Mariusz Kowalczyk

List of Publications by Year
in descending order

75 papers	5,571 citations	172457 29 h-index	79698 73 g-index
77 all docs	77 docs citations	77 times ranked	6174 citing authors

#	Article	IF	Citations
1	An In Vitro Anticancer, Antioxidant, and Phytochemical Study on Water Extract of Kalanchoe daigremontiana Raym.-Hamet and H. Perrier. Molecules, 2022, 27, 2280.	3.8	9
2	Comprehensive polyoxypregnane glycosides report in Caralluma quadrangula using UPLCâ€“ESIâ€“Qâ€“TOF and their antioxidant effects in human plasma. Biomedicine and Pharmacotherapy, 2022, 150, 112954.	5.6	1
3	Development, validation, and application of capillary zone electrophoresis method for determination of pyrimidine glucosides in seeds of Vicia faba L. var. minor. Phytochemical Analysis, 2021, 32, 375-381.	2.4	2
4	The Effect of Selected Herbal Extracts on Lactic Acid Bacteria Activity. Applied Sciences (Switzerland), 2021, 11, 3898.	2.5	13
5	The Roots of Rye (Secale cereale L.) Are Capable of Synthesizing Benzoxazinoids. International Journal of Molecular Sciences, 2021, 22, 4656.	4.1	1
6	Determination of Saponins in Leaves of Four Swiss Chard (<i>Beta vulgaris</i> L.) Cultivars by UHPLC-CAD/QTOF-MS/MS. Polish Journal of Food and Nutrition Sciences, 2021, , 147-159.	1.7	2
7	Multifunctional compounds in the extract from mature seeds of Vicia faba var. minor: Phytochemical profiling, antioxidant activity and cellular safety in human selected blood cells in in vitro trials. Biomedicine and Pharmacotherapy, 2021, 139, 111718.	5.6	5
8	Fingerprinting of two an acylated polyoxypregnane glycosides from Caralluma quadrangula (Forssk.) N.E.Br. using UPLC-ESI-Q-TOF and computational study. Natural Product Research, 2021, , 1-5.	1.8	2
9	Fingerprinting profile of flavonol glycosides from Bassia eriophora using negative electrospray ionization, computational studies and their antioxidant activities. Journal of Molecular Structure, 2021, 1241, 130689.	3.6	1
10	Phytochemical Screening, Phenolic Compounds and Antioxidant Activity of Biomass from Lychnis flos-cuculi L. In Vitro Cultures and Intact Plants. Plants, 2021, 10, 206.	3.5	12
11	Pulmonaria obscura and Pulmonaria officinalis Extracts as Mitigators of Peroxynitrite-Induced Oxidative Stress and Cyclooxygenase-2 Inhibitorsâ€“In Vitro and In Silico Studies. Molecules, 2021, 26, 631.	3.8	5
12	The effect of total and individual alfalfa saponins on rumen methane production. Journal of the Science of Food and Agriculture, 2020, 100, 1922-1930.	3.5	13
13	Electrospray ionization mass spectrometry characterization of ubiquitous minor lipids and oligosaccharides in milk of the camel (Camelus dromedarius) and their inhibition of oxidative stress in human plasma. Journal of Dairy Science, 2020, 103, 72-86.	3.4	1
14	Biological activities of leaf extracts from selected Kalanchoe species and their relationship with bufadienolides content. Pharmaceutical Biology, 2020, 58, 732-740.	2.9	16
15	Cocultivating rye with berseem clover affects benzoxazinoid production and expression of related genes. Crop Science, 2020, 60, 3228-3246.	1.8	10
16	Benzoxazinoids Biosynthesis in Rye (Secale cereale L.) Is Affected by Low Temperature. Agronomy, 2020, 10, 1260.	3.0	10
17	Changes in benzoxazinoid contents and the expression of the associated genes in rye (Secale cereale) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	12
18	Genes ScBx1 and Sclglâ€”Competitors or Cooperators?. Genes, 2020, 11, 223.	2.4	6

