Russell J Molyneux

List of Publications by Year
in descending order

113 papers	7,135 citations	47 h-index	82 g-index
		47006	58581
117 all docs	117 docs citations	117 times ranked	4477 citing authors

#	Article	IF	Citations
1	Sugar-mimic glycosidase inhibitors: natural occurrence, biological activity and prospects for therapeutic application. Tetrahedron: Asymmetry, 2000, 11, 1645-1680.	1.8	982
2	Polyhydroxylated alkaloidsÂâ€" natural occurrence and therapeutic applications. Phytochemistry, 2001, 56, 265-295.	2.9	664
3	Castanospermine, a tetrahydroxylated alkaloid that inhibits Î²-glucosidase and Î²-glucocerebrosidase. Archives of Biochemistry and Biophysics, 1983, 221, 593-597.	3.0	299
4	Australine, a Novel Pyrrolizidine Alkaloid Glucosidase Inhibitor from Castanospermum australe. Journal of Natural Products, 1988, 51, 1198-1206.	3.0	187
5	Pyrrolizidine Alkaloids: Potential Role in the Etiology of Cancers, Pulmonary Hypertension, Congenital Anomalies, and Liver Disease. Chemical Research in Toxicology, 2015, 28, 4-20.	3.3	163
6	Honey from Plants Containing Pyrrolizidine Alkaloids:Â A Potential Threat to Health. Journal of Agricultural and Food Chemistry, 2002, 50, 2719-2730.	5.2	161
7	Elucidation of the functional genomics of antioxidant-based inhibition of aflatoxin biosynthesis. International Journal of Food Microbiology, 2008, 122, 49-60.	4.7	139
8	Feeding deterrency of some pyrrolizidine, indolizidine, and quinolizidine alkaloids towards pea aphid (Acyrthosiphon pisum) and evidence for phloem transport of indolizidine alkaloid swainsonine. Journal of Chemical Ecology, 1985, 11, 1045-1051.	1.8	136
9	Analysis of Swainsonine:Â Extraction Methods, Detection, and Measurement in Populations of Locoweeds (Oxytropisspp.). Journal of Agricultural and Food Chemistry, 2001, 49, 4573-4580.	5.2	123
10	Phytochemical Inhibition of Aflatoxigenicity inAspergillus flavusby Constituents of Walnut (Juglans) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.2	123
11	Alkaloidal Components in the Poisonous Plant,Ipomoea carnea(Convolvulaceae). Journal of Agricultural and Food Chemistry, 2003, 51, 4995-5000.	5.2	121
12	Mycotoxins in edible tree nuts. International Journal of Food Microbiology, 2007, 119, 72-78.	4.7	118
13	Phytochemicals: The good, the bad and the ugly?. Phytochemistry, 2007, 68, 2973-2985.	2.9	116
14	Identification of the Glycosidase Inhibitors Swainsonine and Calystegine B2 in Weir Vine (Ipomoea sp.) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.0	109
15	Chemistry of toxic range plants. Variation in pyrrolizidine alkaloid content of Senecio, Amsinckia, and Crotalaria species. Journal of Agricultural and Food Chemistry, 1985, 33, 50-55.	5.2	108
16	A Lysosomal Storage Disease Induced by Ipomoea Carnea in Goats in Mozambique. Journal of Veterinary Diagnostic Investigation, 1999, 11, 266-273.	1.1	108
17	Compound Identification:â€‰ A Journal of Agricultural and Food Chemistry Perspective. Journal of Agricultural and Food Chemistry, 2007, 55, 4625-4629.	5.2	105
18	Australine and related alkaloids: easy structural confirmation by 13C NMR spectral data and biological activities. Tetrahedron: Asymmetry, 2003, 14, 325-331.	1.8	100

