Joseph J Kieber

List of Publications by Year
in descending order

117 papers	19,192 citations	12303 69 h-index	20307 116 g-index
137 all docs	137 docs citations	137 times ranked	11966 citing authors

#	Article	IF	Citations
1	Integrated omics reveal novel functions and underlying mechanisms of the receptor kinase FERONIA in<i>Arabidopsis thaliana</i>. Plant Cell, 2022, 34, 2594-2614.	3.1	18
2	Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. Plant Journal, 2021, 106, 159-173.	2.8	7
3	Metaâ€analysis of transcriptomic studies of cytokininâ€treated rice roots defines a core set of cytokinin response genes. Plant Journal, 2021, 107, 1387-1402.	2.8	4
4	Heat Stress Targeting Individual Organs Reveals the Central Role of Roots and Crowns in Rice Stress Responses. Frontiers in Plant Science, 2021, 12, 799249.	1.7	8
5	EXO70D isoforms mediate selective autophagic degradation of type-A ARR proteins to regulate cytokinin sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27034-27043.	3.3	39
6	The HK5 and HK6 cytokinin receptors mediate diverse developmental pathways in rice. Development (Cambridge), 2020, 147, .	1.2	24
7	Functional Analysis of the Rice Type-B Response Regulator RR22. Frontiers in Plant Science, 2020, 11, 577676.	1.7	8
8	Mutagenomics: A Rapid, High-Throughput Method to Identify Causative Mutations from a Genetic Screen. Plant Physiology, 2020, 184, 1658-1673.	2.3	6
9	Dynamic Construction, Perception, and Remodeling of Plant Cell Walls. Annual Review of Plant Biology, 2020, 71, 39-69.	8.6	132
10	Response Regulators 9 and 10 Negatively Regulate Salinity Tolerance in Rice. Plant and Cell Physiology, 2019, 60, 2549-2563.	1.5	68
11	Type-B response regulators of rice play key roles in growth, development, and cytokinin signaling. Development (Cambridge), 2019, 146, .	1.2	38
12	Behind the Screen: How a Simple Seedling Response Helped Unravel Ethylene Signaling in Plants. Plant Cell, 2019, 31, 1402-1403.	3.1	3
13	1-Aminocyclopropane 1-Carboxylic Acid and Its Emerging Role as an Ethylene-Independent Growth Regulator. Frontiers in Plant Science, 2019, 10, 1602.	1.7	61
14	The Regulation of Cellulose Biosynthesis in Plants. Plant Cell, 2019, 31, 282-296.	3.1	181
15	Using indCAPS to Detect CRISPR/Cas9 Induced Mutations. Bio-protocol, 2019, 9, e3374.	0.2	1
16	Cytokinin signaling in plant development. Development (Cambridge), 2018, 145, .	1.2	472
17	Cytokinin modulates context-dependent chromatin accessibility through the type-B response regulators. Nature Plants, 2018, 4, 1102-1111.	4.7	44
18	SHOU4 Proteins Regulate Trafficking of Cellulose Synthase Complexes to the Plasma Membrane. Current Biology, 2018, 28, 3174-3182.e6.	1.8	55

