

Joseph J Kieber

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117 papers	15,156 citations	65 h-index	123 g-index
137 ext. papers	17,672 ext. citations	8.5 avg, IF	6.75 L-index

#	Paper	IF	Citations
117	CTR1, a negative regulator of the ethylene response pathway in Arabidopsis, encodes a member of the raf family of protein kinases. <i>Cell</i> , 1993 , 72, 427-41	56.2	1640
116	WUSCHEL controls meristem function by direct regulation of cytokinin-inducible response regulators. <i>Nature</i> , 2005 , 438, 1172-5	50.4	620
115	Type-A Arabidopsis response regulators are partially redundant negative regulators of cytokinin signaling. <i>Plant Cell</i> , 2004 , 16, 658-71	11.6	503
114	Characterization of the response of the Arabidopsis response regulator gene family to cytokinin. <i>Plant Physiology</i> , 2000 , 124, 1706-17	6.6	465
113	CTR1 phosphorylates the central regulator EIN2 to control ethylene hormone signaling from the ER membrane to the nucleus in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19486-91	11.5	380
112	RESPONSIVE-TO-ANTAGONIST1, a Menkes/Wilson disease-related copper transporter, is required for ethylene signaling in Arabidopsis. <i>Cell</i> , 1999 , 97, 383-93	56.2	351
111	Two genes with similarity to bacterial response regulators are rapidly and specifically induced by cytokinin in Arabidopsis. <i>Plant Cell</i> , 1998 , 10, 1009-19	11.6	331
110	Multiple type-B response regulators mediate cytokinin signal transduction in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 3007-18	11.6	315
109	The Arabidopsis histidine phosphotransfer proteins are redundant positive regulators of cytokinin signaling. <i>Plant Cell</i> , 2006 , 18, 3073-87	11.6	313
108	Cytokinins. <i>The Arabidopsis Book</i> , 2014 , 12, e0168	3	309
107	The eto1, eto2, and eto3 mutations and cytokinin treatment increase ethylene biosynthesis in Arabidopsis by increasing the stability of ACS protein. <i>Plant Cell</i> , 2003 , 15, 545-59	11.6	309
106	Biochemical and functional analysis of CTR1, a protein kinase that negatively regulates ethylene signaling in Arabidopsis. <i>Plant Journal</i> , 2003 , 33, 221-33	6.9	307
105	The yin-yang of hormones: cytokinin and auxin interactions in plant development. <i>Plant Cell</i> , 2015 , 27, 44-63	11.6	306
104	Cytokinin signaling: two-components and more. <i>Trends in Plant Science</i> , 2008 , 13, 85-92	13.1	298
103	Type B response regulators of Arabidopsis play key roles in cytokinin signaling and plant development. <i>Plant Cell</i> , 2008 , 20, 2102-16	11.6	285
102	A subset of Arabidopsis AP2 transcription factors mediates cytokinin responses in concert with a two-component pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11081-5	11.5	283
101	Localization of the Raf-like kinase CTR1 to the endoplasmic reticulum of Arabidopsis through participation in ethylene receptor signaling complexes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 34725-32	5.4	272

