

# Franck E. Dayan

## List of Publications by Citations

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201  
papers

8,299  
citations

48  
h-index

83  
g-index

211  
ext. papers

9,503  
ext. citations

4.1  
avg, IF

6.38  
L-index

#	Paper	IF	Citations
201	Natural products in crop protection. <i>Bioorganic and Medicinal Chemistry</i> , <b>2009</b> , 17, 4022-34	3.4	735
200	Natural products as sources for new pesticides. <i>Journal of Natural Products</i> , <b>2012</b> , 75, 1231-42	4.9	347
199	Podophyllotoxin. <i>Phytochemistry</i> , <b>2000</b> , 54, 115-20	4	306
198	Natural products as sources of herbicides: current status and future trends. <i>Weed Research</i> , <b>2000</b> , 40, 99-111	1.9	302
197	Investigating the Mode of Action of Natural Phytotoxins. <i>Journal of Chemical Ecology</i> , <b>2000</b> , 26, 2079-2094	2.7	200
196	Chemicals from nature for weed management. <i>Weed Science</i> , <b>2002</b> , 50, 138-151	2	194
195	Natural compounds as next-generation herbicides. <i>Plant Physiology</i> , <b>2014</b> , 166, 1090-105	6.6	191
194	Allelopathic Effects of Volatile Cineoles on Two Weedy Plant Species. <i>Journal of Chemical Ecology</i> , <b>2000</b> , 26, 303-313	2.7	176
193	Mode of Action, Localization of Production, Chemical Nature, and Activity of Sorgoleone: A Potent PSII Inhibitor in Sorghum spp. Root Exudates <sup>1</sup> . <i>Weed Technology</i> , <b>2001</b> , 15, 813-825	1.4	162
192	EPSPS gene amplification in glyphosate-resistant Italian ryegrass ( <i>Lolium perenne</i> ssp. multiflorum) from Arkansas. <i>Pest Management Science</i> , <b>2012</b> , 68, 1223-30	4.6	130
191	The inhibitory activity of natural products on plant p-hydroxyphenylpyruvate dioxygenase. <i>Phytochemistry</i> , <b>2002</b> , 60, 281-8	4	130
190	Rationale for a natural products approach to herbicide discovery. <i>Pest Management Science</i> , <b>2012</b> , 68, 519-28	4.6	128
189	Natural products as sources for new mechanisms of herbicidal action. <i>Crop Protection</i> , <b>2000</b> , 19, 583-589	2.7	124
188	Mechanisms of evolved herbicide resistance. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 10307-10330	5.4	117
187	A new photosystem II electron transfer inhibitor from <i>Sorghum bicolor</i> . <i>Journal of Natural Products</i> , <b>1998</b> , 61, 927-30	4.9	107
186	Somatic mutation-mediated evolution of herbicide resistance in the nonindigenous invasive plant hydrilla ( <i>Hydrilla verticillata</i> ). <i>Molecular Ecology</i> , <b>2004</b> , 13, 3229-37	5.7	105
185	Chlorophyll fluorescence as a marker for herbicide mechanisms of action. <i>Pesticide Biochemistry and Physiology</i> , <b>2012</b> , 102, 189-197	4.9	93

