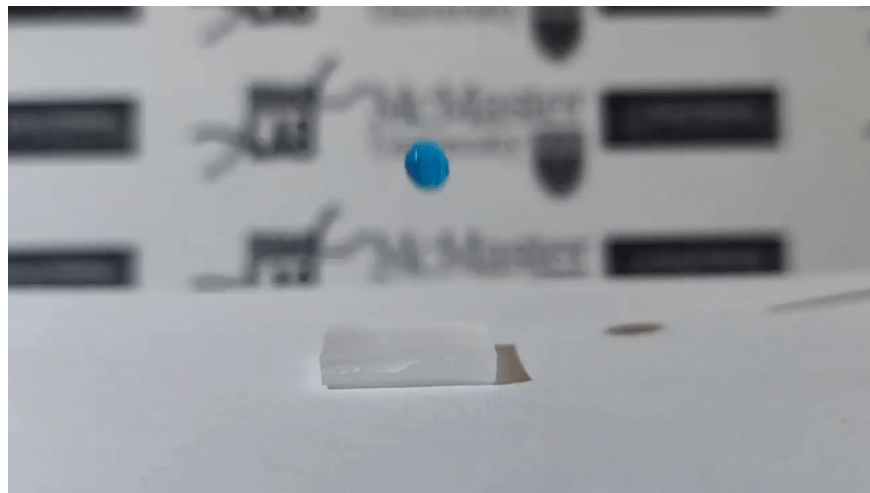


# Plastic surface self-cleaning, even antibiotic-resistant bacteria can not cling to

Scientists have successfully developed a plastic surface with chemically treated nano wrinkles that block all foreign molecules, preventing them from adhering to them.

Scientists Leyla Soleymani and Tohid Didar from McMaster University, Canada have successfully developed a plastic surface with chemically treated nano wrinkles capable of blocking all foreign molecules, not allowing them to stick to it. That means, if a drop of water, a drop of blood or even a bacterium falls into it, it slips off and cannot stick.

As announced by the scientists, nanomaterials can self-clean up to 84-87% compared to conventional materials. Scientists dripped droplets of water containing MRSA (methicillin-resistant staphylococcus aureus), Pseudomonas (among the top 3 most dangerous bacteria) and E. coli on surfaces of common and nano materials. new self-cleaning. The results showed that nearly all Pseudomonas and E. coli bacteria were cleaned, only a small amount of MRSA bacteria remained on the new self-cleaning nanomaterials.



Soleymani said that the great thing is that this self-cleaning plastic surface is flexible, durable, simple and low-cost, and can be applied in all areas.

The scientists hope the new self-cleaning plastic surface can be coated on every surface in the hospital, from balustrades, hospital beds, infusion bags, and door handles, to prevent viruses. Antibiotic-resistant bacteria spread in medical environments. New self-cleaning materials can also be used as food packaging to help prevent the spread of pathogens between foods.

1. Successfully fabricated flexible glass, which can only be bent, not broken
2. Successfully manufactured meat from the air

You finished reading the article "**Plastic surface self-cleaning, even antibiotic-resistant bacteria can not cling to**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.

---