



Empa

Materials Science and Technology

3D printed fungal biobattery

This fungal biobattery explores a new way of making energy by combining natural materials with living fungi. At the heart of the design is a 3D-printed cellulose framework where fungi create electricity as part of their normal life processes. This ecological approach shows how power can be generated without metals or plastics, offering a glimpse into future devices that are both functional and biodegradable. Still in development, the fungal biobattery highlights the exciting potential of nature-inspired solutions for sustainable energy.



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