184	Biochemical Markers and Enzyme Assays for Herbicide Mode of Action and Resistance Studies. <i>Weed Science</i> , <b>2015</b> , 63, 23-63	2	92
183	Sorgoleone. <i>Phytochemistry</i> , <b>2010</b> , 71, 1032-9	4	92
182	Searching for Rice Allelochemicals. <i>Agronomy Journal</i> , <b>2001</b> , 93, 16-20	2.2	86
181	Factors modulating the levels of the allelochemical sorgoleone in Sorghum bicolor. <i>Planta</i> , <b>2006</b> , 224, 339-46	4.7	82
180	p-Hydroxyphenylpyruvate dioxygenase is a herbicidal target site for beta-triketones from Leptospermum scoparium. <i>Phytochemistry</i> , <b>2007</b> , 68, 2004-14	4	81
179	Comparative phytotoxicity of artemisinin and several sesquiterpene analogues. <i>Phytochemistry</i> , <b>1999</b> , 50, 607-614	4	81
178	Activity of quinones on colletotrichum species. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 3824-8	3.8	80
177	Dehydrozalanin C, a natural sesquiterpenolide, causes rapid plasma membrane leakage. <i>Phytochemistry</i> , <b>1999</b> , 52, 805-813	4	79
176	Dynamic root exudation of sorgoleone and its in planta mechanism of action. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 2107-17	7	77
175	Modes of action of microbially-produced phytotoxins. <i>Toxins</i> , <b>2011</b> , 3, 1038-64	4.9	74
174	The phytotoxic lichen metabolite, usnic acid, is a potent inhibitor of plant p-hydroxyphenylpyruvate dioxygenase. <i>FEBS Letters</i> , <b>2000</b> , 480, 301-5	3.8	73
173	A functional genomics investigation of allelochemical biosynthesis in Sorghum bicolor root hairs. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 3231-3247	5.4	71
172	Phytotoxic and fungitoxic activities of the essential oil of kenaf (Hibiscus cannabinus L.) leaves and its composition. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 3768-71	5.7	70
171	Is (-)-catechin a novel weapon of spotted knapweed (Centaurea stoebe)? <i>Journal of Chemical Ecology</i> , <b>2009</b> , 35, 141-53	2.7	69
170	Synthesis, antitubercular activity and docking study of novel cyclic azole substituted diphenyl ether derivatives. <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 492-500	6.8	69
169	Alkylresorcinol synthases expressed in Sorghum bicolor root hairs play an essential role in the biosynthesis of the allelopathic benzoquinone sorgoleone. <i>Plant Cell</i> , <b>2010</b> , 22, 867-87	11.6	68
168	Current Status and Future Prospects in Herbicide Discovery. <i>Plants</i> , <b>2019</b> , 8,	4.5	64
167	Elucidation of the biosynthetic pathway of the allelochemical sorgoleone using retrobiosynthetic NMR analysis. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 28607-11	5.4	62

166	Inhibition of plant asparagine synthetase by monoterpene cineoles. <i>Plant Physiology</i> , <b>2000</b> , 123, 725-32	6.6	62
165	Selectivity and mode of action of carfentrazone-ethyl, a novel phenyl triazolinone herbicide. <i>Pest Management Science</i> , <b>1997</b> , 51, 65-73		60
164	Composition and some biological activities of the essential oil of <i>Callicarpa americana</i> (L.). <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 3008-12	5.7	60
163	Chromatographic separation and in vitro activity of sorgoleone congeners from the roots of sorghum bicolor. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 7589-95	5.7	59
162	Chemistry of the lichen <i>Hypogymnia physodes</i> transplanted to an industrial region. <i>Journal of Chemical Ecology</i> , <b>2005</b> , 31, 2975-91	2.7	58
161	United States Department of Agriculture-Agricultural Research Service research on natural products for pest management. <i>Pest Management Science</i> , <b>2003</b> , 59, 708-17	4.6	56
160	The majority of in vitro macrophage activation exhibited by extracts of some immune enhancing botanicals is due to bacterial lipoproteins and lipopolysaccharides. <i>International Immunopharmacology</i> , <b>2008</b> , 8, 1023-32	5.8	55
159	Manuka Oil, A Natural Herbicide with Preemergence Activity. <i>Weed Science</i> , <b>2011</b> , 59, 464-469	2	54
158	Plant cell membrane as a marker for light-dependent and light-independent herbicide mechanisms of action. <i>Pesticide Biochemistry and Physiology</i> , <b>2011</b> , 101, 182-190	4.9	52
157	Postemergence Activity of Sulfentrazone: Effects of Surfactants and Leaf Surfaces. <i>Weed Science</i> , <b>1996</b> , 44, 797-803	2	51
156	Strategies for Using Transgenes to Produce Allelopathic Crops <sup>1</sup> . <i>Weed Technology</i> , <b>2001</b> , 15, 826-834	1.4	50
155	High yield of podophyllotoxin from leaves of <i>Podophyllum peltatum</i> by in situ conversion of podophyllotoxin 4- O-beta-D-glucopyranoside. <i>Planta Medica</i> , <b>2001</b> , 67, 97-9	3.1	50
154	Herbicides as Probes in Plant Biology. <i>Weed Science</i> , <b>2010</b> , 58, 340-350	2	49
153	Aryltetralin Lignans Inhibit Plant Growth by Affecting the Formation of Mitotic Microtubular Organizing Centers. <i>Pesticide Biochemistry and Physiology</i> , <b>2002</b> , 72, 45-54	4.9	47
152	Physiological Basis for Differential Sensitivity to Sulfentrazone by Sicklepod ( <i>Senna obtusifolia</i> ) and Coffee Senna ( <i>Cassia occidentalis</i> ). <i>Weed Science</i> , <b>1996</b> , 44, 12-17	2	47
151	Concerted action of target-site mutations and high EPSPS activity in glyphosate-resistant junglerice ( <i>Echinochloa colona</i> ) from California. <i>Pest Management Science</i> , <b>2015</b> , 71, 996-1007	4.6	45
150	Composition of the essential oil of <i>Lepidium meyenii</i> (Walp). <i>Phytochemistry</i> , <b>2002</b> , 61, 149-55	4	45
149	Biochemical and structural consequences of a glycine deletion in the alpha-8 helix of protoporphyrinogen oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2010</b> , 1804, 1548-55	4	44

