

عنوان مقاله:

.The effect of biological and chemical fertilizers on chlorophyll and artemisinin content in *Artemisia annua* L

محل انتشار:

اولین کنفرانس بین المللی و چهارمین کنفرانس ملی بازیافت مواد آلی در کشاورزی (سال: 1390)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

In order to consider impact of biological and chemical fertilizers (N, P) on chlorophyll and rut emisinin content which exist in *Artemisia annua* L. an experiment was carried out in factorial design in completely randomized design with 4 replications in Zabol University in 2011. Treatments included chemical fertilizers (N, P) in 4 levels (NOPO, N40P40, N80P40, N80P80) and biological fett ilizers in 4 levels (Control, Nitroxin [include bacteria which stimulus growth (Azotobacter and Azospirillum)], Bio-phosphoms [include bacteria which stimulus growth (Bacillus and Pseudomonas)] and Vennicompost ferttilizer. Applying biological fett ilizers lead to enhance active ingredient mtemisinin in *Artemisia annua* L. and among biological fett ilizers, Vennicompost has the most effect on enhancing mtemisinin. The most increase in attemisinin content refers to Vennicompost + N80+P80 with (0.334%). Overall results of this experiment showed that the ability of Azotobacter and Azospirillum in stability N and capability of Bacillus and Pseudomonas in dissolution insoluble phosphates, enhanced mtemisinin effectively. About chlorophyll concentration, applying biological ferttilizers specially vennicompost has better impact that chemical fett ilizers and Vennicompost + N80P80 had better impact on chlorophyll content in compm-ision with other experimental treatments

کلمات کلیدی:

Aitemisinin, *Artemisia annua* L., Nitroxin, Bio-phosphoms, Chlorophyll, Vennicompost

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