

Jyoti Shah

List of Publications by Year in descending order

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77
papers

8,353
citations

61984

43
h-index

74163

75
g-index

80
all docs

80
docs citations

80
times ranked

7385
citing authors

#	ARTICLE	IF	CITATIONS
1	The salicylic acid loop in plant defense. <i>Current Opinion in Plant Biology</i> , 2003, 6, 365-371.	7.1	513
2	Characterization of a Salicylic Acid-Insensitive Mutant (<i>sai1</i>) of <i>Arabidopsis thaliana</i> , Identified in a Selective Screen Utilizing the SA-Inducible Expression of the <i>tms2</i> Gene. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 69-78.	2.6	493
3	NPR1 Differentially Interacts with Members of the TGA/OBF Family of Transcription Factors That Bind an Element of the PR-1 Gene Required for Induction by Salicylic Acid. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 191-202.	2.6	448
4	Salicylic Acid and Disease Resistance in Plants. <i>Critical Reviews in Plant Sciences</i> , 1999, 18, 547-575.	5.7	446
5	Temporal-Spatial Interaction between Reactive Oxygen Species and Abscisic Acid Regulates Rapid Systemic Acclimation in Plants. <i>Plant Cell</i> , 2013, 25, 3553-3569.	6.6	316
6	Genetically Engineered Resistance to Fusarium Head Blight in Wheat by Expression of <i>Arabidopsis</i> NPR1. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 123-129.	2.6	313
7	A Gain-of-Function Mutation in an <i>Arabidopsis</i> Toll Interleukin1 Receptor "Nucleotide Binding Site" Leucine-Rich Repeat Type R Gene Triggers Defense Responses and Results in Enhanced Disease Resistance. <i>Plant Cell</i> , 2002, 14, 3149-3162.	6.6	281
8	Long-distance communication and signal amplification in systemic acquired resistance. <i>Frontiers in Plant Science</i> , 2013, 4, 30.	3.6	268
9	The <i>Arabidopsis</i> <i>ssi1</i> Mutation Restores Pathogenesis-Related Gene Expression in <i>npr1</i> Plants and Renders Defensin Gene Expression Salicylic Acid Dependent. <i>Plant Cell</i> , 1999, 11, 191-206.	6.6	267
10	Lipids, Lipases, and Lipid-Modifying Enzymes in Plant Disease Resistance. <i>Annual Review of Phytopathology</i> , 2005, 43, 229-260.	7.8	255
11	Resistance to Turnip Crinkle Virus in <i>Arabidopsis</i> Is Regulated by Two Host Genes and Is Salicylic Acid Dependent but NPR1, Ethylene, and Jasmonate Independent. <i>Plant Cell</i> , 2000, 12, 677-690.	6.6	254
12	RCY1, an <i>Arabidopsis thaliana</i> RPP8/HRT family resistance gene, conferring resistance to cucumber mosaic virus requires salicylic acid, ethylene and a novel signal transduction mechanism. <i>Plant Journal</i> , 2002, 32, 655-667.	5.7	228
13	Wounding Stimulates the Accumulation of Glycerolipids Containing Oxophytodienoic Acid and Dinor-Oxophytodienoic Acid in <i>Arabidopsis</i> Leaves. <i>Plant Physiology</i> , 2006, 142, 28-39.	4.8	202
14	An abietane diterpenoid is a potent activator of systemic acquired resistance. <i>Plant Journal</i> , 2012, 71, 161-172.	5.7	198
15	A recessive mutation in the <i>Arabidopsis</i> <i>SSI2</i> gene confers SA- and NPR1-independent expression of PR genes and resistance against bacterial and oomycete pathogens. <i>Plant Journal</i> , 2001, 25, 563-574.	5.7	193
16	Plants under attack: systemic signals in defence. <i>Current Opinion in Plant Biology</i> , 2009, 12, 459-464.	7.1	181
17	Premature Leaf Senescence Modulated by the <i>Arabidopsis</i> PHYTOALEXIN DEFICIENT4 Gene Is Associated with Defense against the Phloem-Feeding Green Peach Aphid. <i>Plant Physiology</i> , 2005, 139, 1927-1934.	4.8	179
18	The <i>Arabidopsis thaliana</i> Dihydroxyacetone Phosphate Reductase Gene SUPPRESSOR OF FATTY ACID DESATURASE DEFICIENCY1 Is Required for Glycerolipid Metabolism and for the Activation of Systemic Acquired Resistance[W]. <i>Plant Cell</i> , 2004, 16, 465-477.	6.6	175