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19	Role of <i>BASIC PENTACYSTEINE</i> transcription factors in a subset of cytokinin signaling responses. Plant Journal, 2018, 95, 458-473.	2.8	52
20	Coordination of Chloroplast Development through the Action of the GNC and GLK Transcription Factor Families. Plant Physiology, 2018, 178, 130-147.	2.3	85
21	A role for twoâ€component signaling elements in the Arabidopsis growth recovery response to ethylene. Plant Direct, 2018, 2, e00058.	0.8	11
22	Regulation of the turnover of <scp>ACC</scp> synthases by phytohormones and heterodimerization in Arabidopsis. Plant Journal, 2017, 91, 491-504.	2.8	48
23	Cytokinin induces genome-wide binding of the type-B response regulator ARR10 to regulate growth and development in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5995-E6004.	3.3	154
24	Dynamic patterns of expression for genes regulating cytokinin metabolism and signaling during rice inflorescence development. PLoS ONE, 2017, 12, e0176060.	1.1	38
25	indCAPS: A tool for designing screening primers for CRISPR/Cas9 mutagenesis events. PLoS ONE, 2017, 12, e0188406.	1.1	13
26	The Role of Cytokinin During Infection of <i>Arabidopsis thaliana</i> by the Cyst Nematode <i>Heterodera schachtii</i>. Molecular Plant-Microbe Interactions, 2016, 29, 57-68.	1.4	44
27	Characterization of the cytokinin-responsive transcriptome in rice. BMC Plant Biology, 2016, 16, 260.	1.6	38
28	The cytokinin response factors modulate root and shoot growth and promote leaf senescence in Arabidopsis. Plant Journal, 2016, 85, 134-147.	2.8	101
29	Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. Development (Cambridge), 2016, 143, 3982-3993.	1.2	55
30	<i>Pseudomonas syringae</i> type III effector HopAF1 suppresses plant immunity by targeting methionine recycling to block ethylene induction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3577-86.	3.3	66
31	The Plant CellIntroduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. Plant Cell, 2015, , tpc.15.00862.	3.1	1
32	The Yin-Yang of Hormones: Cytokinin and Auxin Interactions in Plant Development. Plant Cell, 2015, 27, 44-63.	3.1	441
33	Cytokinin is required for escape but not release from auxin mediated apical dominance. Plant Journal, 2015, 82, 874-886.	2.8	136
34	COBRA-LIKE2, a Member of the Glycosylphosphatidylinositol-Anchored COBRA-LIKE Family, Plays a Role in Cellulose Deposition in Arabidopsis Seed Coat Mucilage Secretory Cells Â, Â Â. Plant Physiology, 2015, 167, 711-724.	2.3	82
35	Ethylene Inhibits Cell Proliferation of the Arabidopsis Root Meristem. Plant Physiology, 2015, 169, 338-350.	2.3	130
36	Alterations in Auxin Homeostasis Suppress Defects in Cell Wall Function. PLoS ONE, 2014, 9, e98193.	1.1	31

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37	Cytokinin Signaling in Plants. , 2014, , 269-289.		4
38	Cytokinin and the cell cycle. Current Opinion in Plant Biology, 2014, 21, 7-15.	3.5	215
39	Signaling: Cytokinin Signaling. , 2014, , 1-19.		2
40	Cytokinins. The Arabidopsis Book, 2014, 12, e0168.	0.5	450
41	Cytokinin Induces Cell Division in the Quiescent Center of the Arabidopsis Root Apical Meristem. Current Biology, 2013, 23, 1979-1989.	1.8	151
42	Cytokininâ€dependent specification of the functional megaspore in the Arabidopsis female gametophyte. Plant Journal, 2013, 73, 929-940.	2.8	74
43	14-3-3 Regulates 1-Aminocyclopropane-1-Carboxylate Synthase Protein Turnover in <i>Arabidopsis</i> Â Â. Plant Cell, 2013, 25, 1016-1028.	3.1	115
44	Functional Characterization of Type-B Response Regulators in the Arabidopsis Cytokinin Response Â Â. Plant Physiology, 2013, 162, 212-224.	2.3	82
45	Identification of Cytokinin-Responsive Genes Using Microarray Meta-Analysis and RNA-Seq in Arabidopsis Â Â Â. Plant Physiology, 2013, 162, 272-294.	2.3	230
46	The role of cytokinin in ovule development in<i><i>Arabidopsis</i></i>. Plant Signaling and Behavior, 2013, 8, e23393.	1.2	17
47	The rice F-box protein KISS ME DEADLY2 functions as a negative regulator of cytokinin signalling. Plant Signaling and Behavior, 2013, 8, e26434.	1.2	27
48	ACC synthase and its cognate E3 ligase are inversely regulated by light. Plant Signaling and Behavior, 2013, 8, e26478.	1.2	14
49	SCF ^{KMD} controls cytokinin signaling by regulating the degradation of type-B response regulators. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10028-10033.	3.3	106
50	CTR1 phosphorylates the central regulator EIN2 to control ethylene hormone signaling from the ER membrane to the nucleus in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19486-19491.	3.3	539
51	The FEI2-SOS5 pathway and CELLULOSE SYNTHASE 5 are required for cellulose biosynthesis in the Arabidopsis seed coat and affect pectin mucilage structure. Plant Signaling and Behavior, 2012, 7, 285-288.	1.2	31
52	Functional Characterization of the GATA Transcription Factors GNC and CGA1 Reveals Their Key Role in Chloroplast Development, Growth, and Division in Arabidopsis Â Â. Plant Physiology, 2012, 160, 332-348.	2.3	172
53	Characterization of Genes Involved in Cytokinin Signaling and Metabolism from Rice Â Â. Plant Physiology, 2012, 158, 1666-1684.	2.3	197
54	Two-Component Elements Mediate Interactions between Cytokinin and Salicylic Acid in Plant Immunity. PLoS Genetics, 2012, 8, e1002448.	1.5	222

