عنوان مقاله:
Herbicidal activity and Chemical constituents of the essential oil of Acroptilon repese (L.) Dc

محل انتشار:
کنفرانس بین المللی توسعه پایدار، راهکارها و چالش‌ها با محوریت کشاورزی، منابع طبیعی، محيط زیست و گردشگری (سال:1393)

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خلاصه مقاله:
Nowadays, a lot of studies have focused on allelopathic potential of plants to find new generation of herbicides, bioherbicides, to overcome some problems caused by using synthetic ones. Acroptilon repese (L.) Dc (Asteraceae) is a perennial herb with erect stems growing to ۰۸ cm in height. It is a wide distributed plant that is native to Magnolia, Western Turkistan, Iran, Turkey and captain Asia and was introduced into America and Canada at the beginning of previous century. In the present work we study the chemical composition of the aerial parts of the plant and herbicidal effects of the oil against some weeds. The hydrodistillated essential oil from aerial parts of A. repese were analyzed by GC-MS. Totally ۶۲ compound were identified. Main component of the oil are: Caryophyllen oxide (۹.۸۹%), β- cubebene (۹.۴۷%), β -Caeyophyllen (۹.۲۱%) α-copaen (۸.۱%) . The results of phytotoxocassay indicated that the essential oil obtained from Acroption repens significantly reduced seed germination of Amaranthus retroflexus and Cardaria draba, two common weed, in a dose dependent manner. On the hand, the essential oil of A. repens inhibited significantly the root growth of A.retroflexus and C. draba seedlings. The oil strongly reduced the shoot growth of A. retroflexus seedlings, as well as.

کلمات کلیدی:
Acroptilon repese, essential oil, herbicidal, Amaranthus retroflexus, Cardaria draba

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اين صفحه به محتوی تاییدیه نمایه سازی مقاله در یاگه استنادی سیویلیکا می‌باشد. در هر لحظه به منظور تایید اصلاح این گواهی می‌توانید وضعیت نتیجه را از طریق لینک فوق به صورت آنلاین کنترل نمایید.