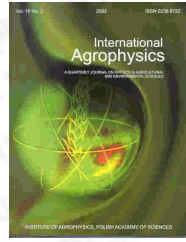




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Influence of electric field on the speed of convective removal of water from wheat grain

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abstract Electric field can change the speed of convective drying since it causes accompanying phenomena in dried materials or changes the heat and mass transfer between the material and the drying medium. These accompanying phenomena generated in the material are electrostriction forces. Electrostriction forces cause deformations inside grain through the compression or tension of particles. The most visible effects of compression and tension of objects should then be observed in laminar and elastic objects. These include wheat grain. Intensification of mass transfer between the water surface and the drying medium in the