

Gavin R Flematti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8399908/publications.pdf>

Version: 2024-02-01

70
papers

5,714
citations

117453

34
h-index

95083

68
g-index

74
all docs

74
docs citations

74
times ranked

3275
citing authors

#	ARTICLE	IF	CITATIONS
1	Three Chemically Distinct Floral Ecotypes in <i>Drakaea livida</i> , an Orchid Pollinated by Sexual Deception of Thynnine Wasps. <i>Plants</i> , 2022, 11, 260.	1.6	5
2	Drakolide Structure-activity Relationships for Sexual Attraction of Zeleboria Wasp Pollinator. <i>Journal of Chemical Ecology</i> , 2022, 48, 323-336.	0.9	2
3	Desmethyl butenolides are optimal ligands for karrikin receptor proteins. <i>New Phytologist</i> , 2021, 230, 1003-1016.	3.5	29
4	An unusual tricosatriene is crucial for male fungus gnat attraction and exploitation by sexually deceptive <i>Pterostylis</i> orchids. <i>Current Biology</i> , 2021, 31, 1954-1961.e7.	1.8	19
5	Pyroxasulfone-Resistant Annual Ryegrass (<i>Lolium rigidum</i>) Has Enhanced Capacity for Glutathione Transferase-Mediated Pyroxasulfone Conjugation. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 6414-6422.	2.4	9
6	A Specific Blend of Drakolide and Hydroxymethylpyrazines: An Unusual Pollinator Sexual Attractant Used by the Endangered Orchid <i>Drakaea micrantha</i> . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1124-1128.	7.2	13
7	Structure-Function Analysis of SMAX1 Reveals Domains That Mediate Its Karrikin-Induced Proteolysis and Interaction with the Receptor KAI2. <i>Plant Cell</i> , 2020, 32, 2639-2659.	3.1	90
8	Divergent receptor proteins confer responses to different karrikins in two ephemeral weeds. <i>Nature Communications</i> , 2020, 11, 1264.	5.8	29
9	A Specific Blend of Drakolide and Hydroxymethylpyrazines: An Unusual Pollinator Sexual Attractant Used by the Endangered Orchid <i>Drakaea micrantha</i> . <i>Angewandte Chemie</i> , 2020, 132, 1140-1144.	1.6	1
10	Structure Reassignment of Echinossulfone A and the Echinossulfonic Acids A-D Supported by Single-Crystal X-ray Diffraction and Density Functional Theory Analysis. <i>Journal of Natural Products</i> , 2020, 83, 105-110.	1.5	14
11	Floral Volatiles for Pollinator Attraction and Speciation in Sexually Deceptive Orchids. , 2020, , 271-295.		7
12	Investigation of an Unusual Crystal Habit of Hydrochlorothiazide Reveals Large Polar Enantiopure Domains and a Possible Crystal Nucleation Mechanism. <i>Angewandte Chemie</i> , 2019, 131, 10361-10365.	1.6	5
13	Investigation of an Unusual Crystal Habit of Hydrochlorothiazide Reveals Large Polar Enantiopure Domains and a Possible Crystal Nucleation Mechanism. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10255-10259.	7.2	7
14	2-(Tetrahydrofuran-2-yl)acetic Acid and Ester Derivatives as Long-Range Pollinator Attractants in the Sexually Deceptive Orchid <i>Cryptostylis ovata</i> . <i>Journal of Natural Products</i> , 2019, 82, 1107-1113.	1.5	11
15	Albanitriles A-G: Antiprotozoal Polyacetylene Nitriles from a <i>Mycale</i> Marine Sponge. <i>Journal of Natural Products</i> , 2019, 82, 3450-3455.	1.5	12
16	Structure-Activity Studies of Semiochemicals from the Spider Orchid <i>Caladenia plicata</i> for Sexual Deception. <i>Journal of Chemical Ecology</i> , 2018, 44, 436-443.	0.9	9
17	(Methylthio)phenol semiochemicals are exploited by deceptive orchids as sexual attractants for <i>Campylothynnus thynnine</i> wasps. <i>FÄ-toterapÄ-Äç</i> , 2018, 126, 78-82.	1.1	12
18	Antibacterial compounds from the Australian native plant <i>Eremophila glabra</i> . <i>FÄ-toterapÄ-Äç</i> , 2018, 126, 45-52.	1.1	16

