

Jana Oklestkova

List of Publications by Year in descending order

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66
papers

1,915
citations

218592

26
h-index

276775

41
g-index

69
all docs

69
docs citations

69
times ranked

1977
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A mitochondrial ADXRâ€“ADXâ€“P450 electron transport chain is essential for maternal gametophytic control of embryogenesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 6 |
| 2 | Characterization of Endogenous Levels of Brassinosteroids and Related Genes in Grapevines. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1827. | 1.8 | 3 |
| 3 | Deacclimation-Induced Changes of Photosynthetic Efficiency, Brassinosteroid Homeostasis and BRI1 Expression in Winter Oilseed Rape (<i>Brassica napus</i> L.)â€”Relation to Frost Tolerance. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5224. | 1.8 | 4 |
| 4 | Naturally Occurring Ecdysteroids in <i>Triticum aestivum</i> L. and Evaluation of Fenarimol as a Potential Inhibitor of Their Biosynthesis in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2855. | 1.8 | 1 |
| 5 | Analytical Methods for the Determination of Neuroactive Steroids. <i>Biomolecules</i> , 2021, 11, 553. | 1.8 | 13 |
| 6 | Local brassinosteroid biosynthesis enables optimal root growth. <i>Nature Plants</i> , 2021, 7, 619-632. | 4.7 | 58 |
| 7 | Molecular Dynamics of Chloroplast Membranes Isolated from Wild-Type Barley and a Brassinosteroid-Deficient Mutant Acclimated to Low and High Temperatures. <i>Biomolecules</i> , 2021, 11, 27. | 1.8 | 10 |
| 8 | Insight into Details of the Photosynthetic Light Reactions and Selected Metabolic Changes in Tomato Seedlings Growing under Various Light Spectra. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11517. | 1.8 | 3 |
| 9 | Synthesis and Biological Activity of Brassinosteroid Analogues with a Nitrogen-Containing Side Chain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 155. | 1.8 | 5 |
| 10 | The role of phytohormones in plant-viroid interactions. , 2020, , 321-342. | | 1 |
| 11 | Involvement of homocastasterone, salicylic and abscisic acids in the regulation of drought and freezing tolerance in doubled haploid lines of winter barley. <i>Plant Growth Regulation</i> , 2020, 90, 173-188. | 1.8 | 14 |
| 12 | Molecular mechanisms of plant steroids and study of their interaction with nuclear receptors in prostate cancer cells. <i>Food and Chemical Toxicology</i> , 2020, 137, 111164. | 1.8 | 4 |
| 13 | New lupane bidesmosides exhibiting strong cytotoxic activities in vitro. <i>Bioorganic Chemistry</i> , 2020, 100, 103868. | 2.0 | 9 |
| 14 | Early Brassica Crops Responses to Salinity Stress: A Comparative Analysis Between Chinese Cabbage, White Cabbage, and Kale. <i>Frontiers in Plant Science</i> , 2019, 10, 450. | 1.7 | 54 |
| 15 | Changes in content of steroid regulators during cold hardening of winter wheat - Steroid physiological/biochemical activity and impact on frost tolerance. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 215-228. | 2.8 | 21 |
| 16 | The role of chloroplasts in the oxidative stress that is induced by zearalenone in wheat plants â€“ The functions of 24-epibrassinolide and selenium in the protective mechanisms. <i>Plant Physiology and Biochemistry</i> , 2019, 137, 84-92. | 2.8 | 19 |
| 17 | Mutations in the HvDWARF, HvCPD and HvBRI1 Genes-Involved in Brassinosteroid Biosynthesis/Signalling: Altered Photosynthetic Efficiency, Hormonal Homeostasis and Tolerance to High/Low Temperatures in Barley. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1062-1081. | 2.8 | 31 |
| 18 | Brassinosteroids Induce Strong, Dose-Dependent Inhibition of Etiolated Pea Seedling Growth Correlated with Ethylene Production. <i>Biomolecules</i> , 2019, 9, 849. | 1.8 | 7 |

