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Research interests: crop physiology, plant abiotic stress, heavy metals, herbicide phytotoxicity, biostimulants, foliar fertilizers

Selected papers

1. Balabanova, D., M. Paunov, V. Goltsev, A. Cuypers, J. Vangronsveld, A. Vassilev, 2016. Photosynthetic performance of the imidazolinone resistant sunflower exposed to single and combined treatment by the herbicide Imazamox and an amino acid extract. *Frontiers in Plant Science*, 7, <https://doi.org/10.3389/fpls.2016.01559>
2. Paunov, M., L. Koleva, A. Vassilev, J. Vangronsveld, V. Goltsev, 2018. Effects of Different Metals on Photosynthesis: Cadmium and Zinc Affect Chlorophyll Fluorescence in Durum Wheat. *Int. J. Mol. Sci.* 2018, 19, 787; doi:10.3390/ijms19030787
3. Balabanova, D., T. Remans, A. Vassilev, A. Cuypers, J. Vangronsveld, 2018. Possible involvement of glutathione S-transferases in imazamox detoxification in an imidazolinone-resistant sunflower hybrid. *J Plant Physiol.*, 221, 62-65. DOI: 10.1016/j.jplph.2017.12.008
4. Cholakova-Bimbalova R, V. Petrov V, A. Vassilev, 2019. Photosynthetic performance of young maize (*Zea mays* L.) plants exposed to chilling stress can be improved by the application of protein hydrolysates. *Acta Agrobotanica*, 72(2):1769. <https://doi.org/10.5586/aa.1769>
5. Balabanova, D.A., T. Remans, A. Cuypers, J. Vangronsveld, A. Vassilev, 2020. Imazamox detoxification and recovery of plants after application of imazamox to an imidazolinone resistant sunflower hybrid. *Biologia Plantarum*, 64, 335-342. DOI: 10.32615/bp.2019.150