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Green nanobiotechnologies: phytosynthesis of metal nanoparticles and their applications

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Influence of bacterization on the pigments of photosynthesis content and plants growth by the action of heavy metals

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Histological study of graft union formation in plum by using light microscopy

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Differences in response of some Tunisian chickpea (*Cicer arietinum* L.) to drought

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Chickpea drought resistance (*Cicer arietinum* L.) under graduated water stress

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Impact of potassium on some physiological and biochemical traits of two common bean cultivars subjected to salinity

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Effect of thermal stress conditions on plant photosynthetic efficiency of *Dactylis glomerata* and *Lolium perenne* varieties

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Photosynthetic productivity and yielding of pear trees grown on different rootstocks and potassium fertilization levels

Bosa K., Jadczyk-Tobjasz E., Kalaji H.M., Majewska M.

Integrated effects of drought and temperature on physiological indices of field *Cucumis sativus* L.

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Piesik D., Tabaka P., Delaney K.J., Wenda-Piesik A., Sendel S., Buszewski B.

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Assessment of the vegetation state of several under-exploited *Agrostis tenuis* – *Festuca rupicola* grasslands

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The altitudinal gradient influence on the parameters of the mountain grasslands

Ionel S., Ghica A., Boldea M.

Photosynthetic efficiency of maize in response to two-spotted spider mites

(*Tetranychus urticae* Koch) feeding and/or soil drought conditions

Czapla A., Kielkiewicz M., Kalaji H.M., Bosa K.

Effect of shading on the efficiency of photosynthetic apparatus of selected lawn varieties of perennial ryegrass (*Lolium perenne* L.).

Dąbrowski P., Pawluśkiewicz B., Kalaji H.M.

Reactions of photosynthetic apparatus of Endive plant to different culture media

Kowalczyk K., Gajc-Wolska J., Kalaji H.M.

The photosynthetic heat tolerance and acclimation assessed by fast chlorophyll *a* fluorescence kinetics in 30 wheat genotypes

Brestič M., Živčák M., Olšovská K., Hauptvogel P.

Analysis of the leaf photosynthetic performance and temperature response in wheat genotypes and *Aegilops*

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Photosynthetic efficiency of maize in response to two-spotted spider mites (*Tetranychus urticae* Koch) feeding and/or soil drought conditions

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Development of valuable and high yielding amaranth through induced mutagenesis

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The resistance breeding to broomrape parasite and other stress conditions in sunflower

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Abdelhamid M.T., Sallam A.A., Khalifa H.E., Mounzer O.H., Alarcon J.J.

Evaluation of interaction effect of salinity stress with nicotinamide on growth, some physiological parameters and yield in faba bean (*Vicia faba* L.) plant

Abdelhamid M.T., Sadak M.Sh., El-Saady A-K.M.

Alleviation of the adverse effects of soil salinity stress by foliar application of silicon on faba bean (*Vicia faba* L.)

Hellal F.A., Abdelhamid M.T., Zeweny R.M., Abo-Basha D.M.

Effect of nitrogen fertilization on spring barley (*Hordeum vulgare* L.) grain yields, NRA and other physiological parameters under drought stress conditions

Slamka P., Krček M.

Biological diversity of wheat, improvement for adaptability under global change and use in organic agriculture (BIOFARM) – A Slovak project on impact of climatic changes in wheat genetic resources

Hauptvogel P., Brestič M., Matušiková I., Švec M.

SESSION II – FOOD, FEED AND BIOENERGY VS. SUSTAINABLE AGRICULTURE

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Kaya Y., Evcı G., Pekcan V., Yilmaz M.I.

Nitrogen deficiency detection and fertiliser variable rate application in cereals using remote sensing technology

Galambošová J., Rataj V., Zemko M.

Designing forest shelter belts to prevent soil erosion

Fātu V., Lupu C.

Innovative olive (*Olea europaea* L.) production systems under mechanical harvesting: Part 1. Cold tolerance evaluation of two widely used olive varieties

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Technology of growing grain

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The effect of supplementary lighting on chosen physical and chemical properties of tomato fruits (*Solanum lycopersicum* L.)

Metera A., Mazur K., Wtulich J., Gajc-Wolska J.

Effect of controlled traffic farming on yield during long term experiment

Rataj V., Galambošová J., Macák M., Vitázková B., Žitňák M., Ďud'ák J., Simoník J.

Diagnosis of the risks posed by pests for spring wheat sown as facultative crop

Wenda-Piesik A., Piesik D., Lemańczyk G., Pańka D.

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Manole T., Ionescu-Mălăncuș I., Mărgărit G.

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Metcalfa pruinosa Say (*Homoptera: Flatidae*) – a new pest of the black currant crops (*Ribes nigrum* L.) in Romania

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Diversity and dominance in the weed flora of cereal crops after the conversion to organic farming and in extensive conventional farming in the habitat in southern Poland

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Geographical and historical spectrum of weed flora of cereal crops after the conversion into organic farming on the example of mountain soils of Southern Poland

Dąbkowska T., Stokłosa A., Puła J.

A long-term evaluation of recycled residual paper pulp in soil improvement applications

Gertsis A.

Influence of PCB mixture (Aroclor1254) on course of hatching and thyroid hormone concentration of new hatched chicken

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An attempt of thermography application for the coat evaluation in selected species of farming fur animals

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Sechman A., Wojcik D., Antos P., Grzegorzewska A., Hrabia A.

Effect of ascorbic acid *in ovo* administration on thyroid hormone concentration in thyroid gland and liver of chicken embryo exposed to hyperthermia during hatching

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Stokłosa A., Madani H.

Influence of microbial preparations and mineral fertilizers on nutrition level of southern chernozem

Chaikovska L., Klyuchenko V., Ovsienko O.

Dynamics role of phenolic acids and total phenolic contents in nickel treated buckwheat (*Fagopyrum esculentum*) plant

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A non-destructive assessment method for sugar beet crop diseases

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Radiocaesium in selected forest and non-forest berries

Červinková, A., Pöschl, M.

Method for species identification of animal components in commercial samples of pet food

Natonek-Wiśniewska M., Krzyściń P.

Content of chlorophyll and carotenoids in dry Dill (*Anethum graveolens* L.) depending on drying method

Wtulich J., Metera A., Mazur K., Gajc-Wolska J.

Characterization of quality and genetic identification of Uzgen rice
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Influence of fertilization system on quality of cucumbers grown in southern Romania

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Influence of controlled atmosphere on the cabbage storage quality

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Chitinases and glucanases in the process of somatic embryogenesis of *Pinus nigra* Arn. and hybrid firs

Fráterová L., Salaj T., Matušíková I., Salaj J.

Micropropagation and adventitious regeneration of *Rubus* spp.

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Method for micro propagation and callus induction in *Mentha piperita* L. for “*in vitro*” biomass production

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Proteomic analysis of somatic embryogenesis in *Zea mays* L.

Jakubeková M., Pret'ová A., Obert B.

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Libiaková G., Latečková M., Ruzič Dj., Cerovič R., Gajdošová A.

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Results of *in vitro* thermotherapy and chemotherapy of apple cultivar Jarka

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