

عنوان مقاله:

Evaluation of foliar application with Nano fertilizer (Super micro plus) in different times on availability and uptake of (some micronutrients and some quality properties of Rice (Oriza sativa L

محل انتشار:

کنگره توسعه همکاری های علمی منطقه ای علوم صنایع غذایی و کشاورزی (سال: 1397)

تعداد صفحات اصل مقاله: 16

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خلاصه مقاله:

A field experiment was conducted in Al – Najaf Al Ashraf Governorate during summer season 2017 to study the effect of foliar application with Nano fertilizer with three levels (0 , 1 and 2) gm L⁻¹ (super micro plus that contains (5% N , 3% P , 3% K , 4.5% Fe , 8% Zn , 6% Ca , 6% Mg , 0.7% Mn , 0.65 % Cu , 0.65% B and 0.1% Mo) and three stages of application at tillering stage , booting stage and flowering stage in Fe , Zn , Cu and Mn availability , uptake in straw , protein and white grains present of rice (Oriza sativa L.) Amber 33 variety . A experiment was conducted in accordance with to RCBD with three replicates. The following results were obtained :1- Superior the level 2g L⁻¹ Nano fertilizer in availability of Iron , cooper & manganese in soil (4.1 & 1.70 & 3.22) mg kg⁻¹ soil respectively . uptake of Iron , zinc , cooper & manganese in straw (0.504 & 0.107 & 0.080 & 0.289) kg h⁻¹ .and protein ,white grains percent (8.20 & 67.97) % respectively . 2- Superior stage of adding Nano fertilizer in flowering stage on manganese availability in soil (2.90) mg kg⁻¹ soil ,and cooper uptake and manganese in straw (0.055 & 0.252) kg h⁻¹ respectively . 3- Superior the interaction between levels of nano fertilizer application and stage of foliar application in level 2gm L⁻¹ in flowering stage in availability of manganese (3.44) mg kg⁻¹ soil . Iron uptake, cooper uptake and manganese (0.529 & 0.082 & 0.298) kg h⁻¹ respectively , and protein present (8.41

کلمات کلیدی:

Nano fertilizer , available and uptake , rice quality properties

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