Overview of PrISMa Submission



Submission

Key	Value	
Name	Joren Van Herck	
Affiliation	EPFL	
Position	PostDoc	
Submission time	2023-08-10 09:37	
Structure Name	TEST	
Submitted cif	HKUST1_exp.cif	

Model Predictions

The structure is extracted from the CIF file and cleaned with c2x. This extra step was needed to create a Persistence Homology Images (PHImages), a descriptor related to the pore geometry. The PH image was used to predict (i) the Net Carbon Avoidance Cost relative to the MEA-based benchmark and (ii) the water resistance. Both models where trained for the cement case in the UK with TSA process.

Model Name	Input Type	Prediction	Explanation
nCAC	PHImage	0	whether a material has a lower nCAC than the MEA-based benchmark
WaterResistance	PHImage	1	whether a material can maintain its CO2 adsorption capacity in wet flue gasses