#	ARTICLE	IF	CITATIONS
19	Antimicrobial Activity of Several Cineole-Rich Western Australian Eucalyptus Essential Oils. <i>Microorganisms</i> , 2018, 6, 122.	1.6	33
20	Aurantioside C Targets and Induces Apoptosis in Triple Negative Breast Cancer Cells. <i>Marine Drugs</i> , 2018, 16, 361.	2.2	19
21	Crambescidin 800, Isolated from the Marine Sponge <i>Monanchora viridis</i> , Induces Cell Cycle Arrest and Apoptosis in Triple-Negative Breast Cancer Cells. <i>Marine Drugs</i> , 2018, 16, 53.	2.2	30
22	An allelic series at the <i>KARRIKIN INSENSITIVE2</i> locus of <i>Arabidopsis thaliana</i> decouples ligand hydrolysis and receptor degradation from downstream signalling. <i>Plant Journal</i> , 2018, 96, 75-89.	2.8	41
23	The Spider Orchid <i>Caladenia crebra</i> Produces Sulfurous Pheromone Mimics to Attract its Male Wasp Pollinator. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8455-8458.	7.2	31
24	Complex Sexual Deception in an Orchid Is Achieved by Co-opting Two Independent Biosynthetic Pathways for Pollinator Attraction. <i>Current Biology</i> , 2017, 27, 1867-1877.e5.	1.8	67
25	Assaying Germination and Seedling Responses of <i>Arabidopsis</i> to Karrikins. <i>Methods in Molecular Biology</i> , 2017, 1497, 29-36.	0.4	9
26	Reporter Gene-Facilitated Detection of Compounds in <i>Arabidopsis</i> Leaf Extracts that Activate the Karrikin Signaling Pathway. <i>Frontiers in Plant Science</i> , 2016, 7, 1799.	1.7	48
27	Pollination by sexual deception – it takes chemistry to work. <i>Current Opinion in Plant Biology</i> , 2016, 32, 37-46.	3.5	84
28	Access to 1,2,3,4-Tetraoxygenated Benzenes via a Double Baeyer-Villiger Reaction of Quinizarin Dimethyl Ether: Application to the Synthesis of Bioactive Natural Products from <i>Antrodia camphorata</i> . <i>Journal of Organic Chemistry</i> , 2016, 81, 3127-3135.	1.7	11
29	Stereospecificity in strigolactone biosynthesis and perception. <i>Planta</i> , 2016, 243, 1361-1373.	1.6	95
30	<i>LATERAL BRANCHING OXIDOREDUCTASE</i> acts in the final stages of strigolactone biosynthesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6301-6306.	3.3	219
31	A new selective fluorescent probe based on tamoxifen. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4879-4883.	1.0	13
32	Hit-to-Lead Optimization of a Novel Class of Potent, Broad-Spectrum Trypanosomacides. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9686-9720.	2.9	30
33	Bioactive fractions from the pasture legume <i>Biserrula pelecinus</i> L. have an anti-methanogenic effect against key rumen methanogens. <i>Anaerobe</i> , 2016, 39, 173-182.	1.0	8
34	Identification of the Cat Attractants Isodihydronepetalactone and Isoiridomyrmecin from <i>Acalypha indica</i> . <i>Australian Journal of Chemistry</i> , 2016, 69, 169.	0.5	11
35	Karrikins Identified in Biochars Indicate Post-Fire Chemical Cues Can Influence Community Diversity and Plant Development. <i>PLoS ONE</i> , 2016, 11, e0161234.	1.1	48
36	What are karrikins and how were they discovered™ by plants?. <i>BMC Biology</i> , 2015, 13, 108.	1.7	84