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55	Typeâ€A response regulators are required for proper root apical meristem function through postâ€transcriptional regulation of PIN auxin efflux carriers. Plant Journal, 2011, 68, 1-10.	2.8	98
56	Cellulose synthesis via the FEI2 RLK/SOS5 pathway and CELLULOSE SYNTHASE 5 is required for the structure of seed coat mucilage in Arabidopsis. Plant Journal, 2011, 68, 941-953.	2.8	129
57	The influence of cytokininâ€“auxin cross-regulation on cell-fate determination in Arabidopsis thaliana root development. Journal of Theoretical Biology, 2011, 283, 152-167.	0.8	40
58	CLE Peptides can Negatively Regulate Protoxylem Vessel Formation via Cytokinin Signaling. Plant and Cell Physiology, 2011, 52, 37-48.	1.5	118
59	Protein Phosphatase 2A Controls Ethylene Biosynthesis by Differentially Regulating the Turnover of ACC Synthase Isoforms. PLoS Genetics, 2011, 7, e1001370.	1.5	134
60	Cytokinin signaling and transcriptional networks. Current Opinion in Plant Biology, 2010, 13, 533-539.	3.5	138
61	Role of A-type ARABIDOPSIS RESPONSE REGULATORS in meristem maintenance and regeneration. European Journal of Cell Biology, 2010, 89, 279-284.	1.6	103
62	The subcellular distribution of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin signaling. Plant Journal, 2010, 62, 473-482.	2.8	88
63	Type-B response regulators ARR1 and ARR12 regulate expression of AtHKT1;1 and accumulation of sodium in Arabidopsis shoots. Plant Journal, 2010, 64, 753-763.	2.8	145
64	The Role of Receptor-Like Kinases in Regulating Cell Wall Function. Plant Physiology, 2010, 153, 479-484.	2.3	75
65	Localization of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin. Plant Signaling and Behavior, 2010, 5, 896-898.	1.2	20
66	The Perception of Cytokinin: A Story 50 Years in the Making: Figure 1.. Plant Physiology, 2010, 154, 487-492.	2.3	64
67	Environmental perception avenues: the interaction of cytokinin and environmental response pathways. Plant, Cell and Environment, 2009, 32, 1147-1160.	2.8	305
68	The BTB ubiquitin ligases ETO1, EOL1 and EOL2 act collectively to regulate ethylene biosynthesis in Arabidopsis by controlling typeâ€2 ACC synthase levels. Plant Journal, 2009, 57, 332-345.	2.8	166
69	Regulation of ACS protein stability by cytokinin and brassinosteroid. Plant Journal, 2009, 57, 606-614.	2.8	186
70	Cytosolic activity of SPINDLY implies the existence of a DELLAâ€independent gibberellinâ€response pathway. Plant Journal, 2009, 58, 979-988.	2.8	39
71	Cytokinin signaling: two-components and more. Trends in Plant Science, 2008, 13, 85-92.	4.3	361
72	Two-Component Signaling Elements and Histidyl-Aspartyl Phosphorelays^{â€}. The Arabidopsis Book, 2008, 6, e0112.	0.5	137

