Jane E Parker

List of Publications by Year
in descending order

81	12,979	38742 50	60623 81
papers	citations	h-index	g-index

92	92	92	9767
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular innovations in plant TIR-based immunity signaling. Plant Cell, 2022, 34, 1479-1496.	6.6	55
2	Cavity surface residues of <scp>PAD4</scp> and <scp>SAG101</scp> contribute to <scp>EDS1</scp> dimer signaling specificity in plant immunity. Plant Journal, 2022, 110, 1415-1432.	5.7	20
3	A misâ€regulated cyclic nucleotideâ€gated channel mediates cytosolic calcium elevation and activates immunity in Arabidopsis. New Phytologist, 2021, 230, 1078-1094.	7.3	51
4	Bacterial effector targeting of a plant iron sensor facilitates iron acquisition and pathogen colonization. Plant Cell, 2021, 33, 2015-2031.	6.6	40
5	Pathogen effector recognition-dependent association of NRG1 with EDS1 and SAG101 in TNL receptor immunity. Nature Communications, 2021, 12, 3335.	12.8	112
6	EDS1 signalling: At the nexus of intracellular and surface receptor immunity. Current Opinion in Plant Biology, 2021, 62, 102039.	7.1	82
7	The <i>Arabidopsis</i> PAD4 Lipase-Like Domain Is Sufficient for Resistance to Green Peach Aphid. Molecular Plant-Microbe Interactions, 2020, 33, 328-335.	2.6	15
8	<i>Arabidopsis</i> EDR1 Protein Kinase Regulates the Association of EDS1 and PAD4 to Inhibit Cell Death. Molecular Plant-Microbe Interactions, 2020, 33, 693-703.	2.6	17
9	Discovery of a Family of Mixed Lineage Kinase Domain-like Proteins in Plants and Their Role in Innate Immune Signaling. Cell Host and Microbe, 2020, 28, 813-824.e6.	11.0	50
10	Downy Mildew effector HaRxL21 interacts with the transcriptional repressor TOPLESS to promote pathogen susceptibility. PLoS Pathogens, 2020, 16, e1008835.	4.7	34
11	Origins and Immunity Networking Functions of EDS1 Family Proteins. Annual Review of Phytopathology, 2020, 58, 253-276.	7.8	121
12	Arabidopsis immunity regulator EDS1 in a PAD4/SAG101-unbound form is a monomer with an inherently inactive conformation. Journal of Structural Biology, 2019, 208, 107390.	2.8	19
13	An EDS1 heterodimer signalling surface enforces timely reprogramming of immunity genes in Arabidopsis. Nature Communications, 2019, 10, 772.	12.8	103
14	A Coevolved EDS1-SAG101-NRG1 Module Mediates Cell Death Signaling by TIR-Domain Immune Receptors. Plant Cell, 2019, 31, 2430-2455.	6.6	198
15	<i>NLR</i> Mutations Suppressing Immune Hybrid Incompatibility and Their Effects on Disease Resistance. Plant Physiology, 2018, 177, 1152-1169.	4.8	21
16	Chemical Activation of EDS1/PAD4 Signaling Leading to Pathogen Resistance in Arabidopsis. Plant and Cell Physiology, 2018, 59, 1592-1607.	3.1	31
17	Antagonism of Transcription Factor MYC2 by EDS1/PAD4 Complexes Bolsters Salicylic Acid Defense in Arabidopsis Effector-Triggered Immunity. Molecular Plant, 2018, 11, 1053-1066.	8.3	111
18	Monoterpenes Support Systemic Acquired Resistance within and between Plants. Plant Cell, 2017, 29, 1440-1459.	6.6	184

