



Eggshells

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RESEARCHERS USE EGGHELLS TO CONDUCT POWER FOR RENEWABLE ENERGY

   SCIENCE

Chicken eggshells could provide a cheap and easily accessible alternative to traditional batteries

Spotted: An international team of scientists has found a way to turn eggshells into a conductor for energy. The discovery is a first for biomass research and could have major implications for renewable energy, according to the team.

Chicken eggshells contain a high level of calcium carbonate, which allows them to store lithium. Scientists from Germany, Australia and Japan found that if they washed, dried and crushed egg shells to a powder, the end product could conduct power. The next step is to use the same process to create electrodes to power batteries, according to the team.

The experiment used supermarket-bought caged eggs. The team has not tried the experiment using free-range eggshells.

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Takeaway:

The team's research has major implications for renewable energy, according to team member Dr. Manickam Minakshi. "Using chicken eggshells in this manner not only has the potential to reduce the amount of bio-waste that is produced, but it also has the potential to add considerable value to the renewable energy market," he said. Springwise has spotted a number of innovations that turn bio-waste into fuel or alternative energy sources, including [turning kelp into biofuel](#) and [recycling used coffee grounds into fire logs](#).