100	Cytokinins. New insights into a classic phytohormone. <i>Plant Physiology</i> , 2002 , 128, 354-62	6.6	270
99	Cytokinins play opposite roles in lateral root formation, and nematode and Rhizobial symbioses. <i>Plant Journal</i> , 2004 , 38, 203-14	6.9	269
98	Environmental perception avenues: the interaction of cytokinin and environmental response pathways. <i>Plant, Cell and Environment</i> , 2009 , 32, 1147-60	8.4	264
97	Cytokinin signaling in plant development. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	246
96	Expression profiling of cytokinin action in Arabidopsis. <i>Plant Physiology</i> , 2003 , 132, 1998-2011	6.6	233
95	Two leucine-rich repeat receptor kinases mediate signaling, linking cell wall biosynthesis and ACC synthase in Arabidopsis. <i>Plant Cell</i> , 2008 , 20, 3065-79	11.6	226
94	Cytokinin signaling. <i>Current Opinion in Plant Biology</i> , 2005 , 8, 518-25	9.9	210
93	A strong loss-of-function mutation in RAN1 results in constitutive activation of the ethylene response pathway as well as a rosette-lethal phenotype. <i>Plant Cell</i> , 2000 , 12, 443-55	11.6	195
92	Regulation of Ethylene Biosynthesis. <i>Journal of Plant Growth Regulation</i> , 2007 , 26, 92-105	4.7	191
91	Two Arabidopsis mutants that overproduce ethylene are affected in the posttranscriptional regulation of 1-aminocyclopropane-1-carboxylic acid synthase. <i>Plant Physiology</i> , 1999 , 119, 521-30	6.6	189
90	Eto Brute? Role of ACS turnover in regulating ethylene biosynthesis. <i>Trends in Plant Science</i> , 2005 , 10, 291-6	13.1	180
89	Cytokinin regulates type-A Arabidopsis Response Regulator activity and protein stability via two-component phosphorelay. <i>Plant Cell</i> , 2007 , 19, 3901-14	11.6	177
88	Identification of cytokinin-responsive genes using microarray meta-analysis and RNA-Seq in Arabidopsis. <i>Plant Physiology</i> , 2013 , 162, 272-94	6.6	172
87	Two-component elements mediate interactions between cytokinin and salicylic acid in plant immunity. <i>PLoS Genetics</i> , 2012 , 8, e1002448	6	161
86	Regulation of ACS protein stability by cytokinin and brassinosteroid. <i>Plant Journal</i> , 2009 , 57, 606-14	6.9	159
85	The ethylene response pathway in Arabidopsis. <i>Annual Review of Plant Biology</i> , 1997 , 48, 277-96		159
84	Cytokinin signaling in Arabidopsis. <i>Plant Cell</i> , 2002 , 14 Suppl, S47-59	11.6	149
83	Cytokinin and the cell cycle. <i>Current Opinion in Plant Biology</i> , 2014 , 21, 7-15	9.9	143

82	The BTB ubiquitin ligases ETO1, EOL1 and EOL2 act collectively to regulate ethylene biosynthesis in Arabidopsis by controlling type-2 ACC synthase levels. <i>Plant Journal</i> , 2009 , 57, 332-45	6.9	138
81	Type-B response regulators display overlapping expression patterns in Arabidopsis. <i>Plant Physiology</i> , 2004 , 135, 927-37	6.6	133
80	ATMPK4, an Arabidopsis homolog of mitogen-activated protein kinase, is activated in vitro by AtMEK1 through threonine phosphorylation. <i>Plant Physiology</i> , 2000 , 122, 1301-10	6.6	131
79	Characterization of genes involved in cytokinin signaling and metabolism from rice. <i>Plant Physiology</i> , 2012 , 158, 1666-84	6.6	129
78	Identification of a new motif for CDPK phosphorylation in vitro that suggests ACC synthase may be a CDPK substrate. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 428, 81-91	4.1	119
77	Functional characterization of the GATA transcription factors GNC and CGA1 reveals their key role in chloroplast development, growth, and division in Arabidopsis. <i>Plant Physiology</i> , 2012 , 160, 332-48	6.6	113
76	Arabidopsis response regulators ARR3 and ARR4 play cytokinin-independent roles in the control of circadian period. <i>Plant Cell</i> , 2006 , 18, 55-69	11.6	113
75	Cytokinin induces cell division in the quiescent center of the Arabidopsis root apical meristem. <i>Current Biology</i> , 2013 , 23, 1979-89	6.3	111
74	Cellulose synthesis via the FEI2 RLK/SOS5 pathway and cellulose synthase 5 is required for the structure of seed coat mucilage in Arabidopsis. <i>Plant Journal</i> , 2011 , 68, 941-53	6.9	109
73	Type-B response regulators ARR1 and ARR12 regulate expression of AtHKT1;1 and accumulation of sodium in Arabidopsis shoots. <i>Plant Journal</i> , 2010 , 64, 753-63	6.9	106
72	Cytokinin signaling and transcriptional networks. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 533-9	9.9	106
71	Isolation and characterization of Arabidopsis mutants defective in the induction of ethylene biosynthesis by cytokinin. <i>Genetics</i> , 1998 , 149, 417-27	4	105
70	Protein phosphatase 2A controls ethylene biosynthesis by differentially regulating the turnover of ACC synthase isoforms. <i>PLoS Genetics</i> , 2011 , 7, e1001370	6	102
69	Two-component signaling elements and histidyl-aspartyl phosphorelays. <i>The Arabidopsis Book</i> , 2008 , 6, e0112	3	102
68	Cytokinin induces genome-wide binding of the type-B response regulator ARR10 to regulate growth and development in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5995-E6004	11.5	99
67	CLE peptides can negatively regulate protoxylem vessel formation via cytokinin signaling. <i>Plant and Cell Physiology</i> , 2011 , 52, 37-48	4.9	99
66	Cytokinin is required for escape but not release from auxin mediated apical dominance. <i>Plant Journal</i> , 2015 , 82, 874-86	6.9	95
65	Ethylene Inhibits Cell Proliferation of the Arabidopsis Root Meristem. <i>Plant Physiology</i> , 2015 , 169, 338-50.	6.6	92