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19	DNA cross-linking in mammalian cells by pyrrolizidine alkaloids: Structure-activity relationships. Toxicology and Applied Pharmacology, 1991, 111, 90-98.	2.8	97
20	6-Epicastanospermine, a novel indolizidine alkaloid that inhibits Î±-glucosidase. Archives of Biochemistry and Biophysics, 1986, 251, 450-457.	3.0	95
21	Specific alpha-Galactosidase Inhibitors, N-Methylcalystegines Structure/Activity Relationships of Calystegines from Lycium Chinense. FEBS Journal, 1997, 248, 296-303.	0.2	94
22	Examination of fungal stress response genes using Saccharomyces cerevisiae as a model system: targeting genes affecting aflatoxin biosynthesis by Aspergillus flavus Link. Applied Microbiology and Biotechnology, 2005, 67, 807-815.	3.6	88
23	Loss of msnA, a Putative Stress Regulatory Gene, in Aspergillus parasiticus and Aspergillus flavus Increased Production of Conidia, Aflatoxins and Kojic Acid. Toxins, 2011, 3, 82-104.	3.4	88
24	Inhibitory Effects of Naturally Occurring Compounds on Aflatoxin B1Biotransformation. Journal of Agricultural and Food Chemistry, 2001, 49, 5171-5177.	5.2	85
25	Biomedical Applications of Poisonous Plant Research. Journal of Agricultural and Food Chemistry, 2004, 52, 3211-3230.	5.2	80
26	The effects of calystegines isolated from edible fruits and vegetables on mammalian liver glycosidases. Glycobiology, 1997, 7, 1085-1088.	2.5	79
27	New Sugar-Mimic Alkaloids from the Pods ofAngylocalyx pynaertii. Journal of Natural Products, 2002, 65, 198-202.	3.0	77
28	Ponderosa Pine Needle-Induced Abortion in Beef Cattle: Identification of Isocupressic Acid as the Principal Active Compound. Journal of Agricultural and Food Chemistry, 1994, 42, 756-761.	5.2	71
29	Biosynthesis of swainsonine in the diablo locoweed (Astragalus oxyphyrus). Tetrahedron Letters, 1988, 29, 4815-4818.	1.4	67
30	Novel Î±-L-fucosidase inhibitors from the bark ofAngylocalyx pynaertii(Leguminosae). FEBS Journal, 2001, 268, 35-41.	0.2	64
31	Identification of Phenolics for Control ofAspergillus flavusUsingSaccharomyces cerevisiaein a Model Target-Gene Bioassay. Journal of Agricultural and Food Chemistry, 2004, 52, 7814-7821.	5.2	64
32	Chemistry of toxic range plants. Determination of pyrrolizidine alkaloid content and composition in Senecio species by nuclear magnetic resonance spectroscopy. Journal of Agricultural and Food Chemistry, 1979, 27, 494-499.	5.2	63
33	Occurrence, Concentration, and Toxicity of Pyrrolizidine Alkaloids in Crotalaria Seeds. Weed Science, 1987, 35, 476-481.	1.5	63
34	EutypaDieback in Grapevines:Â Differential Production of Acetylenic Phenol Metabolites by Strains ofEutypa lata. Journal of Agricultural and Food Chemistry, 2002, 50, 1393-1399.	5.2	63
35	Honeydew analysis for detecting phloem transport of plant natural products. Journal of Chemical Ecology, 1990, 16, 1899-1909.	1.8	61
36	7-Deoxy-6-epi-castanospermine, a Trihydroxyindolizidine Alkaloid Glycosidase Inhibitor from Castanospermum australe. Journal of Natural Products, 1990, 53, 609-614.	3.0	61

