

Mariusz Kowalczyk

List of Publications by Year in descending order

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172457

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times ranked

6174
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#	ARTICLE	IF	CITATIONS
1	An Auxin Gradient and Maximum in the <i>Arabidopsis</i> Root Apex Shown by High-Resolution Cell-Specific Analysis of IAA Distribution and Synthesis. <i>Plant Cell</i> , 2009, 21, 1659-1668.	6.6	439
2	Auxin Controls <i>Arabidopsis</i> Adventitious Root Initiation by Regulating Jasmonic Acid Homeostasis. <i>Plant Cell</i> , 2012, 24, 2515-2527.	6.6	427
3	Auxin and Light Control of Adventitious Rooting in <i>Arabidopsis</i> Require ARGONAUTE1. <i>Plant Cell</i> , 2005, 17, 1343-1359.	6.6	339
4	A Strategy for Identifying Differences in Large Series of Metabolomic Samples Analyzed by GC/MS. <i>Analytical Chemistry</i> , 2004, 76, 1738-1745.	6.5	313
5	The SUR2 gene of <i>Arabidopsis thaliana</i> encodes the cytochrome P450 CYP83B1, a modulator of auxin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 14819-14824.	7.1	284
6	Tissue-specific profiling of the <i>Arabidopsis thaliana</i> auxin metabolome. <i>Plant Journal</i> , 2012, 72, 523-536.	5.7	277
7	Identification and Biochemical Characterization of an <i>Arabidopsis</i> Indole-3-acetic Acid Glucosyltransferase. <i>Journal of Biological Chemistry</i> , 2001, 276, 4350-4356.	3.4	242
8	bus, a Bushy <i>Arabidopsis</i> CYP79F1 Knockout Mutant with Abolished Synthesis of Short-Chain Aliphatic Glucosinolates. <i>Plant Cell</i> , 2001, 13, 351-367.	6.6	235
9	A Family of Auxin-Conjugate Hydrolases That Contributes to Free Indole-3-Acetic Acid Levels during <i>Arabidopsis</i> Germination. <i>Plant Physiology</i> , 2004, 135, 978-988.	4.8	220
10	Metabolism of Indole-3-Acetic Acid in <i>Arabidopsis</i> 1. <i>Plant Physiology</i> , 1998, 118, 285-296.	4.8	204
11	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2002, 50, 309-332.	3.9	191
12	Quantitative Analysis of Indole-3-Acetic Acid Metabolites in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2001, 127, 1845-1853.	4.8	184
13	STY1 regulates auxin homeostasis and affects apical-basal patterning of the <i>Arabidopsis</i> gynoecium. <i>Plant Journal</i> , 2006, 47, 112-123.	5.7	172
14	AXR4 Is Required for Localization of the Auxin Influx Facilitator AUX1. <i>Science</i> , 2006, 312, 1218-1220.	12.6	165
15	Title is missing!. <i>Plant Molecular Biology</i> , 2002, 49, 249-272.	3.9	145
16	Quantitative Analysis of Indole-3-Acetic Acid Metabolites in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2001, 127, 1845-1853.	4.8	138
17	Regulation of Auxin Homeostasis and Gradients in <i>Arabidopsis</i> Roots through the Formation of the Indole-3-Acetic Acid Catabolite 2-Oxindole-3-Acetic Acid. <i>Plant Cell</i> , 2013, 25, 3858-3870.	6.6	131
18	Over-expression of an <i>Arabidopsis</i> gene encoding a glucosyltransferase of indole-3-acetic acid: phenotypic characterisation of transgenic lines. <i>Plant Journal</i> , 2002, 32, 573-583.	5.7	130

