

November, 22th and 23th, 2023, Relizane, Algeria

Synergy between artificial intelligence and nanoparticles: innovations and environmental applications

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Abstract -

Applications of metal oxide materials, or so-called smart materials, have proven to be very successful in the fields of medicine, cosmetics, and food preservation. Since they have special physical and chemical properties, they have also been used as filters for efficient wastewater treatment. The antioxidant activity will be studied in this work using copper-coated zinc oxide nanoparticles. Fourier transform infrared (FT-IR), ultraviolet-visible (UV-Vis), and scanning electron microscopy were used to analyze the produced nanoparticles.

Keywords – *environmental applications, smart materials, antioxidant activity.*

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