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37	Pyrrolizidine alkaloids in Senecio madagascariensis from Australia and Hawaii and assessment of possible livestock poisoning. Biochemical Systematics and Ecology, 2006, 34, 736-744.	1.3	61
38	Differential inhibition by castanospermine of various insect disaccharidases. Journal of Chemical Ecology, 1987, 13, 1759-1770.	1.8	60
39	1-Epiastraline, a new pyrrolizidine alkaloid from Castanospermum australe. Tetrahedron Letters, 1989, 30, 5685-5688.	1.4	55
40	2-Hydroxymethyl-3,4-dihydroxy-6-methylpyrrolidine (6-Deoxy-DMDP), an Alkaloid Î²-Mannosidase Inhibitor from Seeds of Angylocalyx pynaertii. Journal of Natural Products, 1993, 56, 1356-1364.	3.0	53
41	Relative toxicities and neuromuscular nicotinic receptor agonistic potencies of anabasine enantiomers and anabaseine. Neurotoxicology and Teratology, 2006, 28, 220-228.	2.4	52
42	Gc-ms Determination of Pyrrolizidine Alkaloids in Four Senecio Species. Journal of Natural Products, 1991, 54, 759-773.	3.0	51
43	Analysis and distribution of swainsonine and related polyhydroxyindolizidine alkaloids by thin layer chromatography. Phytochemical Analysis, 1991, 2, 125-129.	2.4	51
44	Regulation of Aflatoxin Production by Naphthoquinones of Walnut (Juglansregia). Journal of Agricultural and Food Chemistry, 2000, 48, 4418-4421.	5.2	51
45	Phenolic and heterocyclic metabolite profiles of the grapevine pathogen Eutypa lata. Phytochemistry, 2003, 64, 475-484.	2.9	50
46	Specific detection of pyrrolizidine alkaloids on thin-layer chromatograms. Journal of Chromatography A, 1980, 195, 412-415.	3.7	49
47	The effect of natural toxins on reproduction in livestock. Journal of Animal Science, 1992, 70, 1573-1579.	0.5	48
48	Configurational and conformational analysis of highly oxygenated pyrrolizidines: definitive identification of some naturally occurring 7a-epi-alexines. Tetrahedron: Asymmetry, 1998, 9, 2549-2558.	1.8	48
49	Dose Response of Sheep Poisoned with Locoweed (Oxytropis Sericea). Journal of Veterinary Diagnostic Investigation, 1999, 11, 448-456.	1.1	47
50	Controlling food-contaminating fungi by targeting their antioxidative stress-response system with natural phenolic compounds. Applied Microbiology and Biotechnology, 2006, 70, 735-739.	3.6	47
51	Synthesis of 6-epicastanospermine and 1,6-diepicastanospermine from L-gulonolactone and synthesis of L-6-epicastanospermine and L-1,6-diepicastanospermine from D-gulonolactone. Tetrahedron Letters, 1988, 29, 3603-3606.	1.4	41
52	Biological Activities of the Nortropane Alkaloid, Calystegine B2, and Analogs:Â Structureâ^'Function Relationships. Journal of Natural Products, 1996, 59, 1137-1142.	3.0	40
53	Synthesis and Structureâ^'Phytotoxicity Relationships of Acetylenic Phenols and Chromene Metabolites, and Their Analogues, from the Grapevine PathogenEutypalata. Journal of Natural Products, 2003, 66, 169-176.	3.0	39
54	Pyrrole Detection and the Pathologic Progression of Cynoglossum Officinale (Houndstongue) Poisoning in Horses. Journal of Veterinary Diagnostic Investigation, 1996, 8, 81-90.	1.1	38

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55	Polyhydroxy alkaloids: chromatographic analysis. Journal of Chromatography A, 2002, 967, 57-74.	3.7	37
56	Enhancement of fludioxonil fungicidal activity by disrupting cellular glutathione homeostasis with 2,5-dihydroxybenzoic acid. FEMS Microbiology Letters, 2007, 270, 284-290.	1.8	36
57	The Comparative Pathology of the Glycosidase Inhibitors Swainsonine, Castanospermine, and Calystegines A3, B2, and C1 in Mice. Toxicologic Pathology, 2008, 36, 651-659.	1.8	36
58	13C NMR spectroscopy of Pyrrolizidine alkaloids. Phytochemistry, 1982, 21, 439-443.	2.9	34
59	Synthesis of the enantiomers of 6-epicastanospermine and 1,6-diepicastanospermine from d- and l-gulonolactone. Carbohydrate Research, 1990, 205, 269-282.	2.3	34
60	Dying-Arm Disease in Grapevines:Â Diagnosis of Infection withEutypa lataby Metabolite Analysis. Journal of Agricultural and Food Chemistry, 2005, 53, 8148-8155.	5.2	34
61	Extraordinary Levels of Production of Pyrrolizidine Alkaloids in Senecio riddellii. Journal of Natural Products, 1984, 47, 1030-1032.	3.0	33
62	Chemosensitization prevents tolerance of Aspergillus fumigatus to antimycotic drugs. Biochemical and Biophysical Research Communications, 2008, 372, 266-271.	2.1	33
63	Poisoning of sheep by seeds of Crotalaria retusa: Acquired resistance by continuous administration of low doses. Toxicon, 2010, 55, 28-32.	1.6	33
64	Quantitation of Sensory-Active and Bioactive Constituents of Food: A Journal of Agricultural and Food Chemistry Perspective. Journal of Agricultural and Food Chemistry, 2012, 60, 2404-2408.	5.2	33
65	Development of Enzyme-Linked Immunosorbent Assays for the Hepatotoxic Alkaloids Riddelliine and RiddelliineN-Oxide. Journal of Agricultural and Food Chemistry, 2001, 49, 4144-4151.	5.2	31
66	Chemosensitization of fungal pathogens to antimicrobial agents using benzo analogs. FEMS Microbiology Letters, 2008, 281, 64-72.	1.8	31
67	Rapid Analytical Method for the Determination of Aflatoxins in Plant-Derived Dietary Supplement and Cosmetic Oils. Journal of Agricultural and Food Chemistry, 2010, 58, 4065-4070.	5.2	31
68	Alkaloids of Rothia trifoliata and Rothia hirsuta. Journal of Natural Products, 1988, 51, 809-811.	3.0	29
69	Abortifacient Activity in Beef Cattle of Acetyl- and Succinylisocupressic Acid from Ponderosa Pine. Journal of Agricultural and Food Chemistry, 1996, 44, 3257-3261.	5.2	29
70	Secondary Metabolites of the Grapevine Pathogen Eutypa lata Inhibit Mitochondrial Respiration, Based on a Model Bioassay Using the Yeast Saccharomyces cerevisiae. Current Microbiology, 2004, 49, 282-287.	2.2	28
71	Serum Î±-Mannosidase Activity and the Clinicopathologic Alterations of Locoweed (Astragalus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 473-479.	1.1	26
72	Chemistry of toxic range plants. Volatile constituents of broomweed (Gutierrezia sarothrae). Journal of Agricultural and Food Chemistry, 1980, 28, 1332-1333.	5.2	25

