# Petr Tarkowski

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6023639/publications.pdf

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|---|---|---|---|
| 73 papers | 4,882 citations | 172207 29 h-index | 95083 68 g-index |
| 75 all docs | 75 docs citations | 75 times ranked | 5281 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Elevated CO2 Improves the Physiology but Not the Final Yield in Spring Wheat Genotypes Subjected to Heat and Drought Stress During Anthesis. Frontiers in Plant Science, 2022, 13, 824476. | 1.7 | 16 |
| 2 | Minerals, phenolics, and biological activity of wild edible mushroom, Morchella steppicola Zerova. Natural Product Research, 2022, , 1-5. | 1.0 | 5 |
| 3 | Exploring New Sources of Bioactive Phenolic Compounds from Western Balkan Mountains. Plants, 2022, 11, 1002. | 1.6 | 1 |
| 4 | Influence of Climate-Related Environmental Stresses on Economically Important Essential Oils of Mediterranean Salvia sp.. Frontiers in Plant Science, 2022, 13, . | 1.7 | 15 |
| 5 | Antiviral Activity of Selected Lamiaceae Essential Oils and Their Monoterpenes Against SARS-Cov-2. Frontiers in Pharmacology, 2022, 13, 893634. | 1.6 | 21 |
| 6 | Exogenous melatonin ameliorates ionizing radiation-induced damage by modulating growth, osmotic adjustment and photosynthetic capacity in wheat seedlings. Plant Physiology and Biochemistry, 2022, 187, 67-76. | 2.8 | 8 |
| 7 | Occurrence, Interconversion, and Perception of Topolins in Poplar. , 2021, , 31-38. | | 0 |
| 8 | Phenolic Compounds and Biological Activity of Selected Mentha Species. Plants, 2021, 10, 550. | 1.6 | 58 |
| 9 | Rootâ€“shoot communication in tomato plants: cytokinin as a signal molecule modulating leaf photosynthetic activity. Journal of Experimental Botany, 2020, 71, 247-257. | 2.4 | 32 |
| 10 | Characterization of five CHASE-containing histidine kinase receptors from Populusâ€‰Ã—â€‰canadensis cv. Robusta sensing isoprenoid and aromatic cytokinins. Planta, 2020, 251, 1. | 1.6 | 92 |
| 11 | Phytochemical variability of selected basil genotypes. Industrial Crops and Products, 2020, 157, 112910. | 2.5 | 29 |
| 12 | Strigolactones inhibit auxin feedback on PIN-dependent auxin transport canalization. Nature Communications, 2020, 11, 3508. | 5.8 | 51 |
| 13 | Which Seed Properties Determine the Preferences of Carabid Beetle Seed Predators?. Insects, 2020, 11, 757. | 1.0 | 27 |
| 14 | In Vitro Assessment of Kurdish Rice Genotypes in Response to PEG-Induced Drought Stress. Applied Sciences (Switzerland), 2020, 10, 4471. | 1.3 | 6 |
| 15 | Analytical methods in strigolactone research. Plant Methods, 2020, 16, 76. | 1.9 | 17 |
| 16 | Effect of N-acetyl-L-cysteine (NAC) on soluble sugar and polyamine content in wheat seedlings exposed to heavy metal stress (Cd, Hg and Pb). Botanica Serbica, 2020, 44, 191-201. | 0.4 | 10 |
| 17 | Plant Biotechnology: Green for Good IV. New Biotechnology, 2019, 48, iii. | 2.4 | 0 |
| 18 | polyamine uptake transporter 2 (put2) and decaying seeds enhance phyA-mediated germination by overcoming PIF1 repression of germination. PLoS Genetics, 2019, 15, e1008292. | 1.5 | 11 |

