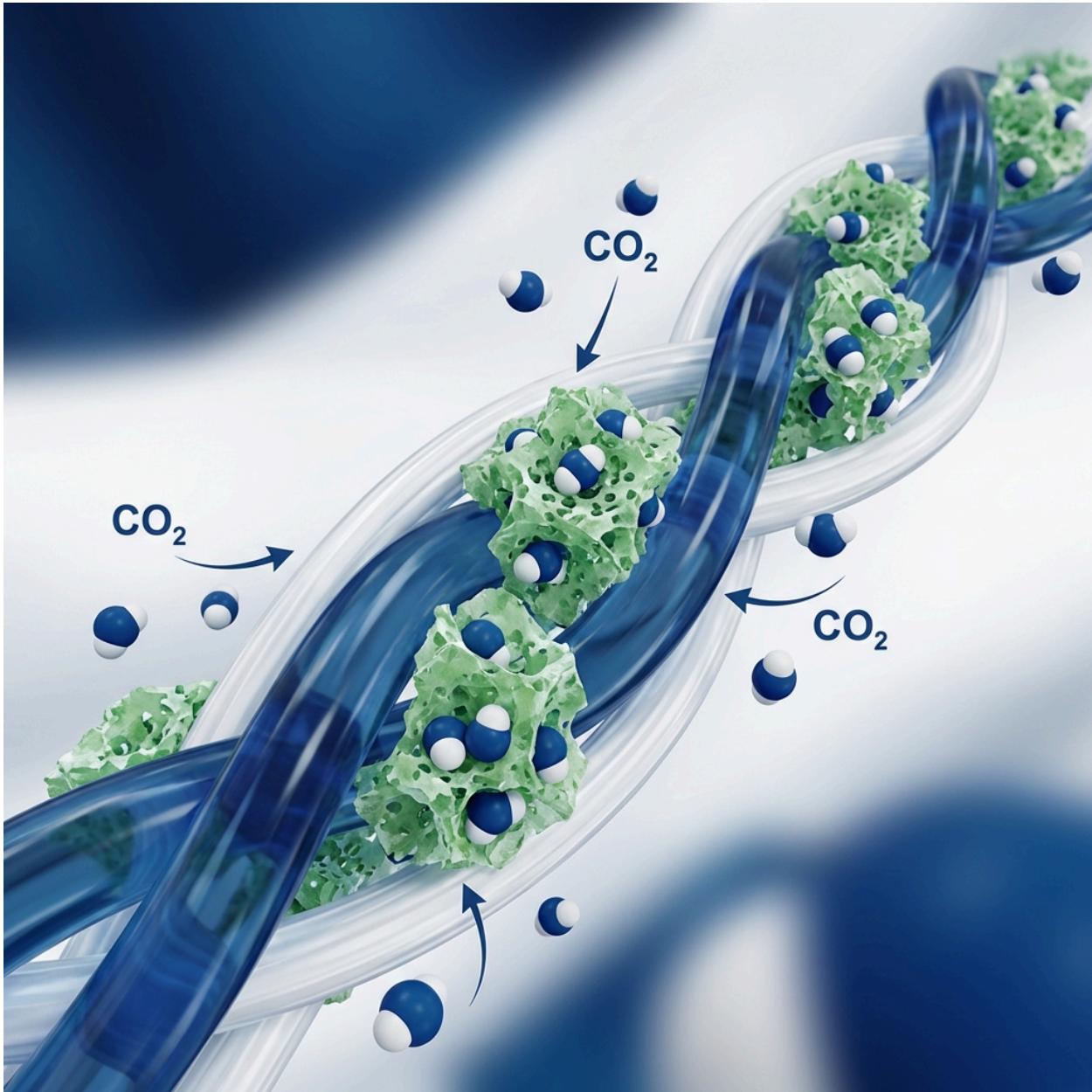
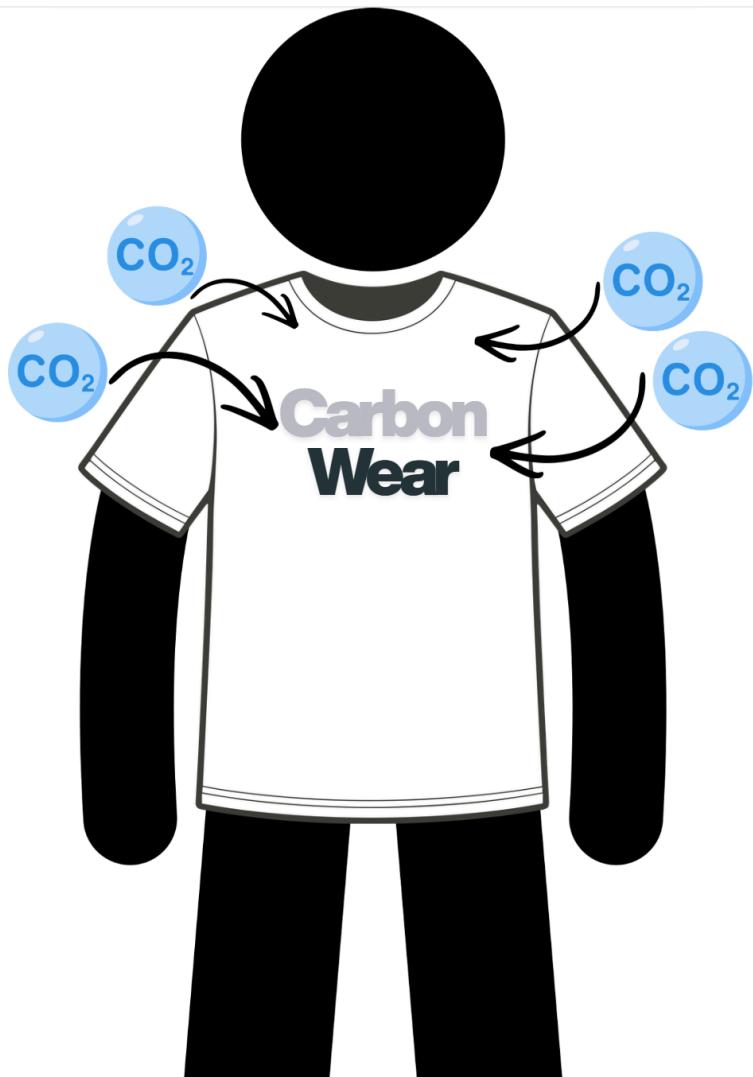