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73	Isolation, characterization and analysis of polyhydroxy alkaloids. Phytochemical Analysis, 1993, 4, 193-204.	2.4	25
74	Chemosensitization of Aflatoxigenic Fungi to Antimycin A and Strobilurin Using Salicylaldehyde, a Volatile Natural Compound Targeting Cellular Antioxidation System. Mycopathologia, 2011, 171, 291-298.	3.1	24
75	Chapter Four The chemistry and biological activity of calystegines and related nortropane alkaloids. Alkaloids: Chemical and Biological Perspectives, 1996, 11, 303-343.	0.2	21
76	Experimental swainsonine poisoning in goats ingesting Ipomoea sericophylla and Ipomoea riedelii (Convolvulaceae). Pesquisa Veterinaria Brasileira, 2007, 27, 409-414.	0.5	21
77	High-pressure liquid chromatography in the separation and detection of bitter compounds. Journal of Agricultural and Food Chemistry, 1973, 21, 531-535.	5.2	20
78	Effects of Water and Mineral Nutrient Deficiencies on Pyrrolizidine Alkaloid Content ofSenecio vulgaris Flowers. Journal of the Science of Food and Agriculture, 1996, 70, 209-211.	3.5	20
79	Separation and measurement of plant alkaloid enantiomers by RPâ€HPLC analysis of their Fmocâ€Alanine analogs. Phytochemical Analysis, 2008, 19, 395-402.	2.4	20
80	Ammodendrine andN-Methylammodendrine Enantiomers:Â Isolation, Optical Rotation, and Toxicity. Journal of Natural Products, 2005, 68, 681-685.	3.0	19
81	Detection of High Levels of Pyrrolizidine-N-oxides in the Endangered Plant Cryptantha crassipes (Terlingua Creek Cat's-eye) Using HPLC-ESI-MS. Phytochemical Analysis, 2011, 22, 532-540.	2.4	19
82	Effect of Natural Toxins on Reproduction. Veterinary Clinics of North America - Food Animal Practice, 1994, 10, 587-603.	1.2	17
83	Preparative isolation of swainsonine from locoweed: extraction and puri?cation procedures. Phytochemical Analysis, 2003, 14, 259-266.	2.4	17
84	Isolation and SAR studies of bicyclic iminosugars from Castanospermum australe as glycosidase inhibitors. Phytochemistry, 2015, 111, 124-131.	2.9	17
85	A general method for high performance liquid chromatography of pyrrolizidine alkaloid free bases andN-oxides. Phytochemical Analysis, 1994, 5, 251-255.	2.4	16
86	Operant analysis of chronic locoweed intoxication in sheep.. Journal of Animal Science, 1996, 74, 2622.	0.5	16
87	Toxic Hepatopathy in Sheep Associated with the Ingestion of the Legume Tephrosia Cinerea. Journal of Veterinary Diagnostic Investigation, 2007, 19, 690-694.	1.1	16
88	Targeted Metabolomics: a New Section in the Journal of Agricultural and Food Chemistry. Journal of Agricultural and Food Chemistry, 2014, 62, 22-23.	5.2	16
89	Identification of Senecionine and Senecionine N-Oxide as Antifertility Constituents in Senecio vulgaris. Journal of Pharmaceutical Sciences, 1988, 77, 461-463.	3.3	14
90	Maternal locoweed exposure in utero and as a neonate does not disrupt taste aversion learning in lambs. Applied Animal Behaviour Science, 1993, 36, 159-167.	1.9	14

