Katayoon Dehesh

List of Publications by Year
in descending order

81	5,208	39	70
papers	citations	h-index	g-index
		81743	88477

87	87	87	6012
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	<scp>ORA47</scp> is a transcriptional regulator of a general stress response hub. Plant Journal, 2022, 110, 562-571.	2.8	4
2	CamelliA-based simultaneous imaging of Ca2+ dynamics in subcellular compartments. Plant Physiology, 2022, 188, 2253-2271.	2.3	8
3	A plastidial retrograde signal potentiates biosynthesis of systemic stress response activators. New Phytologist, 2022, 233, 1732-1749.	3.5	4
4	Reciprocity between a retrograde signal and a putative metalloprotease reconfigures plastidial metabolic and structural states. Science Advances, 2022, 8, .	4.7	1
5	The eukaryotic MEP-pathway genes are evolutionarily conserved and originated from Chlaymidia and cyanobacteria. BMC Genomics, 2021, 22, 137.	1.2	20
6	Plastidial retrograde modulation of light and hormonal signaling: an odyssey. New Phytologist, 2021, 230, 931-937.	3.5	30
7	Uncovering the functional residues of <i>Arabidopsis</i> isoprenoid biosynthesis enzyme HDS. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 355-361.	3.3	10
8	Retrograde Induction of phyB Orchestrates Ethylene-Auxin Hierarchy to Regulate Growth. Plant Physiology, 2020, 183, 1268-1280.	2.3	27
9	DHH1/DDX6-like RNA helicases maintain ephemeral half-lives of stress-response mRNAs. Nature Plants, 2020, 6, 675-685.	4.7	55
10	Orthogonal regulation of phytochrome B abundance by stress-specific plastidial retrograde signaling metabolite. Nature Communications, 2019, 10, 2904.	5.8	22
11	Jasmonates-Mediated Rewiring of Central Metabolism Regulates Adaptive Responses. Plant and Cell Physiology, 2019, 60, 2613-2620.	1.5	30
12	The Bâ€box protein BBX19 suppresses seed germination via induction of <i>ABI5</i>. Plant Journal, 2019, 99, 1192-1202.	2.8	31
13	Waterlogging tolerance rendered by oxylipin-mediated metabolic reprogramming in Arabidopsis. Journal of Experimental Botany, 2019, 70, 2919-2932.	2.4	21
14	The MAP4 Kinase SIK1 Ensures Robust Extracellular ROS Burst and Antibacterial Immunity in Plants. Cell Host and Microbe, 2018, 24, 379-391.e5.	5.1	95
15	ER: the Silk Road of interorganellar communication. Current Opinion in Plant Biology, 2018, 45, 171-177.	3.5	23
16	Interplay of the two ancient metabolites auxin and MEcPP regulates adaptive growth. Nature Communications, 2018, 9, 2262.	5.8	27
17	ORA59 and EIN3 interaction couples jasmonateâ€ethylene synergistic action to antagonistic salicylic acid regulation of PDF expression. Journal of Integrative Plant Biology, 2017, 59, 275-287.	4.1	65
18	Integrated omics analyses of retrograde signaling mutant delineate interrelated stressâ€response strata. Plant Journal, 2017, 91, 70-84.	2.8	36

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19	The hydroperoxide lyase branch of the oxylipin pathway protects against photoinhibition of photosynthesis. Planta, 2017, 245, 1179-1192.	1.6	19
20	Initiation of ER Body Formation and Indole Glucosinolate Metabolism by the Plastidial Retrograde Signaling Metabolite, MEcPP. Molecular Plant, 2017, 10, 1400-1416.	3.9	26
21	Retrograde Signals: Integrators of Interorganellar Communication and Orchestrators of Plant Development. Annual Review of Plant Biology, 2017, 68, 85-108.	8.6	188
22	Brassinosteroidâ€™s multi-modular interaction with the general stress network customizes stimulus-specific responses in Arabidopsis. Plant Science, 2016, 250, 165-177.	1.7	9
23	Quantitative Analysis of Cis-Regulatory Element Activity Using Synthetic Promoters in Transgenic Plants. Methods in Molecular Biology, 2016, 1482, 15-30.	0.4	4
24	Plastidial metabolite MEcPP induces a transcriptionally centered stress-response hub via the transcription factor CAMTA3. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8855-8860.	3.3	57
25	Determinants of timing and amplitude in the plant general stress response. Journal of Integrative Plant Biology, 2016, 58, 119-126.	4.1	26
26	Supplementation with Abscisic Acid Reduces Malaria Disease Severity and Parasite Transmission. American Journal of Tropical Medicine and Hygiene, 2016, 94, 1266-1275.	0.6	23
27	The plastidial retrograde signal methyl erythritol cyclopyrophosphate is a regulator of salicylic acid and jasmonic acid crosstalk. Journal of Experimental Botany, 2016, 67, 1557-1566.	2.4	51
28	From retrograde signaling to flowering time. Plant Signaling and Behavior, 2015, 10, e1022012.	1.2	18
29	Plastid-produced interorgannellar stress signal MEcPP potentiates induction of the unfolded protein response in endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6212-6217.	3.3	82
30	The Transcriptional Regulator BBX19 Promotes Hypocotyl Growth by Facilitating COP1-Mediated EARLY FLOWERING3 Degradation in Arabidopsis. Plant Cell, 2015, 27, 1128-1139.	3.1	104
31	A Chemical Genetic Screening Procedure for Arabidopsis thaliana Seedlings. Bio-protocol, 2015, 5, .	0.2	3
32	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 Â Â. Plant Physiology, 2014, 166, 988-996.	2.3	43
33	Drought stress modulates oxylipin signature by eliciting 12-OPDA as a potent regulator of stomatal aperture. Plant Signaling and Behavior, 2014, 9, e28304.	1.2	31
34	A key general stress response motif is regulated nonâ€uniformly by <scp>CAMTA</scp> transcription factors. Plant Journal, 2014, 80, 82-92.	2.8	77
35	Functional Convergence of Oxylipin and Abscisic Acid Pathways Controls Stomatal Closure in Response to Drought Â Â. Plant Physiology, 2014, 164, 1151-1160.	2.3	241
36	BBX19 Interacts with CONSTANS to Repress<i>FLOWERING LOCUS T</i>Transcription, Defining a Flowering Time Checkpoint in<i>Arabidopsis</i>Â Â. Plant Cell, 2014, 26, 3589-3602.	3.1	137