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73	Two Leucine-Rich Repeat Receptor Kinases Mediate Signaling, Linking Cell Wall Biosynthesis and ACC Synthase in <i>Arabidopsis</i>. Plant Cell, 2008, 20, 3065-3079.	3.1	290
74	Cytokinin Regulates Type-A <i>Arabidopsis</i> Response Regulator Activity and Protein Stability via Two-Component Phosphorelay. Plant Cell, 2008, 19, 3901-3914.	3.1	240
75	Type B Response Regulators of <i>Arabidopsis</i> Play Key Roles in Cytokinin Signaling and Plant Development. Plant Cell, 2008, 20, 2102-2116.	3.1	386
76	Signaling via Histidine-Containing Phosphotransfer Proteins inArabidopsis. Plant Signaling and Behavior, 2007, 2, 287-289.	1.2	17
77	Nomenclature for Two-Component Signaling Elements of Rice. Plant Physiology, 2007, 143, 555-557.	2.3	72
78	Regulation of Ethylene Biosynthesis. Journal of Plant Growth Regulation, 2007, 26, 92-105.	2.8	233
79	The Arabidopsis Histidine Phosphotransfer Proteins Are Redundant Positive Regulators of Cytokinin Signaling. Plant Cell, 2006, 18, 3073-3087.	3.1	392
80	A subset of Arabidopsis AP2 transcription factors mediates cytokinin responses in concert with a two-component pathway. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11081-11085.	3.3	353
81	RCN1-Regulated Phosphatase Activity and EIN2 Modulate Hypocotyl Gravitropism by a Mechanism That Does Not Require Ethylene Signaling. Plant Physiology, 2006, 141, 1617-1629.	2.3	51
82	The interaction of cytokinin with other signals. Physiologia Plantarum, 2005, 123, 184-194.	2.6	58
83	WUSCHEL controls meristem function by direct regulation of cytokinin-inducible response regulators. Nature, 2005, 438, 1172-1175.	13.7	747
84	Cytokinin signaling. Current Opinion in Plant Biology, 2005, 8, 518-525.	3.5	245
85	Multiple Type-B Response Regulators Mediate Cytokinin Signal Transduction in Arabidopsis Â. Plant Cell, 2005, 17, 3007-3018.	3.1	397
86	Arabidopsis Response Regulators ARR3 and ARR4 Play Cytokinin-Independent Roles in the Control of Circadian Period. Plant Cell, 2005, 18, 55-69.	3.1	133
87	Eto Brute? Role of ACS turnover in regulating ethylene biosynthesis. Trends in Plant Science, 2005, 10, 291-296.	4.3	212
88	Type-A Arabidopsis Response Regulators Are Partially Redundant Negative Regulators of Cytokinin Signaling[W]. Plant Cell, 2004, 16, 658-671.	3.1	631
89	Type-B Response Regulators Display Overlapping Expression Patterns in Arabidopsis. Plant Physiology, 2004, 135, 927-937.	2.3	156
90	Cytokinins play opposite roles in lateral root formation, and nematode and Rhizobial symbioses. Plant Journal, 2004, 38, 203-214.	2.8	300

