# Helena Synkova

List of Publications by Year
in descending order

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| 47 | 1,302 | 361045 | 377514 |
|---|---|---|---|
| papers | citations | 20 h-index | 34 g-index |

| 54 | 54 | 54 | 1502 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cytokinins and Water Stress. Biologia Plantarum, 2000, 43, 321-328. | 1.9 | 137 |
| 2 | Production of reactive oxygen species and development of antioxidative systems during in vitro growth and ex vitro transfer. Biologia Plantarum, 2008, 52, 413-422. | 1.9 | 74 |
| 3 | ACCLIMATION OF PLANTLETS TO EX VITRO CONDITIONS: EFFECTS OF AIR HUMIDITY, IRRADIANCE, CO2 CONCENTRATION AND ABSCISIC ACID (A REVIEW). Acta Horticulturae, 2007, , 29-38. | 0.1 | 64 |
| 4 | Photosynthesis and Activity of Phosphoenolpyruvate carboxylase in Nicotiana tabacum L. Leaves Infected by Potato virus A and Potato virus Y. Photosynthetica, 2003, 41, 357-363. | 0.9 | 59 |
| 5 | Cytokinin-induced activity of antioxidant enzymes in transgenic Pssu-ipt tobacco during plant ontogeny. Biologia Plantarum, 2006, 50, 31-41. | 1.9 | 57 |
| 6 | Acclimation of tobacco plantlets to ex vitro conditions as affected by application of abscisic acid. Journal of Experimental Botany, 1998, 49, 863-869. | 2.4 | 56 |
| 7 | Effects of abscisic acid or benzyladenine on pigment contents, chlorophyll fluorescence, and chloroplast ultrastructure during water stress and after rehydration. Photosynthetica, 2006, 44, 606-614. | 0.9 | 51 |
| 8 | Photosynthesis of Transgenic Pssu-ipt Tobacco. Journal of Plant Physiology, 1999, 155, 173-182. | 1.6 | 47 |
| 9 | Chlorophyll a fluorescence as a tool for a study of the Potato virus Y effects on photosynthesis of nontransgenic and transgenic Pssu-ipt tobacco. Photosynthetica, 2013, 51, 191-201. | 0.9 | 46 |
| 10 | Effect of elevated CO2 concentration on acclimation of tobacco plantlets to ex vitro conditions. Journal of Experimental Botany, 1999, 50, 119-126. | 2.4 | 44 |
| 11 | Transgenic ipt tobacco overproducing cytokinins overaccumulates phenolic compounds during inÂvitro growth. Plant Physiology and Biochemistry, 2006, 44, 526-534. | 2.8 | 44 |
| 12 | Transient expression of Human papillomavirus type 16 L2 epitope fused to N- and C-terminus of coat protein of Potato virus X in plants. Journal of Biosciences, 2012, 37, 125-133. | 0.5 | 40 |
| 13 | Effects of biotic stress caused by Potato virus Y on photosynthesis in ipt transgenic and control Nicotiana tabacum L.. Plant Science, 2006, 171, 607-616. | 1.7 | 38 |
| 14 | Title is missing!. Plant Cell, Tissue and Organ Culture, 2000, 61, 125-133. | 1.2 | 36 |
| 15 | High content of endogenous cytokinins stimulates activity of enzymes and proteins involved in stress response in Nicotiana tabacum. Plant Cell, Tissue and Organ Culture, 2004, 79, 169-179. | 1.2 | 36 |
| 16 | Effect of abscisic acid on photosynthetic parameters during ex vitro transfer of micropropagated tobacco plantlets. Biologia Plantarum, 2009, 53, 11-20. | 1.9 | 36 |
| 17 | Transient expression of HPV16 E7 peptide (aa 44â€“60) and HPV16 L2 peptide (aa 108â€“120) on chimeric potyvirus-like particles using Potato virus X-based vector. Protein Expression and Purification, 2008, 58, 154-161. | 0.6 | 31 |
| 18 | Response to mild water stress in transgenic Pssu-ipt tobacco. Physiologia Plantarum, 2001, 112, 513-523. | 2.6 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Potato transformation by T-DNA Cytokinin synthesis gene. Biologia Plantarum, 1990, 32, 401-406. | 1.9 | 19 |
| 20 | Three-dimensional reconstruction of anomalous chloroplasts in transgenic ipt tobacco. Planta, 2006, 223, 659-671. | 1.6 | 18 |
| 21 | Responses of Tobacco Plantlets to Change of Irradiance During Transfer from in vitro to ex vitro Conditions. Photosynthetica, 2002, 40, 605-614. | 0.9 | 17 |
| 22 | Regulation of phosphoenolpyruvate carboxylase in PVY<sup>NTN</sup>-infected tobacco plants. Biological Chemistry, 2009, 390, 245-251. | 1.2 | 17 |
