

Katayoon Dehesh

List of Publications by Year in descending order

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81743

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docs citations

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times ranked

6012
citing authors

#	ARTICLE	IF	CITATIONS
1	Retrograde Signaling by the Plastidial Metabolite MEcPP Regulates Expression of Nuclear Stress-Response Genes. <i>Cell</i> , 2012, 149, 1525-1535.	13.5	368
2	Functional Convergence of Oxylipin and Abscisic Acid Pathways Controls Stomatal Closure in Response to Drought. <i>Plant Physiology</i> , 2014, 164, 1151-1160.	2.3	241
3	Mechanical Stress Induces Biotic and Abiotic Stress Responses via a Novel cis-Element. <i>PLoS Genetics</i> , 2007, 3, e172.	1.5	205
4	Retrograde Signals: Integrators of Interorganellar Communication and Orchestrators of Plant Development. <i>Annual Review of Plant Biology</i> , 2017, 68, 85-108.	8.6	188
5	Production of high levels of 8:0 and 10:0 fatty acids in transgenic canola by overexpression of Ch FatB2, a thioesterase cDNA from <i>Cuphea hookeriana</i> . <i>Plant Journal</i> , 1996, 9, 167-172.	2.8	177
6	Structure of the Complex between the Antibiotic Cerulenin and Its Target, β^2 -Ketoacyl-Acyl Carrier Protein Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 6031-6034.	1.6	177
7	Arachidonic Acid: An Evolutionarily Conserved Signaling Molecule Modulates Plant Stress Signaling Networks. <i>Plant Cell</i> , 2010, 22, 3193-3205.	3.1	152
8	Deficiencies in Jasmonate-Mediated Plant Defense Reveal Quantitative Variation in <i>Botrytis cinerea</i> Pathogenesis. <i>PLoS Pathogens</i> , 2010, 6, e1000861.	2.1	141
9	Fatty acids and early detection of pathogens. <i>Current Opinion in Plant Biology</i> , 2013, 16, 520-526.	3.5	137
10	BBX19 Interacts with CONSTANS to Repress <i>FLOWERING LOCUS T</i> Transcription, Defining a Flowering Time Checkpoint in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 3589-3602.	3.1	137
11	Overexpression of 3-Ketoacyl-Acyl-Carrier Protein Synthase IIIs in Plants Reduces the Rate of Lipid Synthesis. <i>Plant Physiology</i> , 2001, 125, 1103-1114.	2.3	134
12	phyB is evolutionarily conserved and constitutively expressed in rice seedling shoots. <i>Molecular Genetics and Genomics</i> , 1991, 225, 305-313.	2.4	130
13	The Chromatin Remodeler SPLAYED Regulates Specific Stress Signaling Pathways. <i>PLoS Pathogens</i> , 2008, 4, e1000237.	2.1	129
14	Localization of NADPH-protochlorophyllide oxidoreductase in dark-grown wheat (<i>Triticum aestivum</i>) by immuno-electron microscopy before and after transformation of the prolamellar bodies. <i>Physiologia Plantarum</i> , 1986, 66, 616-624.	2.6	128
15	Distinct Roles of Jasmonates and Aldehydes in Plant-Defense Responses. <i>PLoS ONE</i> , 2008, 3, e1904.	1.1	120
16	The Transcriptional Regulator BBX19 Promotes Hypocotyl Growth by Facilitating COP1-Mediated EARLY FLOWERING3 Degradation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 1128-1139.	3.1	104
17	<i>Arabidopsis</i> Deadenylation AtCAF1a and AtCAF1b Play Overlapping and Distinct Roles in Mediating Environmental Stress Responses. <i>Plant Physiology</i> , 2010, 152, 866-875.	2.3	98
18	The MAP4 Kinase SIK1 Ensures Robust Extracellular ROS Burst and Antibacterial Immunity in Plants. <i>Cell Host and Microbe</i> , 2018, 24, 379-391.e5.	5.1	95