148	Lichens as a potential source of pesticides. <i>Outlooks on Pest Management</i> , <b>2001</b> , 12, 229-232		44
147	Metabolic Profiling and Enzyme Analyses Indicate a Potential Role of Antioxidant Systems in Complementing Glyphosate Resistance in an <i>Amaranthus palmeri</i> Biotype. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 9199-209	5.7	42
146	Amicarbazone, a New Photosystem II Inhibitor. <i>Weed Science</i> , <b>2009</b> , 57, 579-583	2	42
145	Effects of Isoxazole Herbicides on Protoporphyrinogen Oxidase and Porphyrin Physiology. <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 967-975	5.7	42
144	Reactive oxygen species trigger the fast action of glufosinate. <i>Planta</i> , <b>2019</b> , 249, 1837-1849	4.7	40
143	In planta production of the highly potent resveratrol analogue pterostilbene via stilbene synthase and O-methyltransferase co-expression. <i>Plant Biotechnology Journal</i> , <b>2012</b> , 10, 269-83	11.6	40
142	Melanin: dietary mucosal immune modulator from Echinacea and other botanical supplements. <i>International Immunopharmacology</i> , <b>2005</b> , 5, 637-47	5.8	40
141	Molecular evolution of herbicide resistance to phytoene desaturase inhibitors in <i>Hydrilla verticillata</i> and its potential use to generate herbicide-resistant crops. <i>Pest Management Science</i> , <b>2005</b> , 61, 258-68	4.6	39
140	Mineralization of the allelochemical sorgoleone in soil. <i>Chemosphere</i> , <b>2009</b> , 76, 1041-7	8.4	38
139	A pathogenic fungi diphenyl ether phytotoxin targets plant enoyl (acyl carrier protein) reductase. <i>Plant Physiology</i> , <b>2008</b> , 147, 1062-71	6.6	38
138	Biosynthesis of salvinorin A proceeds via the deoxyxylulose phosphate pathway. <i>Phytochemistry</i> , <b>2007</b> , 68, 1872-81	4	38
137	Evolution of resistance to phytoene desaturase and protoporphyrinogen oxidase inhibitors--state of knowledge. <i>Pest Management Science</i> , <b>2014</b> , 70, 1358-66	4.6	37
136	Phytotoxicity and volatile constituents from leaves of <i>Callicarpa japonica</i> Thunb. <i>Phytochemistry</i> , <b>2002</b> , 61, 37-40	4	37
135	Alkylresorcinol biosynthesis in plants: new insights from an ancient enzyme family?. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 1286-9	2.5	36
134	Origins and structure of chloroplastic and mitochondrial plant protoporphyrinogen oxidases: implications for the evolution of herbicide resistance. <i>Pest Management Science</i> , <b>2018</b> , 74, 2226-2234	4.6	36
133	Herbicide Metabolism: Crop Selectivity, Bioactivation, Weed Resistance, and Regulation. <i>Weed Science</i> , <b>2019</b> , 67, 149-175	2	35
132	Biosynthesis of lipid resorcinols and benzoquinones in isolated secretory plant root hairs. <i>Journal of Experimental Botany</i> , <b>2007</b> , 58, 3263-72	7	35
131	Characterization of a higher plant herbicide-resistant phytoene desaturase and its use as a selectable marker. <i>Plant Biotechnology Journal</i> , <b>2006</b> , 4, 263-73	11.6	35

