Daryl D Rowan

List of Publications by Year
in descending order

81 papers	4,096 citations	147801 31 h-index	114465 63 g-index
82 all docs	82 docs citations	82 times ranked	3738 citing authors

#	Article	IF	Citations
1	Kiwifruit Metabolomicsâ€"An Investigation of within Orchard Metabolite Variability of Two Cultivars of Actinidia chinensis. Metabolites, 2021, 11, 603.	2.9	2
2	Homozygosity Mapping Reveals Population History and Trait Architecture in Self-Incompatible Pear (Pyrus spp.). Frontiers in Plant Science, 2020, 11, 590846.	3.6	7
3	Genetic control of Î±â€farnesene production in apple fruit and its role in fungal pathogenesis. Plant Journal, 2019, 100, 1148-1162.	5.7	26
4	Mechanisms of Selenium Enrichment and Measurement in Brassicaceous Vegetables, and Their Application to Human Health. Frontiers in Plant Science, 2017, 8, 1365.	3.6	87
5	Chemical Assignment of Structural Isomers of Sulfur-Containing Metabolites in Garlic by Liquid Chromatographyâ^'Fourier Transform Ion Cyclotron Resonanceâ^'Mass Spectrometry. Journal of Nutrition, 2016, 146, 397S-402S.	2.9	28
6	The <scp>O</scp>â€methyltransferase gene <scp>M</scp>do<scp>OMT</scp>1 is required for biosynthesis of methylated phenylpropenes in ripe apple fruit. Plant Journal, 2015, 82, 937-950.	5.7	35
7	Identification and Distribution of Selenium-Containing Glucosinolate Analogues in Tissues of Three Brassicaceae Species. Proceedings of the International Plant Sulfur Workshop, 2015, , 239-246.	0.1	0
8	Distribution of Selenoglucosinolates and Their Metabolites in Brassica Treated with Sodium Selenate. Journal of Agricultural and Food Chemistry, 2015, 63, 1896-1905.	5.2	33
9	Genome-wide scans reveal genetic architecture of apple flavour volatiles. Molecular Breeding, 2015, 35, 1.	2.1	31
10	The <scp>AAT</scp>1 locus is critical for the biosynthesis of esters contributing to â€˜ripe appleâ€™ flavour in â€˜Royal Galaâ€™ and â€˜Granny Smithâ€™ apples. Plant Journal, 2014, 78, 903-915.	5.7	76
11	Redâ€foliaged apples affect the establishment, growth, and development of the light brown apple moth, <scp>E</scp>piphyas postvittana. Entomologia Experimentalis Et Applicata, 2013, 146, 261-275.	1.4	11
12	Analysis of genetically modified redâ€fleshed apples reveals effects on growth and consumer attributes. Plant Biotechnology Journal, 2013, 11, 408-419.	8.3	92
13	Selenoglucosinolates and their metabolites produced in Brassica spp. fertilised with sodium selenate. Phytochemistry, 2012, 75, 140-152.	2.9	59
14	Metabolomics for measuring phytochemicals, and assessing human and animal responses to phytochemicals, in food science. Molecular Nutrition and Food Research, 2012, 56, 147-158.	3.3	49
15	Volatile Metabolites. Metabolites, 2011, 1, 41-63.	2.9	102
16	High temperature reduces apple fruit colour via modulation of the anthocyanin regulatory complex. Plant, Cell and Environment, 2011, 34, 1176-1190.	5.7	330
17	Metabolomic analysis reveals differences in urinary excretion of kiwifruitâ€derived metabolites in a mouse model of inflammatory bowel disease. Molecular Nutrition and Food Research, 2011, 55, 1900-1904.	3.3	10
18	Using metabolomic analysis to understand inflammatory bowel diseases. Inflammatory Bowel Diseases, 2011, 17, 1021-1029.	1.9	56