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|----|---|-----|-----------|
| 19 | Effects of Potato Spindle Tuber Viroid Infection on Phytohormone and Antioxidant Responses in Symptomless <i>Solanum laxum</i> Plants. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 325-332. | 2.8 | 10 |
| 20 | Organ-specific differences in endogenous phytohormone and antioxidative responses in potato upon PSTVd infection. <i>Journal of Plant Physiology</i> , 2019, 232, 107-114. | 1.6 | 7 |
| 21 | The novel brassinosteroid analog BR4848 inhibits angiogenesis in human endothelial cells and induces apoptosis in human cancer cells in vitro. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 178, 263-271. | 1.2 | 8 |
| 22 | Antibody-mediated modulation of cytokinins in tobacco: organ-specific changes in cytokinin homeostasis. <i>Journal of Experimental Botany</i> , 2018, 69, 441-454. | 2.4 | 8 |
| 23 | 24-Epibrassinolide as a Modifier of Antioxidant Activities and Membrane Properties of Wheat Cells in Zearalenone Stress Conditions. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 1085-1098. | 2.8 | 11 |
| 24 | Biochemical and Physicochemical Background of Mammalian Androgen Activity in Winter Wheat Exposed to Low Temperature. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 199-219. | 2.8 | 10 |
| 25 | Crosstalk between Brassinosteroids and Ethylene during Plant Growth and under Abiotic Stress Conditions. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3283. | 1.8 | 58 |
| 26 | Production and Role of Hormones During Interaction of <i>Fusarium</i> Species With Maize (<i>Zea mays</i> L.) Seedlings. <i>Frontiers in Plant Science</i> , 2018, 9, 1936. | 1.7 | 30 |
| 27 | Immunoaffinity chromatography combined with tandem mass spectrometry: A new tool for the selective capture and analysis of brassinosteroid plant hormones. <i>Talanta</i> , 2017, 170, 432-440. | 2.9 | 37 |
| 28 | Microscale magnetic microparticle-based immunopurification of cytokinins from <i>Arabidopsis</i> root apex. <i>Plant Journal</i> , 2017, 89, 1065-1075. | 2.8 | 12 |
| 29 | Synthesis of novel aryl brassinosteroids through alkene cross-metathesis and preliminary biological study. <i>Steroids</i> , 2017, 127, 46-55. | 0.8 | 14 |
| 30 | A Reverse-Genetics Mutational Analysis of the Barley HvDWARF Gene Results in Identification of a Series of Alleles and Mutants with Short Stature of Various Degree and Disturbance in BR Biosynthesis Allowing a New Insight into the Process. <i>International Journal of Molecular Sciences</i> , 2016, 17, 600. | 1.8 | 29 |
| 31 | Barley Brassinosteroid Mutants Provide an Insight into Phytohormonal Homeostasis in Plant Reaction to Drought Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 1824. | 1.7 | 55 |
| 32 | Synthesis and Cytotoxicity of 28 α -Homothiolupanes and 28 α -Homothiolupane Saponins. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 373-383. | 1.2 | 7 |
| 33 | The determination of 22 natural brassinosteroids in a minute sample of plant tissue by UHPLC-ESI-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6799-6812. | 1.9 | 55 |
| 34 | Design, synthesis and biological activities of new brassinosteroid analogues with a phenyl group in the side chain. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8691-8701. | 1.5 | 21 |
| 35 | Synthesis of 28 α -homoselenolupanes and 28 α -homoselenolupane saponins. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10238-10248. | 1.5 | 25 |
| 36 | Local and systemic hormonal responses in pepper leaves during compatible and incompatible pepper-tobamovirus interactions. <i>Plant Physiology and Biochemistry</i> , 2016, 109, 355-364. | 2.8 | 44 |

