

# Brad M Binder

## List of Publications by Citations

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72  
papers

4,036  
citations

32  
h-index

63  
g-index

74  
ext. papers

4,796  
ext. citations

6.9  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
72	A copper cofactor for the ethylene receptor ETR1 from Arabidopsis. <i>Science</i> , <b>1999</b> , 283, 996-8	33.3	519
71	Auxin and ethylene: collaborators or competitors?. <i>Trends in Plant Science</i> , <b>2012</b> , 17, 181-95	13.1	292
70	The Arabidopsis EIN3 binding F-Box proteins EBF1 and EBF2 have distinct but overlapping roles in ethylene signaling. <i>Plant Cell</i> , <b>2007</b> , 19, 509-23	11.6	202
69	Gene-specific translation regulation mediated by the hormone-signaling molecule EIN2. <i>Cell</i> , <b>2015</b> , 163, 684-97	56.2	184
68	Ethylene-binding activity, gene expression levels, and receptor system output for ethylene receptor family members from Arabidopsis and tomato. <i>Plant Journal</i> , <b>2005</b> , 41, 651-9	6.9	167
67	Arabidopsis seedling growth response and recovery to ethylene. A kinetic analysis. <i>Plant Physiology</i> , <b>2004</b> , 136, 2913-20	6.6	150
66	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> , <b>2009</b> , 57, 332-45	6.9	138
65	Identification of important regions for ethylene binding and signaling in the transmembrane domain of the ETR1 ethylene receptor of Arabidopsis. <i>Plant Cell</i> , <b>2006</b> , 18, 3429-42	11.6	130
64	Short-term growth responses to ethylene in Arabidopsis seedlings are EIN3/EIL1 independent. <i>Plant Physiology</i> , <b>2004</b> , 136, 2921-7	6.6	123
63	The exoribonuclease XRN4 is a component of the ethylene response pathway in Arabidopsis. <i>Plant Cell</i> , <b>2006</b> , 18, 3047-57	11.6	117
62	Calcium and lipid regulation of an Arabidopsis protein kinase expressed in Escherichia coli. <i>Biochemistry</i> , <b>1993</b> , 32, 3282-90	3.2	116
61	Heteromeric interactions among ethylene receptors mediate signaling in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 23801-10	5.4	112
60	Protein-protein interaction and gene co-expression maps of ARFs and Aux/IAAs in Arabidopsis. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 744	6.2	106
59	Dim background light and Cerenkov radiation from 32P block reversal of rhodopsin phosphorylation in intact frog retinal rods. <i>Visual Neuroscience</i> , <b>1991</b> , 7, 499-503	1.7	105
58	Mechanisms of signal transduction by ethylene: overlapping and non-overlapping signalling roles in a receptor family. <i>AoB PLANTS</i> , <b>2013</b> , 5, plt010	2.9	99
57	Ethylene signaling in plants. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7710-7725	5.4	90
56	The copper transporter RAN1 is essential for biogenesis of ethylene receptors in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 37263-70	5.4	90