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19	Tentative Characterization of Polyphenolic Compounds in the Male Flowers of <i>Phoenix dactylifera</i> by Liquid Chromatography Coupled with Mass Spectrometry and DFT. <i>International Journal of Molecular Sciences</i> , 2017, 18, 512.	4.1	116
20	The auxin-signaling pathway is required for the lateral root response of <i>Arabidopsis</i> to the rhizobacterium <i>Phyllobacterium brassicacearum</i> . <i>Planta</i> , 2010, 232, 1455-1470.	3.2	110
21	Auxin Metabolism and Function in the Multicellular Brown Alga <i>Ectocarpus siliculosus</i> . <i>Plant Physiology</i> , 2010, 153, 128-144.	4.8	103
22	Homologues of the <i>Arabidopsis thaliana</i> SHI/STY/LRP1 genes control auxin biosynthesis and affect growth and development in the moss <i>Physcomitrella patens</i> . <i>Development (Cambridge)</i> , 2010, 137, 1275-1284.	2.5	97
23	Down-regulation of a single auxin efflux transport protein in tomato induces precocious fruit development. <i>Journal of Experimental Botany</i> , 2012, 63, 4901-4917.	4.8	82
24	Quantitative analysis of indole-3-acetic acid metabolites in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2001, 127, 1845-53.	4.8	81
25	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2002, 49, 249-72.	3.9	70
26	The Effect of Nutritional Factors and Plant Growth Regulators on Micropropagation and Production of Phenolic Acids and Saponins from Plantlets and Adventitious Root Cultures of <i>Eryngium maritimum</i> L. <i>Journal of Plant Growth Regulation</i> , 2014, 33, 809-819.	5.1	46
27	Novel Phenolic Constituents of <i>Pulmonaria officinalis</i> L. LC-MS/MS Comparison of Spring and Autumn Metabolite Profiles. <i>Molecules</i> , 2018, 23, 2277.	3.8	39
28	Identification of new adventitious rooting mutants amongst suppressors of the <i>Arabidopsis thaliana</i> superroot2 mutation. <i>Journal of Experimental Botany</i> , 2014, 65, 1605-1618.	4.8	38
29	New pharmacological properties of <i>Medicago sativa</i> and <i>Saponaria officinalis</i> saponin-rich fractions addressed to <i>Candida albicans</i> . <i>Journal of Medical Microbiology</i> , 2014, 63, 1076-1086.	1.8	37
30	Qualitative and Quantitative Analysis of Steroidal Saponins in Crude Extract and Bark Powder of <i>Yucca schidigera</i> Roehl. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 8058-8064.	5.2	23
31	New Bufadienolides Isolated from the Roots of <i>Kalanchoe daigremontiana</i> (Crassulaceae). <i>Molecules</i> , 2016, 21, 243.	3.8	23
32	Identification and VIGS-based characterization of Bx1 ortholog in rye (<i>Secale cereale</i> L.). <i>PLoS ONE</i> , 2017, 12, e0171506.	2.5	23
33	Three new triterpene saponins from roots of <i>Eryngium planum</i> . <i>Natural Product Research</i> , 2014, 28, 653-660.	1.8	22
34	Structural and quantitative changes of saponins in fresh alfalfa compared to alfalfa silage. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 2243-2250.	3.5	22
35	LC-ESI-MS/MS profile of phenolic and glucosinolate compounds in samh flour (<i>Mesembryanthemum</i>) Tj ETQq1 1 0.784314 rgBT /Ove plasma. <i>Food Research International</i> , 2016, 85, 282-290.	6.2	21
36	Effects of herbal nutraceuticals and/or zinc against <i>Haemonchus contortus</i> in lambs experimentally infected. <i>BMC Veterinary Research</i> , 2018, 14, 78.	1.9	21