Remove all emdashes (no exceptions)

Images you gotta replace:



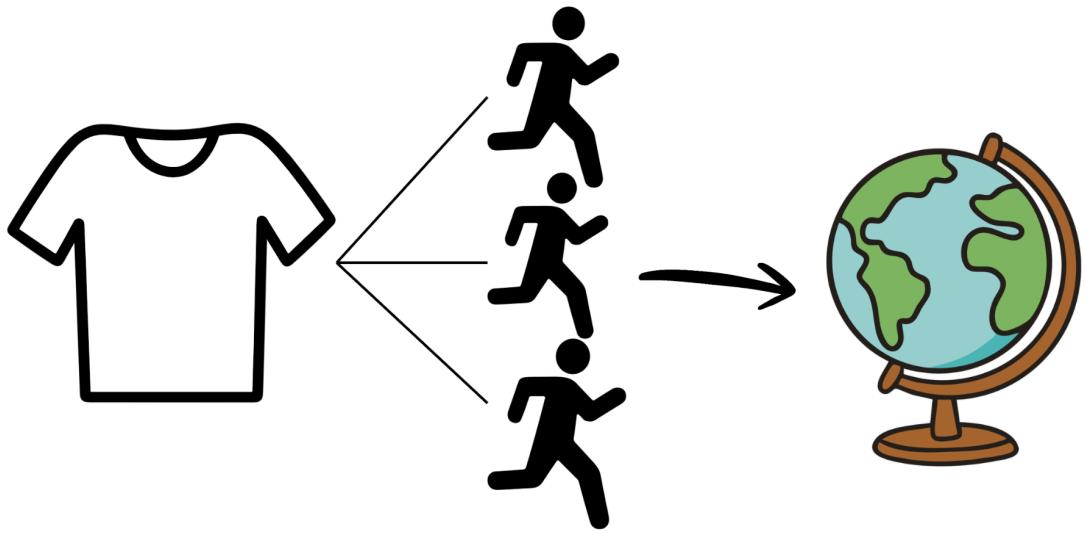
With this:



Replace this image:

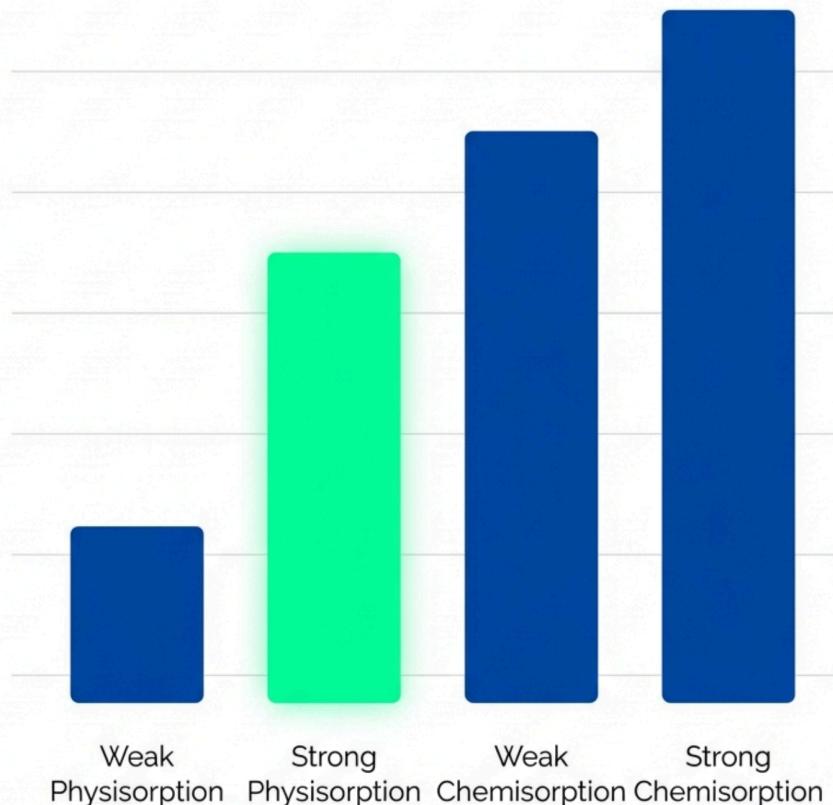


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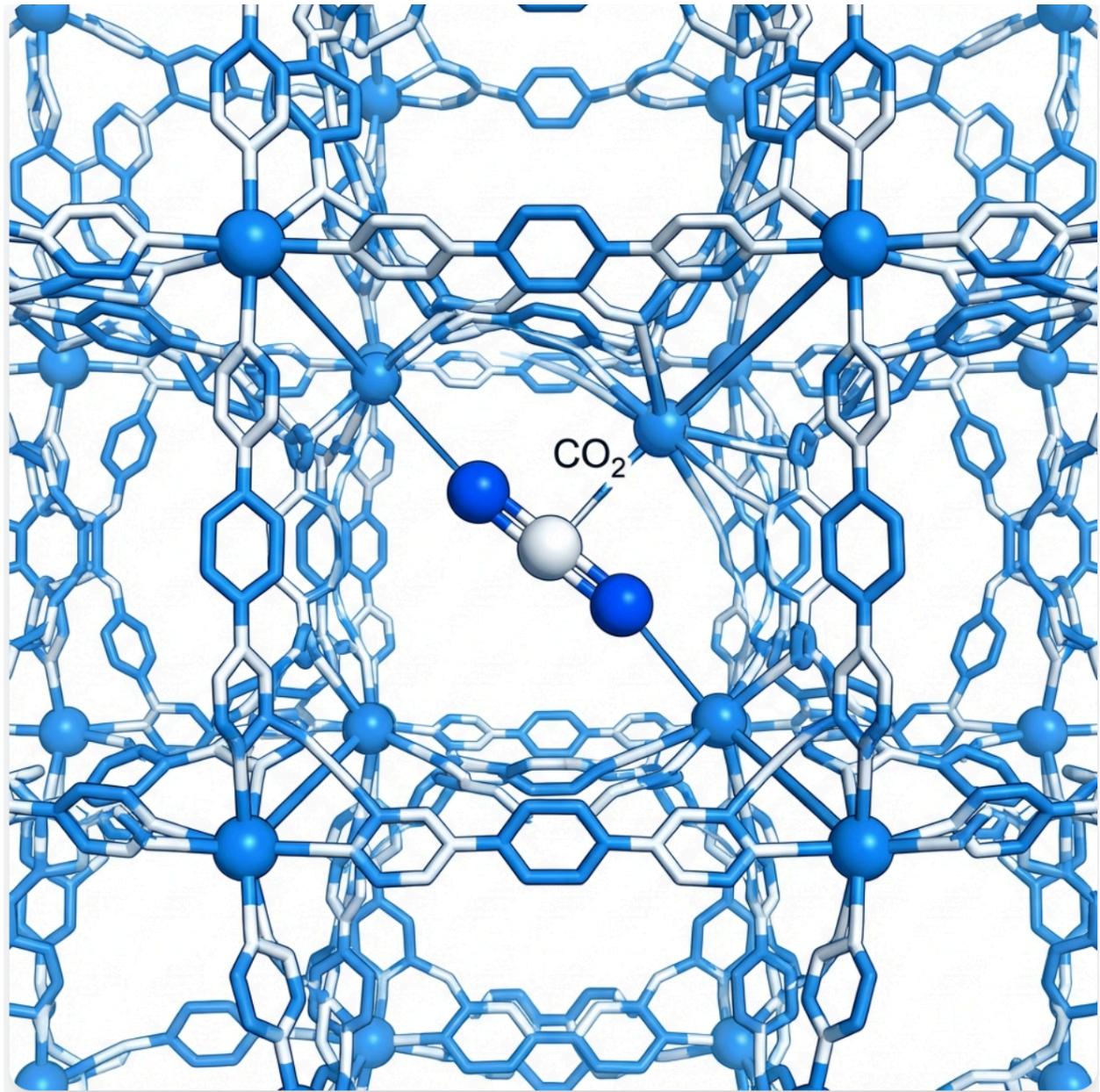