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19	Antagonistic Interactions between the SA and JA Signaling Pathways in Arabidopsis Modulate Expression of Defense Genes and Gene-for-Gene Resistance to Cucumber Mosaic Virus. <i>Plant and Cell Physiology</i> , 2004, 45, 803-809.	3.1	163
20	Salicylic Acid Regulates Basal Resistance to Fusarium Head Blight in Wheat. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 431-439.	2.6	154
21	Involvement of Salicylate and Jasmonate Signaling Pathways in <i>Arabidopsis</i> Interaction with <i>Fusarium graminearum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 861-870.	2.6	150
22	Plastid Δ^3 -fatty acid desaturase-dependent accumulation of a systemic acquired resistance inducing activity in petiole exudates of <i>Arabidopsis thaliana</i> is independent of jasmonic acid. <i>Plant Journal</i> , 2008, 54, 106-117.	5.7	148
23	Plant defense against aphids, the pest extraordinaire. <i>Plant Science</i> , 2019, 279, 96-107.	3.6	148
24	Environmentally sensitive, SA-dependent defense responses in the cpr22 mutant of Arabidopsis. <i>Plant Journal</i> , 2001, 26, 447-459.	5.7	147
25	<i>TREHALOSE PHOSPHATE SYNTHASE11</i> -dependent trehalose metabolism promotes <i>Arabidopsis thaliana</i> defense against the phloem-feeding insect <i>Myzus persicae</i> . <i>Plant Journal</i> , 2011, 67, 94-104.	5.7	127
26	Signaling by small metabolites in systemic acquired resistance. <i>Plant Journal</i> , 2014, 79, 645-658.	5.7	126
27	Resistance against various fungal pathogens and reniform nematode in transgenic cotton plants expressing Arabidopsis NPR1. <i>Transgenic Research</i> , 2010, 19, 959-975.	2.4	113
28	Phloem-based resistance to green peach aphid is controlled by Arabidopsis <i>PHYTOALEXIN DEFICIENT4</i> without its signaling partner <i>ENHANCED DISEASE SUSCEPTIBILITY1</i> . <i>Plant Journal</i> , 2007, 52, 332-341.	5.7	106
29	Arabidopsis sfd Mutants Affect Plastidic Lipid Composition and Suppress Dwarfing, Cell Death, and the Enhanced Disease Resistance Phenotypes Resulting from the Deficiency of a Fatty Acid Desaturase. <i>Plant Cell</i> , 2003, 15, 2383-2398.	6.6	96
30	Arabidopsis thaliana-Myzus persicae interaction: shaping the understanding of plant defense against phloem-feeding aphids. <i>Frontiers in Plant Science</i> , 2013, 4, 213.	3.6	91
31	Lipid changes after leaf wounding in <i>Arabidopsis thaliana</i> : expanded lipidomic data form the basis for lipid co-occurrence analysis. <i>Plant Journal</i> , 2014, 80, 728-743.	5.7	90
32	Root-Derived Oxylipins Promote Green Peach Aphid Performance on <i>Arabidopsis</i> Foliage. <i>Plant Cell</i> , 2012, 24, 1643-1653.	6.6	84
33	Direct Infusion Mass Spectrometry of Oxylipin-Containing Arabidopsis Membrane Lipids Reveals Varied Patterns in Different Stress Responses. <i>Plant Physiology</i> , 2012, 158, 324-339.	4.8	81
34	<i>Arabidopsis thaliana</i> FLOWERING LOCUS D Is Required for Systemic Acquired Resistance. <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 1079-1088.	2.6	80
35	Identification of a salicylic acid-responsive element in the promoter of the tobacco pathogenesis-related beta-1,3-glucanase gene, PR-2d. <i>Plant Journal</i> , 1996, 10, 1089-1101.	5.7	71
36	Facilitation of <i>Fusarium graminearum</i> Infection by 9-Lipoxygenases in <i>Arabidopsis</i> and Wheat. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 1142-1152.	2.6	65

