

## عنوان مقاله:

Determination of lethal concentration (LC<sub>50</sub>) of silver nanoparticles produced by biological and chemical methods in Asian seabass fish

## محل انتشار:

مجله بین المللی تحقیقات آبزیان و مطالعات محیطی، دوره 1، شماره 2 (سال: 1400)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

S. Bita - *Department of Fisheries, Faculty of Marine Sciences, Chabahar Maritime University, Iran*

A. Balouch - *Department of Fisheries, Faculty of Marine Sciences, Chabahar Maritime University, Iran*

T. Mohammadian - *Department of Aquatic Animal Health, Faculty of Veterinary, Shahid Chamran University of Ahwaz, Iran*

## خلاصه مقاله:

Nanotechnology is a technology that originates from the reactions and reactions that occur at the atomic level and is a new revolution for all future sciences. The aim of this study was to investigate the lethal concentration of silver nanoparticles produced by biological method from Sargassum algae and commercial silver nanoparticles produced by chemical method in Asian sea bass fish. The fish were exposed to different concentrations of the two types of nanoparticles in a ۳۰-liter aquarium for ۹۶ h and their mortality was recorded every ۲۴ h. After mortality was recorded, lethal concentration was calculated using probit test in SPSS software. According to the results, the mean lethal concentrations of silver nanoparticles were calculated for biological and chemical nanosilver respectively ۱۹.۶۶۹ and ۱.۵۶۹ mg/L, respectively. The results showed that with increasing concentration of silver nanoparticles as well as exposure time the percentage of mortality in fish increased. The highest mortality was observed at the highest concentration of silver nanoparticles.

## کلمات کلیدی:

Toxicity, Biosynthesis, Silver Nanoparticles, Asian Sea Bass

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1676200>