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|---|---|---|---|
| 19 | Green spathe of peace lily (Spathiphyllum wallisii): An assimilate source for developing fruit. South African Journal of Botany, 2019, 124, 54-62. | 1.2 | 4 |
| 20 | Intralaboratory comparison of analytical methods for quantification of major phytocannabinoids. Analytical and Bioanalytical Chemistry, 2019, 411, 3069-3079. | 1.9 | 18 |
| 21 | Occurrence and biosynthesis of cytokinins in poplar. Planta, 2019, 250, 229-244. | 1.6 | 12 |
| 22 | Antifungal activity of the volatiles of Agathosma betulina and Coleonema album commercial essential oil and their effect on the morphology of fungal strains Trichophyton rubrum and T. mentagrophytes. South African Journal of Botany, 2019, 122, 492-497. | 1.2 | 11 |
| 23 | Stability of strigolactone analog GR24 toward nucleophiles. Pest Management Science, 2018, 74, 896-904. | 1.7 | 24 |
| 24 | Quantitative Analysis of Ingenol in Euphorbia species via Validated Isotope Dilution Ultraâ€high Performance Liquid Chromatography Tandem Mass Spectrometry. Phytochemical Analysis, 2018, 29, 23-29. | 1.2 | 8 |
| 25 | Media composition affects seed dormancy, apical dominance and phenolic profile of Knautia sarajevensis (Dipsacaceae), Bosnian endemic. Acta Botanica Croatica, 2018, 77, 70-79. | 0.3 | 3 |
| 26 | Modification of Barley Plant Productivity Through Regulation of Cytokinin Content by Reverse-Genetics Approaches. Frontiers in Plant Science, 2018, 9, 1676. | 1.7 | 79 |
| 27 | Regulation of growth, nutritive, phytochemical and antioxidant potential of cultivated Drimiopsis maculata in response to biostimulant (vermicompost leachate, VCL) application. Plant Growth Regulation, 2018, 86, 433-444. | 1.8 | 8 |
| 28 | Silicon promotes cytokinin biosynthesis and delays senescence in Arabidopsis and Sorghum. Plant, Cell and Environment, 2017, 40, 1189-1196. | 2.8 | 101 |
| 29 | Antifungal and antioxidant activities of Coleonema album and C. pulchellum against skin diseases. Pharmaceutical Biology, 2017, 55, 1249-1255. | 1.3 | 6 |
| 30 | The effect of cytokinins on growth, phenolics, antioxidant and antimicrobial potential in liquid agitated shoot cultures of Knautia sarajevensis. Plant Cell, Tissue and Organ Culture, 2017, 131, 347-357. | 1.2 | 16 |
| 31 | Variation in Phenolic Composition of Knautia arvensis in Correlation with Geographic Area and Plant Organ. Natural Product Communications, 2017, 12, 1934578X1701200. | 0.2 | 2 |
| 32 | Environmental Factors do not Affect the Phenolic Profile of Hypericum perforatum Growing Wild in Bosnia and Herzegovina. Natural Product Communications, 2017, 12, 1934578X1701200. | 0.2 | 2 |
| 33 | Determination of Mineral Constituents, Phytochemicals and Antioxidant Qualities of Cleome gynandra, Compared to Brassica oleracea and Beta vulgaris. Frontiers in Chemistry, 2017, 5, 128. | 1.8 | 37 |
| 34 | Variation in Phenolic Composition of Knautia arvensis in Correlation with Geographic Area and Plant Organ. Natural Product Communications, 2017, 12, 545-548. | 0.2 | 2 |
| 35 | Characterisation of phenolics and other quality parameters of different types of honey. Czech Journal of Food Sciences, 2016, 34, 244-253. | 0.6 | 31 |
| 36 | CLAUSA is a MYB Transcription Factor that Promotes Leaf Differentiation by Attenuating Cytokinin Signaling. Plant Cell, 2016, 28, tpc.00211.2016. | 3.1 | 40 |

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|---|---|---|---|
| 37 | SPINDLY inhibits class I TCP proteolysis to promote sensitivity to cytokinin. Plant Physiology, 2016, 171, pp.00343.2016. | 2.3 | 49 |
| 38 | The use of tomato aminoaldehyde dehydrogenase 1 for the detection of aldehydes in fruit distillates. New Biotechnology, 2016, 33, 666-675. | 2.4 | 3 |
| 39 | Comparison of Nutrient Content in Fruit of Commercial Cultivars of Eggplant (Solanum melongena) Tj ETQq1 1 0.784314 rgBT /Overl | 0.6 | 14 |
| 40 | PHABULOSA Controls the Quiescent Center-Independent Root Meristem Activities in Arabidopsis thaliana. PLoS Genetics, 2015, 11, e1004973. | 1.5 | 35 |
| 41 | Antioxidant activity of natural and modified phenolic extracts from Satureja montana L.. Industrial Crops and Products, 2015, 76, 1094-1099. | 2.5 | 22 |
| 42 | Strigolactones: occurrence, structure, and biological activity in the rhizosphere. Phytochemistry Reviews, 2015, 14, 691-711. | 3.1 | 59 |
| 43 | Role of <scp>LONELY GUY</scp> genes in indeterminate nodulation on Medicago truncatula. New Phytologist, 2014, 202, 582-593. | 3.5 | 81 |
| 44 | Threats and opportunities of plant pathogenic bacteria. Biotechnology Advances, 2014, 32, 215-229. | 6.0 | 34 |
| 45 | Quo vadis plant hormone analysis?. Planta, 2014, 240, 55-76. | 1.6 | 72 |
| 46 | Phenyl-Adenine, Identified in aLIGHT-DEPENDENT SHORT HYPOCOTYLS4-Assisted Chemical Screen, Is a Potent Compound for Shoot Regeneration through the Inhibition of CYTOKININ OXIDASE/DEHYDROGENASE Activity Â Â. Plant Physiology, 2013, 161, 1229-1241. | 2.3 | 26 |
| 47 | Spatiotemporal Regulation of Lateral Root Organogenesis in Arabidopsis by Cytokinin. Plant Cell, 2012, 24, 3967-3981. | 3.1 | 162 |
| 48 | Analysis of cytokinin nucleotides by capillary zone electrophoresis with diode array and mass spectrometric detection in a recombinant enzyme in vitro reaction. Analytica Chimica Acta, 2012, 751, 176-181. | 2.6 | 7 |
| 49 | An Improved in Vivo Deuterium Labeling Method for Measuring the Biosynthetic Rate of Cytokinins. Molecules, 2010, 15, 9214-9229. | 1.7 | 6 |
| 50 | Rhodococcus fascians Impacts Plant Development Through the Dynamic Fas-Mediated Production of a Cytokinin Mix. Molecular Plant-Microbe Interactions, 2010, 23, 1164-1174. | 1.4 | 101 |
| 51 | Tandem mass spectrometry identification and LCâ€“MS quantification of intact cytokinin nucleotides in K-562 human leukemia cells. Analytical and Bioanalytical Chemistry, 2010, 398, 2071-2080. | 1.9 | 16 |
| 52 | Analysis of 2-methylthio-derivatives of isoprenoid cytokinins by liquid chromatographyâ€“tandem mass spectrometry. Analytica Chimica Acta, 2010, 680, 86-91. | 2.6 | 29 |
| 53 | Cytokinin Regulation of Auxin Synthesis in Arabidopsis Involves a Homeostatic Feedback Loop Regulated via Auxin and Cytokinin Signal Transduction Â. Plant Cell, 2010, 22, 2956-2969. | 3.1 | 247 |
| 54 | Modelling and experimental analysis of hormonal crosstalk in Arabidopsis. Molecular Systems Biology, 2010, 6, 373. | 3.2 | 64 |

