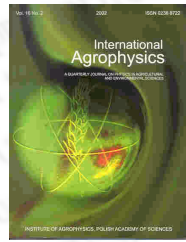




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Effect of application of coal powder and lime on alfalfa growth on copper polluted acidic soil

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abstract The aim of this study was to test the hypothesis that a combination of copper contaminated acid soil with lime and a coal powder decreases copper to a synergetic effect of pH increase and association of Cu²⁺ ions in organic complexes. A two-year-long pot experiment with alfalfa was carried out on pseudopodzolic soil contaminated with four Cu levels in the range 0-900 mg kg⁻¹. The amendments applied were lime, coal powder and a precomposted manure and coal powder. The compost and lime application increased yield and