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عنوان مقاله:

(Toxicity comparison of silver nanoparticles synthesized by physical and chemical methods to tadpole (Rana ridibunda

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خلاصه مقاله:

One of the possible threats in increasing use of nanomaterials is the emergence of toxicity in humans and other animals which is discussed in nanotoxicology. In addition to toxic effects of nanomaterials themselves, different chemical precursors which are usually used in bottom-up approaches for production of nanomaterials may have secondary toxic effects in living organisms. In contrast, less use of chemicals in top-down approaches may reduce these secondary effects. To test this hypothesis, toxic effects of two types of silver nanoparticles (AgNPs) produced by physical (top-down) and chemical (bottom-up) methods were investigated and compared on the tadpole, Rana ridibunda survival. The estimated ħA h LCa· values of AgNPs produced by chemical and physical methods for tadpoles were ···aa ± ····ħ and ·. Yas ± ···ħ and ·. Yas ± ····ħ and ·. Yas ± ····ħ and ·. Yas ± ···ħ and ·

كلمات كليدى:

Amphibian, Aquatic Nanotoxicology, Rana ridibunda, Silver Nanoparticles, Tadpole

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