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91	Pyrrolizidine alkaloids: Testing for toxic constituents of comfrey. Journal of Chemical Education, 1987, 64, 1027.	2.3	13
92	Secondary metabolite production by the fungal pathogen Eutypa lata: Analysis of extracts from grapevine cultures and detection of those metabolites in planta. Australian Journal of Grape and Wine Research, 2006, 12, 107-114.	2.1	13
93	The alkaloid profiles of Sophora nuttalliana and Sophora stenophylla. Biochemical Systematics and Ecology, 2013, 48, 58-64.	1.3	12
94	Nuclear magnetic resonance spectroscopic determination of .alpha.- and .beta.-acid homolog composition in hops. Journal of Agricultural and Food Chemistry, 1975, 23, 1201-1204.	5.2	11
95	Unambiguous nuclear magnetic resonance assignments for swainsonine, an indolizidine alkaloid with Î±-mannosidase inhibitory activity. Phytochemical Analysis, 1991, 2, 120-124.	2.4	11
96	Contamination of Tree Nuts by Aflatoxigenic Fungi:Â Aflatoxin Content of Closed-Shell Pistachios. Journal of Agricultural and Food Chemistry, 1998, 46, 1906-1909.	5.2	10
97	Guidelines for Research on Bioactive Constituents â€“ A Journal of Agricultural and Food Chemistry Perspective. Journal of Agricultural and Food Chemistry, 2015, 63, 8103-8105.	5.2	9
98	Formation of enamine Schiff bases by ring cleavage of pyridine. Tetrahedron, 1977, 33, 1931-1934.	1.9	7
99	Alkaloid profiles of Dermatophyllum arizonicum, Dermatophyllum gypsophilum, Dermatophyllum secundiflorum, Styphnolobium affine, and Styphnolobium japonicum previously classified as Sophora species. Biochemical Systematics and Ecology, 2013, 49, 87-93.	1.3	7
100	Identification of the quinolizidine alkaloids in Sophora leachiana. Biochemical Systematics and Ecology, 2014, 54, 1-4.	1.3	6
101	Guidelines for unequivocal structural identification of compounds with biological activity of significance in food chemistry (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 1417-1437.	1.9	5
102	Use of Herbarium Voucher Specimens To Investigate Phytochemical Composition in Poisonous Plant Research. Journal of Agricultural and Food Chemistry, 2021, 69, 4037-4047.	5.2	5
103	Ponderosa pine needle-induced parturition in cattle: analysis for presence of mycotoxins. Journal of Agricultural and Food Chemistry, 1991, 39, 927-929.	5.2	4
104	Global Perspectives on Poisonous Plants: The 9th International Symposium on Poisonous Plants. Journal of Agricultural and Food Chemistry, 2014, 62, 7323-7325.	5.2	3
105	Traceability of Food Samples: Provenance, Authentication, and Curation. Journal of Agricultural and Food Chemistry, 2017, 65, 8977-8978.	5.2	3
106	Research Opportunities for Bioactive Natural Constituents in Agriculture and Food Prepared for the 50th Anniversary of the Journal of Agricultural and Food Chemistry. Journal of Agricultural and Food Chemistry, 2002, 50, 6939-6942.	5.2	2
107	Linking Dietary Exposure to 1,2-Dehydropyrrolizidine Alkaloids with Cancers and Chemotherapy-Induced Pulmonary and Hepatic Veno-Occlusive Diseases. Journal of Agricultural and Food Chemistry, 2020, 68, 5995-5997.	5.2	2
108	High-Pressure Liquid Chromatography of Hop Constituents. Proceedings Annual Meeting - American Society of Brewing Chemists, 1973, 31, 71-74.	0.1	1

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109	Antioxidant Constituents in Tree Nuts: Health Implications and Aflatoxin Inhibition. ACS Symposium Series, 2008, , 181-191.	0.5	1
110	Inhibition of Aflatoxin Biosynthesis in Aspergillus Flavus by Phenolic Natural Products. , 2007, , 231-251.		1
111	Anti-Aflatoxigenic Constituents of Pistacia and Juglans Species. ACS Symposium Series, 1999, , 43-53.	0.5	0
112	Natural Products as Tools for Chemogenomic Analysis of Mycotoxin Biosynthesis and Fungal Stress-Response Systems. ACS Symposium Series, 2008, , 2-12.	0.5	0
113	1,2-Dehydropyrrolizidine Alkaloids: Their Potential as a Dietary Cause of Sporadic Motor Neuron Diseases. Chemical Research in Toxicology, 2022, 35, 340-354.	3.3	0