Remove this image (no replacing js remove):

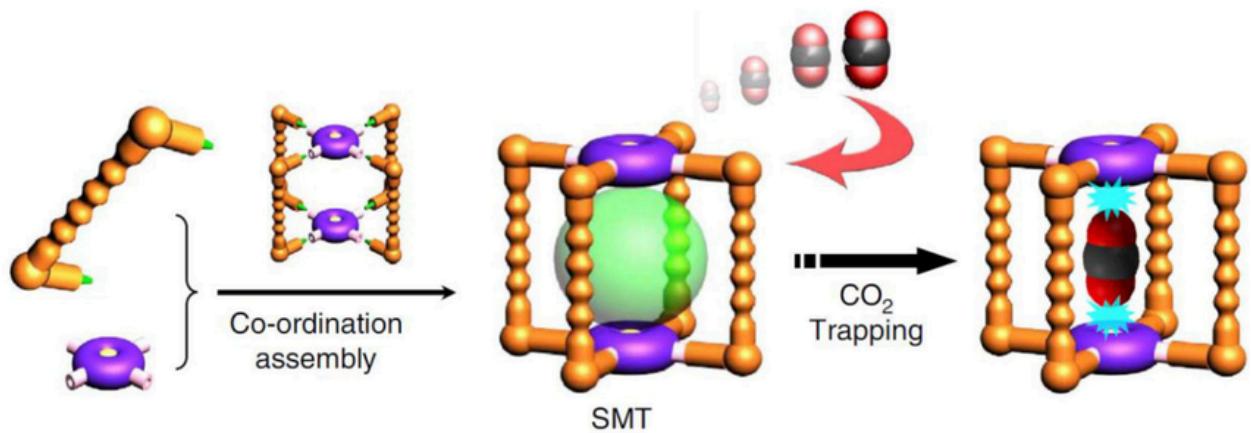
# Binding Energy Ranges



Replace this image:



With this:



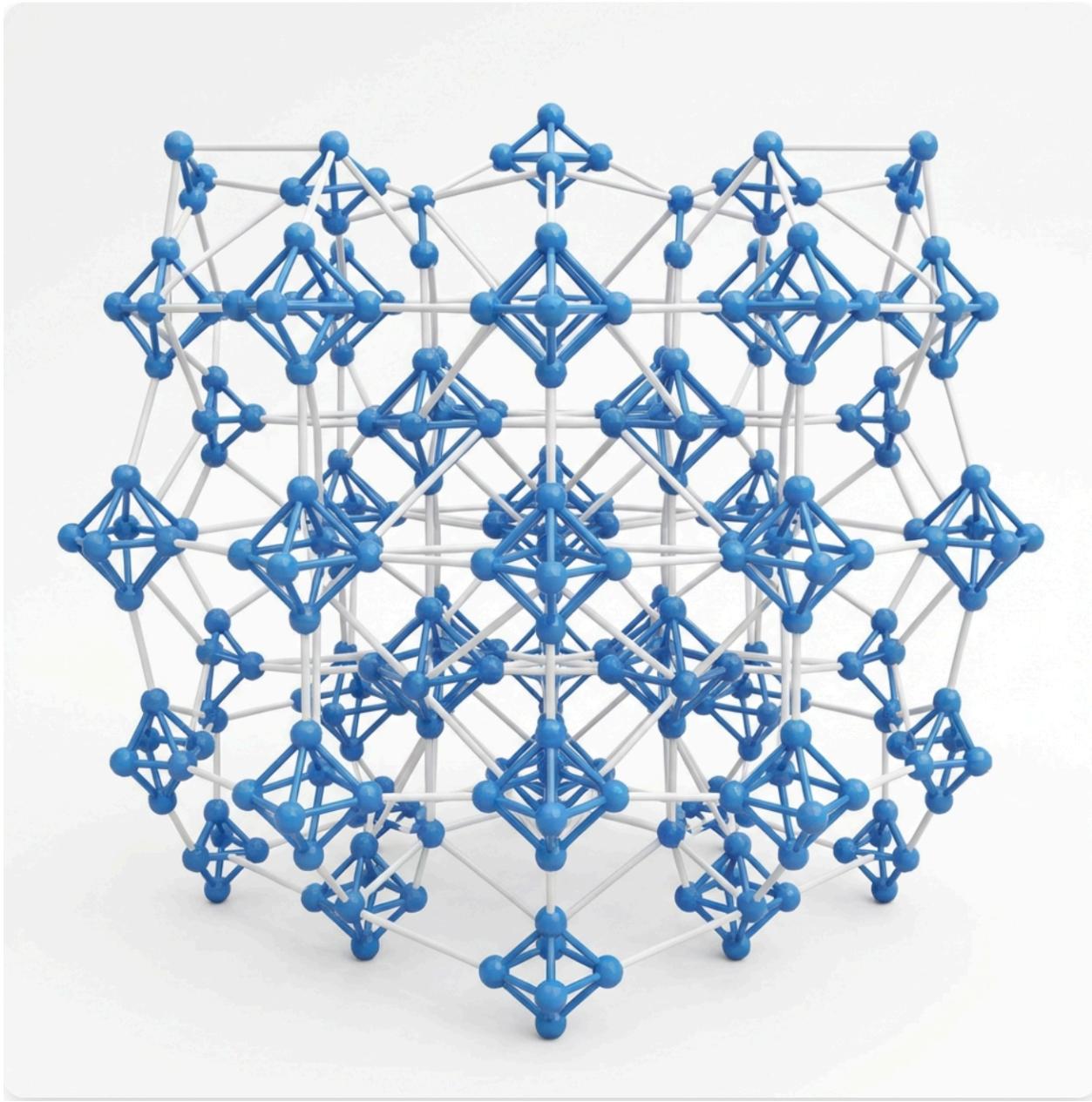
Add this caption to it:

Conceptual schematic of metal–organic framework (MOF) coordination assembly and CO<sub>2</sub> adsorption (adapted from Zulkifli *et al.*, *ChemistrySelect*, 2022).