#	ARTICLE	IF	CITATIONS
19	NLR locus-mediated trade-off between abiotic and biotic stress adaptation in Arabidopsis. Nature Plants, 2017, 3, 17072.	9.3	53
20	A core function of EDS1 with PAD4 is to protect the salicylic acid defense sector in Arabidopsis immunity. New Phytologist, 2017, 213, 1802-1817.	7.3	245
21	Arabidopsis thaliana DM2h (R8) within the Landsberg RPP1-like Resistance Locus Underlies Three Different Cases of EDS1-Conditioned Autoimmunity. PLoS Genetics, 2016, 12, e1005990.	3.5	38
22	Small Molecule DFPM Derivative-Activated Plant Resistance Protein Signaling in Roots Is Unaffected by EDS1 Subcellular Targeting Signal and Chemical Genetic Isolation of victr R-Protein Mutants. PLoS ONE, 2016, 11, e0155937.	2.5	5
23	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. Molecular Plant-Microbe Interactions, 2015, 28, 943-953.	2.6	29
24	Effector-Triggered Immunity: From Pathogen Perception to Robust Defense. Annual Review of Plant Biology, 2015, 66, 487-511.	18.7	1,075
25	Arabidopsis ENHANCED DISEASE SUSCEPTIBILITY1 promotes systemic acquired resistance via azelaic acid and its precursor 9-oxo nonanoic acid. Journal of Experimental Botany, 2014, 65, 5919-5931.	4.8	60
26	Contrasting Roles of the Apoplastic Aspartyl Protease APOPLASTIC, <i>ENHANCED DISEASE SUSCEPTIBILITY1</i>-DEPENDENT1 and LEGUME LECTIN-LIKE PROTEIN1 in Arabidopsis Systemic Acquired Resistance Â, Â Â. Plant Physiology, 2014, 165, 791-809.	4.8	151
27	NOD-like receptor cooperativity in effector-triggered immunity. Trends in Immunology, 2014, 35, 562-570.	6.8	51
28	Nonsense-Mediated mRNA Decay Modulates Immune Receptor Levels to Regulate Plant Antibacterial Defense. Cell Host and Microbe, 2014, 16, 376-390.	11.0	126
29	Increased Resistance to Biotrophic Pathogens in the Arabidopsis Constitutive Induced Resistance 1 Mutant Is EDS1 and PAD4-Dependent and Modulated by Environmental Temperature. PLoS ONE, 2014, 9, e109853.	2.5	11
30	Functional Analysis of Hyaloperonospora arabidopsidis RXLR Effectors. PLoS ONE, 2014, 9, e110624.	2.5	14
31	Structural Basis for Signaling by Exclusive EDS1 Heteromeric Complexes with SAG101 or PAD4 in Plant Innate Immunity. Cell Host and Microbe, 2013, 14, 619-630.	11.0	227
32	A <scp>TIR</scp>â€“<scp>NBS</scp> protein encoded by <scp>A</scp>rabidopsis <i><scp>C</scp>hilling <scp>S</scp>ensitive 1</i> (<i><scp>CHS</scp>1</i>) limits chloroplast damage and cell death at low temperature. Plant Journal, 2013, 75, 539-552.	5.7	50
33	Nucleocytoplasmic partitioning of tobacco N receptor is modulated by <scp>SGT</scp>1. New Phytologist, 2013, 200, 158-171.	7.3	54
34	Natural Variation in Small Moleculeâ€“Induced TIR-NB-LRR Signaling Induces Root Growth Arrest via EDS1- and PAD4-Complexed R Protein VICTR in<i>Arabidopsis</i>Â Â. Plant Cell, 2013, 24, 5177-5192.	6.6	64
35	Arabidopsis TNL-WRKY domain receptor RRS1 contributes to temperature-conditioned RPS4 auto-immunity. Frontiers in Plant Science, 2013, 4, 403.	3.6	46
36	Discrimination of Arabidopsis PAD4 Activities in Defense against Green Peach Aphid and Pathogens Â Â. Plant Physiology, 2012, 158, 1860-1872.	4.8	54