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37	Yunnaneic Acid B, a Component of <i>Pulmonaria officinalis</i> Extract, Prevents Peroxynitrite-Induced Oxidative Stress in Vitro. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 3827-3834.	5.2	20
38	Micropropagation of <i>Eryngium campestre</i> L. via Shoot Culture Provides Valuable Uniform Plant Material with Enhanced Content of Phenolic Acids and Antimicrobial Activity. <i>Acta Biologica Cracoviensia Series Botanica</i> , 2016, 58, 43-56.	0.5	18
39	Triterpenoid Components from Oak Heartwood (<i>Quercus robur</i>) and Their Potential Health Benefits. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4611-4623.	5.2	17
40	ScBx gene based association analysis of hydroxamate content in rye (<i>Secale cereale</i> L.). <i>Journal of Applied Genetics</i> , 2017, 58, 1-9.	1.9	16
41	Biological activities of leaf extracts from selected <i>Kalanchoe</i> species and their relationship with bufadienolides content. <i>Pharmaceutical Biology</i> , 2020, 58, 732-740.	2.9	16
42	Saponin Inventory from <i>Argania spinosa</i> Kernel Cakes by Liquid Chromatography and Mass Spectrometry. <i>Phytochemical Analysis</i> , 2013, 24, 616-622.	2.4	15
43	Cytotoxic triterpenoids isolated from sweet chestnut heartwood (<i>Castanea sativa</i>) and their health benefits implication. <i>Food and Chemical Toxicology</i> , 2017, 109, 863-870.	3.6	14
44	Bufadienolides from <i>Kalanchoe daigremontiana</i> modulate the enzymatic activity of plasmin - In vitro and in silico analyses. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 1591-1600.	7.5	14
45	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in <i>Arabidopsis thaliana</i> . , 2002, , 249-272.		13
46	Isolation and Structural Determination of Triterpenoid Glycosides from the Aerial Parts of Alsike Clover (<i>Trifolium hybridum</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2631-2637.	5.2	13
47	QTL mapping for benzoxazinoid content, preharvest sprouting, α -amylase activity, and leaf rust resistance in rye (<i>Secale cereale</i> L.). <i>PLoS ONE</i> , 2017, 12, e0189912.	2.5	13
48	The effect of total and individual alfalfa saponins on rumen methane production. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 1922-1930.	3.5	13
49	The Effect of Selected Herbal Extracts on Lactic Acid Bacteria Activity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3898.	2.5	13
50	Changes in benzoxazinoid contents and the expression of the associated genes in rye (<i>Secale cereale</i>) Tj ETQq0 0 0,rgBT /Overlock 10 T	2.5	12
51	Phytochemical Screening, Phenolic Compounds and Antioxidant Activity of Biomass from <i>Lychnis flos-cuculi</i> L. In Vitro Cultures and Intact Plants. <i>Plants</i> , 2021, 10, 206.	3.5	12
52	Biotinylated Indoles as Probes for Indole-Binding Proteins. <i>Bioconjugate Chemistry</i> , 2001, 12, 152-162.	3.6	11
53	Triterpenoid saponins from the aerial parts of <i>Trifolium argutum</i> Sol. and their phytotoxic evaluation. <i>Phytochemistry Letters</i> , 2015, 13, 165-170.	1.2	11
54	Triterpene Saponins from the Aerial Parts of <i>Trifolium medium</i> L. var. <i>sarosiense</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 9789-9796.	5.2	10

