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	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
2	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
3	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
4	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
5	Traceability of Food Samples: Provenance, Authentication, and Curation. Journal of Agricultural and Food Chemistry, 2017, 65, 8977-8978.	5.2	3
6	Isolation and SAR studies of bicyclic iminosugars from Castanospermum australe as glycosidase inhibitors. Phytochemistry, 2015, 111, 124-131.	2.9	17
7	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
8	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
9	Identification of the quinolizidine alkaloids in Sophora leachiana. Biochemical Systematics and Ecology, 2014, 54, 1-4.	1.3	6
10	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
11	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
12	The alkaloid profiles of Sophora nuttalliana and Sophora stenophylla. Biochemical Systematics and Ecology, 2013, 48, 58-64.	1.3	12
13	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
14	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
15	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
16	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
17	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
18	Poisoning of sheep by seeds of Crotalaria retusa: Acquired resistance by continuous administration of low doses. Toxicon, 2010, 55, 28-32.	1.6	33

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19	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
20	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
21	Chemosensitization of fungal pathogens to antimicrobial agents using benzo analogs. FEMS Microbiology Letters, 2008, 281, 64-72.	1.8	31
22	Elucidation of the functional genomics of antioxidant-based inhibition of aflatoxin biosynthesis. International Journal of Food Microbiology, 2008, 122, 49-60.	4.7	139
23	Chemosensitization prevents tolerance of Aspergillus fumigatus to antimycotic drugs. Biochemical and Biophysical Research Communications, 2008, 372, 266-271.	2.1	33
24	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
25	Antioxidant Constituents in Tree Nuts: Health Implications and Aflatoxin Inhibition. ACS Symposium Series, 2008, , 181-191.	0.5	1
26	Natural Products as Tools for Chemogenomic Analysis of Mycotoxin Biosynthesis and Fungal Stress-Response Systems. ACS Symposium Series, 2008, , 2-12.	0.5	0
27	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
28	Compound Identification:â€‰ A Journal of Agricultural and Food Chemistry Perspective. Journal of Agricultural and Food Chemistry, 2007, 55, 4625-4629.	5.2	105
29	Phytochemicals: The good, the bad and the ugly?. Phytochemistry, 2007, 68, 2973-2985.	2.9	116
30	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
31	Mycotoxins in edible tree nuts. International Journal of Food Microbiology, 2007, 119, 72-78.	4.7	118
32	Experimental swainsonine poisoning in goats ingesting Ipomoea sericophylla and Ipomoea riedelii (Convolvulaceae). Pesquisa Veterinaria Brasileira, 2007, 27, 409-414.	0.5	21
33	Inhibition of Aflatoxin Biosynthesis in Aspergillus Flavus by Phenolic Natural Products. , 2007, , 231-251.		1
34	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
35	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
36	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

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37	Relative toxicities and neuromuscular nicotinic receptor agonistic potencies of anabasine enantiomers and anabaseine. Neurotoxicology and Teratology, 2006, 28, 220-228.	2.4	52
38	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
39	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
40	Ammodendrine andN-Methylammodendrine Enantiomers:Â Isolation, Optical Rotation, and Toxicity. Journal of Natural Products, 2005, 68, 681-685.	3.0	19
41	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
42	Phytochemical Inhibition of Aflatoxigenicity inAspergillus flavusby Constituents of Walnut (Juglans) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.2	123
43	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
44	Biomedical Applications of Poisonous Plant Research. Journal of Agricultural and Food Chemistry, 2004, 52, 3211-3230.	5.2	80
45	Phenolic and heterocyclic metabolite profiles of the grapevine pathogen Eutypa lata. Phytochemistry, 2003, 64, 475-484.	2.9	50
46	Australine and related alkaloids: easy structural confirmation by 13C NMR spectral data and biological activities. Tetrahedron: Asymmetry, 2003, 14, 325-331.	1.8	100
47	Preparative isolation of swainsonine from locoweed: extraction and puri?cation procedures. Phytochemical Analysis, 2003, 14, 259-266.	2.4	17
48	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
49	Alkaloidal Components in the Poisonous Plant,Ipomoea carnea(Convolvulaceae). Journal of Agricultural and Food Chemistry, 2003, 51, 4995-5000.	5.2	121
50	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
51	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
52	New Sugar-Mimic Alkaloids from the Pods ofAngylocalyx pynaertii. Journal of Natural Products, 2002, 65, 198-202.	3.0	77
53	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
54	Polyhydroxy alkaloids: chromatographic analysis. Journal of Chromatography A, 2002, 967, 57-74.	3.7	37

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55	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
56	Inhibitory Effects of Naturally Occurring Compounds on Aflatoxin B1Biotransformation. Journal of Agricultural and Food Chemistry, 2001, 49, 5171-5177.	5.2	85
57	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
58	Novel Î±-L-fucosidase inhibitors from the bark ofAngylocalyx pynaertii(Leguminosae). FEBS Journal, 2001, 268, 35-41.	0.2	64
59	Polyhydroxylated alkaloidsÂâ€" natural occurrence and therapeutic applications. Phytochemistry, 2001, 56, 265-295.	2.9	664
60	Sugar-mimic glycosidase inhibitors: natural occurrence, biological activity and prospects for therapeutic application. Tetrahedron: Asymmetry, 2000, 11, 1645-1680.	1.8	982
61	Regulation of Aflatoxin Production by Naphthoquinones of Walnut (Juglansregia). Journal of Agricultural and Food Chemistry, 2000, 48, 4418-4421.	5.2	51
62	A Lysosomal Storage Disease Induced by Ipomoea Carnea in Goats in Mozambique. Journal of Veterinary Diagnostic Investigation, 1999, 11, 266-273.	1.1	108
63	Dose Response of Sheep Poisoned with Locoweed (Oxytropis Sericea). Journal of Veterinary Diagnostic Investigation, 1999, 11, 448-456.	1.1	47
64	Anti-Aflatoxigenic Constituents of Pistacia and Juglans Species. ACS Symposium Series, 1999, , 43-53.	0.5	0
65	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
66	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
67	The effects of calystegines isolated from edible fruits and vegetables on mammalian liver glycosidases. Glycobiology, 1997, 7, 1085-1088.	2.5	79
68	Specific alpha-Galactosidase Inhibitors, N-Methylcalystegines Structure/Activity Relationships of Calystegines from Lycium Chinense. FEBS Journal, 1997, 248, 296-303.	0.2	94
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	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
71	Operant analysis of chronic locoweed intoxication in sheep.. Journal of Animal Science, 1996, 74, 2622.	0.5	16
72	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

