

## عنوان مقاله:

The impact of pre-treatment with Ca<sup>2+</sup> and nutrition (Chemical and Nano) on postharvest quality and longevity of cut flowers (lilium and roses)

## محل انتشار:

اولین کنفرانس ملی جغرافیا، گردشگری، منابع طبیعی و توسعه پایدار (سال: 1393)

تعداد صفحات اصل مقاله: 10

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## خلاصه مقاله:

Cut flowers with a long vase life are far more desirable than those with a short vase life. In the present study, we tried to determine the effects of Ca<sup>2+</sup>-pretreatment on vase life of Lilium and rose cut flowers under two type of fertilizers (N,P,K supplied as chemical and Nano). Calcium is one of the important elements of cell wall that plays a major role in vase life. Concentrations of N,P,K were 0.7, 2, 4 gl<sup>-1</sup>, and the frequency of fertilization were 3 times at 7, 15 and 21 days before harvest in two forms Nano and chemical, pre harvesting treatment of calcium (0.2 gl<sup>-1</sup> , 2 times at 3 and 1 days before harvest). The experiment was conducted based on completely randomized design and three replications. Pre-harvest fertilization of Ca<sup>2+</sup> is a conventional treatment to improve storage life. Experiments on rose and lilium showed that there were significant effects of pre-treatment Ca<sup>2+</sup>, kind of fertilizer and interaction between two factors on their vase life ( $p < 0.001$ )(table1a,1b). However, fertilizer concentrations showed a detectable effect on it. Considering the results showed that the reactions of rose and lilium were different against pre-treatment Ca<sup>2+</sup> and different kind of fertilizer and their concentrations. but they had limitations in their influence on expanding longevity of cut flowers, especially when they are used together to induce inhibition or change on their action

## کلمات کلیدی:

Fertilizer Type, Ca<sup>2+</sup>-pretreatment, Rose flower, Lilium flower, Vase life, Mineral elements treatment

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