130	Phytotoxicity of Quassinoids: Physiological Responses and Structural Requirements. <i>Pesticide Biochemistry and Physiology</i> , <b>1999</b> , 65, 15-24	4.9	34
129	Reversing resistance to tembotrione in an <i>Amaranthus tuberculatus</i> (var. <i>rudis</i> ) population from Nebraska, USA with cytochrome P450 inhibitors. <i>Pest Management Science</i> , <b>2018</b> , 74, 2296-2305	4.6	34
128	In planta mechanism of action of leptospermone: impact of its physico-chemical properties on uptake, translocation, and metabolism. <i>Journal of Chemical Ecology</i> , <b>2013</b> , 39, 262-70	2.7	33
127	Involvement of facultative apomixis in inheritance of EPSPS gene amplification in glyphosate-resistant <i>Amaranthus palmeri</i> . <i>Planta</i> , <b>2014</b> , 239, 199-212	4.7	33
126	Glufosinate-ammonium: a review of the current state of knowledge. <i>Pest Management Science</i> , <b>2020</b> , 76, 3911-3925	4.6	32
125	Herbicidal activity of formulated sorgoleone, a natural product of sorghum root exudate. <i>Pest Management Science</i> , <b>2014</b> , 70, 252-7	4.6	32
124	EPSPS Gene Amplification in Glyphosate-Resistant Italian Ryegrass ( <i>Lolium perenne</i> ssp. <i>multiflorum</i> ) Populations from Arkansas (United States). <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 5885-93	5.7	31
123	PSII inhibitory activity of resorcinolic lipids from <i>Sorghum bicolor</i> . <i>Journal of Natural Products</i> , <b>2003</b> , 66, 42-5	4.9	31
122	Behavior of sulfentrazone in ionic exchange resins, electrophoresis gels, and cation-saturated soils. <i>Weed Science</i> , <b>2000</b> , 48, 239-247	2	31
121	Joint action of natural and synthetic photosystem II inhibitors. <i>Pest Management Science</i> , <b>1999</b> , 55, 137-146		31
120	Patterns of essential oil relationships in <i>Pimpinella</i> (Umbelliferae) based on phylogenetic relationships using nuclear and chloroplast sequences. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , <b>2005</b> , 3, 149-169	1	30
119	Beta-triketone inhibitors of plant p-hydroxyphenylpyruvate dioxygenase: modeling and comparative molecular field analysis of their interactions. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 5194-200	5.7	28
118	Allelopathic Potential of Sorghum ( <i>Sorghum bicolor</i> (L.) Moench) in Weed Control: A Comprehensive Review. <i>Advances in Agronomy</i> , <b>2017</b> , 145, 43-95	7.7	27
117	Inhibitory Activity of Sulfentrazone and Its Metabolic Derivatives on Soybean ( <i>Glycine max</i> ) Protoporphyrinogen Oxidase. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 2024-2029	5.7	27
116	Khellin and Visnagin, Furanochromones from <i>Ammi visnaga</i> (L.) Lam., as Potential Bioherbicides. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 9475-9487	5.7	27
115	Role of Glutamine Synthetase Isogenes and Herbicide Metabolism in the Mechanism of Resistance to Glufosinate in <i>L. spp.</i> Biotypes from Oregon. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 8431-8440 <sup>26</sup>	5.7	26
114	Low doses of glyphosate change the responses of soybean to subsequent glyphosate treatments. <i>Weed Research</i> , <b>2016</b> , 56, 124-136	1.9	26
113	Phytotoxic Eremophilanes from <i>Ligularia macrophylla</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 10656-63	5.7	26

112	Phytotoxic lignans of <i>Leucophyllum frutescens</i> . <i>Natural Toxins</i> , <b>1999</b> , 7, 39-43		26
111	Sarmentine, a natural herbicide from <i>Piper</i> species with multiple herbicide mechanisms of action. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 222	6.2	25
110	Effects of the aglycone of ascaulitoxin on amino acid metabolism in <i>Lemna paucicostata</i> . <i>Pesticide Biochemistry and Physiology</i> , <b>2011</b> , 100, 41-50	4.9	25
109	Biological Activity of Allelochemicals <b>2009</b> , 361-384		25
108	Validation of serine/threonine protein phosphatase as the herbicide target site of endothall. <i>Pesticide Biochemistry and Physiology</i> , <b>2012</b> , 102, 38-44	4.9	23
107	Simulated Acid Rain Accelerates Litter Decomposition and Enhances the Allelopathic Potential of the Invasive Plant <i>Wedelia trilobata</i> (Creeping Daisy). <i>Weed Science</i> , <b>2012</b> , 60, 462-467	2	23
106	Resistance to glufosinate is proportional to phosphinothricin acetyltransferase expression and activity in LibertyLink(®) and WideStrike(®) cotton. <i>Planta</i> , <b>2016</b> , 243, 925-33	4.7	22
105	Possible glyphosate tolerance mechanism in pitted morningglory ( <i>Ipomoea lacunosa</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 1689-97	5.7	22
104	Arbuscular mycorrhiza improves acclimatization and increases lignan content of micropropagated mayapple ( <i>Podophyllum peltatum</i> L.). <i>Plant Science</i> , <b>2004</b> , 166, 23-29	5.3	22
103	Amino- and urea-substituted thiazoles inhibit photosynthetic electron transfer. <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 3689-93	5.7	22
102	A (-)-kolavenyl diphosphate synthase catalyzes the first step of salvinorin A biosynthesis in <i>Salvia divinorum</i> . <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 1109-1122	7	21
101	Nortriketones: Antimicrobial Trimethylated Acylphloroglucinols from <i>Ma nuka</i> ( <i>Leptospermum scoparium</i> ). <i>Journal of Natural Products</i> , <b>2016</b> , 79, 564-9	4.9	21
100	Novel bacterial bioassay for a high-throughput screening of 4-hydroxyphenylpyruvate dioxygenase inhibitors. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 7243-52	5.7	21
99	Natural Products for Weed Management in Organic Farming in the USA. <i>Outlooks on Pest Management</i> , <b>2010</b> , 21, 156-160	1.7	21
98	Physiological basis for resistance to diphenyl ether herbicides in common waterhemp ( <i>Amaranthus rudis</i> ). <i>Weed Science</i> , <b>2004</b> , 52, 333-338	2	21
97	9,10-Antraquinone Reduces the Photosynthetic Efficiency of <i>Oscillatoria perornata</i> and Modifies Cellular Inclusions. <i>International Journal of Plant Sciences</i> , <b>2000</b> , 161, 265-270	2.6	21
96	Porphyrins: One Ring in the Colors of Life. <i>American Scientist</i> , <b>2011</b> , 99, 236	2.7	21
95	Ecotoxicological Impact of the Bioherbicide Leptospermone on the Microbial Community of Two Arable Soils. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 775	5.7	20

