

# Piotr Kachlicki

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,671  
citations

304743

22  
h-index

289244

40  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2521  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Secondary Metabolites in the Green Synthesis of Metallic Nanoparticles. <i>Materials</i> , 2018, 11, 940.  | 2.9 | 312       |
| 2  | Structural Characterization of Flavonoid Glycoconjugates and Their Derivatives with Mass Spectrometric Techniques. <i>Molecules</i> , 2016, 21, 1494.  | 3.8 | 115       |
| 3  | Antioxidant activity and phenolic content in three lupin species. <i>Journal of Food Composition and Analysis</i> , 2012, 25, 190-197.   | 3.9 | 109       |
| 4  | Drought-related secondary metabolites of barley ( <i>Hordeum vulgare</i> L.) leaves and their metabolomic quantitative trait loci. <i>Plant Journal</i> , 2017, 89, 898-913.   | 5.7 | 83        |
| 5  | Analytical Methods for Detection of Plant Metabolomes Changes in Response to Biotic and Abiotic Stresses. <i>International Journal of Molecular Sciences</i> , 2019, 20, 379.  | 4.1 | 78        |
| 6  | Structural analysis and profiling of phenolic secondary metabolites of Mexican lupine species using LC-MS techniques. <i>Phytochemistry</i> , 2013, 92, 71-86.   | 2.9 | 69        |
| 7  | Changes in the profile of flavonoid accumulation in <i>Medicago truncatula</i> leaves during infection with fungal pathogen <i>Phoma medicaginis</i> . <i>Plant Physiology and Biochemistry</i> , 2009, 47, 847-853.   | 5.8 | 62        |
| 8  | Chemical characterization and <i>in vivo</i> antioxidant activity of parsley ( <i>Petroselinum</i> )   | 4.6 | 54        |
| 9  | Uncovering the Phytochemical Basis and the Mechanism of Plant Extract-Mediated Eco-Friendly Synthesis of Silver Nanoparticles Using Ultra-Performance Liquid Chromatography Coupled with a Photodiode Array and High-Resolution Mass Spectrometry. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 562-571. | 6.7 | 52        |
| 10 | Comparison of bioactive compounds content in leaf extracts of <i>Passiflora incarnata</i> , <i>P. caerulea</i> and <i>P. alata</i> and <i>in vitro</i> cytotoxic potential on leukemia cell lines. <i>Revista Brasileira De Farmacognosia</i> , 2018, 28, 179-191.   | 1.4 | 51        |
| 11 | Diversity of Pea-Associated <i>F. proliferatum</i> and <i>F. verticillioides</i> Populations Revealed by FUM1 Sequence Analysis and Fumonisin Biosynthesis. <i>Toxins</i> , 2013, 5, 488-503.  | 3.4 | 47        |
| 12 | Differentiation of isomeric malonylated flavonoid glyconjugates in plant extracts with UPLC-ESI/MS/MS. <i>Phytochemical Analysis</i> , 2008, 19, 444-452.  | 2.4 | 45        |
| 13 | Profiling isoflavone conjugates in root extracts of lupine species with LC/ESI/MSn systems. <i>Journal of Mass Spectrometry</i> , 2005, 40, 1088-1103.   | 1.6 | 44        |
| 14 | Combined mass spectrometric and chromatographic methods for in-depth analysis of phenolic secondary metabolites in barley leaves. <i>Journal of Mass Spectrometry</i> , 2015, 50, 513-532.   | 1.6 | 44        |
| 15 | Silver nanoparticles affect phenolic and phytoalexin composition of <i>Arabidopsis thaliana</i> . <i>Science of the Total Environment</i> , 2020, 716, 135361.   | 8.0 | 44        |
| 16 | Fragmentation pathways of acylated flavonoid diglucuronides from leaves of <i>Medicago truncatula</i> . <i>Phytochemical Analysis</i> , 2010, 21, 224-233.   | 2.4 | 41        |
| 17 | Influence of the <i>Melissa officinalis</i> Leaf Extract on Long-Term Memory in Scopolamine Animal Model with Assessment of Mechanism of Action. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-17.  | 1.2 | 38        |
| 18 | Changes of phenolic secondary metabolite profiles in the reaction of narrow leaf lupin ( <i>Lupinus</i> )  | 3.0 | 36        |