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19	Structural and quantitative changes of saponins in fresh alfalfa compared to alfalfa silage. Journal of the Science of Food and Agriculture, 2019, 99, 2243-2250.	3.5	22
20	Determination of benzoxazinoids in Spring and Winter varieties of wheat using ultra-performance liquid chromatography coupled with mass spectrometry. Acta Chromatographica, 2019, 31, 179-182.	1.3	5
21	The Pros and Cons of Cystic Fibrosis (CF) Patient Use of Herbal Supplements Containing Pulmonaria officinalis L. Extract: the Evidence from an In Vitro Study on Staphylococcus aureus CF Clinical Isolates. Molecules, 2019, 24, 1151.	3.8	5
22	Enhanced accumulation of triterpenoid saponins in in vitro plantlets and dedifferentiated cultures of Eryngium planum L.: a medicinal plant. Horticulture Environment and Biotechnology, 2019, 60, 147-154.	2.1	10
23	Novel Phenolic Constituents of Pulmonaria officinalis L. LC-MS/MS Comparison of Spring and Autumn Metabolite Profiles. Molecules, 2018, 23, 2277.	3.8	39
24	Bufadienolides from Kalanchoe daigremontiana modulate the enzymatic activity of plasmin - In vitro and in silico analyses. International Journal of Biological Macromolecules, 2018, 120, 1591-1600.	7.5	14
25	Effects of herbal nutraceuticals and/or zinc against Haemonchus contortus in lambs experimentally infected. BMC Veterinary Research, 2018, 14, 78.	1.9	21
26	Yunnaneic Acid B, a Component of Pulmonaria officinalis Extract, Prevents Peroxynitrite-Induced Oxidative Stress in Vitro. Journal of Agricultural and Food Chemistry, 2017, 65, 3827-3834.	5.2	20
27	Triterpenoid Components from Oak Heartwood (Quercus robur) and Their Potential Health Benefits. Journal of Agricultural and Food Chemistry, 2017, 65, 4611-4623.	5.2	17
28	Fast characterization of C- glycoside acetophenones in Medemia argun male racemes (an Ancient) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Molecular Structure, 2017, 1145, 230-239.	3.6	5
29	Cytotoxic triterpenoids isolated from sweet chestnut heartwood (Castanea sativa) and their health benefits implication. Food and Chemical Toxicology, 2017, 109, 863-870.	3.6	14
30	ScBx gene based association analysis of hydroxamate content in rye (Secale cereale L.). Journal of Applied Genetics, 2017, 58, 1-9.	1.9	16
31	Tentative Characterization of Polyphenolic Compounds in the Male Flowers of Phoenix dactylifera by Liquid Chromatography Coupled with Mass Spectrometry and DFT. International Journal of Molecular Sciences, 2017, 18, 512.	4.1	116
32	QTL mapping for benzoxazinoid content, preharvest sprouting, Î±-amylase activity, and leaf rust resistance in rye (Secale cereale L.). PLoS ONE, 2017, 12, e0189912.	2.5	13
33	Identification and VIGS-based characterization of Bx1 ortholog in rye (Secale cereale L.). PLoS ONE, 2017, 12, e0171506.	2.5	23
34	New Bufadienolides Isolated from the Roots of Kalanchoe daigremontiana (Crassulaceae). Molecules, 2016, 21, 243.	3.8	23
35	Highly Polar Triterpenoid Saponins from the Roots ofSaponaria officinalisL.. Helvetica Chimica Acta, 2016, 99, 347-354.	1.6	8
36	Ultrahigh-Performance Liquid Chromatographyâ€“High-Resolution Quadrupole Time-of-Flight Mass Spectrometry Based Metabolomics Reveals Key Differences between Brachiaria decumbens and B. brizantha, Two Similar Pastures with Different Toxicities. Journal of Agricultural and Food Chemistry, 2016, 64, 4686-4694.	5.2	6

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37	Micropropagation of Eryngium campestre L. via Shoot Culture Provides Valuable Uniform Plant Material with Enhanced Content of Phenolic Acids and Antimicrobial Activity. Acta Biologica Cracoviensia Series Botanica, 2016, 58, 43-56.	0.5	18
38	LCâ€“ESI-MS/MS profile of phenolic and glucosinolate compounds in samh flour (Mesembryanthemum) Tj ETQq0 0 0 rgBT /Overlock 10 plasma. Food Research International, 2016, 85, 282-290.	6.2	21
39	Triterpenoid saponins from the aerial parts of Trifolium argutum Sol. and their phytotoxic evaluation. Phytochemistry Letters, 2015, 13, 165-170.	1.2	11
40	Identification of new adventitious rooting mutants amongst suppressors of the Arabidopsis thaliana superroot2 mutation. Journal of Experimental Botany, 2014, 65, 1605-1618.	4.8	38
41	Three new triterpene saponins from roots of Eryngium planum. Natural Product Research, 2014, 28, 653-660.	1.8	22
42	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 Eryngium maritimum L.. Journal of Plant Growth Regulation, 2014, 33, 809-819.	5.1	46
43	New pharmacological properties of Medicago sativa and Saponaria officinalis saponin-rich fractions addressed to Candida albicans. Journal of Medical Microbiology, 2014, 63, 1076-1086.	1.8	37
44	Saponin Inventory from Argania spinosa Kernel Cakes by Liquid Chromatography and Mass Spectrometry. Phytochemical Analysis, 2013, 24, 616-622.	2.4	15
45	Triterpene Saponins from the Aerial Parts of Trifolium medium L. var. sarosiense. Journal of Agricultural and Food Chemistry, 2013, 61, 9789-9796.	5.2	10
46	Isolation and Structural Determination of Triterpenoid Glycosides from the Aerial Parts of Alsike Clover (Trifolium hybridum L.). Journal of Agricultural and Food Chemistry, 2013, 61, 2631-2637.	5.2	13
47	Regulation of Auxin Homeostasis and Gradients in Arabidopsis Roots through the Formation of the Indole-3-Acetic Acid Catabolite 2-Oxindole-3-Acetic Acid. Plant Cell, 2013, 25, 3858-3870.	6.6	131
48	Effect of Saponaria Officinalis L. Or Panax Ginseng C.A Meyer Triterpenoid Saponins on Ruminal Fermentation in Vitro / WpÅ‚yw Saponin Triterpenowych Saponaria Officinalis L. Lub Panax Ginseng C.A. Meyer Na Przemiany ZachodzÄ…ce W Å»waczu W Warunkach In Vitro. Annals of Animal Science, 2013, 13, 815-827.	1.6	6
49	New triterpenoid saponins from the roots of Saponaria officinalis. Natural Product Communications, 2013, 8, 1687-90.	0.5	10
50	Down-regulation of a single auxin efflux transport protein in tomato induces precocious fruit development. Journal of Experimental Botany, 2012, 63, 4901-4917.	4.8	82
51	Tissueâ€specific profiling of the Arabidopsis thaliana auxin metabolome. Plant Journal, 2012, 72, 523-536.	5.7	277
52	Auxin Controls Arabidopsis Adventitious Root Initiation by Regulating Jasmonic Acid Homeostasis. Plant Cell, 2012, 24, 2515-2527.	6.6	427
53	Qualitative and Quantitative Analysis of Steroidal Saponins in Crude Extract and Bark Powder ofYucca schidigeraRoezl.. Journal of Agricultural and Food Chemistry, 2011, 59, 8058-8064.	5.2	23
54	The auxin-signaling pathway is required for the lateral root response of Arabidopsis to the rhizobacterium Phyllobacterium brassicacearum. Planta, 2010, 232, 1455-1470.	3.2	110