| 23 | Improvement of ex vitro transfer of tobacco plantlets by addition of abscisic acid to the last subculture. Biologia Plantarum, 2009, 53, 617-624. | 1.9 | 17 |
| 24 | Tobacco susceptibility to Potato virus YNTN infection is affected by grafting and endogenous cytokinin content. Plant Science, 2015, 235, 25-36. | 1.7 | 17 |
| 25 | Photosynthetic Pigments and Gas Exchange of in vitro Grown Tobacco Plants as Affected by CO2 Supply. Biologia Plantarum, 1999, 42, 463-468. | 1.9 | 15 |
| 26 | Effect of Potato Virus Y on the NADP-Malic Enzyme from Nicotiana tabacum L.: mRNA, Expressed Protein and Activity. International Journal of Molecular Sciences, 2009, 10, 3583-3598. | 1.8 | 15 |
| 27 | Merle phenotypes in dogs â€“ SILV SINE insertions from Mc to Mh. PLoS ONE, 2018, 13, e0198536. | 1.1 | 14 |
| 28 | High level of endogenous cytokinins in transgenic potato plantlets limits photosynthesis. Biologia Plantarum, 1993, 35, 191. | 1.9 | 13 |
| 29 | The impact of trans-zeatin O-glucosyltransferase gene over-expression in tobacco on pigment content and gas exchange. Biologia Plantarum, 2008, 52, 49-58. | 1.9 | 12 |
| 30 | The Enzyme Kinetics of the NADP-Malic Enzyme from Tobacco Leaves. Collection of Czechoslovak Chemical Communications, 2007, 72, 1420-1434. | 1.0 | 12 |
| 31 | In vitro precultivation of tobacco affects the response of antioxidative enzymes to ex vitro acclimation. Journal of Plant Physiology, 2002, 159, 781-789. | 1.6 | 11 |
| 32 | Effects of heat treatment on metabolism of tobacco plants infected with Potato virus Y. Plant Biology, 2021, 23, 131-141. | 1.8 | 11 |
| 33 | Plant Origin, but Not Phylogeny, Drive Species Ecophysiological Response to Projected Climate. Frontiers in Plant Science, 2020, 11, 400. | 1.7 | 10 |
| 34 | Effect of elevated CO2 concentration on acclimation of tobacco plantlets to ex vitro conditions. , 0, . | | 10 |
| 35 | DNA vaccines based on chimeric potyvirus-like particles carrying HPV16 E7 peptide (aa 44-60). Oncology Reports, 2005, 14, 1045-53. | 1.2 | 10 |
| 36 | Changes in Chloroplast Ultrastructure in Pssu-ipt Tobacco During Plant Ontogeny. Photosynthetica, 2003, 41, 117-126. | 0.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The Influence of Potato Virus Y Infection on the Ultrastructure of Pssuâ€ipt Transgenic Tobacco. International Journal of Plant Sciences, 2005, 166, 713-721. | 0.6 | 9 |
| 38 | Comparison of chlorophyll fluorescence kinetics and photochemical activities of isolated chloroplasts in genetic analysis of Lycopersicon esculentum Mill. hybrids. Photosynthetica, 1997, 34, 427-438. | 0.9 | 8 |
| 39 | Photosynthesis in different types of transgenic tobacco plants with elevated cytokinin content. Biologia Plantarum, 1997, 39, 81-89. | 1.9 | 7 |
| 40 | Expression of a recombinant Human papillomavirus 16 E6GT oncoprotein fused to N- and C-termini of Potato virus X coat protein in Nicotiana benthamiana. Plant Cell, Tissue and Organ Culture, 2013, 113, 81-90. | 1.2 | 6 |
| 41 | Limitations on photosynthesis under environment-simulating culturein vitro. Biologia Plantarum, 1995, 37, 35. | 1.9 | 5 |
| 42 | Isolation and characterization of paracrystalline structures from transgenic Pssu-ipt tobacco. Photosynthetica, 2005, 43, 509-517. | 0.9 | 4 |
| 43 | The activity and isoforms of NADP-malic enzyme in Nicotiana benthamiana plants under biotic stress. General Physiology and Biophysics, 2007, 26, 281-9. | 0.4 | 4 |
| 44 | Photosynthesis of Transgenic Tobacco Plants. , 1995, , 4411-4414. | | 3 |
| 45 | Photosynthesis in Transgenic Pssu-ipt Tobacco Plants as Affected by Water Stress. , 1995, , 3525-3528. | | 3 |
| 46 | DNA vaccines based on chimeric potyvirus-like particles carrying HPV16 E7 peptide (aa 44-60). Oncology Reports, 0, , . | 1.2 | 3 |
| 47 | A CORRECTION HAS BEEN PUBLISHED:Casein hydrolysate as a sole source of nitrogen for in vitro grown tobacco plantlets. Biologia Plantarum, 2016, 60, 635-644. | 1.9 | 2 |