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|----|--|-----|-----------|
| 19 | Bioaccessibility of defatted lupin seed phenolic compounds in a standardized static in vitro digestion system. <i>Food Research International</i> , 2019, 116, 1126-1134.  | 6.2 | 35        |
| 20 | Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry monitoring of anthocyanins in extracts from <i>Arabidopsis thaliana</i> leaves. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3949-3956.   | 1.5 | 31        |
| 21 | LC-MS/MS Profiling of Flavonoid Conjugates in Wild Mexican Lupine, <i>Lupinus reflexus</i> . <i>Journal of Natural Products</i> , 2010, 73, 1254-1260.   | 3.0 | 30        |
| 22 | Release of Flavonoids from Lupin Globulin Proteins during Digestion in a Model System. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1830-1836.  | 5.2 | 29        |
| 23 | Differential metabolic response of narrow leafed lupine ( <i>Lupinus angustifolius</i> ) leaves to infection with <i>Colletotrichum lupini</i> . <i>Metabolomics</i> , 2009, 5, 354-362.   | 3.0 | 21        |
| 24 | Determination of phenolic compounds and diterpenes in roots of <i>Salvia miltiorrhiza</i> and <i>Salvia przewalskii</i> by two LC-MS tools: Multi-stage and high resolution tandem mass spectrometry with assessment of antioxidant capacity. <i>Phytochemistry Letters</i> , 2017, 20, 331-338. | 1.2 | 21        |
| 25 | Improvement in Long-Term Memory following Chronic Administration of <i>Eryngium planum</i> Root Extract in Scopolamine Model: Behavioral and Molecular Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-13.   | 1.2 | 18        |
| 26 | Application of LC/MS systems to structural characterization of flavonoid glycoconjugates. <i>Phytochemistry Letters</i> , 2015, 11, 358-367.   | 1.2 | 18        |
| 27 | Effect of <i>Salvia miltiorrhiza</i> root extract on brain acetylcholinesterase and butyrylcholinesterase activities, their mRNA levels and memory evaluation in rats. <i>Physiology and Behavior</i> , 2017, 173, 223-230.  | 2.1 | 18        |
| 28 | Arsenic species and their transformation pathways in marine plants. Usefulness of advanced hyphenated techniques HPLC/ICP-MS and UPLC/ESI-MS/MS in arsenic species analysis. <i>Talanta</i> , 2020, 220, 121384.   | 5.5 | 15        |
| 29 | Untargeted metabolomics analysis reveals the elicitation of important secondary metabolites upon treatment with various metal and metal oxide nanoparticles in <i>Hypericum perforatum</i> L. cell suspension cultures. <i>Industrial Crops and Products</i> , 2022, 178, 114561.                | 5.2 | 15        |
| 30 | Comprehensive metabolomic, lipidomic and pathological profiles of baobab ( <i>Adansonia digitata</i> ) fruit pulp extracts in diabetic rats. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 201, 114139.   | 2.8 | 14        |
| 31 | Study on Speciation of As, Cr, and Sb in Bottled Flavored Drinking Water Samples Using Advanced Analytical Techniques IEC/SEC-HPLC/ICP-DRC-MS and ESI-MS/MS. <i>Molecules</i> , 2019, 24, 668.   | 3.8 | 13        |
| 32 | The Effect of Different Water Extracts from <i>Platycodon grandiflorum</i> on Selected Factors Associated with Pathogenesis of Chronic Bronchitis in Rats. <i>Molecules</i> , 2020, 25, 5020.  | 3.8 | 10        |
| 33 | Metabolic response of narrow leaf lupine ( <i>Lupinus angustifolius</i> ) plants to elicitation and infection with <i>Colletotrichum lupini</i> under field conditions. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.  | 2.1 | 8         |
| 34 | Total Versus Inorganic and Organic Species of As, Cr, and Sb in Flavored and Functional Drinking Waters: Analysis and Risk Assessment. <i>Molecules</i> , 2020, 25, 1099.  | 3.8 | 7         |
| 35 | Simultaneous determination of naphthodianthrones, emodin, skyrin and new bisanthrones in <i>Hypericum perforatum</i> L. in vitro shoot cultures. <i>Industrial Crops and Products</i> , 2020, 144, 112003.   | 5.2 | 6         |
| 36 | Profiling of secondary metabolites and DNA typing of three different <i>Annona</i> cultivars grown in Egypt. <i>Metabolomics</i> , 2022, 18, .   | 3.0 | 6         |

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|----|---|-----|-----------|
| 37 | Analysis of oxidised and reduced phytochelatins in pea and lupin plants using HPLC/MSn. International Journal of Environmental Analytical Chemistry, 2008, 88, 979-988. | 3.3 | 4         |
| 38 | Phenolic Metabolites from Barley in Contribution to Phenome in soil Moisture Deficit. International Journal of Molecular Sciences, 2020, 21, 6032.                      | 4.1 | 4         |
| 39 | Separation of Chromatographic Co-Eluted Compounds by Clustering and by Functional Data Analysis. Metabolites, 2021, 11, 214.  | 2.9 | 2         |
| 40 | Spectroscopic analysis of pindolol irradiated in the solid state. Open Chemistry, 2014, 12, 60-66.  | 1.9 | 1         |
| 41 | Mass Spectrometry in Agriculture, Food, and Flavors: Selected Applications. , 2012, , 529-558.  |     | 0         |
| 42 | Chemical Composition and Anticariogenic Activity of Tambja stegosauriformis Nudibranch. Revista Virtual De Quimica, 2019, 11, 1457-1466.                                | 0.4 | 0         |