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37	Elicitors and defense gene induction in plants with altered lignin compositions. <i>New Phytologist</i> , 2018, 219, 1235-1251.	7.3	61
38	Ethylene and Jasmonic Acid Signaling Affect the NPR1-Independent Expression of Defense Genes Without Impacting Resistance to <i>Pseudomonas syringae</i> and <i>Peronospora parasitica</i> in the <i>Arabidopsis ssi1</i> Mutant. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 588-599.	2.6	58
39	Salicylic acid: signal perception and transduction. <i>New Comprehensive Biochemistry</i> , 1999, 33, 513-541.	0.1	57
40	Discrimination of <i>Arabidopsis</i> PAD4 Activities in Defense against Green Peach Aphid and Pathogens \hat{A} . <i>Plant Physiology</i> , 2012, 158, 1860-1872.	4.8	54
41	<i>Arabidopsis ssi2</i> -Conferred Susceptibility to <i>Botrytis cinerea</i> Is Dependent on EDS5 and PAD4. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 363-370.	2.6	52
42	High Level Expression of a Virus Resistance Gene, <i>RCY1</i> , Confers Extreme Resistance to <i>Cucumber mosaic virus</i> in <i>Arabidopsis thaliana</i> . <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 1398-1407.	2.6	52
43	Enhanced Resistance to Cucumber mosaic virus in the <i>Arabidopsis thaliana ssi2</i> Mutant Is Mediated via an SA-Independent Mechanism. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 623-632.	2.6	51
44	Antibiosis against the green peach aphid requires the <i>Arabidopsis thaliana</i> MYZUS PERSICAE-INDUCED LIPASE1 gene. <i>Plant Journal</i> , 2010, 64, 800-811.	5.7	47
45	PAD4-Dependent Antibiosis Contributes to the <i>ssi2</i> -Conferred Hyper-Resistance to the Green Peach Aphid. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 618-627.	2.6	46
46	<i>Arabidopsis ACTIN-DEPOLYMERIZING FACTOR3</i> Is Required for Controlling Aphid Feeding from the Phloem. <i>Plant Physiology</i> , 2018, 176, 879-890.	4.8	46
47	<i>Arabidopsis thaliana</i> Aphid Interaction. <i>The Arabidopsis Book</i> , 2012, 10, e0159.	0.5	45
48	Plant defence against aphids: the PAD4 signalling nexus. <i>Journal of Experimental Botany</i> , 2015, 66, 449-454.	4.8	42
49	Tomato responds to green peach aphid infestation with the activation of trehalose metabolism and starch accumulation. <i>Plant Signaling and Behavior</i> , 2012, 7, 605-607.	2.4	41
50	Single amino acid alterations in <i>Arabidopsis thaliana</i> RCY1 compromise resistance to Cucumber mosaic virus, but differentially suppress hypersensitive response-like cell death. <i>Plant Molecular Biology</i> , 2006, 62, 669-682.	3.9	40
51	Metabolic engineering of raffinose-family oligosaccharides in the phloem reveals alterations in carbon partitioning and enhances resistance to green peach aphid. <i>Frontiers in Plant Science</i> , 2013, 4, 263.	3.6	38
52	Salicylic Acid in Plant Disease Resistance. , 2007, , 335-370.		37
53	Leaf Lipid Alterations in Response to Heat Stress of <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2020, 9, 845.	3.5	36
54	<i>Arabidopsis thaliana cdd1</i> mutant uncouples the constitutive activation of salicylic acid signalling from growth defects. <i>Molecular Plant Pathology</i> , 2011, 12, 855-865.	4.2	30

