

عنوان مقاله:

Effects of sugarcane pressmud on agronomical characteristics of hybrid cultivar of eggplant (*Solanum melongena* L.) under field conditions

محل انتشار:

مجله بین المللی بازیافت مواد آلی در کشاورزی، دوره 5، شماره 2 (سال: 1395)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

Purpose The field experiments were conducted to utilize the sugarcane pressmud in the farming of *Solanum melongena* as an organic fertilizer. **Methods** For growing of *S. melongena*, six agricultural fields were selected for the six amendments of sugarcane pressmud, viz., 0 % (garden soil as control), 20 % (20 % sugarcane pressmud 80 % garden soil), 40 % (40 % sugarcane pressmud 60 % garden soil), 60 % (60 % sugarcane pressmud 40 % garden soil), 80 % (80 % sugarcane pressmud 20 % garden soil) and 100 % (100 % sugarcane pressmud). *S. melongena* was grown in sugarcane pressmud-amended soil till harvest and impact of sugarcane pressmud on the soil and agronomical characteristics of *S. melongena* were determined. **Results** The results showed that the sugarcane pressmud was rich in various nutrients and produced significant ($P.05/P.01$) changes in the soil characteristics in both seasons. Among various treatments, the maximum agronomic performance of *S. melongena* was observed due to 40 % treatment in both the growing seasons. The contamination factor (Cf) of various metals were recorded in order of Zn[Mn[Cd[Cu[Fe[Cr for the soil and Fe[Mn[Cu[Zn[Cd[Cr for *S. melongena* in both growing seasons after treatment with sugarcane pressmud. **Conclusions** This study concluded that application of sugarcane pressmud treatments increased the soil fertility and as a result agronomical performance of *S. melongena*. Therefore, it can be used for the soil amendments in the lower proportion (up to 40 %) to improve the yield of *S. melongena*.

کلمات کلیدی:

Solanum melongena Sugarcane pressmud Soil amendment Heavy metals Rainy and summer season

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