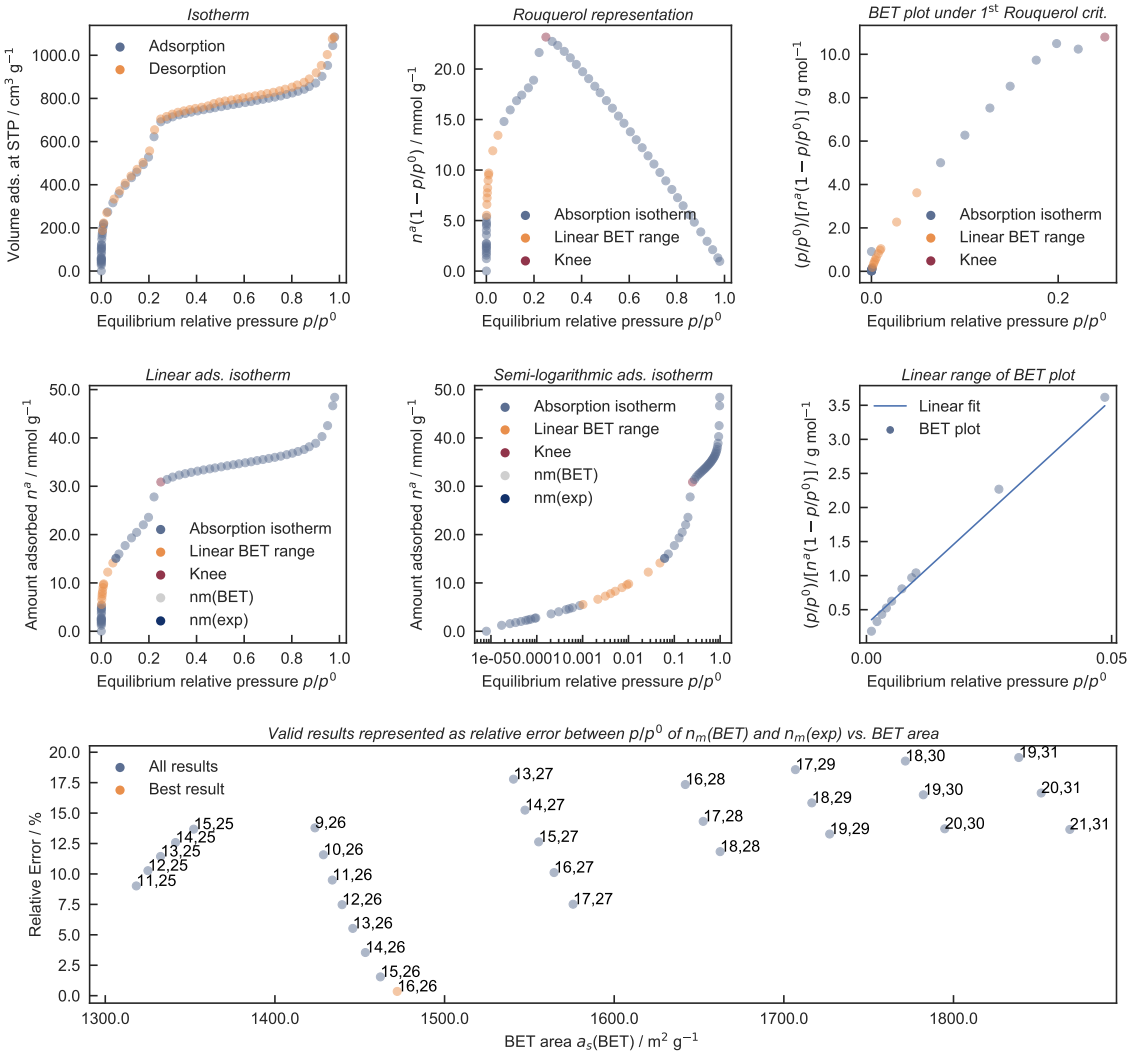
Isotherm
Adsorption
Desorption
Volume ads. at STP / cm³ g⁻¹
Equilibrium relative pressure p/p⁰
Rouquerol representation
Absorption isotherm
Linear BET range
Knee
nᵃ(1 − p/p⁰) / mmol g⁻¹
Equilibrium relative pressure p/p⁰
BET plot under 1st Rouquerol crit.
Absorption isotherm
Linear BET range
Knee
(p/p⁰)/[nᵃ(1 − p/p⁰)] / g mol⁻¹
Equilibrium relative pressure p/p⁰
Linear ads. isotherm
Absorption isotherm
Linear BET range
Knee
nm(BET)
nm(exp)
Amount adsorbed nᵃ / mmol g⁻¹
Equilibrium relative pressure p/p⁰
Semi-logarithmic ads. isotherm
Absorption isotherm
Linear BET range
Knee
nm(BET)
nm(exp)
Amount adsorbed nᵃ / mmol g⁻¹
Equilibrium relative pressure p/p⁰
Linear range of BET plot
Linear fit
BET plot
(p/p⁰)/[nᵃ(1 − p/p⁰)] / g mol⁻¹
Equilibrium relative pressure p/p⁰
Valid results represented as relative error between p/p⁰ of nm(BET) and nm(exp) vs. BET area
All results
Best result
Relative Error / %
BET area as(BET) / m² g⁻¹