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37	Molecular and spatial constraints on NB-LRR receptor signaling. Current Opinion in Plant Biology, 2012, 15, 385-391.	7.1	44
38	<i>Arabidopsis</i> EDS1 Connects Pathogen Effector Recognition to Cell Compartmentâ€“Specific Immune Responses. Science, 2011, 334, 1401-1404.	12.6	284
39	LEAFY Target Genes Reveal Floral Regulatory Logic, cis Motifs, and a Link to Biotic Stimulus Response. Developmental Cell, 2011, 20, 430-443.	7.0	239
40	<i>SGT1</i> contributes to coronatine signaling and <i>Pseudomonas syringae</i> pv. <i>tomato</i> disease symptom development in tomato and Arabidopsis. New Phytologist, 2011, 189, 83-93.	7.3	32
41	Different roles of Enhanced Disease Susceptibility1 (EDS1) bound to and dissociated from Phytoalexin Deficient4 (PAD4) in Arabidopsis immunity. New Phytologist, 2011, 191, 107-119.	7.3	206
42	Chemical Genetics Reveals Negative Regulation of Abscisic Acid Signaling by a Plant Immune Response Pathway. Current Biology, 2011, 21, 990-997.	3.9	152
43	Crystallization and preliminary crystallographic analysis of<i>Arabidopsis thaliana</i>EDS1, a key component of plant immunity, in complex with its signalling partner SAG101. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 245-248.	0.7	4
44	Salicylic acid antagonism of EDS1-driven cell death is important for immune and oxidative stress responses in Arabidopsis. Plant Journal, 2010, 62, 628-640.	5.7	138
45	Natural variation at Strubbelig Receptor Kinase 3 drives immune-triggered incompatibilities between Arabidopsis thaliana accessions. Nature Genetics, 2010, 42, 1135-1139.	21.4	117
46	Accumulation of Isochorismate-derived 2,3-Dihydroxybenzoic 3-O-Î²-d-Xyloside in Arabidopsis Resistance to Pathogens and Ageing of Leaves. Journal of Biological Chemistry, 2010, 285, 25654-25665.	3.4	82
47	Balanced Nuclear and Cytoplasmic Activities of EDS1 Are Required for a Complete Plant Innate Immune Response. PLoS Pathogens, 2010, 6, e1000970.	4.7	202
48	Nucleoporin MOS7/Nup88 contributes to plant immunity and nuclear accumulation of defense regulators. Nucleus, 2010, 1, 332-336.	2.2	30
49	Incremental steps toward incompatibility revealed by Arabidopsis epistatic interactions modulating salicylic acid pathway activation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 334-339.	7.1	172
50	COP9 Signalosome- and 26S Proteasome-dependent Regulation of SCFTIR1 Accumulation in Arabidopsis. Journal of Biological Chemistry, 2009, 284, 7920-7930.	3.4	58
51	Arabidopsis Chloroplastic Glutathione Peroxidases Play a Role in Cross Talk between Photooxidative Stress and Immune Responses Â Â. Plant Physiology, 2009, 150, 670-683.	4.8	171
52	Nuclear Pore Complex Component MOS7/Nup88 Is Required for Innate Immunity and Nuclear Accumulation of Defense Regulators in<i>Arabidopsis</i>Â Â. Plant Cell, 2009, 21, 2503-2516.	6.6	233
53	A locus conferring resistance to <i>Colletotrichum higginsianum</i> is shared by four geographically distinct Arabidopsis accessions. Plant Journal, 2009, 60, 602-613.	5.7	131
54	Chloroplast Signaling and<i>LESION SIMULATING DISEASE1</i>Regulate Crosstalk between Light Acclimation and Immunity in<i>Arabidopsis</i>Â. Plant Cell, 2008, 20, 2339-2356.	6.6	326

