

Edward E Farmer

List of Publications by Year in descending order

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67
papers

10,548
citations

53794

45
h-index

91884

69
g-index

71
all docs

71
docs citations

71
times ranked

9940
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Gene Expression in Response to Mechanical Wounding and Insect Feeding in Arabidopsis. <i>Plant Cell</i> , 2000, 12, 707-719.	6.6	1,136
2	Control of Jasmonate Biosynthesis and Senescence by miR319 Targets. <i>PLoS Biology</i> , 2008, 6, e230.	5.6	803
3	GLUTAMATE RECEPTOR-LIKE genes mediate leaf-to-leaf wound signalling. <i>Nature</i> , 2013, 500, 422-426.	27.8	625
4	A Downstream Mediator in the Growth Repression Limb of the Jasmonate Pathway. <i>Plant Cell</i> , 2007, 19, 2470-2483.	6.6	606
5	ROS-Mediated Lipid Peroxidation and RES-Activated Signaling. <i>Annual Review of Plant Biology</i> , 2013, 64, 429-450.	18.7	574
6	A Conserved Transcript Pattern in Response to a Specialist and a Generalist Herbivore. <i>Plant Cell</i> , 2004, 16, 3132-3147.	6.6	470
7	Regulation of Expression of Proteinase Inhibitor Genes by Methyl Jasmonate and Jasmonic Acid. <i>Plant Physiology</i> , 1992, 98, 995-1002.	4.8	428
8	Spatial and Temporal Dynamics of Jasmonate Synthesis and Accumulation in Arabidopsis in Response to Wounding. <i>Journal of Biological Chemistry</i> , 2008, 283, 16400-16407.	3.4	293
9	Surface-to-air signals. <i>Nature</i> , 2001, 411, 854-856.	27.8	290
10	Selective and powerful stress gene expression in Arabidopsis in response to malondialdehyde. <i>Plant Journal</i> , 2004, 37, 877-888.	5.7	268
11	Reactive electrophile species. <i>Current Opinion in Plant Biology</i> , 2007, 10, 380-386.	7.1	253
12	Reactive electrophile species activate defense gene expression in Arabidopsis. <i>Plant Journal</i> , 2003, 34, 205-216.	5.7	244
13	Identification of cell populations necessary for leaf-to-leaf electrical signaling in a wounded plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10178-10183.	7.1	228
14	Velocity Estimates for Signal Propagation Leading to Systemic Jasmonic Acid Accumulation in Wounded Arabidopsis. <i>Journal of Biological Chemistry</i> , 2009, 284, 34506-34513.	3.4	213
15	A Regulatory Network for Coordinated Flower Maturation. <i>PLoS Genetics</i> , 2012, 8, e1002506.	3.5	204
16	Analysis of secondary growth in the Arabidopsis shoot reveals a positive role of jasmonate signalling in cambium formation. <i>Plant Journal</i> , 2010, 63, 811-822.	5.7	198
17	Four lipoxygenases contribute to rapid jasmonate synthesis in wounded <i>Arabidopsis thaliana</i> leaves: a role for lipoxygenase 6 in responses to long-distance wound signals. <i>New Phytologist</i> , 2013, 197, 566-575.	7.3	187
18	Fatty acid ketodienes and fatty acid ketotrienes: Michael addition acceptors that accumulate in wounded and diseased Arabidopsis leaves. <i>Plant Journal</i> , 2000, 24, 467-476.	5.7	181

