

عنوان مقاله:

The effects of Sargassum angustifolium extract on lycopene content in tomato plant under drought stress

محل انتشار:

ششمین همایش بین المللی مهندسی کشاورزی و محیط زیست با رویکرد توسعه پایدار (سال: 1399)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Amir Ghaffar Shahriari - *Department of Agriculture and Natural Resources Higher Education Center of Eghlid Eghlid, Iran*

Mehdi Zarei - *Department of Soil Science, School of Agriculture Shiraz University & Department of Agriculture and Natural Resources Higher Education Center of Eghlid Eghlid, Iran*

Roohollah Shamlou-Dashtpajardi - *Department of Agriculture and Natural Resources Higher Education Center of Eghlid Eghlid, Iran*

Afsaneh Mohkami - *Research and technology institute of plant production Shahid Bahonar University Kerman, Iran*

Maziar Habibi-Pirkoohi - *Zist Pajooan Baran, Afzalipour Incubator Shahid Bahonar University Kerman, Iran*

Aminallah Tahmasebi - *Department of Agriculture Minab Higher Education Center University of Hormozgan Bandar Abbas, Iran*

خلاصه مقاله:

Tomato is one of the most important food and economic products in Iran and around the world. Tomatoes need plenty of water to grow well and are severely affected by drought stress. Due to the reports of the positive effect of seaweed extract on increasing plant resistance to abiotic stresses, the present study was conducted to evaluate the effect of Sargassum angustifolium seaweed extract on lycopene content under drought stress. This factorial study includes two factors, algae extract at three levels (zero, 0.5 and 1 g / l) and drought stress at three levels (normal or non-stress, FC = 60% and FC = 40%) with three Repeats performed. Lycopene concentration was measured to evaluate the effect of algae extract on tomatoes under drought stress. Based on the obtained results, it was found that the treatment of seaweed extract significantly improved lycopene in the tomato plant. The best results were obtained in terms of morphological and physiological characteristics in the treatment of one gram / liter of seaweed extract.

کلمات کلیدی:

Seaweed, drought stress, tomatoes, lycopene

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1231600>