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55	The Combined Action of ENHANCED DISEASE SUSCEPTIBILITY1, PHYTOALEXIN DEFICIENT4, and SENESCENCE-ASSOCIATED101 Promotes Salicylic Acid-Mediated Defenses to Limit Fusarium graminearum Infection in Arabidopsis thaliana. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 943-953.	2.6	29
56	Arabidopsis-Green Peach Aphid Interaction: Rearing the Insect, No-choice and Fecundity Assays, and Electrical Penetration Graph Technique to Study Insect Feeding Behavior. <i>Bio-protocol</i> , 2018, 8, e2950.	0.4	29
57	Targeting the pattern-triggered immunity pathway to enhance resistance to <i>Fusarium graminearum</i> . <i>Molecular Plant Pathology</i> , 2019, 20, 626-640.	4.2	23
58	Modifications of membrane lipids in response to wounding of <i>Arabidopsis thaliana</i> leaves. <i>Plant Signaling and Behavior</i> , 2015, 10, e1056422.	2.4	20
59	Cavity surface residues of <i>PAD4</i> and <i>SAG101</i> contribute to <i>EDS1</i> dimer signaling specificity in plant immunity. <i>Plant Journal</i> , 2022, 110, 1415-1432.	5.7	20
60	Biochemical and Molecular-Genetic Characterization of SFD1's Involvement in Lipid Metabolism and Defense Signaling. <i>Frontiers in Plant Science</i> , 2012, 3, 26.	3.6	19
61	Emerging role of roots in plant responses to aboveground insect herbivory. <i>Insect Science</i> , 2013, 20, 286-296.	3.0	18
62	Photochemical formation of chitosan-stabilized near-infrared-absorbing silver Nanoworms: A "Green" synthetic strategy and activity on Gram-negative pathogenic bacteria. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 437-452.	9.4	16
63	The <i>Arabidopsis</i> <i>PAD4</i> Lipase-Like Domain Is Sufficient for Resistance to Green Peach Aphid. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 328-335.	2.6	15
64	The green peach aphid, <i>Myzus persicae</i> , acquires a LIPOXYGENASE5-derived oxylipin from <i>Arabidopsis thaliana</i> , which promotes colonization of the host plant. <i>Plant Signaling and Behavior</i> , 2013, 8, e22735.	2.4	12
65	Establishment of a <i>Fusarium graminearum</i> Infection Model in <i>Arabidopsis thaliana</i> Leaves and Floral Tissues. <i>Bio-protocol</i> , 2016, 6, .	0.4	11
66	Dehydroabietinal promotes flowering time and plant defense in <i>Arabidopsis</i> via the autonomous pathway genes FLOWERING LOCUS D, FVE, and RELATIVE OF EARLY FLOWERING 6. <i>Journal of Experimental Botany</i> , 2020, 71, 4903-4913.	4.8	10
67	Green peach aphid infestation induces <i>Arabidopsis</i> <i>PHYTOALEXIN-DEFICIENT4</i> expression at site of insect feeding. <i>Plant Signaling and Behavior</i> , 2012, 7, 1431-1433.	2.4	8
68	Editorial: Advances in Plant-Hemipteran Interactions. <i>Frontiers in Plant Science</i> , 2017, 8, 1652.	3.6	8
69	Phloem: At the center of action in plant defense against aphids. <i>Journal of Plant Physiology</i> , 2022, 273, 153695.	3.5	8
70	Evaluation of the efficiency of Pd/H ₂ -catalyzed benzylic H/D exchange of dehydroabietinal with D ₂ O and synthesis of a tritium-labeled analogue. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 53-56.	1.0	6
71	Lipidomic Analysis of <i>Arabidopsis</i> T-DNA Insertion Lines Leads to Identification and Characterization of C-Terminal Alterations in FATTY ACID DESATURASE 6. <i>Plant and Cell Physiology</i> , 2022, 63, 1193-1204.	3.1	5
72	Signaling function of dehydroabietinal in plant defense and development. <i>Phytochemistry Reviews</i> , 2016, 15, 1115-1126.	6.5	3

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73	Lipases in Signaling Plant Defense Responses. Signaling and Communication in Plants, 2014, , 207-228.	0.7	3
74	Opposing effects of <i>MYZUS PERSICAE</i>-INDUCED LIPASE 1</i> and jasmonic acid influence the outcome of <i>Arabidopsis thaliana</i>-<i>Fusarium graminearum</i> interaction. Molecular Plant Pathology, 2022, , .	4.2	3
75	CYP720A1 function in roots is required for flowering time and systemic acquired resistance in the foliage of Arabidopsis. Journal of Experimental Botany, 2020, 71, 6612-6622.	4.8	1
76	Specific Changes in Arabidopsis thaliana Rosette Lipids during Freezing Can Be Associated with Freezing Tolerance. Metabolites, 2022, 12, 385.	2.9	1
77	Long-Distance Signaling in Systemic Acquired Resistance. Signaling and Communication in Plants, 2013, , 1-21.	0.7	0