



**NEW HORIZONS** IN PARTICLE ANALYSIS

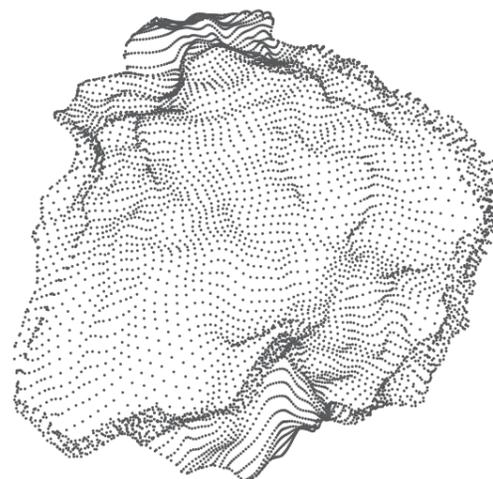
# Materials research

## Discover the properties that matter

When working with porous materials, uncovering their unique properties can be essential. The analyzers that comprise the advanced sorption suite from Anton Paar enable you to focus on discovering the properties that matter.

### MATERIALS:

- ADSORBENTS
- MOFS/COFS
- ZEOLITES, ALUMINAS, SILICAS
- CARBONS
- HETEROGENEOUS CATALYSTS
- PHARMACEUTICALS



### APPLICATIONS:

- GAS SEPARATIONS
- GAS STORAGE
- CARBON SEQUESTRATION
- CATALYSIS
- BATTERY RESEARCH
- SELECTIVE ADSORPTION
- HYDRIDE FORMATION
- PRESSURE-SWING ADSORPTION

# Advanced sorption suite

## Analyze, discover, apply

Anton Paar gas sorption devices help leading academic, commercial, and test labs analyze and improve the physical and performance characteristics of important materials for use in a wide range of industries.

	PROPERTIES												
	HIGH PRESSURE SORPTION	HYDROPHILICITY/HYDROPHOBICITY	SURFACE AREA	PORE SIZE	PORE VOLUME	METAL DISPERSION	METAL CRYSTALLITE SIZE	REACTIVE AREA	VAPOR SORPTION CAPACITY	SURFACE ACIDITY	REDUCTION TEMPERATURE	OXIDATION TEMPERATURE	DESORPTION TEMPERATURE
autosorb iQ													
autosorb iQ-C													
iSorb HP													
ChemBET Pulsar													
VSTAR													



### autosorb iQ | iQ-C

#### Micropore physisorption/chemisorption analyzer

High-sensitivity gas sorption analyzers with proprietary small cold-zone technology for detailed micropore size distributions of up to three samples simultaneously. Available in different configurations, also as a chemisorption unit with full physisorption capability for all-in-one catalyst characterization.



### iSorb HP series

#### High-pressure, high-precision volumetric gas sorption analyzer

Constructed for safe operation up to 200 bar with high-precision transducers and precise manifold temperature control. Includes a built-in library of advanced equations of state. Available as a one- or two-station instrument.



### ChemBET Pulsar

#### Automated flow chemisorption and reactivity analyzer

Affordability and automation in a compact benchtop catalyst characterization unit. Programmable analysis sequences combined with an automatic loop injector, gas switching, and furnace temperature ramping for easy pulse titration and temperature-programmed analyses.



### VSTAR series

#### High-resolution vapor sorption analyzer

Specially designed for water, vapor, and gas sorption analyses over a broad range of conditions and species (organics, alcohols, amines, etc.). Available as a two- or four-station instrument, both capable of analysis temperatures from -20 °C to 100 °C.