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|---|---|---|---|
| 55 | Identification ofRhodococcus fascianscytokinins and their modus operandi to reshape the plant. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 929-934. | 3.3 | 193 |
| 56 | Analytical methods for cytokinins. TrAC - Trends in Analytical Chemistry, 2009, 28, 323-335. | 5.8 | 58 |
| 57 | Spatial and temporal changes in endogenous cytokinins in developing pea roots. Planta, 2008, 227, 1279-1289. | 1.6 | 28 |
| 58 | Metabolism of plant hormones cytokinins and their function in signaling, cell differentiation and plant development. Studies in Natural Products Chemistry, 2008, , 203-264. | 0.8 | 13 |
| 59 | Cytokinin signaling regulates cambial development in poplar. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20032-20037. | 3.3 | 245 |
| 60 | Cytokinins are central regulators of cambial activity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20027-20031. | 3.3 | 367 |
| 61 | Inhibition of plant amine oxidases by a novel series of diamine derivatives. Biochimie, 2007, 89, 135-144. | 1.3 | 15 |
| 62 | Cytokinins in the perianth, carpels, and developing fruit of Helleborus niger L.. Journal of Experimental Botany, 2006, 57, 2237-2247. | 2.4 | 24 |
| 63 | Probing cytokinin homeostasis in Arabidopsis thaliana by constitutively overexpressing two forms of the maize cytokinin oxidase/dehydrogenase 1 gene. Plant Science, 2006, 171, 114-122. | 1.7 | 10 |
| 64 | The POLARIS Peptide of Arabidopsis Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. Plant Cell, 2006, 18, 3058-3072. | 3.1 | 146 |
| 65 | Roles of Arabidopsis ATP/ADP isopentenyltransferases and tRNA isopentenyltransferases in cytokinin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16598-16603. | 3.3 | 485 |
| 66 | hca: an Arabidopsis mutant exhibiting unusual cambial activity and altered vascular patterning. Plant Journal, 2005, 44, 271-289. | 2.8 | 41 |
| 67 | Arabidopsis KNOXI Proteins Activate Cytokinin Biosynthesis. Current Biology, 2005, 15, 1566-1571. | 1.8 | 474 |
| 68 | Auxin regulation of cytokinin biosynthesis in Arabidopsis thaliana: A factor of potential importance for auxin-cytokinin-regulated development. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8039-8044. | 3.3 | 497 |
| 69 | Derivatization for LC-Electrospray Ionization-MS:Â A Tool for Improving Reversed-Phase Separation and ESI Responses of Bases, Ribosides, and Intact Nucleotides. Analytical Chemistry, 2004, 76, 2869-2877. | 3.2 | 89 |
| 70 | Quantitative analysis of cytokinins in plants by liquid chromatographyâ€“single-quadrupole mass spectrometry. Analytica Chimica Acta, 2003, 480, 207-218. | 2.6 | 146 |
| 71 | Identification of new aromatic cytokinins in Arabidopsis thaliana and Populus â€ƒÃ—â€ƒcanadensis leaves by LC-(+)ESI-MS and capillary liquid chromatography/frit-fast atom bombardment mass spectrometry. Physiologia Plantarum, 2003, 117, 579-590. | 2.6 | 83 |
| 72 | The Arabidopsis AtIPT8/PGA22 Gene Encodes an Isopentenyl Transferase That Is Involved in De Novo Cytokinin Biosynthesis. Plant Physiology, 2003, 131, 167-176. | 2.3 | 119 |

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|---|---|---|---|
| 73 | Determination of the first dissociation constant of 6-benzylaminopurine. Analytica Chimica Acta, 2000, 421, 221-229. | 2.6 | 19 |