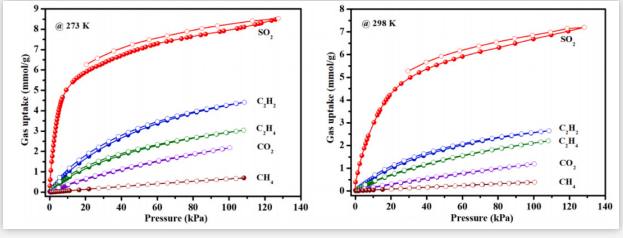
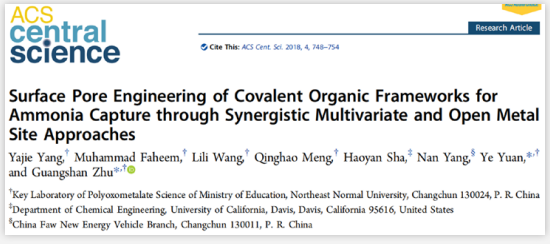
An ultra-stable Zr(IV)-MOF for highly efficient capture of SO_2 from SO_2/CO_2 and SO_2/CH_4 mixtures

Ya-Bin Ren, Hao-Yu Xu, Shu-Qi Gang, Yong-Jun Gao, Xu Jing, Jian-Long Du

Title of Paper Published



Title of Paper Published



ACS central science

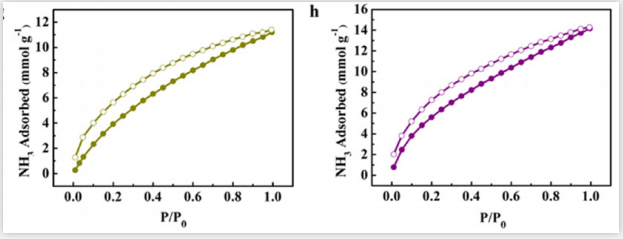
Research Article

Cite This: ACS Cent. Sci. 2018, 4, 748−754

Surface Pore Engineering of Covalent Organic Frameworks for Ammonia Capture through Synergistic Multivariate and Open Metal Site Approaches

Yajie Yang, Muhammad Faheem, Lili Wang, Qinghao Meng, Haoyan Sha, Nan Yang, Ye Yuan, and Guangshan Zhu

Title of Paper Published



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