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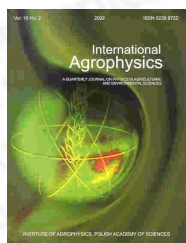
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Influence of pre-sowing red light radiation and nitragine dressing of chickling vetch seeds on the chemical composition of their yield

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abstract The influence of red light radiation and nitragine treatment of five chickling vetch seed cultivars, on basic nutritional component and mineral element contents in their yield, was evaluated in this paper. Both biostimulation methods interacted in a different way towards chickling vetch seeds, causing the stimulation of different seed yield components. Radiation mainly affected the increase in total protein, crude fibre and mineral element (Na and K) levels. Nitragine treatment influenced the increase of calcium and microelement levels such as Zn and Cu. Single radiation of chickling vetch seeds caused an increase in the total protein level of all varieties of seed yields. Both biostimulation methods caused an increase of Fe in seed yield, but Mg content was, in practice, at the same level in the majority of varieties under study.

keywords Lathyrus sativus, radiation, nitragine, total protein, crude fibre