64	Phosphorelay signal transduction: the emerging family of plant response regulators. <i>Trends in Biochemical Sciences</i> , 1999 , 24, 452-6	10.3	89
63	Type-A response regulators are required for proper root apical meristem function through post-transcriptional regulation of PIN auxin efflux carriers. <i>Plant Journal</i> , 2011 , 68, 1-10	6.9	87
62	Molecular mechanisms of cytokinin action. <i>Current Opinion in Plant Biology</i> , 1999 , 2, 359-64	9.9	86
61	A rapid cytokinin response assay in Arabidopsis indicates a role for phospholipase D in cytokinin signalling. <i>FEBS Letters</i> , 2002 , 515, 39-43	3.8	84
60	14-3-3 regulates 1-aminocyclopropane-1-carboxylate synthase protein turnover in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 1016-28	11.6	81
59	SCF(KMD) controls cytokinin signaling by regulating the degradation of type-B response regulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10028-33	11.5	80
58	The Plant Cell Introduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. <i>Plant Cell</i> , 2015 , tpc.15.00862	11.6	78
57	Role of A-type ARABIDOPSIS RESPONSE REGULATORS in meristem maintenance and regeneration. <i>European Journal of Cell Biology</i> , 2010 , 89, 279-84	6.1	76
56	The Regulation of Cellulose Biosynthesis in Plants. <i>Plant Cell</i> , 2019 , 31, 282-296	11.6	76
55	The subcellular distribution of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin signaling. <i>Plant Journal</i> , 2010 , 62, 473-82	6.9	74
54	The cytokinin response factors modulate root and shoot growth and promote leaf senescence in Arabidopsis. <i>Plant Journal</i> , 2016 , 85, 134-47	6.9	72
53	Ethylene gas: it's not just for ripening any more!. <i>Trends in Genetics</i> , 1993 , 9, 356-62	8.5	71
52	The role of receptor-like kinases in regulating cell wall function. <i>Plant Physiology</i> , 2010 , 153, 479-84	6.6	65
51	Factors regulating ethylene biosynthesis in etiolated Arabidopsis thaliana seedlings. <i>Physiologia Plantarum</i> , 1999 , 105, 478-484	4.6	64
50	Functional characterization of type-B response regulators in the Arabidopsis cytokinin response. <i>Plant Physiology</i> , 2013 , 162, 212-24	6.6	63
49	Nomenclature for two-component signaling elements of rice. <i>Plant Physiology</i> , 2007 , 143, 555-7	6.6	56
48	COBRA-LIKE2, a member of the glycosylphosphatidylinositol-anchored COBRA-LIKE family, plays a role in cellulose deposition in arabidopsis seed coat mucilage secretory cells. <i>Plant Physiology</i> , 2015 , 167, 711-24	6.6	55
47	Dynamic Construction, Perception, and Remodeling of Plant Cell Walls. <i>Annual Review of Plant Biology</i> , 2020 , 71, 39-69	30.7	53