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37	Metabolite Profiling of Plastidial Deoxyxylulose-5-Phosphate Pathway Intermediates by Liquid Chromatography and Mass Spectrometry. Methods in Molecular Biology, 2014, 1153, 57-76.	0.4	8
38	Fatty acids and early detection of pathogens. Current Opinion in Plant Biology, 2013, 16, 520-526.	3.5	137
39	Insect herbivores selectively suppress the <scp>HPL</scp> branch of the oxylipin pathway in host plants. Plant Journal, 2013, 73, 653-662.	2.8	52
40	Review of stress specific organelles-to-nucleus metabolic signal molecules in plants. Plant Science, 2013, 212, 102-107.	1.7	38
41	Insect herbivores selectively mute GLV production in plants. Plant Signaling and Behavior, 2013, 8, e24136.	1.2	12
42	Retrograde Signaling by the Plastidial Metabolite MEcPP Regulates Expression of Nuclear Stress-Response Genes. Cell, 2012, 149, 1525-1535.	13.5	368
43	Cofactome analyses reveal enhanced flux of carbon into oil for potential biofuel production. Plant Journal, 2011, 67, 1018-1028.	2.8	28
44	Eicosapolyenoic acids. Plant Signaling and Behavior, 2011, 6, 531-533.	1.2	13
45	Intronic T-DNA Insertion Renders Arabidopsis<i>opr3</i>a Conditional Jasmonic Acid-Producing Mutant Â Â Â. Plant Physiology, 2011, 156, 770-778.	2.3	93
46	Molecular Mechanisms Regulating Rapid Stress Signaling Networks in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2010, 52, 354-359.	4.1	73
47	Deficiencies in Jasmonate-Mediated Plant Defense Reveal Quantitative Variation in Botrytis cinerea Pathogenesis. PLoS Pathogens, 2010, 6, e1000861.	2.1	141
48	Investigating the function of CAF1 deadenylases during plant stress responses. Plant Signaling and Behavior, 2010, 5, 802-805.	1.2	19
49	Arachidonic Acid: An Evolutionarily Conserved Signaling Molecule Modulates Plant Stress Signaling Networks Â. Plant Cell, 2010, 22, 3193-3205.	3.1	152
50	Arabidopsis Deadenylases AtCAF1a and AtCAF1b Play Overlapping and Distinct Roles in Mediating Environmental Stress Responses. Plant Physiology, 2010, 152, 866-875.	2.3	98
51	Carbon partitioning between oil and carbohydrates in developing oat (Avena sativa L.) seeds. Journal of Experimental Botany, 2008, 59, 4247-4257.	2.4	50
52	The Chromatin Remodeler SPLAYED Regulates Specific Stress Signaling Pathways. PLoS Pathogens, 2008, 4, e1000237.	2.1	129
53	Genome-Wide Expression Profiling Arabidopsis at the Stage of<i>Golovinomyces cichoracearum</i>Haustorium Formation Â Â. Plant Physiology, 2008, 146, 1421-1439.	2.3	79
54	Distinct Roles of Jasmonates and Aldehydes in Plant-Defense Responses. PLoS ONE, 2008, 3, e1904.	1.1	120