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91	Identification of a new motif for CDPK phosphorylation in vitro that suggests ACC synthase may be a CDPK substrate. Archives of Biochemistry and Biophysics, 2004, 428, 81-91.	1.4	129
92	Biochemical and functional analysis of CTR1, a protein kinase that negatively regulates ethylene signaling inArabidopsis. Plant Journal, 2003, 33, 221-233.	2.8	360
93	The eto1, eto2, and eto3 Mutations and Cytokinin Treatment Increase Ethylene Biosynthesis in Arabidopsis by Increasing the Stability of ACS Protein. Plant Cell, 2003, 15, 545-559.	3.1	350
94	Expression Profiling of Cytokinin Action in Arabidopsis. Plant Physiology, 2003, 132, 1998-2011.	2.3	276
95	Localization of the Raf-like Kinase CTR1 to the Endoplasmic Reticulum of Arabidopsis through Participation in Ethylene Receptor Signaling Complexes. Journal of Biological Chemistry, 2003, 278, 34725-34732.	1.6	323
96	Cytokinins. New Insights into a Classic Phytohormone. Plant Physiology, 2002, 128, 354-362.	2.3	310
97	Cytokinin Signaling in Arabidopsis. Plant Cell, 2002, 14, S47-S59.	3.1	182
98	Cytokinins. The Arabidopsis Book, 2002, 1, e0063.	0.5	31
99	A rapid cytokinin response assay in Arabidopsis indicates a role for phospholipase D in cytokinin signalling. FEBS Letters, 2002, 515, 39-43.	1.3	96
100	Tribute to Folke Skoog: Recent Advances in our Understanding of Cytokinin Biology. Journal of Plant Growth Regulation, 2002, 21, 1-2.	2.8	22
101	ATMPK4, an Arabidopsis Homolog of Mitogen-Activated Protein Kinase, Is Activated in Vitro by AtMEK1 through Threonine Phosphorylation. Plant Physiology, 2000, 122, 1301-1310.	2.3	147
102	A Strong Loss-of-Function Mutation in RAN1 Results in Constitutive Activation of the Ethylene Response Pathway as Well as a Rosette-Lethal Phenotype. Plant Cell, 2000, 12, 443-455.	3.1	215
103	Characterization of the Response of the Arabidopsis Response Regulator Gene Family to Cytokinin. Plant Physiology, 2000, 124, 1706-1717.	2.3	541
104	Factors regulating ethylene biosynthesis in etiolatedArabidopsis thalianaseedlings. Physiologia Plantarum, 1999, 105, 478-484.	2.6	73
105	Phosphorelay signal transduction: the emerging family of plant response regulators. Trends in Biochemical Sciences, 1999, 24, 452-456.	3.7	96
106	Molecular mechanisms of cytokinin action. Current Opinion in Plant Biology, 1999, 2, 359-364.	3.5	93
107	Two Arabidopsis Mutants That Overproduce Ethylene Are Affected in the Posttranscriptional Regulation of 1-Aminocyclopropane-1-Carboxylic Acid Synthase1. Plant Physiology, 1999, 119, 521-530.	2.3	210
108	RESPONSIVE-TO-ANTAGONIST1, a Menkes/Wilson Diseaseâ€"Related Copper Transporter, Is Required for Ethylene Signaling in Arabidopsis. Cell, 1999, 97, 383-393.	13.5	385

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109	Two Genes with Similarity to Bacterial Response Regulators Are Rapidly and Specifically Induced by Cytokinin in Arabidopsis. Plant Cell, 1998, 10, 1009-1019.	3.1	355
110	Two Genes with Similarity to Bacterial Response Regulators Are Rapidly and Specifically Induced by Cytokinin in Arabidopsis. Plant Cell, 1998, 10, 1009.	3.1	26
111	Isolation and Characterization of Arabidopsis Mutants Defective in the Induction of Ethylene Biosynthesis by Cytokinin. Genetics, 1998, 149, 417-427.	1.2	114
112	The ethylene signal transduction pathway inArabidopsis. Journal of Experimental Botany, 1997, 48, 211-218.	2.4	40
113	THE ETHYLENE RESPONSE PATHWAY IN ARABIDOPSIS. Annual Review of Plant Biology, 1997, 48, 277-296.	14.2	176
114	Ethylene gas: it's not just for ripening any more!. Trends in Genetics, 1993, 9, 356-362.	2.9	80
115	CTR1, a negative regulator of the ethylene response pathway in arabidopsis, encodes a member of the Raf family of protein kinases. Cell, 1993, 72, 427-441.	13.5	1,841
116	Cloning and Characterization of an <i>Arabidopsis thaliana</i> Topoisomerase I Gene. Plant Physiology, 1992, 99, 1493-1501.	2.3	40
117	Cloning and characterization of an inorganic pyrophosphatase gene from Arabidopsis thaliana. Plant Molecular Biology, 1991, 16, 345-348.	2.0	29