This is a new nanomaterial that can reduce vehicle emissions pollution

An international team of researchers designed a new nanomaterial that could be used to create more effective catalytic converters that reduce car pollution.

An international team of researchers has designed a new nanomaterial that can be used to create catalysts " *more pronounced* " that reduce car pollution.

Accordingly, researchers at Wollongong University (UOW), Australia, work with colleagues in Japan, Turkey, Bangladesh and the Australian Nuclear Technology Organization (ANSTO) to create a modified material. improve the performance of "three to four times" catalytic converters.

This catalytic converter has the function of reducing pollution from vehicle emissions by converting toxic gases and pollutants into less toxic contaminants.

Among the pollutants, sulfur oxides and nitrogen oxides (NOX) have an adverse effect on plant photosynthesis, damaging the human immune system and creating reactive oxygen species (ROS). in cells of affected organisms.

In an article published in Nature Communications, the team describes how to create porous rhodium on the surface of nanomaterials.

It is known that Rhodium is a chemical element commonly used in catalytic converters to reduce nitrous oxide in emissions. And it is fully absorbed into the pores on the surface of new nanomaterials to help operate more efficiently.

The lead author of the study, Professor Yusuke Yamauchi of the Australian Institute of Creative Materials (AIIM) at UOW said that porous rhodium nanoparticle materials can significantly improve air pollution in cities around the world. .

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