

Influence Of Nanoparticles On Seed Germination And

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Influence of Zinc Oxide Nanoparticles on Growth, Flowering ...

I have observed, at a certain dose nanoparticles promote seed germination. Some antioxidant enzymes get influenced, also pathogen attack on seed gets impacted.

The Influence of CTAB-Capped Seeds and Their Aging Time on ...

Influence of gold and silver nanoparticles on the germination and growth of *Mimusops laurifolia* seeds in the South-Western regions in Saudi Arabia. Abdulla Abdulaziz Alshehddi L(1), Bokhari N(2). Author information: (1)Department of Biology, Imam Mohammed Bin Saud University, PO Box-22452, Riyadh 11495, Saudi Arabia.

Nanoparticles influence seed germination traits and seed ...

Nanoparticles were synthesized and characterized before seed treatment. Seeds were treated with NPs at 750 mg (D1), 1000 mg (D2) and 1250 mg/kg of seed (D3). The effect of nanoparticles on seed germination and vigour was studied in the laboratory and seedling emergence rate, tiller number and seed yield were studied in the field.

Influence of gold and silver nanoparticles on

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the ...

Our findings demonstrated a significant particle size-, morphology-, and concentration-dependent influence of ZnONPs on seed yield, lipid peroxidation, and various antioxidant biomarkers in soybean. Our spherical 38 nm ZnONPs were the most protective compared to the floral-like 59 nm ZnONPs, rod-like >500 nm ZnONPs, and Zn 2+ ions, particularly up to 160 mg Zn/kg.

Influence of gold and silver nanoparticles on the ...

The influence of ENMs—whether they are metallic or carbon-based materials—on plants was discussed in recent reviews [34,35,36,37]. Since most of these studies have been conducted in the laboratory or under controlled conditions, seed germination and seedling growth are among the most studied stages of plant development.

Influence of Metal Nanoparticles on the Soil Microbial ...

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Impact of silver nanoparticles on plant growth, some ...

However, when studying the effect of gold and

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silver nanoparticles on the seeds of juniper and lactation after treatment with these nanoparticles, to determine their effect on germination, the result was completely negative where there was no germination, that is the germination rate zero in all transactions, and even after the use of sulfuric acid on the seeds so as to soften the shortness.

Influence of Geometries on the Assembly of Snowman-Shaped ...

**Int.J.Curr.Microbiol.App.Sci (2014) 3(7) 874-881
874 Original Research Article Influence of Zinc Oxide Nanoparticles on Growth, Flowering and Seed Productivity in Onion**

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In this work, an appropriate amount of CTAB was added into the solution to prepare silver seed crystals. The results show that the aging time of silver seeds have a great influence on the sizes and morphologies of silver nanoparticles and thus the shape-controllable silver nanoparticles can be easily achieved by simply changing the seed aging time.

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Short term influence of silica, palladium, gold and copper nanoparticles on a soil microbial community and the germination of lettuce seeds are investigated in this study at two different concentrations of nanoparticles. Results show a statistically insignificant influence of the nanoparticles in the soil on the number of colony forming units, peak areas of methyl ester of fatty acids in the ...

Influence Of Nanoparticles On Seed Germination And

The larger diameter PtBA seed nanoparticle were used to prepare the JNP-1-9 series, and the smaller diameter seed nanoparticles were used for the synthesis of JNP-10. By adjusting the volume of the 3-(triethoxysilyl)propyl methacrylate monomer to 1 g of PtBA seed nanoparticles, two series of JNPs with varying PTPM lobe sizes were obtained.

Influence Of Nanoparticles On Seed Germination And

The influence of Sil-1 nanoparticle seeds on the formation of Ti-containing mesoporous zeolites was investigated in detail. The samples were characterized by SEM, XRD, XRF, FT-IR, UV-vis and nitrogen physisorption. The catalytic properties of the materials were examined by phenol and benzene hydroxylation reactions.

Influence Of Nanoparticles On Seed

BNPs adhered to the root surfaces of all three plants. The adhesion of nanoparticles on root surface was mainly influenced by the openness of epidermal openings. Therefore, epidermal openings clogging caused by BNPs adhesion may negatively influence the transfer of nutrients and water in tomato and reed.

How do nanoparticles influence seed germination?

The use of nanotechnology can ensure food security via improving crop production. Nanoparticles have the ability to enhance growth and yield of different plants such as fenugreek (*Trigonella foenum-graecum*) (Fabaceae). The present work aims to study the role of silver nanoparticles (AgNPs) on growth, some biochemical aspects, and the yield both quantitatively and qualitatively of fenugreek plant.

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Effects of biochar nanoparticles on seed germination and ...

Nanoparticles (NPs) influence germination and growth of plants and also reported to have antimicrobial effect on seed. In the present study, effect of four metal/metal oxide NPs viz. Zinc oxide (ZnO), Titanium oxide (TiO₂), Copper oxide

Influence of Metal Nanoparticles (NPs) on Germination and ...

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Influence of Hydroxyapatite Nanoparticles on Germination ...

Short term influence of silica, palladium, gold and copper nanoparticles on a soil microbial community and the germination of lettuce seeds are investigated in this study at two different ...

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