**ML Predicted Usable H2 Storage Capacities of MOFs under a Temperature+Pressure Swing**

Machine learning (ML) model predicted usable gravimetric and volumetric hydrogen storage capacities of 820,000 MOFs for the temperature+pressure swing between 100bar/77K and 5bar/160K. 7 input crystallographic features used for ML predictions are also given. ML models used for the predictions can be accessible via https://sorbent-ml.hymarc.org/.

**Header terms:**

* CSD refc. = CSD Refcode
* DB Acr. = Database Acronym
* GT = Generic Identity
* Calc. Type = Calculation Type
* Density = Density in units of gram per cubic centimeter
* GSA = Gravimetric Surface Area in units of square meter per gram
* VSA = Volumetric Surface Area in units of square meter per cubic centimeter
* VF = Void Fraction
* PV = Pore Volume in units of cubic centimeter per gram
* LCD = Largest Cavity Diameter in units of Angstrom
* PLD = Pore Limiting Diameter in units of Angstrom
* UG at TPS = Usable Gravimetric Hydrogen Capacity for the temperature+pressure swing between 100bar/77K and 5bar/160K in units of weight percent
* UV at TPS = Usable Volumetric Hydrogen Capacity for the temperature+pressure swing between 100bar/77K and 5bar/160K in units of gram hydrogen per liter
* CSFT = Crystal Structure File Type
* CSA = Crystal Structure Availability

The Data Explorer view lets you explore these data using a grid, you can filter the data, create graphs using any of the columns in the file.