

Nano gold air cleaner

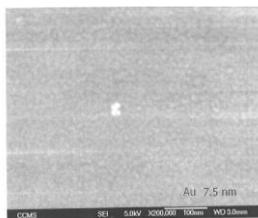
Content: This patent is nano gold particles (7.5nm) inside the water type air cleaner. Nano gold particles can catalyze various kinds of chemical reaction while air is sucking into this water type air cleaner. For example, it can rapidly oxidize carbon monoxide (CO) in the air, then become carbon dioxide, oxidize nitrogen oxide (NO_x) and combine with UV light to decompose organic solvents. Nano gold particles are coated inside the surface cover of the water type air cleaner entrance or fan blade surface. When the air is sucking in by the fan, the carbon monoxide is oxidized by the nano gold particles, and goes with the dust in the air absorbing by the water.

Experiments: To remove 1. Carbon monoxide (CO); 2. Formaldehyde:

1. We put this water type air cleaner into a box of 58x40.5x36 cm, using burning charcoal to put into the said box to become carbon monoxide (CO) in the box. When the concentration of CO is up to 696ppm, let the air suck into this nano gold air cleaner, and CO is dropped to 63ppm one minute later, and CO is dropped to 0ppm in another three minutes, CO at this moment continuing with burning charcoal, but nano gold catalysts can 100% oxidize CO.

2. Nano gold catalysts can resolve organic solvents to combine with a UV light. The experiment is as follows: we put nano gold air cleaner into a box of the size 58x40.5x36 cm, and formaldehyde (formaldehyde) is released in the same box. We test that the concentration of formaldehyde is 32ppm. The air with formaldehyde is sucking into this nano gold air cleaner and turning 32ppm formaldehyde into 0ppm in one second.

Test sees <http://www.youtube.com/watch?v=l2APgGD0xCk>



nano gold 7.5nm



Oxygen producing air cleaner

CONTENT:

An air cleaner with a water container has anion particles on the surface of inside of the water container. The anion particles are composed of nano size nonmetal components. The anion particles with negative charge on their surface can have chemical reaction with water to produce oxygen and bubbles in water. The air cleaner with a water container is coated with anion particles on the inner surface of the water container. When water in the water container reacts with anion particles, the oxygen and bubbles are producing. At the same moment, the air is inducing by the rotating fan and expelled the water in the water container in circular motion. The oxygen and water bubbles in the water container are squeezed and oxygen produced in the air. The oxygen is producing in water and consuming only water, not producing hydrogen. The value of Ph will be changed after released oxygen in water.

EXPERIMENT:

The nano size of anion particles reacted with water producing oxygen is an endothermic reaction. The amount of oxygen dissolved in water will increase, and the amount of oxygen also increases in the air, while the temperature will be decreased at the same time. The anion particles are coated on the inner surface of the water container, so the function which is producing oxygen of the anion particles is to be a catalyst. There are no losses of the anion particles after the reaction with water, so they can use forever. The test result is that the amount of oxygen will increase 0.4%-0.8% constantly in air volume of 70 CFM immediately after running this oxygen producing air cleaner. Test sees <http://www.youtube.com/watch?v=NjssfrilCDs>.