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73	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
74	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
75	Identification of the Glycosidase Inhibitors Swainsonine and Calystegine B2 in Weir Vine (Ipomoea sp.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.0	169
76	Effect of Natural Toxins on Reproduction. Veterinary Clinics of North America - Food Animal Practice, 1994, 10, 587-603.	1.2	17
77	Serum Î±-Mannosidase Activity and the Clinicopathologic Alterations of Locoweed (Astragalus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 473-479.	1.1	26
78	A general method for high performance liquid chromatography of pyrrolizidine alkaloid free bases andN-oxides. Phytochemical Analysis, 1994, 5, 251-255.	2.4	16
79	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
80	Isolation, characterization and analysis of polyhydroxy alkaloids. Phytochemical Analysis, 1993, 4, 193-204.	2.4	25
81	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
82	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
83	The effect of natural toxins on reproduction in livestock. Journal of Animal Science, 1992, 70, 1573-1579.	0.5	48
84	Gc-ms Determination of Pyrrolizidine Alkaloids in Four Senecio Species. Journal of Natural Products, 1991, 54, 759-773.	3.0	51
85	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
86	DNA cross-linking in mammalian cells by pyrrolizidine alkaloids: Structure-activity relationships. Toxicology and Applied Pharmacology, 1991, 111, 90-98.	2.8	97
87	Unambiguous nuclear magnetic resonance assignments for swainsonine, an indolizidine alkaloid with Î±-mannosidase inhibitory activity. Phytochemical Analysis, 1991, 2, 120-124.	2.4	11
88	Analysis and distribution of swainsonine and related polyhydroxyindolizidine alkaloids by thin layer chromatography. Phytochemical Analysis, 1991, 2, 125-129.	2.4	51
89	Honeydew analysis for detecting phloem transport of plant natural products. Journal of Chemical Ecology, 1990, 16, 1899-1909.	1.8	61
90	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

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91	7-Deoxy-6-epi-castanospermine, a Trihydroxyindolizidine Alkaloid Glycosidase Inhibitor from Castanospermum australe. Journal of Natural Products, 1990, 53, 609-614.	3.0	61
92	1-Epiastraline, a new pyrrolizidine alkaloid from Castanospermum australe. Tetrahedron Letters, 1989, 30, 5685-5688.	1.4	55
93	Identification of Senecionine and Senecionine N-Oxide as Antifertility Constituents in Senecio vulgaris. Journal of Pharmaceutical Sciences, 1988, 77, 461-463.	3.3	14
94	Biosynthesis of swainsonine in the diablo locoweed (Astragalus oxyphyrus). Tetrahedron Letters, 1988, 29, 4815-4818.	1.4	67
95	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
96	Australine, a Novel Pyrrolizidine Alkaloid Glucosidase Inhibitor from Castanospermum australe. Journal of Natural Products, 1988, 51, 1198-1206.	3.0	187
97	Alkaloids of Rothia trifoliata and Rothia hirsuta. Journal of Natural Products, 1988, 51, 809-811.	3.0	29
98	Occurrence, Concentration, and Toxicity of Pyrrolizidine Alkaloids in Crotalaria Seeds. Weed Science, 1987, 35, 476-481.	1.5	63
99	Pyrrolizidine alkaloids: Testing for toxic constituents of comfrey. Journal of Chemical Education, 1987, 64, 1027.	2.3	13
100	Differential inhibition by castanospermine of various insect disaccharidases. Journal of Chemical Ecology, 1987, 13, 1759-1770.	1.8	60
101	6-Epicastanospermine, a novel indolizidine alkaloid that inhibits Î±-glucosidase. Archives of Biochemistry and Biophysics, 1986, 251, 450-457.	3.0	95
102	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
103	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
104	Extraordinary Levels of Production of Pyrrolizidine Alkaloids in Senecio riddellii. Journal of Natural Products, 1984, 47, 1030-1032.	3.0	33
105	Castanospermine, a tetrahydroxylated alkaloid that inhibits Î²-glucosidase and Î²-glucocerebrosidase. Archives of Biochemistry and Biophysics, 1983, 221, 593-597.	3.0	299
106	13C NMR spectroscopy of Pyrrolizidine alkaloids. Phytochemistry, 1982, 21, 439-443.	2.9	34
107	Specific detection of pyrrolizidine alkaloids on thin-layer chromatograms. Journal of Chromatography A, 1980, 195, 412-415.	3.7	49
108	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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109	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
110	Formation of enamine Schiff bases by ring cleavage of pyridine. Tetrahedron, 1977, 33, 1931-1934.	1.9	7
111	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
112	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
113	High-Pressure Liquid Chromatography of Hop Constituents. Proceedings Annual Meeting - American Society of Brewing Chemists, 1973, 31, 71-74.	0.1	1