

# Daryl D Rowan

## List of Publications by Year in descending order

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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	Fungal endophyte-infected grasses: Alkaloid accumulation and aphid response. <i>Journal of Chemical Ecology</i> , 1990, 16, 3301-3315.	1.8	373
2	High temperature reduces apple fruit colour via modulation of the anthocyanin regulatory complex. <i>Plant, Cell and Environment</i> , 2011, 34, 1176-1190.	5.7	330
3	Environmental regulation of leaf colour in red <i>35S:PAP1 Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2009, 182, 102-115.	7.3	215
4	Taxonomy of Acremonium endophytes of tall fescue ( <i>Festuca arundinacea</i> ), meadow fescue ( <i>F.</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i>	2.5	214
5	Isolation of feeding deterrents against argentine stem weevil from ryegrass infected with the endophyte <i>Acremonium loliae</i> . <i>Journal of Chemical Ecology</i> , 1986, 12, 647-658.	1.8	186
6	Solid Phase Microextraction for Quantitative Headspace Sampling of Apple Volatiles. <i>Analytical Chemistry</i> , 1996, 68, 4114-4118.	6.5	165
7	1,7-Dioxaspiro[5.5]undecanes. An excellent system for the study of stereoelectronic effects (anomeric) <i>Tj ETQq1 1.0,784314 rgBT /Overlock 10 Tf 50 62</i>	1.1	144
8	Biosynthesis of Straight-Chain Ester Volatiles in Red Delicious and Granny Smith Apples Using Deuterium-Labeled Precursors. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 2553-2562.	5.2	142
9	Biosynthesis of 2-Methylbutyl, 2-Methyl-2-butenyl, and 2-Methylbutanoate Esters in Red Delicious and Granny Smith Apples Using Deuterium-Labeled Substrates. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 3276-3285.	5.2	121
10	Peramine, a novel insect feeding deterrent from ryegrass infected with the endophyte <i>Acremonium loliae</i> . <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 935.	2.0	118
11	Lolitrems, peramine and paxilline: Mycotoxins of the ryegrass/endophyte interaction. <i>Agriculture, Ecosystems and Environment</i> , 1993, 44, 103-122.	5.3	113
12	Effect of fungal metabolite peramine and analogs on feeding and development of argentine stem weevil ( <i>Listronotus bonariensis</i> ). <i>Journal of Chemical Ecology</i> , 1990, 16, 1683-1695.	1.8	103
13	Volatile Metabolites. <i>Metabolites</i> , 2011, 1, 41-63.	2.9	102
14	Analysis of genetically modified red-fleshed apples reveals effects on growth and consumer attributes. <i>Plant Biotechnology Journal</i> , 2013, 11, 408-419.	8.3	92
15	Mechanisms of Selenium Enrichment and Measurement in Brassicaceous Vegetables, and Their Application to Human Health. <i>Frontiers in Plant Science</i> , 2017, 8, 1365.	3.6	87
16	Identification of Conjugated Triene Oxidation Products of $\alpha$ -Farnesene in Apple Skin. <i>Journal of Agricultural and Food Chemistry</i> , 1995, 43, 2040-2045.	5.2	86
17	First Synthesis of the Dendralene Family of Fundamental Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4331-4333.	13.8	83
18	Conjugated Triene Oxidation Products of $\alpha$ -Farnesene Induce Symptoms of Superficial Scald on Stored Apples. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 2780-2787.	5.2	76