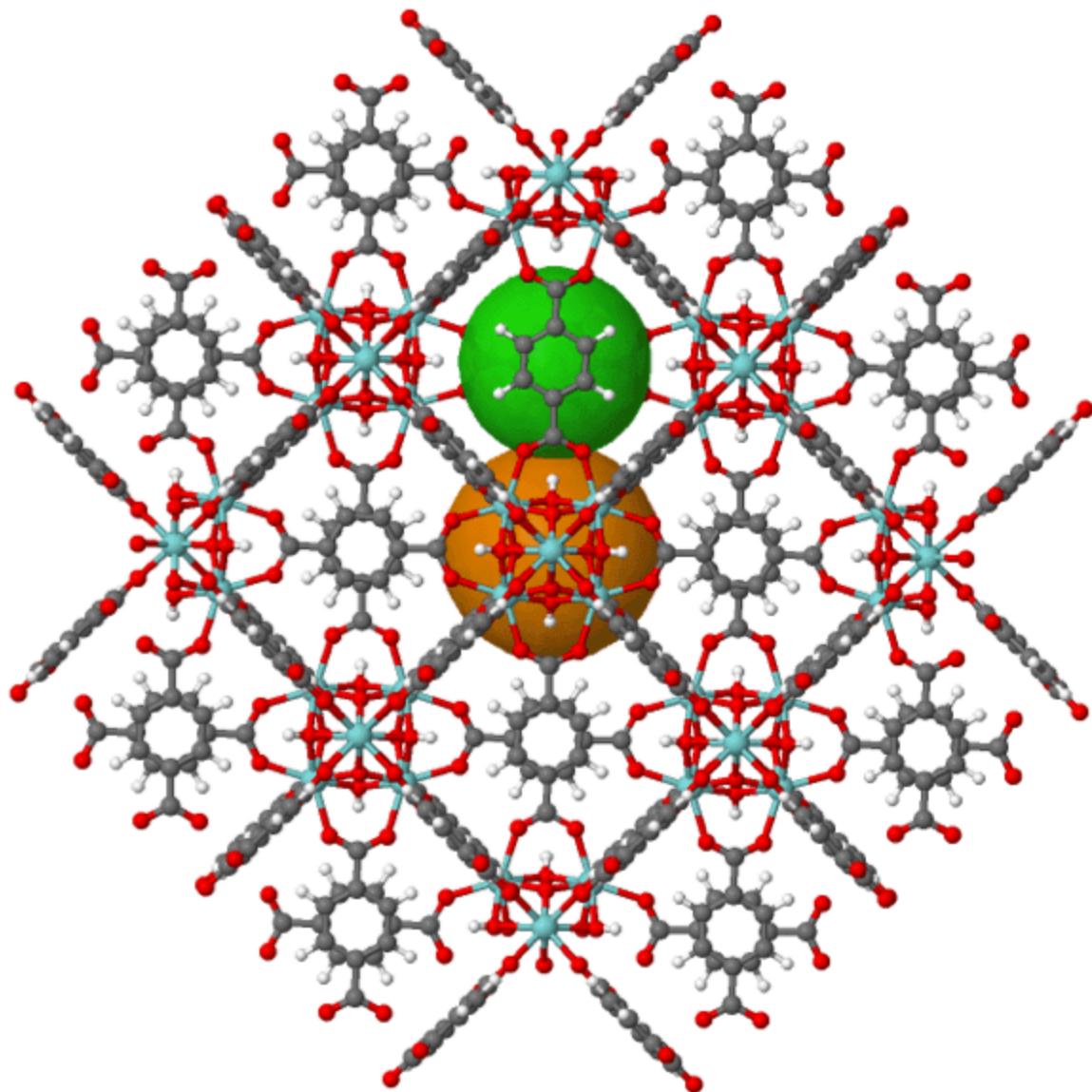
Also add this citation to it fro the bibliography for images used:

Zulkifli, Z. I., Lim, K. L., & Teh, L. P. (2022). *Metal-organic frameworks (MOFs) and their applications in CO<sub>2</sub> adsorption and conversion*. *ChemistrySelect*, 7(22), e202200572.  
<https://doi.org/10.1002/slct.202200572>

Replace this image:



With this:



Caption:

**Representative structure of the UiO-66 metal–organic framework (MOF), illustrating zirconium clusters and porous architecture.**

*Image source: ChemTube3D.*

Add citation:

ChemTube3D. (n.d.). *UiO-66 metal–organic framework structure*. Retrieved from <https://www.chemtube3d.com/mof-uo66/>

Under this section:

# METAL-ORGANIC FRAMEWORKS: THE KEY TECHNOLOGY

MOFs are crystalline porous materials formed from metal clusters linked by organic molecules.

## KEY PROPERTIES:

- Exceptionally high surface area (1,200 m<sup>2</sup>/g for UiO-66)
- Tunable pore sizes (8-12 Angstroms—perfect for CO<sub>2</sub>)
- Selective gas adsorption
- Water-stable variants available

## WHY UiO-66-NH<sub>2</sub>?

Traditional MOFs degrade in humid conditions. Zirconium-based UiO-66 exhibits improved water stability due to strong Zr-O coordination. Amine functionalization enhances CO<sub>2</sub> selectivity.