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|----|---|-----|-----------|
| 37 | Brassinosteroids increase winter survival of winter rye (<i>Secale cereale</i> L.) by affecting photosynthetic capacity and carbohydrate metabolism during the cold acclimation process. <i>Plant Growth Regulation</i> , 2016, 80, 127-135. | 1.8 | 36 |
| 38 | Synthesis of S-(28a-homobetulin-28a-yl) thiophosphate, thiophosphonate, and thiophosphinate. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 1240-1244. | 0.8 | 3 |
| 39 | Influence of intramolecular hydrogen bonds on regioselectivity of glycosylation. Synthesis of lupane-type saponins bearing the OSW-1 saponin disaccharide unit and its isomers. <i>Carbohydrate Research</i> , 2016, 423, 49-69. | 1.1 | 15 |
| 40 | Structure activity relationship studies on cytotoxicity and the effects on steroid receptors of AB-functionalized cholestanes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 159, 154-169. | 1.2 | 28 |
| 41 | 2,4-D and IAA Amino Acid Conjugates Show Distinct Metabolism in Arabidopsis. <i>PLoS ONE</i> , 2016, 11, e0159269. | 1.1 | 31 |
| 42 | 24-Epibrassinolide Promotes Carbohydrates Accumulation in Crowns of Perennial Ryegrass during Cold Acclimation by Regulation of Gene Expression and Enzyme Activities which Results in Increased Frost Tolerance. <i>Procedia Environmental Sciences</i> , 2015, 29, 234-235. | 1.3 | 5 |
| 43 | Synthesis and biological activity of new homolupanes and homolupane saponins. <i>Tetrahedron</i> , 2015, 71, 2004-2012. | 1.0 | 21 |
| 44 | Disturbances in production of progesterone and their implications in plant studies. <i>Steroids</i> , 2015, 96, 153-163. | 0.8 | 19 |
| 45 | Brassinosteroids: synthesis and biological activities. <i>Phytochemistry Reviews</i> , 2015, 14, 1053-1072. | 3.1 | 66 |
| 46 | Induced Variations in Brassinosteroid Genes Define Barley Height and Sturdiness, and Expand the Green Revolution Genetic Toolkit. <i>Plant Physiology</i> , 2014, 166, 1912-1927. | 2.3 | 121 |
| 47 | Synthesis of Lupane-Type Saponins Containing an Unusual Dopyranoside Fragment as Potent Cytotoxic Agents. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4089-4098. | 1.2 | 12 |
| 48 | Synthesis and structure-activity relationship study of cytotoxic lupane-type 3-O-monodesmosidic saponins with an extended C-28 side chain. <i>Tetrahedron</i> , 2014, 70, 2717-2730. | 1.0 | 28 |
| 49 | Biological activities of new monohydroxylated brassinosteroid analogues with a carboxylic group in the side chain. <i>Steroids</i> , 2014, 85, 58-64. | 0.8 | 20 |
| 50 | Endogenous progesterone and its cellular binding sites in wheat exposed to drought stress. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 138, 384-394. | 1.2 | 23 |
| 51 | Synthesis and cytotoxic activities of estrone and estradiol cis-dichloroplatinum(II) complexes. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6969-6978. | 1.4 | 35 |
| 52 | Mechanisms of natural brassinosteroid-induced apoptosis of prostate cancer cells. <i>Food and Chemical Toxicology</i> , 2012, 50, 4068-4076. | 1.8 | 45 |
| 53 | Synthesis and Biological Activity of 22-Deoxy-23-oxa Analogues of Saponin OSW-1. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 3298-3305. | 2.9 | 24 |
| 54 | Physiological effects and transport of 24-epibrassinolide in heat-stressed barley. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 1249-1259. | 1.0 | 67 |

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|----|--|-----|-----------|
| 55 | Endogenous brassinosteroids in wheat treated with 24-epibrassinolide. <i>Biologia Plantarum</i> , 2010, 54, 477-482. | 1.9 | 37 |
| 56 | Brassinosteroids cause cell cycle arrest and apoptosis of human breast cancer cells. <i>Chemico-Biological Interactions</i> , 2010, 188, 487-496. | 1.7 | 70 |
| 57 | Role of 24-epibrassinolide in Wheat Production: Physiological Effects and Uptake. <i>Journal of Agronomy and Crop Science</i> , 2010, 196, 311-321. | 1.7 | 76 |
| 58 | The synthesis of androstane brassinosteroid analogues with \pm -azido acid ester groups in position 17 β . <i>Steroids</i> , 2010, 75, 1005-1010. | 0.8 | 4 |
| 59 | Synthesis of lupane-type saponins bearing mannosyl and 3,6-branched trimannosyl residues and their evaluation as anticancer agents. <i>Carbohydrate Research</i> , 2008, 343, 995-1003. | 1.1 | 65 |
| 60 | Anticancer and antiproliferative activity of natural brassinosteroids. <i>Phytochemistry</i> , 2008, 69, 418-426. | 1.4 | 152 |
| 61 | Platinum(II) complexes with steroidal esters of L-methionine and L-histidine: Synthesis, characterization and cytotoxic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 3704-3713. | 1.4 | 18 |
| 62 | Brassinosteroids: Synthesis and Activity of Some Fluoro Analogues. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 3979-3984. | 2.9 | 19 |
| 63 | New Analogues of the Potent Cytotoxic Saponin OSW-1. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 3667-3673. | 2.9 | 45 |
| 64 | New Techniques for the Estimation of Naturally Occurring Brassinosteroids. <i>Journal of Plant Growth Regulation</i> , 2007, 26, 1-14. | 2.8 | 74 |
| 65 | Batch immunoextraction method for efficient purification of aromatic cytokinins. <i>Journal of Chromatography A</i> , 2005, 1100, 116-125. | 1.8 | 28 |
| 66 | Syntheses of new androstane brassinosteroids with 17 β -ester groups α -butyrates, heptafluorobutyrate, and laurates. <i>Steroids</i> , 2005, 70, 755-762. | 0.8 | 23 |