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55	Staying in the fold. Plant Signaling and Behavior, 2008, 3, 283-285.	2.4	27
56	Interaction between SGT1 and Cytosolic/Nuclear HSC70 Chaperones Regulates <i>Arabidopsis</i> Immune Responses. Plant Cell, 2008, 19, 4061-4076.	6.6	187
57	Phloemâ€based resistance to green peach aphid is controlled by Arabidopsis <i>PHYTOALEXIN DEFICIENT4</i> without its signaling partner <i>ENHANCED DISEASE SUSCEPTIBILITY1</i>. Plant Journal, 2007, 52, 332-341.	5.7	106
58	Nuclear Accumulation of the Arabidopsis Immune Receptor RPS4 Is Necessary for Triggering EDS1-Dependent Defense. Current Biology, 2007, 17, 2023-2029.	3.9	281
59	Salicylic Acidâ€“Independent ENHANCED DISEASE SUSCEPTIBILITY1 Signaling in Arabidopsis Immunity and Cell Death Is Regulated by the Monooxygenase FMO1 and the Nudix Hydrolase NUDT7. Plant Cell, 2006, 18, 1038-1051.	6.6	455
60	The atypical resistance gene, RPW8, recruits components of basal defence for powdery mildew resistance in Arabidopsis. Plant Journal, 2005, 42, 95-110.	5.7	157
61	Plant immunity: the EDS1 regulatory node. Current Opinion in Plant Biology, 2005, 8, 383-389.	7.1	542
62	Arabidopsis SENESCENCE-ASSOCIATED GENE101 Stabilizes and Signals within an ENHANCED DISEASE SUSCEPTIBILITY1 Complex in Plant Innate Immunity. Plant Cell, 2005, 17, 2601-2613.	6.6	413
63	Potato Homologs of Arabidopsis thaliana Genes Functional in Defense Signalingâ€"Identification, Genetic Mapping, and Molecular Cloning. Molecular Plant-Microbe Interactions, 2005, 18, 1107-1119.	2.6	34
64	LESION SIMULATING DISEASE 1 Is Required for Acclimation to Conditions That Promote Excess Excitation Energy Â Â. Plant Physiology, 2004, 136, 2818-2830.	4.8	328
65	Rapid one-step protein purification from plant material using the eight-amino acid StrepII epitope. Plant Molecular Biology, 2004, 55, 135-147.	3.9	178
66	Deciphering plantâ€“pathogen communication: fresh perspectives for molecular resistance breeding. Current Opinion in Biotechnology, 2003, 14, 177-193.	6.6	521
67	Plant recognition of microbial patterns. Trends in Plant Science, 2003, 8, 245-247.	8.8	82
68	Arabidopsis SGT1b Is Required for SCFTIR1-Mediated Auxin Response. Plant Cell, 2003, 15, 1310-1319.	6.6	194
69	Regulatory Role of SGT1 in Early R Gene-Mediated Plant Defenses. Science, 2002, 295, 2077-2080.	12.6	385
70	Arabidopsis RAR1 Exerts Rate-Limiting Control of R Geneâ€“Mediated Defenses against Multiple Pathogens. Plant Cell, 2002, 14, 979-992.	6.6	197
71	Runaway cell death, but not basal disease resistance, inlsd1is SA- andNIM1/NPR1-dependent. Plant Journal, 2002, 29, 381-391.	5.7	115
72	Arabidopsis RPP4 is a member of the RPP5 multigene family of TIR-NB-LRR genes and confers downy mildew resistance through multiple signalling components. Plant Journal, 2002, 29, 439-451.	5.7	256

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73	An EDS1 orthologue is required for N â€mediated resistance against tobacco mosaic virus. Plant Journal, 2002, 29, 569-579.	5.7	180
74	Constitutive disease resistance requires EDS1 in the Arabidopsis mutants cpr1 and cpr6 and is partially EDS1 -dependent in cpr5. Plant Journal, 2001, 26, 409-420.	5.7	96
75	The Disease Resistance Signaling Components <i>EDS1</i> and <i>PAD4</i> Are Essential Regulators of the Cell Death Pathway Controlled by <i>LSD1</i> in Arabidopsis. Plant Cell, 2001, 13, 2211-2224.	6.6	249
76	The Disease Resistance Signaling Components EDS1 and PAD4 Are Essential Regulators of the Cell Death Pathway Controlled by LSD1 in Arabidopsis. Plant Cell, 2001, 13, 2211.	6.6	4
77	UnravellingRgene-mediated disease resistance pathways inArabidopsis. Molecular Plant Pathology, 2000, 1, 17-24.	4.2	35
78	Interplay of signaling pathways in plant disease resistance. Trends in Genetics, 2000, 16, 449-455.	6.7	518
79	Arabidopsis MAP Kinase 4 Negatively Regulates Systemic Acquired Resistance. Cell, 2000, 103, 1111-1120.	28.9	946
80	Characterization of eds1, a Mutation in Arabidopsis Suppressing Resistance to Peronospora parasitica Specified by Several Different RPP Genes. Plant Cell, 1996, 8, 2033.	6.6	112
81	Phenotypic characterization and molecular mapping of the Arabidopsis thaliana locus RPP5, determining disease resistance to Peronospora parasitica. Plant Journal, 1993, 4, 821-831.	5.7	83