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19	The <i>AAT1</i> locus is critical for the biosynthesis of esters contributing to "ripe apple" flavour in "Royal Gala" and "Granny Smith" apples. <i>Plant Journal</i> , 2014, 78, 903-915.	5.7	76
20	Unusual features of a recombinant apple $\pm$ -farnesene synthase. <i>Phytochemistry</i> , 2007, 68, 176-188.	2.9	70
21	Pathway Analysis of Branched-Chain Ester Biosynthesis in Apple Using Deuterium Labeling and Enantioselective Gas Chromatography-Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2727-2735.	5.2	64
22	Metabolomic Analysis Identifies Inflammatory and Noninflammatory Metabolic Effects of Genetic Modification in a Mouse Model of Crohn's Disease. <i>Journal of Proteome Research</i> , 2010, 9, 1965-1975.	3.7	64
23	Nontargeted Urinary Metabolite Profiling of a Mouse Model of Crohn's Disease. <i>Journal of Proteome Research</i> , 2009, 8, 2045-2057.	3.7	59
24	Selenoglucosinolates and their metabolites produced in Brassica spp. fertilised with sodium selenate. <i>Phytochemistry</i> , 2012, 75, 140-152.	2.9	59
25	Using metabolomic analysis to understand inflammatory bowel diseases. <i>Inflammatory Bowel Diseases</i> , 2011, 17, 1021-1029.	1.9	56
26	Profiling Fruit Volatiles in the Progeny of a "Royal Gala" $\times$ "Granny Smith" Apple ( <i>Malus domestica</i> ) Cross. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 7953-7961.	5.2	51
27	Metabolomics for measuring phytochemicals, and assessing human and animal responses to phytochemicals, in food science. <i>Molecular Nutrition and Food Research</i> , 2012, 56, 147-158.	3.3	49
28	Structural Identification of Two Major Anthocyanin Components of Boysenberry by NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 8756-8761.	5.2	35
29	Heritability and Genetic and Phenotypic Correlations of Apple ( <i>Malus domestica</i> ) Fruit Volatiles in a Genetically Diverse Breeding Population. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 7944-7952.	5.2	35
30	The <i>OMT1</i> methyltransferase gene <i>MdoOMT1</i> is required for biosynthesis of methylated phenylpropenes in ripe apple fruit. <i>Plant Journal</i> , 2015, 82, 937-950.	5.7	35
31	Distribution of Selenoglucosinolates and Their Metabolites in Brassica Treated with Sodium Selenate. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1896-1905.	5.2	33
32	Synthesis of the insect feeding deterrent peramine via Michael addition of a pyrrole anion to a nitroalkene. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1990, , 311.	0.9	31
33	Genome-wide scans reveal genetic architecture of apple flavour volatiles. <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	31
34	Detection and measurement of the alkaloid peramine in endophyte-infected grasses. <i>Journal of Chromatography A</i> , 1989, 463, 133-138.	3.7	30
35	<sup>13</sup> C chemical shift data for 1,7-dioxaspiro[5.5]undecanes and related compounds. <i>Canadian Journal of Chemistry</i> , 1981, 59, 1132-1139.	1.1	29
36	Noroleanane saponins from <i>Celmisia petriei</i> . <i>Phytochemistry</i> , 1984, 23, 639-644.	2.9	29

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37	Chemical Assignment of Structural Isomers of Sulfur-Containing Metabolites in Garlic by Liquid Chromatography <sup>â</sup> Fourier Transform Ion Cyclotron Resonance <sup>â</sup> Mass Spectrometry. <i>Journal of Nutrition</i> , 2016, 146, 397S-402S.	2.9	28
38	Antifungal stress metabolites from <i>Solanum aviculare</i> . <i>Phytochemistry</i> , 1983, 22, 2102-2104.	2.9	26
39	Accumulation of an organic anticancer selenium compound in a transgenic Solanaceous species shows wider applicability of the selenocysteine methyltransferase transgene from selenium hyperaccumulators. <i>Transgenic Research</i> , 2009, 18, 407-424.	2.4	26
40	Genetic control of $\hat{1}\pm$ farnesene production in apple fruit and its role in fungal pathogenesis. <i>Plant Journal</i> , 2019, 100, 1148-1162.	5.7	26
41	Analysis of peramine in fungal endophyte-infected grasses by reversed-phase thin-layer chromatography. <i>Journal of Chromatography A</i> , 1990, 503, 288-292.	3.7	25
42	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. <i>Canadian Journal of Chemistry</i> , 1981, 59, 1122-1131.	1.1	22
43	Synthesis of Deuterated $\hat{1}^3$ -Lactones for Use in Stable Isotope Dilution Assays. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 7075-7083.	5.2	19
44	Identification of Urinary Biomarkers of Colon Inflammation in IL10 <sup>&lt;sup&gt;-/-&lt;/sup&gt;</sup> Mice Using Short-Column LCMS Metabolomics. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-12.	3.0	19
45	Oxidation of $\hat{1}\pm$ -Farnesene. <i>Australian Journal of Chemistry</i> , 1993, 46, 1929.	0.9	18
46	3 $\hat{1}^2$ -methoxyhop-22(29)-ene from <i>Chionochloa cheesemanii</i> . <i>Phytochemistry</i> , 1992, 31, 702-703.	2.9	17
47	The synthesis of 3,4-2H <sup>2</sup> -3Z-hexenal and 6,6,6-2H <sup>3</sup> -3Z-hexenal. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1995, 36, 465-470.	1.0	17
48	Synthesis of sesquiterpene polyene hydroperoxides by regio- and stereoselective transposition reactions. <i>Tetrahedron</i> , 1998, 54, 12907-12922.	1.9	17
49	An Efficient Method for the Isolation of Peramine, an Insect Feeding Deterrent Produced by the Fungus <i>Acremonium lolii</i> . <i>Journal of Natural Products</i> , 1989, 52, 193-195.	3.0	16
50	Synthesis of $\hat{1}\pm$ -Farnesene Hydroperoxides. <i>Synlett</i> , 1996, 1996, 349-350.	1.8	15
51	The structure of 19 $\hat{1}\pm$ H-Lupeol methyl ether from <i>Chionochloa bromoides</i> . <i>Australian Journal of Chemistry</i> , 1984, 37, 1341.	0.9	14
52	Synthesis of peramine, an insect feeding deterrent mycotoxin from <i>Acremonium lolii</i> . <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 978.	2.0	14
53	Organoselenides from <i>Nicotiana tabacum</i> genetically modified to accumulate selenium. <i>Phytochemistry</i> , 2009, 70, 1098-1106.	2.9	14
54	Structure odour studies with nitrogen derivatives of diterpene-derived acetals. <i>Australian Journal of Chemistry</i> , 1983, 36, 1197.	0.9	13