94	A novel TIPT double mutation in EPSPS conferring glyphosate resistance in tetraploid <i>Bidens subalternans</i> . <i>Pest Management Science</i> , <b>2020</b> , 76, 95-102	4.6	20
93	The case against (-)-catechin involvement in allelopathy of <i>Centaurea stoebe</i> (spotted knapweed). <i>Plant Signaling and Behavior</i> , <b>2009</b> , 4, 422-4	2.5	19
92	Thiol-dependent degradation of protoporphyrin IX by plant peroxidases. <i>FEBS Letters</i> , <b>1999</b> , 444, 227-303.8		19
91	Protoporphyrinogen Oxidase-Inhibiting Herbicides <b>2010</b> , 1733-1751		18
90	Molluscicidal activity of vulgarone B from <i>Artemisia douglasiana</i> (Besser) against the invasive, alien, mollusc pest, <i>Pomacea canaliculata</i> (Lamarck). <i>International Journal of Pest Management</i> , <b>2005</b> , 51, 175-180	1.5	18
89	The lignans of <i>Podophyllum</i> . <i>Studies in Natural Products Chemistry</i> , <b>2002</b> , 26, 149-182	1.5	18
88	A cytochrome P450 CYP71 enzyme expressed in <i>Sorghum bicolor</i> root hair cells participates in the biosynthesis of the benzoquinone allelochemical sorgoleone. <i>New Phytologist</i> , <b>2018</b> , 218, 616-629	9.8	17
87	Physiological factors influencing the antifungal activity of zopfiellin. <i>Pesticide Biochemistry and Physiology</i> , <b>2002</b> , 73, 87-93	4.9	17
86	Photolysis of natural triketonic herbicides in water. <i>Water Research</i> , <b>2015</b> , 78, 28-36	12.5	16
85	Measuring asparagine synthetase activity in crude plant extracts. <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 1692-6	5.7	16
84	Discovery for New Herbicide Sites of Action by Quantification of Plant Primary Metabolite and Enzyme Pools. <i>Engineering</i> , <b>2020</b> , 6, 509-514	9.7	15
83	Biotechnology in Weed Control <b>2015</b> , 1-25		15
82	Oxidation of porphyrinogens by horseradish peroxidase and formation of a green pyrrole pigment. <i>Biochemical and Biophysical Research Communications</i> , <b>1996</b> , 227, 195-9	3.4	15
81	Assessment of the ecotoxicological impact of natural and synthetic triketone herbicides on the diversity and activity of the soil bacterial community using omic approaches. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 241-249	10.2	15
80	Proline-106 EPSPS Mutation Imparting Glyphosate Resistance in Goosegrass ( <i>Eleusine indica</i> ) Emerges in South America. <i>Weed Science</i> , <b>2019</b> , 67, 48-56	2	15
79	Assessing Fitness Costs from a Herbicide-Resistance Management Perspective: A Review and Insight. <i>Weed Science</i> , <b>2019</b> , 67, 137-148	2	15
78	ACCase-inhibiting herbicides: mechanism of action, resistance evolution and stewardship. <i>Scientia Agricola</i> , <b>2021</b> , 78,	2.5	15
77	Structural Diversity of Lichen Metabolites and Their Potential Use <b>2002</b> , 151-169		15