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19	Biosynthesis and enantioselectivity in the production of the lilac compounds in Actinidia arguta flowers. Phytochemistry, 2011, 72, 579-586.	2.9	6
20	Identification of Urinary Biomarkers of Colon Inflammation in IL10^{-/-}Mice Using Short-Column LCMS Metabolomics. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-12.	3.0	19
21	Metabolomic Analysis Identifies Inflammatory and Noninflammatory Metabolic Effects of Genetic Modification in a Mouse Model of Crohnâ€™s Disease. Journal of Proteome Research, 2010, 9, 1965-1975.	3.7	64
22	Organoselenides from Nicotiana tabacum genetically modified to accumulate selenium. Phytochemistry, 2009, 70, 1098-1106.	2.9	14
23	Accumulation of an organic anticancer selenium compound in a transgenic Solanaceous species shows wider applicability of the selenocysteine methyltransferase transgene from selenium hyperaccumulators. Transgenic Research, 2009, 18, 407-424.	2.4	26
24	Environmental regulation of leaf colour in red 35S:PAP1 Arabidopsis thaliana. New Phytologist, 2009, 182, 102-115.	7.3	215
25	Heritability and Genetic and Phenotypic Correlations of Apple (MalusÃ—domestica) Fruit Volatiles in a Genetically Diverse Breeding Population. Journal of Agricultural and Food Chemistry, 2009, 57, 7944-7952.	5.2	35
26	Profiling Fruit Volatiles in the Progeny of a â€˜Royal Galaâ€™ Ã— â€˜Granny Smithâ€™ Apple (MalusÃ—domestica) Cross. Journal of Agricultural and Food Chemistry, 2009, 57, 7953-7961.	5.2	51
27	Nontargeted Urinary Metabolite Profiling of a Mouse Model of Crohnâ€™s Disease. Journal of Proteome Research, 2009, 8, 2045-2057.	3.7	59
28	Allantoin as A Biomarker of Inflammation in an Inflammatory Bowel Disease Mouse Model: NMR Analysis of Urine. The Open Bioactive Compounds Journal, 2008, 1, 1-6.	0.8	12
29	Pathway Analysis of Branched-Chain Ester Biosynthesis in Apple Using Deuterium Labeling and Enantioselective Gas Chromatographyâ€'Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2007, 55, 2727-2735.	5.2	64
30	Unusual features of a recombinant apple Î±-farnesene synthase. Phytochemistry, 2007, 68, 176-188.	2.9	70
31	Chirality and biosynthesis of lilac compounds in Actinidia arguta flowers. Phytochemistry, 2007, 68, 1746-1751.	2.9	13
32	Structural Identification of Two Major Anthocyanin Components of Boysenberry by NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2006, 54, 8756-8761.	5.2	35
33	Lilac alcohol epoxide: A linalool derivative in Actinidia arguta flowers. Phytochemistry, 2006, 67, 759-763.	2.9	7
34	Synthesis ofd8-geranyl diphosphate. Journal of Labelled Compounds and Radiopharmaceuticals, 2006, 49, 47-54.	1.0	7
35	Synthesis of deuterated dihydrochalcones. Journal of Labelled Compounds and Radiopharmaceuticals, 2006, 49, 479-487.	1.0	0
36	Synthesis of Deuterated Î³-Lactones for Use in Stable Isotope Dilution Assays. Journal of Agricultural and Food Chemistry, 2004, 52, 7075-7083.	5.2	19