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55	Homologues of the Arabidopsis thaliana SHI/STY/LRP1 genes control auxin biosynthesis and affect growth and development in the moss Physcomitrella patens. Development (Cambridge), 2010, 137, 1275-1284.	2.5	97
56	Auxin Metabolism and Function in the Multicellular Brown AlgaEctocarpus siliculosusÂ Â. Plant Physiology, 2010, 153, 128-144.	4.8	103
57	An Auxin Gradient and Maximum in theArabidopsisRoot Apex Shown by High-Resolution Cell-Specific Analysis of IAA Distribution and Synthesis. Plant Cell, 2009, 21, 1659-1668.	6.6	439
58	AXR4 Is Required for Localization of the Auxin Influx Facilitator AUX1. Science, 2006, 312, 1218-1220.	12.6	165
59	STY1regulates auxin homeostasis and affects apical-basal patterning of the Arabidopsis gynoecium. Plant Journal, 2006, 47, 112-123.	5.7	172
60	Auxin and Light Control of Adventitious Rooting in Arabidopsis Require ARGONAUTE1. Plant Cell, 2005, 17, 1343-1359.	6.6	339
61	A Family of Auxin-Conjugate Hydrolases That Contributes to Free Indole-3-Acetic Acid Levels during Arabidopsis Germination. Plant Physiology, 2004, 135, 978-988.	4.8	220
62	A Strategy for Identifying Differences in Large Series of Metabolomic Samples Analyzed by GC/MS. Analytical Chemistry, 2004, 76, 1738-1745.	6.5	313
63	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in Arabidopsis thaliana. , 2002, , 249-272.		13
64	Over-expression of anArabidopsisgene encoding a glucosyltransferase of indole-3-acetic acid: phenotypic characterisation of transgenic lines. Plant Journal, 2002, 32, 573-583.	5.7	130
65	Title is missing!. Plant Molecular Biology, 2002, 49, 249-272.	3.9	145
66	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in Arabidopsis thaliana. Plant Molecular Biology, 2002, 50, 309-332.	3.9	191
67	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in Arabidopsis thaliana. Plant Molecular Biology, 2002, 49, 249-72.	3.9	70
68	Biotinylated Indoles as Probes for Indole-Binding Proteins. Bioconjugate Chemistry, 2001, 12, 152-162.	3.6	11
69	Quantitative Analysis of Indole-3-Acetic Acid Metabolites in Arabidopsis. Plant Physiology, 2001, 127, 1845-1853.	4.8	138
70	bus, a Bushy Arabidopsis CYP79F1 Knockout Mutant with Abolished Synthesis of Short-Chain Aliphatic Glucosinolates. Plant Cell, 2001, 13, 351-367.	6.6	235
71	Identification and Biochemical Characterization of anArabidopsis Indole-3-acetic Acid Glucosyltransferase. Journal of Biological Chemistry, 2001, 276, 4350-4356.	3.4	242
72	Quantitative Analysis of Indole-3-Acetic Acid Metabolites in Arabidopsis. Plant Physiology, 2001, 127, 1845-1853.	4.8	184

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73	Quantitative analysis of indole-3-acetic acid metabolites in Arabidopsis. Plant Physiology, 2001, 127, 1845-53.	4.8	81
74	The SUR2 gene of Arabidopsis thaliana encodes the cytochrome P450 CYP83B1, a modulator of auxin homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 14819-14824.	7.1	284
75	Metabolism of Indole-3-Acetic Acid in Arabidopsis1. Plant Physiology, 1998, 118, 285-296.	4.8	204