#	ARTICLE	IF	CITATIONS
37	Identification of hydroxymethylpyrazines using mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 987-993.	0.7	5
38	A <i>Selaginella moellendorffii</i> Ortholog of KARRIKIN INSENSITIVE2 Functions in Arabidopsis Development but Cannot Mediate Responses to Karrikins or Strigolactones. <i>Plant Cell</i> , 2015, 27, 1925-1944.	3.1	122
39	Substrate-Induced Degradation of the β -Fold Hydrolase KARRIKIN INSENSITIVE2 Requires a Functional Catalytic Triad but Is Independent of MAX2. <i>Molecular Plant</i> , 2015, 8, 814-817.	3.9	63
40	Destabilization of strigolactone receptor DWARF14 by binding of ligand and E3-ligase signaling effector DWARF3. <i>Cell Research</i> , 2015, 25, 1219-1236.	5.7	152
41	The karrikin response system of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2014, 79, 623-631.	2.8	102
42	Discovery of pyrazines as pollinator sex pheromones and orchid semiochemicals: implications for the evolution of sexual deception. <i>New Phytologist</i> , 2014, 203, 939-952.	3.5	93
43	Rice cytochrome P450 MAX1 homologs catalyze distinct steps in strigolactone biosynthesis. <i>Nature Chemical Biology</i> , 2014, 10, 1028-1033.	3.9	340
44	Strigolactone Hormones and Their Stereoisomers Signal through Two Related Receptor Proteins to Induce Different Physiological Responses in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 1221-1232.	2.3	260
45	Karrikin and Cyanohydrin Smoke Signals Provide Clues to New Endogenous Plant Signaling Compounds. <i>Molecular Plant</i> , 2013, 6, 29-37.	3.9	101
46	The origins and mechanisms of karrikin signalling. <i>Current Opinion in Plant Biology</i> , 2013, 16, 667-673.	3.5	55
47	Carlactone-independent seedling morphogenesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 76, 1-9.	2.8	115
48	The Structure of the Karrikin-Insensitive Protein (KAI2) in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2013, 8, e54758.	1.1	54
49	Sharing of Pyrazine Semiochemicals between Genera of Sexually Deceptive Orchids. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800.	0.2	3
50	Karrikins force a rethink of strigolactone mode of action. <i>Plant Signaling and Behavior</i> , 2012, 7, 969-972.	1.2	21
51	Specialisation within the DWARF14 protein family confers distinct responses to karrikins and strigolactones in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2012, 139, 1285-1295.	1.2	477
52	Solar irradiation of the seed germination stimulant karrikinolide produces two novel head-to-head cage dimers. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 4069.	1.5	7
53	Discovery of Tetrasubstituted Pyrazines As Semiochemicals in a Sexually Deceptive Orchid. <i>Journal of Natural Products</i> , 2012, 75, 1589-1594.	1.5	49
54	Regulation of Seed Germination and Seedling Growth by Chemical Signals from Burning Vegetation. <i>Annual Review of Plant Biology</i> , 2012, 63, 107-130.	8.6	242

#	ARTICLE	IF	CITATIONS
55	Investigation of volatile organic biomarkers derived from <i>Plasmodium falciparum</i> in vitro. <i>Malaria Journal</i> , 2012, 11, 314.	0.8	13
56	The Discovery of 2-Hydroxymethyl-3-(3-methylbutyl)-5-methylpyrazine: A Semiochemical in Orchid Pollination. <i>Organic Letters</i> , 2012, 14, 2576-2578.	2.4	53
57	Exploring the molecular mechanism of karrikins and strigolactones. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3743-3746.	1.0	78
58	Production of the Seed Germination Stimulant Karrikinolide from Combustion of Simple Carbohydrates. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1195-1198.	2.4	37
59	Burning vegetation produces cyanohydrins that liberate cyanide and stimulate seed germination. <i>Nature Communications</i> , 2011, 2, 360.	5.8	98
60	F-box protein MAX2 has dual roles in karrikin and strigolactone signaling in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8897-8902.	3.3	394
61	The synthesis and biological evaluation of labelled karrikinolides for the elucidation of the mode of action of the seed germination stimulant. <i>Tetrahedron</i> , 2011, 67, 152-157.	1.0	14
62	Karrikins enhance light responses during germination and seedling development in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7095-7100.	3.3	223
63	Structure-Activity Relationship of Karrikin Germination Stimulants. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8612-8617.	2.4	35
64	Karrikins: A new family of plant growth regulators in smoke. <i>Plant Science</i> , 2009, 177, 252-256.	1.7	175
65	Karrikins Discovered in Smoke Trigger <i>Arabidopsis</i> Seed Germination by a Mechanism Requiring Gibberellic Acid Synthesis and Light. <i>Plant Physiology</i> , 2009, 149, 863-873.	2.3	254
66	Identification of Alkyl Substituted 2-H-Furo[2,3-c]pyran-2-ones as Germination Stimulants Present in Smoke. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 9475-9480.	2.4	129
67	Preparation of 2H-Furo[2,3-c]pyran-2-one Derivatives and Evaluation of Their Germination-Promoting Activity. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2189-2194.	2.4	84
68	Synthesis of the seed germination stimulant 3-methyl-2H-furo[2,3-c]pyran-2-one. <i>Tetrahedron Letters</i> , 2005, 46, 5719-5721.	0.7	97
69	A Compound from Smoke That Promotes Seed Germination. <i>Science</i> , 2004, 305, 977-977.	6.0	595
70	A Merry Dance Across the ĩ-Cloud: Tracking the Transformation of a 2,7-Substituted Dihydropyrene Through a Thermally Stimulated Single-Crystal-to-Single-Crystal Reaction. <i>Crystal Growth and Design</i> , 0, , .	1.4	2