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19	Fatty acid signalling in plants and their associated microorganisms. <i>Plant Molecular Biology</i> , 1994, 26, 1423-1437.	3.9	169
20	Nonenzymatic Lipid Peroxidation Reprograms Gene Expression and Activates Defense Markers in <i>Arabidopsis</i> Tocopherol-Deficient Mutants. <i>Plant Cell</i> , 2007, 18, 3706-3720.	6.6	168
21	<i>Arabidopsis</i> lox3 lox4 double mutants are male sterile and defective in global proliferative arrest. <i>Plant Molecular Biology</i> , 2011, 75, 25-33.	3.9	146
22	A gain-of-function allele of TPC1 activates oxylipin biogenesis after leaf wounding in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2007, 49, 889-898.	5.7	145
23	Role of NINJA in root jasmonate signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15473-15478.	7.1	130
24	A fluorescent hormone biosensor reveals the dynamics of jasmonate signalling in plants. <i>Nature Communications</i> , 2015, 6, 6043.	12.8	130
25	Wound- and mechanostimulated electrical signals control hormone responses. <i>New Phytologist</i> , 2020, 227, 1037-1050.	7.3	123
26	Jasmonates. <i>The Arabidopsis Book</i> , 2010, 8, e0129.	0.5	120
27	The <i>fou2</i> mutation in the major vacuolar cation channel TPC1 confers tolerance to inhibitory luminal calcium. <i>Plant Journal</i> , 2009, 58, 715-723.	5.7	115
28	Jasmonate Biochemical Pathway. <i>Science Signaling</i> , 2010, 3, cm3.	3.6	110
29	Real-time, <i>in vivo</i> intracellular recordings of caterpillar-induced depolarization waves in sieve elements using aphid electrodes. <i>New Phytologist</i> , 2014, 203, 674-684.	7.3	107
30	Multilayered Organization of Jasmonate Signalling in the Regulation of Root Growth. <i>PLoS Genetics</i> , 2015, 11, e1005300.	3.5	106
31	The squeeze cell hypothesis for the activation of jasmonate synthesis in response to wounding. <i>New Phytologist</i> , 2014, 204, 282-288.	7.3	105
32	Nonenzymatic Oxidation of Trienoic Fatty Acids Contributes to Reactive Oxygen Species Management in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 1702-1708.	3.4	97
33	UPLC-TOF-MS for plant metabolomics: A sequential approach for wound marker analysis in <i>Arabidopsis thaliana</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 261-270.	2.3	96
34	<i>Arabidopsis</i> Jasmonate Signaling Pathway. <i>Science Signaling</i> , 2010, 3, cm4.	3.6	96
35	Oxylipin analysis methods. <i>Plant Journal</i> , 2006, 45, 472-489.	5.7	89
36	Jasmonate perception machines. <i>Nature</i> , 2007, 448, 659-660.	27.8	84