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55	Chirality and biosynthesis of lilac compounds in <i>Actinidia arguta</i> flowers. <i>Phytochemistry</i> , 2007, 68, 1746-1751.	2.9	13
56	The acid-catalyzed oxido-reduction of spiroketals. Evidence for stereoelectronic control in hydride transfer to cyclic oxenium ions. <i>Canadian Journal of Chemistry</i> , 1981, 59, 2787-2802.	1.1	12
57	Synthesis of Conjugated Trienes and Related Oxidation Products of $\hat{1}\pm$ -Farnesene. <i>Australian Journal of Chemistry</i> , 1994, 47, 1979.	0.9	12
58	Allantoin as A Biomarker of Inflammation in an Inflammatory Bowel Disease Mouse Model: NMR Analysis of Urine. <i>The Open Bioactive Compounds Journal</i> , 2008, 1, 1-6.	0.8	12
59	Red-leafed apples affect the establishment, growth, and development of the light brown apple moth, <i>Pipha postvittana</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2013, 146, 261-275.	1.4	11
60	Modification of $\hat{1}\pm$ -farnesene levels in cool-stored 'Granny Smith' apples by ventilation. <i>Postharvest Biology and Technology</i> , 1998, 14, 159-170.	6.0	10
61	Metabolomic analysis reveals differences in urinary excretion of kiwifruit-derived metabolites in a mouse model of inflammatory bowel disease. <i>Molecular Nutrition and Food Research</i> , 2011, 55, 1900-1904.	3.3	10
62	The synthesis of $d_6$ - $\hat{1}\pm$ -farnesene. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1994, 34, 1075-1085.	1.0	8
63	Enantioselective Synthesis of the Apple Aroma Constituent 1,3,3-Trimethyl-2,7-dioxabicyclo[2.2.1]heptane via Asymmetric Dihydroxylation. <i>Synthesis</i> , 1995, 1995, 1263-1266.	2.3	8
64	Lilac alcohol epoxide: A linalool derivative in <i>Actinidia arguta</i> flowers. <i>Phytochemistry</i> , 2006, 67, 759-763.	2.9	7
65	Synthesis of $d_8$ -geranyl diphosphate. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2006, 49, 47-54.	1.0	7
66	Homozygosity Mapping Reveals Population History and Trait Architecture in Self-Incompatible Pear ( <i>Pyrus</i> spp.). <i>Frontiers in Plant Science</i> , 2020, 11, 590846.	3.6	7
67	The Acid-catalyzed Oxidoreduction of Spiroketals. Evidence for Stereoelectronic Control in Hydride Transfer to Cyclic Oxenium Ions. <i>Heterocycles</i> , 1981, 15, 1093.	0.7	7
68	Biosynthesis and enantioselectivity in the production of the lilac compounds in <i>Actinidia arguta</i> flowers. <i>Phytochemistry</i> , 2011, 72, 579-586.	2.9	6
69	The synthesis of 4-2H- $\hat{1}\pm$ -farnesene and 1-2H- $\hat{1}\pm$ -farnesene. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1993, 33, 965-975.	1.0	5
70	Asymmetric dihydroxylation of $\hat{1}\pm$ - and $\hat{2}\pm$ -farnesene. <i>Tetrahedron Letters</i> , 1994, 35, 9445-9446.	1.4	5
71	Synthesis of Chiral Hydroxylated Farnesene Derivatives. <i>Synthesis</i> , 1996, 1996, 116-122.	2.3	5
72	Synthesis of deuterated C-6 and C-9 flavour volatiles. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1999, 42, 83-92.	1.0	5

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73	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
74	Novel 1,5-Diepoxide rearrangements. Australian Journal of Chemistry, 1981, 34, 1975.	0.9	3
75	METABOLISM OF AMINO ACIDS INTO AROMA VOLATILES BY FIVE APPLE CULTIVARS. Acta Horticulturae, 1998, , 490-490.	0.2	3
76	The synthesis of 6,6,6-2H3-2E-hexenal. Journal of Labelled Compounds and Radiopharmaceuticals, 1994, 34, 199-204.	1.0	2
77	Kiwifruit Metabolomics—An Investigation of within Orchard Metabolite Variability of Two Cultivars of Actinidia chinensis. Metabolites, 2021, 11, 603.	2.9	2
78	Volatile Constituents of Ripe Boysenberry Fruit. Journal of Essential Oil Research, 1996, 8, 351-353.	2.7	0
79	1-(Cholest-4-en-3 <sup>yl</sup> )-2,2,2-trichloroethanimidatetert-butyl methyl ether hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o533-o534.	0.2	0
80	Synthesis of deuterated dihydrochalcones. Journal of Labelled Compounds and Radiopharmaceuticals, 2006, 49, 479-487.	1.0	0
81	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