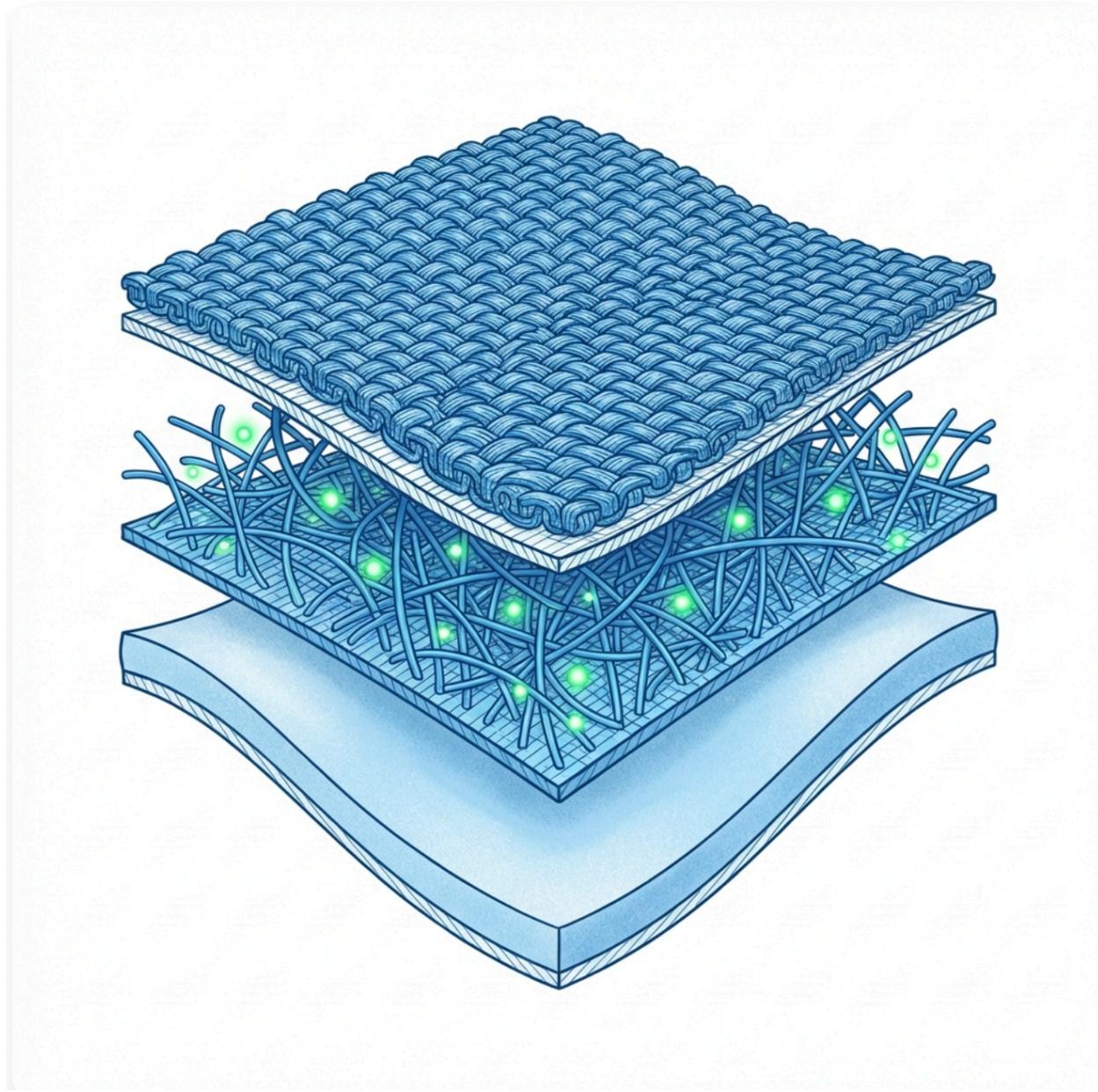
Add this sentence:

*This image is included for structural visualization only; adsorption energetics in this project were evaluated using reduced computational proxy models.*

Remove this image completely no replacement:



Under this image:



Add this caption:

Conceptual illustration of the proposed layered CarbonWear fabric architecture, showing the outer textile layer, active capture layer, and inner comfort layer. Illustration generated with AI assistance for visualization purposes only.

Add this to the bibliography:

OpenAI. (2026). *AI-assisted illustration used for conceptual visualization of layered textile architecture*. <https://chat.openai.com/>

Also the bibliography doesn't work the link redirects (i fixed the bibliography on the paper so use that one) also it doesnt have 40+ sources so js remove that part