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37	Single-cell damage elicits regional, nematode-restricting ethylene responses in roots. <i>EMBO Journal</i> , 2019, 38, .	7.8	79
38	Remorins form a novel family of coiled coil-forming oligomeric and filamentous proteins associated with apical, vascular and embryonic tissues in plants. <i>Plant Molecular Biology</i> , 2004, 55, 579-594.	3.9	74
39	Jasmonate Controls Polypeptide Patterning in Undamaged Tissue in Wounded Arabidopsis Leaves. <i>Plant Physiology</i> , 2011, 156, 1797-1807.	4.8	64
40	Chloroplastic Phosphoadenosine Phosphosulfate Metabolism Regulates Basal Levels of the Prohormone Jasmonic Acid in Arabidopsis Leaves. <i>Plant Physiology</i> , 2010, 152, 1335-1345.	4.8	62
41	<i>Arabidopsis</i> H ⁺ -ATPase AHA1 controls slow wave potential duration and wound-response jasmonate pathway activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20226-20231.	7.1	62
42	The fou2 Gain-of-Function Allele and the Wild-Type Allele of Two Pore Channel 1 Contribute to Different Extents or by Different Mechanisms to Defense Gene Expression in Arabidopsis. <i>Plant and Cell Physiology</i> , 2007, 48, 1775-1789.	3.1	61
43	Axial and radial oxylipin transport. <i>Plant Physiology</i> , 2015, 169, pp.01104.2015.	4.8	61
44	Effects of fou8/fry1 Mutation on Sulfur Metabolism: Is Decreased Internal Sulfate the Trigger of Sulfate Starvation Response?. <i>PLoS ONE</i> , 2012, 7, e39425.	2.5	57
45	Membranes as Structural Antioxidants. <i>Journal of Biological Chemistry</i> , 2016, 291, 13005-13013.	3.4	50
46	Development of a two-step screening ESI-TOF-MS method for rapid determination of significant stress-induced metabolome modifications in plant leaf extracts: The wound response in <i>Arabidopsis thaliana</i> as a case study. <i>Journal of Separation Science</i> , 2007, 30, 2268-2278.	2.5	46
47	Genetic Removal of Tri-unsaturated Fatty Acids Suppresses Developmental and Molecular Phenotypes of an Arabidopsis Tocopherol-deficient Mutant. <i>Journal of Biological Chemistry</i> , 2007, 282, 35749-35756.	3.4	45
48	Interdependence of a mechanosensitive anion channel and glutamate receptors in distal wound signaling. <i>Science Advances</i> , 2021, 7, eabg4298.	10.3	45
49	Paired Hierarchical Organization of 13-Lipoxygenases in Arabidopsis. <i>Plants</i> , 2016, 5, 16.	3.5	44
50	Control of basal jasmonate signalling and defence through modulation of intracellular cation flux capacity. <i>New Phytologist</i> , 2017, 216, 1161-1169.	7.3	43
51	Detritivorous crustaceans become herbivores on jasmonate-deficient plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 935-940.	7.1	41
52	Jasmonates: what ALLENE OXIDE SYNTHASE does for plants. <i>Journal of Experimental Botany</i> , 2019, 70, 3373-3378.	4.8	40
53	Guard Cell-Specific Calcium Sensitivity of High Density and Activity SV/TPC1 Channels. <i>Plant and Cell Physiology</i> , 2010, 51, 1548-1554.	3.1	38
54	Inducible Malondialdehyde Pools in Zones of Cell Proliferation and Developing Tissues in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2012, 287, 8954-8962.	3.4	32

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55	Insect-damaged <i>Arabidopsis</i> moves like wounded <i>Mimosa pudica</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26066-26071.	7.1	32
56	On the cellular site of two-pore channel TPC 1 action in the Poaceae. New Phytologist, 2013, 200, 663-674.	7.3	29
57	A rapid assay for the coupled cell free generation of oxylipins. Phytochemistry, 1998, 47, 599-604.	2.9	28
58	Acylated monogalactosyl diacylglycerol: prevalence in the plant kingdom and identification of an enzyme catalyzing galactolipid head group acylation in <i>Arabidopsis thaliana</i> . Plant Journal, 2015, 84, 1152-1166.	5.7	28
59	Measuring surface potential changes on leaves. Nature Protocols, 2014, 9, 1997-2004.	12.0	27
60	Screening for Wound-induced Oxylipins in <i>Arabidopsis thaliana</i> by Differential HPLC-APCI/MS Profiling of Crude Leaf Extracts and Subsequent Characterisation by Capillary-scale NMR. Phytochemical Analysis, 2008, 19, 198-205.	2.4	23
61	Jasmonate Precursor Biosynthetic Enzymes LOX3 and LOX4 Control Wound-Response Growth Restriction. Plant Physiology, 2020, 184, 1172-1180.	4.8	21
62	Emerging Jasmonate Transporters. Molecular Plant, 2017, 10, 659-661.	8.3	19
63	Mimicry in plants. Current Biology, 2016, 26, R784-R785.	3.9	13
64	Plants and tortoises: mutations in the <i>Arabidopsis</i> jasmonate pathway increase feeding in a vertebrate herbivore. Molecular Ecology, 2012, 21, 2534-2541.	3.9	12
65	ACA pumps maintain leaf excitability during herbivore onslaught. Current Biology, 2022, 32, 2517-2528.e6.	3.9	12
66	Plant surface metabolites as potent antifungal agents. Plant Physiology and Biochemistry, 2020, 150, 39-48.	5.8	9
67	Regulatory Oxylipins Anno 2019: Jasmonates Galore in the Plant Oxylipin Research Community. Plant and Cell Physiology, 2019, 60, 2609-2612.	3.1	5