76	Environmental Metabolic Footprinting: A novel application to study the impact of a natural and a synthetic Etriketone herbicide in soil. <i>Science of the Total Environment</i> , <b>2016</b> , 566-567, 552-558	10.2	14
75	Tabanone, a New Phytotoxic Constituent of Cogongrass ( <i>Imperata cylindrica</i> ). <i>Weed Science</i> , <b>2012</b> , 60, 212-218	2	14
74	Metabolism-Based Herbicide Resistance, the Major Threat Among the Non-Target Site Resistance Mechanisms. <i>Outlooks on Pest Management</i> , <b>2020</b> , 31, 162-168	1.7	14
73	Glyphosate-Resistant and Conventional Canola ( <i>Brassica napus</i> L.) Responses to Glyphosate and Aminomethylphosphonic Acid (AMPA) Treatment. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 3508-13	5.7	14
72	A novel genomic approach to herbicide and herbicide mode of action discovery. <i>Pest Management Science</i> , <b>2019</b> , 75, 314-317	4.6	14
71	Novel bioassay for the discovery of inhibitors of the 2-C-methyl-D-erythritol 4-phosphate (MEP) and terpenoid pathways leading to carotenoid biosynthesis. <i>PLoS ONE</i> , <b>2014</b> , 9, e103704	3.7	13
70	Pesticides Modes of Action and Resistance: A Perspective from the 2019 IUPAC Congress. <i>Outlooks on Pest Management</i> , <b>2019</b> , 30, 157-163	1.7	13
69	Discovery of New Herbicide Modes of Action with Natural Phytotoxins. <i>ACS Symposium Series</i> , <b>2015</b> , 79-924		12
68	Synthesis and antitubercular activity of heterocycle substituted diphenyl ether derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2010</b> , 25, 730-6	5.6	12
67	Composition and Phytotoxic Activity of <i>Nepeta pannonica</i> L. Essential Oil. <i>Journal of Essential Oil Research</i> , <b>2005</b> , 17, 704-707	2.3	12
66	Synthesis, herbicidal activity, and mode of action of IR 5790. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 2302-7	5.7	12
65	Horseradish peroxidase-dependent oxidation of deuteroporphyrin IX into chlorins. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 351, 27-34	4.1	12
64	Glufosinate enhances the activity of protoporphyrinogen oxidase inhibitors. <i>Weed Science</i> , <b>2020</b> , 68, 324-332	2	11
63	Generation of reactive oxygen species by a novel anthraquinone derivative in the cyanobacterium <i>Planktothrix perornata</i> (Skuja). <i>Pesticide Biochemistry and Physiology</i> , <b>2005</b> , 81, 198-207	4.9	11
62	Fate of Glyphosate during Production and Processing of Glyphosate-Resistant Sugar Beet ( <i>Beta vulgaris</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 2061-2065	5.7	10
61	A novel insight into the mode of action of glufosinate: how reactive oxygen species are formed. <i>Photosynthesis Research</i> , <b>2020</b> , 144, 361-372	3.7	10
60	Cinmethylin controls multiple herbicide-resistant <i>Lolium rigidum</i> and its wheat selectivity is P450-based. <i>Pest Management Science</i> , <b>2020</b> , 76, 2601-2608	4.6	10
59	Herbicide Mechanisms of Action and Resistance <b>2019</b> , 36-48		10