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19	Intronic T-DNA Insertion Renders Arabidopsis <i>opr3</i> a Conditional Jasmonic Acid-Producing Mutant. <i>Plant Physiology</i> , 2011, 156, 770-778.	2.3	93
20	Cloning of the fabF gene in an expression vector and in vitro characterization of recombinant fabF and fabB encoded enzymes from Escherichia coli. <i>FEBS Letters</i> , 1997, 402, 62-66.	1.3	86
21	KAS IV: a β -ketoacyl-ACP synthase from <i>Cuphea</i> sp. is a medium chain specific condensing enzyme. <i>Plant Journal</i> , 1998, 15, 383-390.	2.8	82
22	Plastid-produced interorgannellar stress signal MEcPP potentiates induction of the unfolded protein response in endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6212-6217.	3.3	82
23	Genome-Wide Expression Profiling Arabidopsis at the Stage of <i>Golovinomyces cichoracearum</i> Haustorium Formation. <i>Plant Physiology</i> , 2008, 146, 1421-1439.	2.3	79
24	The NADPH-protochlorophyllide oxidoreductase is the major protein constituent of prolamellar bodies in wheat (<i>Triticum aestivum</i> L.). <i>Planta</i> , 1985, 164, 396-399.	1.6	77
25	ACX3, a Novel Medium-Chain Acyl-Coenzyme A Oxidase from Arabidopsis. <i>Plant Physiology</i> , 2000, 123, 733-742.	2.3	77
26	A key general stress response motif is regulated non-uniformly by CAMTA transcription factors. <i>Plant Journal</i> , 2014, 80, 82-92.	2.8	77
27	Acyl CoA profiles of transgenic plants that accumulate medium-chain fatty acids indicate inefficient storage lipid synthesis in developing oilseeds. <i>Plant Journal</i> , 2002, 32, 519-527.	2.8	73
28	Molecular Mechanisms Regulating Rapid Stress Signaling Networks in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2010, 52, 354-359.	4.1	73
29	The light-dependent accumulation of the P700 chlorophyll a protein of the photosystem I reaction center in barley. Evidence for translational control. <i>FEBS Journal</i> , 1986, 159, 459-467.	0.2	69
30	The crystal structure of β -ketoacyl-acyl carrier protein synthase II from <i>Synechocystis</i> sp. at 1.54 Å resolution and its relationship to other condensing enzymes. Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 305, 491-503.	2.0	66
31	ORA59 and EIN3 interaction couples jasmonate-ethylene synergistic action to antagonistic salicylic acid regulation of PDF expression. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 275-287.	4.1	65
32	The proteolytic degradation in vitro of the NADPH-protochlorophyllide oxidoreductase of barley (<i>Hordeum vulgare</i> L.). <i>Archives of Biochemistry and Biophysics</i> , 1984, 228, 577-586.	1.4	63
33	Rice PHYC gene: structure, expression, map position and evolution. <i>Plant Molecular Biology</i> , 2000, 44, 27-42.	2.0	63
34	DNA binding factor GT-2 from Arabidopsis. <i>Plant Molecular Biology</i> , 1993, 23, 337-348.	2.0	59
35	Plastidial metabolite MEcPP induces a transcriptionally centered stress-response hub via the transcription factor CAMTA3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8855-8860.	3.3	57
36	DHH1/DDX6-like RNA helicases maintain ephemeral half-lives of stress-response mRNAs. <i>Nature Plants</i> , 2020, 6, 675-685.	4.7	55

