

Review of: "Nanomaterials: History, Production, Properties, Applications, and Toxicities"

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Potential competing interests: No potential competing interests to declare.

Dear authors,

My suggestions with respect to the grammar are

Paragraph 1, Line 1: you may change the text marked in bold.

Due to their useful applications in optoelectronic, magnetic, and catalytic instrumentation,**as well as** an increase in heat transfer rate, electronics, energy generation, and agricultural features, nanomaterials (NMs) have drawn physicists, chemists, and biologists to the same bench [1]."

Paragraph 2, Line 2: you may use "color" instead of "colour"

Paragraph 3, Line 3: add an article as follows: "**The** light appears red when it comes from the back and green when it comes from the front." instead of "Light appears red when it comes from the back and green when it comes from the front."

Paragraph 5, Line 3: use "coined" instead of "developed"

"He was the first to use a microscope to gauge the size of particles like gold colloids, and he also**coined** the term 'nanometer' to describe particle size."

Paragraph 6, Line 5: Those facts are not really easy and true as indicated. Specifically, Smalley disagreed with the author of "Engines of Creation," Eric Drexler. This fact is documented with a discussion that remained for years. Please document and correct the paragraph, or delete.

Paragraph 9, Line 1: I suggest to simplify as follows

"Recent research on nanotechnology **focuses** on nanomedicine and environmental pollution." instead of "Recent research on the subject of nanotechnology is concentrated on nanomedicine and environmental pollution."

Paragraph 10, Line 3: It may be written as follows

"**According to a study conducted by Balasubramanian and co-authors**, a functionalized glassy carbon electrode (GCE) was created by catalysis using colloidal tannic acid (TA)-doped gold nanoparticles." instead of "A functionalized

glassy carbon electrode (GCE) was created by catalysis using colloidal tannic acid (TA) doped gold nanoparticles, according to a study conducted by Balasubramanian and co-authors."

Paragraph 11, Line 1: please write

"The safety measures for nanomedicine **have significantly improved** with the development **of** functionalized biodegradable NMs." instead of "The safety measures for nanomedicine have been significantly improved by the functionalized biodegradable NMs."

Paragraph 13, Line 1: It may be improved by

"The varied physical and chemical properties **of NMs** have made them significant in science." instead of "NMs' varied physical and chemical properties have made them significant in science."

Questions

1. How did ancient civilizations manage to create and utilize nanomaterials without the modern understanding of nanotechnology?
2. How did the discovery of fullerenes and carbon nanotubes revolutionize the field of nanotechnology?
3. What are some of the most promising applications of nanotechnology in medicine and environmental protection today?
4. What are the potential future impacts of nanotechnology on global issues such as climate change and energy sustainability?
5. What measures are currently being taken to address the potential risks and ethical concerns associated with nanotechnology?