55	The Ethylene Receptors ETHYLENE RESPONSE1 and ETHYLENE RESPONSE2 Have Contrasting Roles in Seed Germination of Arabidopsis during Salt Stress. <i>Plant Physiology</i> , <b>2014</b> , 165, 1353-1366	6.6	87
54	The ethylene-receptor family from Arabidopsis: structure and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>1998</b> , 353, 1405-12	5.8	83
53	ethylene receptor 1 (etr1) Is Sufficient and Has the Predominant Role in Mediating Inhibition of Ethylene Responses by Silver in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 26094-1034	5.4	79
52	Ethylene receptors function as components of high-molecular-mass protein complexes in Arabidopsis. <i>PLoS ONE</i> , <b>2010</b> , 5, e8640	3.7	63
51	Proteomic responses in Arabidopsis thaliana seedlings treated with ethylene. <i>Molecular BioSystems</i> , <b>2011</b> , 7, 2637-50		58
50	Ethylene stimulates mutations that are dependent on the ETR1 receptor. <i>Plant Physiology</i> , <b>2006</b> , 142, 1690-700	6.6	56
49	The ethylene receptors: Complex perception for a simple gas. <i>Plant Science</i> , <b>2008</b> , 175, 8-17	5.3	55
48	History of Research on the Plant Hormone Ethylene. <i>Journal of Plant Growth Regulation</i> , <b>2015</b> , 34, 809-827	4.7	54
47	Ethylene receptor ETHYLENE RECEPTOR1 domain requirements for ethylene responses in Arabidopsis seedlings. <i>Plant Physiology</i> , <b>2011</b> , 156, 417-29	6.6	49
46	Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 900	6.2	41
45	New clothes for the jasmonic acid receptor CO11: delayed abscission, meristem arrest and apical dominance. <i>PLoS ONE</i> , <b>2013</b> , 8, e60505	3.7	41
44	How plants sense ethylene gas--the ethylene receptors. <i>Journal of Inorganic Biochemistry</i> , <b>2014</b> , 133, 58-62	4.2	40
43	Ethylene receptor antagonists: strained alkenes are necessary but not sufficient. <i>Chemistry and Biology</i> , <b>2008</b> , 15, 313-21		37
42	The effects of Group 11 transition metals, including gold, on ethylene binding to the ETR1 receptor and growth of Arabidopsis thaliana. <i>FEBS Letters</i> , <b>2007</b> , 581, 5105-9	3.8	37
41	Ethylene Regulates the Physiology of the Cyanobacterium Synechocystis sp. PCC 6803 via an Ethylene Receptor. <i>Plant Physiology</i> , <b>2016</b> , 171, 2798-809	6.6	36
40	The ARGOS gene family functions in a negative feedback loop to desensitize plants to ethylene. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 157	5.3	31
39	A comparative study of ethylene growth response kinetics in eudicots and monocots reveals a role for gibberellin in growth inhibition and recovery. <i>Plant Physiology</i> , <b>2012</b> , 160, 1567-80	6.6	31
38	Ethylene Receptors Signal via a Noncanonical Pathway to Regulate Abscisic Acid Responses. <i>Plant Physiology</i> , <b>2018</b> , 176, 910-929	6.6	30

37	Phosphorylation of non-bleached rhodopsin in intact retinas and living frogs. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 19826-30	5.4	28
36	Identification of Transcriptional and Receptor Networks That Control Root Responses to Ethylene. <i>Plant Physiology</i> , <b>2018</b> , 176, 2095-2118	6.6	25
35	Reducing jasmonic acid levels causes ein2 mutants to become ethylene responsive. <i>FEBS Letters</i> , <b>2013</b> , 587, 226-30	3.8	25
34	Reshaping Plant Biology: Qualitative and Quantitative Descriptors for Plant Morphology. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 117	6.2	24
33	Loss of the ETR1 ethylene receptor reduces the inhibitory effect of far-red light and darkness on seed germination of <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 433	6.2	23
32	Morphological and molecular characterization of ethylene binding inhibition in carnations. <i>Postharvest Biology and Technology</i> , <b>2013</b> , 86, 272-279	6.2	22
31	Perception of Ethylene by Plants [Ethylene Receptors <b>2012</b> , 117-145		22
30	Triplin, a small molecule, reveals copper ion transport in ethylene signaling from ATX1 to RAN1. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1006703	6	21
29	Inhibitors of Ethylene Biosynthesis and Signaling. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1573, 223-235	1.4	18
28	Analysis of gene expression during the transition to climacteric phase in carnation flowers ( <i>Dianthus caryophyllus</i> L.). <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 4923-37	7	15
27	Ethylene-dependent and -independent regulation of abscission. <i>Stewart Postharvest Review</i> , <b>5</b> , 1-10		15
26	Canonical and noncanonical ethylene signaling pathways that regulate <i>Arabidopsis</i> susceptibility to the cyst nematode <i>Heterodera schachtii</i> . <i>New Phytologist</i> , <b>2019</b> , 221, 946-959	9.8	14
25	Identification of Regions in the Receiver Domain of the ETHYLENE RESPONSE1 Ethylene Receptor of <i>Arabidopsis</i> Important for Functional Divergence. <i>Plant Physiology</i> , <b>2015</b> , 169, 219-32	6.6	14
24	Roles of SlETR7, a newly discovered ethylene receptor, in tomato plant and fruit development. <i>Horticulture Research</i> , <b>2020</b> , 7, 17	7.7	13
23	Targeted Proteomics Allows Quantification of Ethylene Receptors and Reveals SlETR3 Accumulation in Never-Ripe Tomatoes. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1054	6.2	12
22	Ethylene stimulates growth and affects fatty acid content of <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , <b>2017</b> , 26, 234-239	5	12
21	1-Methylcyclopropene: Mode of Action and Relevance in Postharvest Horticulture Research <b>2009</b> , 263-313		11
20	Dominant gain-of-function mutations in transmembrane domain III of ERS1 and ETR1 suggest a novel role for this domain in regulating the magnitude of ethylene response in <i>Arabidopsis</i> . <i>New Phytologist</i> , <b>2015</b> , 208, 442-55	9.8	10