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37	Insect herbivores selectively suppress the <sc>HPL</sc> branch of the oxylipin pathway in host plants. <i>Plant Journal</i> , 2013, 73, 653-662.	2.8	52
38	The plastidial retrograde signal methyl erythritol cyclopyrophosphate is a regulator of salicylic acid and jasmonic acid crosstalk. <i>Journal of Experimental Botany</i> , 2016, 67, 1557-1566.	2.4	51
39	Carbon partitioning between oil and carbohydrates in developing oat (<i>Avena sativa</i> L.) seeds. <i>Journal of Experimental Botany</i> , 2008, 59, 4247-4257.	2.4	50
40	The distribution of caprylate, caprate and laurate in lipids from developing and mature seeds of transgenic <i>Brassica napus</i> L.. <i>Planta</i> , 2000, 212, 33-40.	1.6	45
41	Distinct Roles for Mitogen-Activated Protein Kinase Signaling and CALMODULIN-BINDING TRANSCRIPTIONAL ACTIVATOR3 in Regulating the Peak Time and Amplitude of the Plant General Stress Response. <i>Plant Physiology</i> , 2014, 166, 988-996.	2.3	43
42	Review of stress specific organelles-to-nucleus metabolic signal molecules in plants. <i>Plant Science</i> , 2013, 212, 102-107.	1.7	38
43	How can we genetically engineer oilseed crops to produce high levels of medium-chain fatty acids?. <i>European Journal of Lipid Science and Technology</i> , 2001, 103, 688-697.	1.0	37
44	THE <i>Arabidopsis</i> PHYTOCHROME A GENE HAS MULTIPLE TRANSCRIPTION START SITES AND A PROMOTER SEQUENCE MOTIF HOMOLOGOUS TO THE REPRESSOR ELEMENT OF MONOCOT PHYTOCHROME A GENES. <i>Photochemistry and Photobiology</i> , 1994, 59, 379-384.	1.3	36
45	Twin autonomous bipartite nuclear localization signals direct nuclear import of GT-2. <i>Plant Journal</i> , 1995, 8, 25-36.	2.8	36
46	Integrated omics analyses of retrograde signaling mutant delineate interrelated stress response strata. <i>Plant Journal</i> , 2017, 91, 70-84.	2.8	36
47	Drought stress modulates oxylipin signature by eliciting 12-OPDA as a potent regulator of stomatal aperture. <i>Plant Signaling and Behavior</i> , 2014, 9, e28304.	1.2	31
48	The B-box protein BBX19 suppresses seed germination via induction of <i>ABI5</i> . <i>Plant Journal</i> , 2019, 99, 1192-1202.	2.8	31
49	Jasmonates-Mediated Rewiring of Central Metabolism Regulates Adaptive Responses. <i>Plant and Cell Physiology</i> , 2019, 60, 2613-2620.	1.5	30
50	Plastidial retrograde modulation of light and hormonal signaling: an odyssey. <i>New Phytologist</i> , 2021, 230, 931-937.	3.5	30
51	Oxylipin Pathway in Rice and <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2007, 49, 43-51.	4.1	29
52	Cofactome analyses reveal enhanced flux of carbon into oil for potential biofuel production. <i>Plant Journal</i> , 2011, 67, 1018-1028.	2.8	28
53	Interplay of the two ancient metabolites auxin and MEcPP regulates adaptive growth. <i>Nature Communications</i> , 2018, 9, 2262.	5.8	27
54	Retrograde Induction of phyB Orchestrates Ethylene-Auxin Hierarchy to Regulate Growth. <i>Plant Physiology</i> , 2020, 183, 1268-1280.	2.3	27