58	BIOCONTROL OF WEEDS WITH ALLELOPATHY: CONVENTIONAL AND TRANSGENIC APPROACHES <b>2007</b> , 75-85		10
57	Podophyllum peltatum possesses a beta-glucosidase with high substrate specificity for the aryltetralin lignan podophyllotoxin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2003</b> , 1646, 157-63	4	10
56	Hydrilla, the Perfect Aquatic Weed, Becomes More Noxious Than Ever. <i>Outlooks on Pest Management</i> , <b>2005</b> , 16, 277-282	1.7	10
55	Is There a Natural Route to the Next Generation of Herbicides?. <i>Outlooks on Pest Management</i> , <b>2018</b> , 29, 54-57	1.7	10
54	Interactions Between Natural Herbicides and Lipid Bilayers Mimicking the Plant Plasma Membrane. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 329	6.2	9
53	Arg-128-Leu target-site mutation in PPO2 evolves in wild poinsettia ( <i>Euphorbia heterophylla</i> ) with cross-resistance to PPO-inhibiting herbicides. <i>Weed Science</i> , <b>2020</b> , 68, 437-444	2	9
52	Roots of the invasive species <i>Carduus nutans</i> L. and <i>C. acanthoides</i> L. produce large amounts of aplotaxene, a possible allelochemical. <i>Journal of Chemical Ecology</i> , <b>2014</b> , 40, 276-84	2.7	9
51	Predicting the activity of the natural phytotoxic diphenyl ether cyperine using Comparative Molecular Field Analysis. <i>Pest Management Science</i> , <b>2000</b> , 56, 717-722	4.6	9
50	A new photosystem II electron transfer inhibitor from sorghum bicolor. <i>Journal of Natural Products</i> , <b>1998</b> , 61, 1456	4.9	9
49	Clues to New Herbicide Mechanisms of Action from Natural Sources. <i>ACS Symposium Series</i> , <b>2013</b> , 203-2154		8
48	Insight into the Structural Requirements of Protoporphyrinogen Oxidase Inhibitors: Molecular Docking and CoMFA of Diphenyl Ether, Isoxazole Phenyl, and Pyrazole Phenyl Ether. <i>Chinese Journal of Chemistry</i> , <b>2013</b> , 31, 1153-1158	4.9	8
47	The potential for advances in crop allelopathy. <i>Outlooks on Pest Management</i> , <b>2005</b> , 16, 64-68	1.7	8
46	Bioactivation of the Fungal Phytotoxin 2,5-Anhydro-D-glucitol by Glycolytic Enzymes: An Essential Component of its Mechanism of Action. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2002</b> , 57, 645-653	1.7	8
45	Trp2027Cys mutation evolves in <i>Digitaria insularis</i> with cross-resistance to ACCase inhibitors. <i>Pesticide Biochemistry and Physiology</i> , <b>2020</b> , 164, 1-6	4.9	8
44	Clues in the search for new herbicides <b>2006</b> , 63-83		8
43	Physiological Factors Affecting Uptake and Translocation of Glufosinate. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 3026-3032	5.7	7
42	Oligofructans content and yield of yacon ( <i>Smallanthus sonchifolius</i> ) cultivated in Mississippi. <i>Scientia Horticulturae</i> , <b>2012</b> , 148, 83-88	4.1	7
41	The search for new herbicide mechanisms of action: Is there a Holy grail?. <i>Pest Management Science</i> , <b>2021</b> ,	4.6	7

40	The Contribution of Romidepsin to the Herbicidal Activity of Biopesticide. <i>Journal of Natural Products</i> , <b>2020</b> , 83, 843-851	4.9	6
39	The Growing Need for Biochemical Bioherbicides. <i>ACS Symposium Series</i> , <b>2014</b> , 31-43	0.4	6
38	Chapter Twelve Crop Allelopathy: Enhancement through biotechnology. <i>Recent Advances in Phytochemistry</i> , <b>2001</b> , 257-274		6
37	Octan-1-ol / Water Partition Coefficients of p-benzo-and p-naphthoquinones corrected for pH effect. <i>Journal of Chemical Research</i> , <b>2002</b> , 2002, 518-519	0.6	6
36	Glutathione-dependent oxidative modification of protoporphyrin and other dicarboxylic porphyrins by mammalian and plant peroxidases. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 259, 195-200	3.4	6
35	Predicting herbicide movement across semi-permeable membranes using three phase partitioning. <i>Pesticide Biochemistry and Physiology</i> , <b>2019</b> , 159, 22-26	4.9	5
34	A Functional Genomics Approach for the Identification of Genes Involved in the Biosynthesis of the Allelochemical Sorgoleone. <i>ACS Symposium Series</i> , <b>2006</b> , 265-276	0.4	5
33	Inhibition of plant asparagine synthetase by monoterpene cineoles. <i>Plant Physiology</i> , <b>2005</b> , 137, 1487	6.6	5
32	Structure-Activity Relationships of Diphenyl Ethers and Other Oxygen-Bridged Protoporphyrinogen Oxidase Inhibitors <b>1999</b> , 141-161		5
31	A Trp574Leu Target-Site Mutation Confers Imazamox Resistance in Multiple Herbicide-Resistant Wild Poinsettia Populations from Brazil. <i>Agronomy</i> , <b>2020</b> , 10, 1057	3.6	5
30	Natural Product-Based Chemical Herbicides <b>2018</b> , 153-165		4
29	The Sorghum bicolor Root Exudate Sorgoleone Shapes Bacterial Communities and Delays Network Formation. <i>MSystems</i> , <b>2021</b> , 6,	7.6	4
28	Chemical Basis for Weed Suppressive Activity of Sorghum. <i>ACS Symposium Series</i> , <b>2005</b> , 59-70	0.4	3
27	The Coaxium <sup>®</sup> Wheat Production System: A New Herbicide-Resistant System for Annual Grass Weed Control and Integrated Weed Management. <i>Outlooks on Pest Management</i> , <b>2021</b> , 32, 151-157	1.7	3
26	Phytochemicals for Pest Management: Current Advances and Future Opportunities <b>2013</b> , 71-94		3
25	Evolution of EPSPS double mutation imparting glyphosate resistance in wild poinsettia ( <i>Euphorbia heterophylla</i> L.). <i>PLoS ONE</i> , <b>2020</b> , 15, e0238818	3.7	3
24	Herbicides <b>2018</b> , 1-9		3
23	Herbicides, Carotenoid Biosynthesis Inhibitors		3