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55	Enhanced accumulation of triterpenoid saponins in in vitro plantlets and dedifferentiated cultures of <i>Eryngium planum</i> L.: a medicinal plant. <i>Horticulture Environment and Biotechnology</i> , 2019, 60, 147-154.	2.1	10
56	Cocultivating rye with berseem clover affects benzoxazinoid production and expression of related genes. <i>Crop Science</i> , 2020, 60, 3228-3246.	1.8	10
57	Benzoxazinoids Biosynthesis in Rye (<i>Secale cereale</i> L.) Is Affected by Low Temperature. <i>Agronomy</i> , 2020, 10, 1260.	3.0	10
58	New triterpenoid saponins from the roots of <i>Saponaria officinalis</i> . <i>Natural Product Communications</i> , 2013, 8, 1687-90.	0.5	10
59	An In Vitro Anticancer, Antioxidant, and Phytochemical Study on Water Extract of <i>Kalanchoe daigremontiana</i> Raym.-Hamet and H. Perrier. <i>Molecules</i> , 2022, 27, 2280.	3.8	9
60	Highly Polar Triterpenoid Saponins from the Roots of <i>Saponaria officinalis</i> L.. <i>Helvetica Chimica Acta</i> , 2016, 99, 347-354.	1.6	8
61	Ultrahigh-Performance Liquid Chromatography–High-Resolution Quadrupole Time-of-Flight Mass Spectrometry Based Metabolomics Reveals Key Differences between <i>Brachiaria decumbens</i> and <i>B. brizantha</i> , Two Similar Pastures with Different Toxicities. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4686-4694.	5.2	6
62	Genes <i>ScBx1</i> and <i>ScIgl</i> —Competitors or Cooperators?. <i>Genes</i> , 2020, 11, 223.	2.4	6
63	Effect of <i>Saponaria officinalis</i> L. Or <i>Panax Ginseng</i> C.A Meyer Triterpenoid Saponins on Ruminal Fermentation in Vitro / WpA,yw Saponin Triterpenowych <i>Saponaria officinalis</i> L. Lub <i>Panax Ginseng</i> C.A. Meyer Na Przemiany ZachodzÄ...ce W Å»waczu W Warunkach In Vitro. <i>Annals of Animal Science</i> , 2013, 13, 815-827.	1.6	6
64	Fast characterization of C- glycoside acetophenones in <i>Medemia argun</i> male racemes (an Ancient) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Molecular Structure, 2017, 1145, 230-239.	3.6	5
65	Determination of benzoxazinoids in Spring and Winter varieties of wheat using ultra-performance liquid chromatography coupled with mass spectrometry. <i>Acta Chromatographica</i> , 2019, 31, 179-182.	1.3	5
66	The Pros and Cons of Cystic Fibrosis (CF) Patient Use of Herbal Supplements Containing <i>Pulmonaria officinalis</i> L. Extract: the Evidence from an In Vitro Study on <i>Staphylococcus aureus</i> CF Clinical Isolates. <i>Molecules</i> , 2019, 24, 1151.	3.8	5
67	Multifunctional compounds in the extract from mature seeds of <i>Vicia faba</i> var. <i>minor</i> : Phytochemical profiling, antioxidant activity and cellular safety in human selected blood cells in in vitro trials. <i>Biomedicine and Pharmacotherapy</i> , 2021, 139, 111718.	5.6	5
68	<i>Pulmonaria obscura</i> and <i>Pulmonaria officinalis</i> Extracts as Mitigators of Peroxynitrite-Induced Oxidative Stress and Cyclooxygenase-2 Inhibitors—In Vitro and In Silico Studies. <i>Molecules</i> , 2021, 26, 631.	3.8	5
69	Development, validation, and application of capillary zone electrophoresis method for determination of pyrimidine glucosides in seeds of <i>Vicia faba</i> L. var. <i>minor</i> . <i>Phytochemical Analysis</i> , 2021, 32, 375-381.	2.4	2
70	Determination of Saponins in Leaves of Four Swiss Chard (<i>Beta vulgaris</i> L.) Cultivars by UHPLC-CAD/QTOF-MS/MS. <i>Polish Journal of Food and Nutrition Sciences</i> , 2021, , 147-159.	1.7	2
71	Fingerprinting of two an acylated polyoxypregnane glycosides from <i>Caralluma quadrangula</i> (Forssk.) N.E.Br. using UPLC-ESI-Q-TOF and computational study. <i>Natural Product Research</i> , 2021, , 1-5.	1.8	2
72	Electrospray ionization mass spectrometry characterization of ubiquitous minor lipids and oligosaccharides in milk of the camel (<i>Camelus dromedarius</i>) and their inhibition of oxidative stress in human plasma. <i>Journal of Dairy Science</i> , 2020, 103, 72-86.	3.4	1

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73	The Roots of Rye (<i>Secale cereale</i> L.) Are Capable of Synthesizing Benzoxazinoids. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4656.	4.1	1
74	Fingerprinting profile of flavonol glycosides from <i>Bassia eriophora</i> using negative electrospray ionization, computational studies and their antioxidant activities. <i>Journal of Molecular Structure</i> , 2021, 1241, 130689.	3.6	1
75	Comprehensive polyoxypregnane glycosides report in <i>Caralluma quadrangula</i> using UPLC-ESI-TOF and their antioxidant effects in human plasma. <i>Biomedicine and Pharmacotherapy</i> , 2022, 150, 112954.	5.6	1