46	Cytokinin-dependent specification of the functional megaspore in the Arabidopsis female gametophyte. <i>Plant Journal</i> , 2013 , 73, 929-40	6.9	52
45	The perception of cytokinin: a story 50 years in the making. <i>Plant Physiology</i> , 2010 , 154, 487-92	6.6	52
44	The interaction of cytokinin with other signals. <i>Physiologia Plantarum</i> , 2005 , 123, 184-194	4.6	50
43	RCN1-regulated phosphatase activity and EIN2 modulate hypocotyl gravitropism by a mechanism that does not require ethylene signaling. <i>Plant Physiology</i> , 2006 , 141, 1617-29	6.6	48
42	Cloning and Characterization of an Arabidopsis thaliana Topoisomerase I Gene. <i>Plant Physiology</i> , 1992 , 99, 1493-501	6.6	38
41	Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. <i>Development (Cambridge)</i> , 2016 , 143, 3982-3993	6.6	38
40	The Formation of ACC and Competition Between Polyamines and Ethylene for SAM 2012 , 53-81		37
39	The influence of cytokinin-auxin cross-regulation on cell-fate determination in Arabidopsis thaliana root development. <i>Journal of Theoretical Biology</i> , 2011 , 283, 152-67	2.3	36
38	The ethylene signal transduction pathway in Arabidopsis. <i>Journal of Experimental Botany</i> , 1997 , 48, 211-8		35
37	Response Regulators 9 and 10 Negatively Regulate Salinity Tolerance in Rice. <i>Plant and Cell Physiology</i> , 2019 , 60, 2549-2563	4.9	32
36	Regulation of the turnover of ACC synthases by phytohormones and heterodimerization in Arabidopsis. <i>Plant Journal</i> , 2017 , 91, 491-504	6.9	31
35	Cytosolic activity of SPINDLY implies the existence of a DELLA-independent gibberellin-response pathway. <i>Plant Journal</i> , 2009 , 58, 979-88	6.9	31
34	Dynamic patterns of expression for genes regulating cytokinin metabolism and signaling during rice inflorescence development. <i>PLoS ONE</i> , 2017 , 12, e0176060	3.7	30
33	Coordination of Chloroplast Development through the Action of the GNC and GLK Transcription Factor Families. <i>Plant Physiology</i> , 2018 , 178, 130-147	6.6	30
32	Pseudomonas syringae type III effector HopAF1 suppresses plant immunity by targeting methionine recycling to block ethylene induction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3577-86	11.5	29
31	The FEI2-SOS5 pathway and CELLULOSE SYNTHASE 5 are required for cellulose biosynthesis in the Arabidopsis seed coat and affect pectin mucilage structure. <i>Plant Signaling and Behavior</i> , 2012 , 7, 285-8	2.5	27
30	Cloning and characterization of an inorganic pyrophosphatase gene from Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 1991 , 16, 345-8	4.6	27
29	Characterization of the cytokinin-responsive transcriptome in rice. <i>BMC Plant Biology</i> , 2016 , 16, 260	5.3	27