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37	1-(Cholest-4-en-3Î²-yl)-2,2,2-trichloroethanimidatetert-butyl methyl ether hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o533-o534.	0.2	0
38	Conjugated Triene Oxidation Products of Î±-Farnesene Induce Symptoms of Superficial Scald on Stored Apples. Journal of Agricultural and Food Chemistry, 2001, 49, 2780-2787.	5.2	76
39	First Synthesis of the Dendralene Family of Fundamental Hydrocarbons. Angewandte Chemie - International Edition, 2000, 39, 4331-4333.	13.8	83
40	Synthesis of deuterated C-6 and C-9 flavour volatiles. Journal of Labelled Compounds and Radiopharmaceuticals, 1999, 42, 83-92.	1.0	5
41	Biosynthesis of Straight-Chain Ester Volatiles in Red Delicious and Granny Smith Apples Using Deuterium-Labeled Precursors. Journal of Agricultural and Food Chemistry, 1999, 47, 2553-2562.	5.2	142
42	Modification of Î±-farnesene levels in cool-stored `Granny Smith' apples by ventilation. Postharvest Biology and Technology, 1998, 14, 159-170.	6.0	10
43	Synthesis of sesquiterpene polyene hydroperoxides by regio- and stereoselective transposition reactions. Tetrahedron, 1998, 54, 12907-12922.	1.9	17
44	METABOLISM OF AMINO ACIDS INTO AROMA VOLATILES BY FIVE APPLE CULTIVARS. Acta Horticulturae, 1998, , 490-490.	0.2	3
45	Solid Phase Microextraction for Quantitative Headspace Sampling of Apple Volatiles. Analytical Chemistry, 1996, 68, 4114-4118.	6.5	165
46	Biosynthesis of 2-Methylbutyl, 2-Methyl-2-butenyl, and 2-Methylbutanoate Esters in Red Delicious and Granny Smith Apples Using Deuterium-Labeled Substrates. Journal of Agricultural and Food Chemistry, 1996, 44, 3276-3285.	5.2	121
47	Volatile Constituents of Ripe Boysenberry Fruit. Journal of Essential Oil Research, 1996, 8, 351-353.	2.7	0
48	Synthesis of Î±-Farnesene Hydroperoxides. Synlett, 1996, 1996, 349-350.	1.8	15
49	Synthesis of Chiral Hydroxylated Farnesene Derivatives. Synthesis, 1996, 1996, 116-122.	2.3	5
50	The synthesis of 3,4-2H2-3Z-hexenal and 6,6,6-2H3-3Z-hexenal. Journal of Labelled Compounds and Radiopharmaceuticals, 1995, 36, 465-470.	1.0	17
51	Enantioselective Synthesis of the Apple Aroma Constituent 1,3,3-Trimethyl-2,7-dioxabicyclo[2.2.1]heptane via Asymmetric Dihydroxylation. Synthesis, 1995, 1995, 1263-1266.	2.3	8
52	Identification of Conjugated Triene Oxidation Products of .alpha.-Farnesene in Apple Skin. Journal of Agricultural and Food Chemistry, 1995, 43, 2040-2045.	5.2	86
53	Synthesis of Conjugated Trienes and Related Oxidation Products of Î±-Farnesene. Australian Journal of Chemistry, 1994, 47, 1979.	0.9	12
54	Asymmetric dihydroxylation of Î±- and Î²-farnesene. Tetrahedron Letters, 1994, 35, 9445-9446.	1.4	5