22	An in-frame deletion mutation in the degron tail of auxin coreceptor confers resistance to the herbicide 2,4-D in .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	3
21	NATURAL PRODUCTS FOR PEST MANAGEMENT <b>2007</b> , 209-251		2
20	New Herbicide Target Sites from Natural Compounds. <i>ACS Symposium Series</i> , <b>2004</b> , 151-160	0.4	2
19	Biochemical and structural characterization of quizalofop-resistant wheat acetyl-CoA carboxylase.. <i>Scientific Reports</i> , <b>2022</b> , 12, 679	4.9	2
18	Protoporphyrinogen Oxidase Inhibitors <b>2001</b> , 1529-1541		2
17	Conservation and divergence in sorgoleone production of sorghum species. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 368-377	3.4	2
16	Herbicides, Cinmethylin		2
15	Bioactivation of the fungal phytotoxin 2,5-anhydro-D-glucitol by glycolytic enzymes is an essential component of its mechanism of action. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2002</b> , 57, 645-53	1.7	2
14	The influence of winter annual grass litter on herbicide availability. <i>Weed Science</i> , <b>2019</b> , 67, 702-709	2	1
13	Evidence for photolytic and microbial degradation processes in the dissipation of leptospermane, a natural Eriketone herbicide. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 29848-29859	5.1	1
12	Molecular and Biochemical Characterization of Novel Polyketide Synthases Likely to Be Involved in the Biosynthesis of Sorgoleone. <i>ACS Symposium Series</i> , <b>2007</b> , 141-151	0.4	1
11	Low Temperature Delays Metabolism of Quizalofop in Resistant Winter Wheat and Three Annual Grass Weed Species. <i>Frontiers in Agronomy</i> , <b>2022</b> , 3,	4	1
10	Evaluation of the toxicity of <i>Streptomyces aburaviensis</i> (R9) extract towards various agricultural pests. <i>Agricultural Sciences</i> , <b>2011</b> , 02, 491-497	0.4	1
9	Sorghum Allelopathy for Sustainable Weed Management. <i>Progress in Biological Control</i> , <b>2020</b> , 263-288	0.6	1
8	The Source of -Mediated Resistance to Soybean Aphids Is Located in the Stem. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 689986	6.2	1
7	Biochemical Basis for the Time-of-Day Effect on Glufosinate Efficacy against. <i>Plants</i> , <b>2021</b> , 10,	4.5	1
6	Absorption and Metabolism of Foliar-Applied Rimsulfuron in Potato ( <i>Solanum tuberosum</i> L.), Common Lambsquarters ( <i>Chenopodium album</i> L.) and Redroot Pigweed ( <i>Amaranthus retroflexus</i> L.). <i>Potato Research</i> , <b>2021</b> , 64, 635	3.2	0
5	Field Response of Green Ash ( <i>Fraxinus pennsylvanica</i> ) and Honey Locust ( <i>Gleditsia triacanthos</i> ) to Aminocyclopyrachlor1. <i>Journal of Environmental Horticulture</i> , <b>2021</b> , 39, 68-76	0.7	0

- 4 Transgenerational Effect of Drought Stress and Sub-Lethal Doses of Quizalofop-p-ethyl: Decreasing Sensitivity to Herbicide and Biochemical Adjustment in *Eragrostis plana*. *Agriculture (Switzerland)*, **2022**, 12, 396 3 0
- 3 Introduction to the Symposium on Nonherbicide Use of Herbicides. *Weed Science*, **2010**, 58, 323-323 2
- 2 Molecular and Biochemical Investigations of Sorgoleone Biosynthesis. *Recent Advances in Phytochemistry*, **2006**, 40, 157-177
- 1 Natural Phytotoxins with Potential for Development in Weed Management Strategies 143-154