

# How computer chips made of mushrooms could be the future



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To reduce electronic waste and cut greenhouse gas emissions from plastic, future computer chips might use a substrate made of mushrooms. This isn't [something out of the Mario Bros. movie](#), either.

That doesn't mean you'll have toadstools mounted on the motherboard. A paper published in the journal [Science Advances](#) (and spotted by [ZDNet](#)) details the process that uses only mushrooms' skin to create a biodegradable base for electronics.

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[Electronics can get hot in use](#), and soldering requires high temperatures, so the fungal substrate was tested and found stable at over 250 degrees Celsius (480 degrees Fahrenheit). The mushroom base was even tested for use as a printed circuit board and a battery.