28	The Role of Cytokinin During Infection of <i>Arabidopsis thaliana</i> by the Cyst Nematode <i>Heterodera schachtii</i> . <i>Molecular Plant-Microbe Interactions</i> , 2016 , 29, 57-68	3.6	26
27	1-Aminocyclopropane 1-Carboxylic Acid and Its Emerging Role as an Ethylene-Independent Growth Regulator. <i>Frontiers in Plant Science</i> , 2019 , 10, 1602	6.2	25
26	SHOU4 Proteins Regulate Trafficking of Cellulose Synthase Complexes to the Plasma Membrane. <i>Current Biology</i> , 2018 , 28, 3174-3182.e6	6.3	25
25	Cytokinin modulates context-dependent chromatin accessibility through the type-B response regulators. <i>Nature Plants</i> , 2018 , 4, 1102-1111	11.5	22
24	Cytokinins. <i>The Arabidopsis Book</i> , 2002 , 1, e0063	3	21
23	Type-B response regulators of rice play key roles in growth, development and cytokinin signaling. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	18
22	Alterations in auxin homeostasis suppress defects in cell wall function. <i>PLoS ONE</i> , 2014 , 9, e98193	3.7	18
21	Role of BASIC PENTACYSTEINE transcription factors in a subset of cytokinin signaling responses. <i>Plant Journal</i> , 2018 , 95, 458-473	6.9	18
20	Localization of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin. <i>Plant Signaling and Behavior</i> , 2010 , 5, 896-8	2.5	17
19	Tribute to Folke Skoog: Recent Advances in our Understanding of Cytokinin Biology. <i>Journal of Plant Growth Regulation</i> , 2002 , 21, 1-2	4.7	14
18	Signaling via Histidine-Containing Phosphotransfer Proteins in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2007 , 2, 287-9	2.5	13
17	The rice F-box protein KISS ME DEADLY2 functions as a negative regulator of cytokinin signalling. <i>Plant Signaling and Behavior</i> , 2013 , 8, e26434	2.5	12
16	The role of cytokinin in ovule development in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2013 , 8, e23393	2.5	11
15	ACC synthase and its cognate E3 ligase are inversely regulated by light. <i>Plant Signaling and Behavior</i> , 2013 , 8, e26478	2.5	11
14	indCAPS: A tool for designing screening primers for CRISPR/Cas9 mutagenesis events. <i>PLoS ONE</i> , 2017 , 12, e0188406	3.7	10
13	The HK5 and HK6 cytokinin receptors mediate diverse developmental pathways in rice. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	10
12	A role for two-component signaling elements in the Arabidopsis growth recovery response to ethylene. <i>Plant Direct</i> , 2018 , 2, e00058	3.3	9
11	EXO70D isoforms mediate selective autophagic degradation of type-A ARR proteins to regulate cytokinin sensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27034-27043	11.5	9

10	Mutagenomics: A Rapid, High-Throughput Method to Identify Causative Mutations from a Genetic Screen. <i>Plant Physiology</i> , 2020 , 184, 1658-1673	6.6	4
9	Heat Stress Targeting Individual Organs Reveals the Central Role of Roots and Crowns in Rice Stress Responses.. <i>Frontiers in Plant Science</i> , 2021 , 12, 799249	6.2	3
8	The Formation of ACC and Competition between Polyamines and Ethylene for SAM 2018 , 53-81		3
7	Cytokinin Signaling in Plants 2014 , 269-289		2
6	Signaling: Cytokinin Signaling 2014 , 1-19		2
5	Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. <i>Plant Journal</i> , 2021 , 106, 159-173	6.9	2
4	Two Genes with Similarity to Bacterial Response Regulators Are Rapidly and Specifically Induced by Cytokinin in Arabidopsis. <i>Plant Cell</i> , 1998 , 10, 1009	11.6	1
3	Functional Analysis of the Rice Type-B Response Regulator RR22. <i>Frontiers in Plant Science</i> , 2020 , 11, 577676	6.2	1
2	Meta-analysis of transcriptomic studies of cytokinin-treated rice roots defines a core set of cytokinin response genes. <i>Plant Journal</i> , 2021 , 107, 1387-1402	6.9	1
1	Using indCAPS to Detect CRISPR/Cas9 Induced Mutations. <i>Bio-protocol</i> , 2019 , 9, e3374	0.9	