



Synthesis of new copper Nano Particles using the Coriandrum sativum L

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Abstract:

The current study aimed to synthesis of new copper NanoParticles using the Coriandrum sativum L. Seed extracts and investigated of the characterization, properties and comparison between the different (CuNPs) to find the best one to investigate their application in further study. The copper nanoparticles (CuNPs) created by using 80 ml of aqueous solution of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ (2mM) with the 20 ml of aqueous extracts(hot and cold) of Coriandrum s. as a reducing and stabilizing agents. After 30 minutes with continuous heating about 70°C , the change of color solution assures to the formation of copper nanoparticles and the optimization of the different conditions, including temperature, time of reaction, pH, concentration of copper sulphate pentagonal water $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ and the mixing ratios of reactants to prepare the copper nanoparticles (CuNPs) were studied.

Biography:

lamia Almashhedy was an Iraqi archaeologist specialising in ancient Mesopotamian antiquities. She was born in Baghdad and completed her education in Iraq and the United Kingdom.



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