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55	Mechanical Stress Induces Biotic and Abiotic Stress Responses via a Novel cis-Element. PLoS Genetics, 2007, 3, e172.	1.5	205
56	Oxylipin Pathway in Rice and Arabidopsis. Journal of Integrative Plant Biology, 2007, 49, 43-51.	4.1	29
57	Acyl CoA profiles of transgenic plants that accumulate medium-chain fatty acids indicate inefficient storage lipid synthesis in developing oilseeds. Plant Journal, 2002, 32, 519-527.	2.8	73
58	The crystal structure of Î²-ketoacyl-acyl carrier protein synthase II from Synechocystis sp. at 1.54 Ã… resolution and its relationship to other condensing enzymes11Edited by R. Huber. Journal of Molecular Biology, 2001, 305, 491-503.	2.0	66
59	How can we genetically engineer oilseed crops to produce high levels of medium-chain fatty acids?. European Journal of Lipid Science and Technology, 2001, 103, 688-697.	1.0	37
60	Overexpression of 3-Ketoacyl-Acyl-Carrier Protein Synthase IIIs in Plants Reduces the Rate of Lipid Synthesis. Plant Physiology, 2001, 125, 1103-1114.	2.3	134
61	Rice PHYC gene: structure, expression, map position and evolution. Plant Molecular Biology, 2000, 44, 27-42.	2.0	63
62	The distribution of caprylate, caprate and laurate in lipids from developing and mature seeds of transgenic Brassica napus L.. Planta, 2000, 212, 33-40.	1.6	45
63	ACX3, a Novel Medium-Chain Acyl-Coenzyme A Oxidase from Arabidopsis. Plant Physiology, 2000, 123, 733-742.	2.3	77
64	Structure of the Complex between the Antibiotic Cerulenin and Its Target, Î²-Ketoacyl-Acyl Carrier Protein Synthase. Journal of Biological Chemistry, 1999, 274, 6031-6034.	1.6	177
65	KAS IV: a 3â€ketoacylâ€ACP synthase fromCuphea sp. is a medium chain specific condensing enzyme. Plant Journal, 1998, 15, 383-390.	2.8	82
66	Cloning of the fabF gene in an expression vector and in vitro characterization of recombinant fabF and fabB encoded enzymes from Escherichia coli. FEBS Letters, 1997, 402, 62-66.	1.3	86
67	Production of high levels of 8:0 and 10:0 fatty acids in transgenic canola by overexpression of Ch FatB2, a thioesterase cDNA from Cuphea hookeriana. Plant Journal, 1996, 9, 167-172.	2.8	177
68	GT-2: In vivo Transcriptional Activation Activity and Definition of Novel Twin DNA Binding Domains with Reciprocal Target Sequence Selectivity. Plant Cell, 1996, 8, 1041.	3.1	17
69	Twin autonomous bipartite nuclear localization signals direct nuclear import of GT-2. Plant Journal, 1995, 8, 25-36.	2.8	36
70	THE Arabidopsis PHYTOCHROME A GENE HAS MULTIPLE TRANSCRIPTION START SITES AND A PROMOTER SEQUENCE MOTIF HOMOLOGOUS TO THE REPRESSOR ELEMENT OF MONOCOT PHYTOCHROME A GENES. Photochemistry and Photobiology, 1994, 59, 379-384.	1.3	36
71	DNA binding factor GT-2 from Arabidopsis. Plant Molecular Biology, 1993, 23, 337-348.	2.0	59
72	phyB is evolutionarily conserved and constitutively expressed in rice seedling shoots. Molecular Genetics and Genomics, 1991, 225, 305-313.	2.4	130

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73	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. Planta, 1987, 170, 453-460.	1.6	11
74	Chlorophyll synthesis in green leaves and isolated chloroplasts of barley (Hordeum vulgare). Physiologia Plantarum, 1987, 69, 173-181.	2.6	9
75	Localization of NADPH-protochlorophyllide oxidoreductase in dark-grown wheat (Triticum aestivum) by immuno-electron microscopy before and after transformation of the prolamellar bodies. Physiologia Plantarum, 1986, 66, 616-624.	2.6	128
76	The light-dependent accumulation of the P700 chlorophyll a protein of the photosystem I reaction center in barley. Evidence for translational control. FEBS Journal, 1986, 159, 459-467.	0.2	69
77	The NADPH-protochlorophyllide oxidoreductase is the major protein constituent of prolamellar bodies in wheat (Triticum aestivum L.). Planta, 1985, 164, 396-399.	1.6	77
78	The biosynthesis of chlorophyll in greening barley (Hordeum vulgare). Is there a light-independent protochlorophyllide reductase?. Planta, 1984, 161, 550-554.	1.6	20
79	The proteolytic degradation in vitro of the NADPH-protochlorophyllide oxidoreductase of barley (Hordeum vulgare L.). Archives of Biochemistry and Biophysics, 1984, 228, 577-586.	1.4	63
80	The function of proteases during the light-dependent transformation of etioplasts to chloroplasts in barley (Hordeum vulgare L.). Planta, 1983, 157, 381-383.	1.6	21
81	The distribution of NADPH-protochlorophyllide oxidoreductase in relation to chlorophyll accumulation along the barley leaf gradient. Planta, 1983, 158, 134-139.	1.6	22