19	An Evolutionary Perspective on Ethylene Sensing in Microorganisms. <i>Trends in Microbiology</i> , <b>2019</b> , 27, 193-196	12.4	10
18	A role for two-component signaling elements in the Arabidopsis growth recovery response to ethylene. <i>Plant Direct</i> , <b>2018</b> , 2, e00058	3.3	9
17	Analysis of Network Topologies Underlying Ethylene Growth Response Kinetics. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1308	6.2	8
16	Ethylene causes transcriptomic changes in during phototaxis. <i>Plant Direct</i> , <b>2018</b> , 2, e00048	3.3	6
15	Biochemical characterization of plant ethylene receptors following transgenic expression in yeast. <i>Methods in Enzymology</i> , <b>2007</b> , 422, 270-87	1.7	6
14	Recovery of ethylene sensitivity and responses in carnation petals post-treatment with 1-methylcyclopropene. <i>Postharvest Biology and Technology</i> , <b>2016</b> , 121, 78-86	6.2	5
13	Cyanobacteria Respond to Low Levels of Ethylene. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 950	6.2	4
12	Cytokinin and Ethylene Cell Signaling Pathways from Prokaryotes to Eukaryotes. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
11	Rapid Kinetic Analysis of Ethylene Growth Responses in Seedlings: New Insights into Ethylene Signal Transduction. <i>Journal of Plant Growth Regulation</i> , <b>2007</b> , 26, 131-142	4.7	3
10	Ethanol, at physiological concentrations, affects ethylene sensing in tomato germinating seeds and seedlings. <i>Plant Science</i> , <b>2020</b> , 291, 110368	5.3	3
9	Ethylene Receptors <b>Biochemical Events</b> <b>2015</b> , 45-59		2
8	Ethylene Receptors in Nonplant Species. <i>Small Methods</i> , <b>2020</b> , 4, 1900266	12.8	2
7	CHAPTER 8: Plant Ethylene Sensing and Signalling. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 253-291	1.8	1
6	Perception of Ethylene by Plants <b>Ethylene Receptors</b> <b>2018</b> , 117-145		1
5	Analysis of Ethylene Receptors: Ethylene-Binding Assays. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1573, 75-86	6.4	0
4	Time-Lapse Imaging to Examine the Growth Kinetics of Arabidopsis Seedlings in Response to Ethylene. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1573, 211-222	1.4	0
3	Analysis of Ethylene Receptors: Assay for Histidine Kinase Activity. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1573, 87-99	1.4	
2	Ethylene-Stimulated Nutations Do Not Require ETR1 Receptor Histidine Kinase Activity. <i>Plant Signaling and Behavior</i> , <b>2006</b> , 1, 287-9	2.5	

1 The Role of Protein-Protein Interactions in Signaling by the Ethylene Receptors **2015**, 61-72