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55	Determinants of timing and amplitude in the plant general stress response. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 119-126.	4.1	26
56	Initiation of ER Body Formation and Indole Glucosinolate Metabolism by the Plastidial Retrograde Signaling Metabolite, MEcPP. <i>Molecular Plant</i> , 2017, 10, 1400-1416.	3.9	26
57	Supplementation with Abscisic Acid Reduces Malaria Disease Severity and Parasite Transmission. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016, 94, 1266-1275.	0.6	23
58	ER: the Silk Road of interorganellar communication. <i>Current Opinion in Plant Biology</i> , 2018, 45, 171-177.	3.5	23
59	The distribution of NADPH-protochlorophyllide oxidoreductase in relation to chlorophyll accumulation along the barley leaf gradient. <i>Planta</i> , 1983, 158, 134-139.	1.6	22
60	Orthogonal regulation of phytochrome B abundance by stress-specific plastidial retrograde signaling metabolite. <i>Nature Communications</i> , 2019, 10, 2904.	5.8	22
61	The function of proteases during the light-dependent transformation of etioplasts to chloroplasts in barley (<i>Hordeum vulgare</i> L.). <i>Planta</i> , 1983, 157, 381-383.	1.6	21
62	Waterlogging tolerance rendered by oxylipin-mediated metabolic reprogramming in Arabidopsis. <i>Journal of Experimental Botany</i> , 2019, 70, 2919-2932.	2.4	21
63	The biosynthesis of chlorophyll in greening barley (<i>Hordeum vulgare</i>). Is there a light-independent protochlorophyllide reductase?. <i>Planta</i> , 1984, 161, 550-554.	1.6	20
64	The eukaryotic MEP-pathway genes are evolutionarily conserved and originated from Chlamydia and cyanobacteria. <i>BMC Genomics</i> , 2021, 22, 137.	1.2	20
65	Investigating the function of CAF1 deadenylases during plant stress responses. <i>Plant Signaling and Behavior</i> , 2010, 5, 802-805.	1.2	19
66	The hydroperoxide lyase branch of the oxylipin pathway protects against photoinhibition of photosynthesis. <i>Planta</i> , 2017, 245, 1179-1192.	1.6	19
67	From retrograde signaling to flowering time. <i>Plant Signaling and Behavior</i> , 2015, 10, e1022012.	1.2	18
68	GT-2: In vivo Transcriptional Activation Activity and Definition of Novel Twin DNA Binding Domains with Reciprocal Target Sequence Selectivity. <i>Plant Cell</i> , 1996, 8, 1041.	3.1	17
69	Eicosapolyenoic acids. <i>Plant Signaling and Behavior</i> , 2011, 6, 531-533.	1.2	13
70	Insect herbivores selectively mute GLV production in plants. <i>Plant Signaling and Behavior</i> , 2013, 8, e24136.	1.2	12
71	Light-induced changes in the amounts of the 36000-Mr polypeptide of NADPH-protochlorophyllide oxidoreductase and its mRNA in barley plants grown under a diurnal light/dark cycle. <i>Planta</i> , 1987, 170, 453-460.	1.6	11
72	Uncovering the functional residues of <i>Arabidopsis</i> isoprenoid biosynthesis enzyme HDS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 355-361.	3.3	10

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73	Chlorophyll synthesis in green leaves and isolated chloroplasts of barley (<i>Hordeum vulgare</i>). <i>Physiologia Plantarum</i> , 1987, 69, 173-181.	2.6	9
74	Brassinosteroid's multi-modular interaction with the general stress network customizes stimulus-specific responses in <i>Arabidopsis</i> . <i>Plant Science</i> , 2016, 250, 165-177.	1.7	9
75	Metabolite Profiling of Plastidial Deoxyxylulose-5-Phosphate Pathway Intermediates by Liquid Chromatography and Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2014, 1153, 57-76.	0.4	8
76	Camellia-based simultaneous imaging of Ca ²⁺ dynamics in subcellular compartments. <i>Plant Physiology</i> , 2022, 188, 2253-2271.	2.3	8
77	Quantitative Analysis of Cis-Regulatory Element Activity Using Synthetic Promoters in Transgenic Plants. <i>Methods in Molecular Biology</i> , 2016, 1482, 15-30.	0.4	4
78	<scp>ORA47</scp> is a transcriptional regulator of a general stress response hub. <i>Plant Journal</i> , 2022, 110, 562-571.	2.8	4
79	A plastidial retrograde signal potentiates biosynthesis of systemic stress response activators. <i>New Phytologist</i> , 2022, 233, 1732-1749.	3.5	4
80	A Chemical Genetic Screening Procedure for <i>Arabidopsis thaliana</i> Seedlings. <i>Bio-protocol</i> , 2015, 5, .	0.2	3
81	Reciprocity between a retrograde signal and a putative metalloprotease reconfigures plastidial metabolic and structural states. <i>Science Advances</i> , 2022, 8, .	4.7	1