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55	The synthesis of 6,6,6-2H3-2E-hexenal. Journal of Labelled Compounds and Radiopharmaceuticals, 1994, 34, 199-204.	1.0	2
56	The synthesis of d6-Î±-farnesene. Journal of Labelled Compounds and Radiopharmaceuticals, 1994, 34, 1075-1085.	1.0	8
57	The synthesis of 4-2H-Î±-farnesene and 1-2H-Î±-farnesene. Journal of Labelled Compounds and Radiopharmaceuticals, 1993, 33, 965-975.	1.0	5
58	Taxonomy of Acremonium endophytes of tall fescue (Festuca arundinacea), meadow fescue (F.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.5	214
59	Lolitrems, peramine and paxilline: Mycotoxins of the ryegrass/endophyte interaction. Agriculture, Ecosystems and Environment, 1993, 44, 103-122.	5.3	113
60	Oxidation of Î±-Farnesene. Australian Journal of Chemistry, 1993, 46, 1929.	0.9	18
61	3Î²-methoxyhop-22(29)-ene from Chionochloa cheesemanii. Phytochemistry, 1992, 31, 702-703.	2.9	17
62	Fungal endophyte-infected grasses: Alkaloid accumulation and aphid response. Journal of Chemical Ecology, 1990, 16, 3301-3315.	1.8	373
63	Effect of fungal metabolite peramine and analogs on feeding and development of argentine stem weevil (Listronotus bonariensis). Journal of Chemical Ecology, 1990, 16, 1683-1695.	1.8	103
64	Analysis of peramine in fungal endophyte-infected grasses by reversed-phase thin-layer chromatography. Journal of Chromatography A, 1990, 503, 288-292.	3.7	25
65	Synthesis of the insect feeding deterrent peramine via Michael addition of a pyrrole anion to a nitroalkene. Journal of the Chemical Society Perkin Transactions 1, 1990, , 311.	0.9	31
66	Detection and measurement of the alkaloid peramine in endophyte-infected grasses. Journal of Chromatography A, 1989, 463, 133-138.	3.7	30
67	An Efficient Method for the Isolation of Peramine, an Insect Feeding Deterrent Produced by the Fungus Acremonium Lolii. Journal of Natural Products, 1989, 52, 193-195.	3.0	16
68	Synthesis of peramine, an insect feeding deterrent mycotoxin from Acremonium lolii. Journal of the Chemical Society Chemical Communications, 1988, , 978.	2.0	14
69	Peramine, a novel insect feeding deterrent from ryegrass infected with the endophyte Acremonium loliae. Journal of the Chemical Society Chemical Communications, 1986, , 935.	2.0	118
70	Isolation of feeding deterrents against argentine stem weevil from ryegrass infected with the endophyteAcremonium loliae. Journal of Chemical Ecology, 1986, 12, 647-658.	1.8	186
71	Noroleanane saponins from Celmisia petriei. Phytochemistry, 1984, 23, 639-644.	2.9	29
72	The structure of 19Î±H-Lupeol methyl ether from Chionochloa bromoides. Australian Journal of Chemistry, 1984, 37, 1341.	0.9	14

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73	Antifungal stress metabolites from Solanum aviculare. Phytochemistry, 1983, 22, 2102-2104.	2.9	26
74	Structure odour studies with nitrogen derivatives of diterpene-derived acetals. Australian Journal of Chemistry, 1983, 36, 1197.	0.9	13
75	The acid-catalyzed oxido-reduction of spiroketals. Evidence for stereoelectronic control in hydride transfer to cyclic oxenium ions. Canadian Journal of Chemistry, 1981, 59, 2787-2802.	1.1	12
76	1,7-Dioxaspiro[5.5]undecanes. An excellent system for the study of stereoelectronic effects (anomeric) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	144
77	1,7-Dithia and 1-oxa-7-thiaspiro[5.5]undecanes. Excellent systems for the study of stereoelectronic effects (anomeric and exo-anomeric effects) in the monothio and the dithioacetal functions. Canadian Journal of Chemistry, 1981, 59, 1122-1131.	1.1	22
78	13C chemical shift data for 1,7-dioxaspiro[5.5]undecanes and related compounds. Canadian Journal of Chemistry, 1981, 59, 1132-1139.	1.1	29
79	Novel 1,5-Diepoxide rearrangements. Australian Journal of Chemistry, 1981, 34, 1975.	0.9	3
80	The Acid-catalyzed Oxidoreduction of Spiroketals. Evidence for Seteroelectronic Control in Hydride Transfer to Cyclic Oxenium Ions. Heterocycles, 1981, 15, 1093.	0.7	7
81	Diterpene Chemistry. XI. Synthesis of Perfumery Compounds from Labda-8(17),14-dien-13-ol (Manool). Australian Journal of Chemistry, 1979, 32, 1395.	0.9	4