Brad M Binder

List of Publications by Year in Descending Order

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	Roles of SlETR7, a newly discovered ethylene receptor, in tomato plant and fruit development. *Horticulture Research*, **2020**, 7, 17	7.7	13
71	Ethylene signaling in plants. *Journal of Biological Chemistry*, **2020**, 295, 7710-7725	5.4	90
70	Ethanol, at physiological concentrations, affects ethylene sensing in tomato germinating seeds and seedlings. *Plant Science*, **2020**, 291, 110368	5.3	3
69	Cytokinin and Ethylene Cell Signaling Pathways from Prokaryotes to Eukaryotes. *Cells*, **2020**, 9,	7.9	4
68	Ethylene Receptors in Nonplant Species. *Small Methods*, **2020**, 4, 1900266	12.8	2
67	Targeted Proteomics Allows Quantification of Ethylene Receptors and Reveals SlETR3 Accumulation in Never-Ripe Tomatoes. *Frontiers in Plant Science*, **2019**, 10, 1054	6.2	12
66	Canonical and noncanonical ethylene signaling pathways that regulate Arabidopsis susceptibility to the cyst nematode Heterodera schachtii. *New Phytologist*, **2019**, 221, 946-959	9.8	14
65	Cyanobacteria Respond to Low Levels of Ethylene. *Frontiers in Plant Science*, **2019**, 10, 950	6.2	4
64	An Evolutionary Perspective on Ethylene Sensing in Microorganisms. *Trends in Microbiology*, **2019**, 27, 193-196	12.4	10
63	Identification of Transcriptional and Receptor Networks That Control Root Responses to Ethylene. *Plant Physiology*, **2018**, 176, 2095-2118	6.6	25
62	Ethylene causes transcriptomic changes in during phototaxis. *Plant Direct*, **2018**, 2, e00048	3.3	6
61	A role for two-component signaling elements in the Arabidopsis growth recovery response to ethylene. *Plant Direct*, **2018**, 2, e00058	3.3	9
60	Ethylene Receptors Signal via a Noncanonical Pathway to Regulate Abscisic Acid Responses. *Plant Physiology*, **2018**, 176, 910-929	6.6	30
59	Perception of Ethylene by Plants Ethylene Receptors **2018**, 117-145		1
58	Analysis of Ethylene Receptors: Ethylene-Binding Assays. *Methods in Molecular Biology*, **2017**, 1573, 75-86	1.4	0
57	Inhibitors of Ethylene Biosynthesis and Signaling. *Methods in Molecular Biology*, **2017**, 1573, 223-235	1.4	18
56	Analysis of Ethylene Receptors: Assay for Histidine Kinase Activity. *Methods in Molecular Biology*, **2017**, 1573, 87-99	1.4	

55	Time-Lapse Imaging to Examine the Growth Kinetics of Arabidopsis Seedlings in Response to Ethylene. *Methods in Molecular Biology*, **2017**, 1573, 211-222	1.4	0
54	Ethylene stimulates growth and affects fatty acid content of Synechocystis sp. PCC 6803. *Algal Research*, **2017**, 26, 234-239	5	12
53	Reshaping Plant Biology: Qualitative and Quantitative Descriptors for Plant Morphology. *Frontiers in Plant Science*, **2017**, 8, 117	6.2	24
52	Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. *Frontiers in Plant Science*, **2017**, 8, 900	6.2	41
51	Triplin, a small molecule, reveals copper ion transport in ethylene signaling from ATX1 to RAN1. *PLoS Genetics*, **2017**, 13, e1006703	6	21
50	Recovery of ethylene sensitivity and responses in carnation petals post-treatment with 1-methylcyclopropene. *Postharvest Biology and Technology*, **2016**, 121, 78-86	6.2	5
49	Analysis of Network Topologies Underlying Ethylene Growth Response Kinetics. *Frontiers in Plant Science*, **2016**, 7, 1308	6.2	8
48	Ethylene Regulates the Physiology of the Cyanobacterium Synechocystis sp. PCC 6803 via an Ethylene Receptor. *Plant Physiology*, **2016**, 171, 2798-809	6.6	36
47	Gene-specific translation regulation mediated by the hormone-signaling molecule EIN2. *Cell*, **2015**, 163, 684-97	56.2	184
46	The ARGOS gene family functions in a negative feedback loop to desensitize plants to ethylene. *BMC Plant Biology*, **2015**, 15, 157	5.3	31
45	History of Research on the Plant Hormone Ethylene. *Journal of Plant Growth Regulation*, **2015**, 34, 809-827	4.7	54
44	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 Arabidopsis. *New Phytologist*, **2015**, 208, 442-55	9.8	10
43	Identification of Regions in the Receiver Domain of the ETHYLENE RESPONSE1 Ethylene Receptor of Arabidopsis Important for Functional Divergence. *Plant Physiology*, **2015**, 169, 219-32	6.6	14
42	Ethylene ReceptorsBiochemical Events **2015**, 45-59		2
41	The Role of ProteinProtein Interactions in Signaling by the Ethylene Receptors **2015**, 61-72		
40	How plants sense ethylene gas--the ethylene receptors. *Journal of Inorganic Biochemistry*, **2014**, 133, 58-62	4.2	40
39	Loss of the ETR1 ethylene receptor reduces the inhibitory effect of far-red light and darkness on seed germination of Arabidopsis thaliana. *Frontiers in Plant Science*, **2014**, 5, 433	6.2	23
38	Protein-protein interaction and gene co-expression maps of ARFs and Aux/IAAs in Arabidopsis. *Frontiers in Plant Science*, **2014**, 5, 744	6.2	106

37	The Ethylene Receptors ETHYLENE RESPONSE1 and ETHYLENE RESPONSE2 Have Contrasting Roles in Seed Germination of Arabidopsis during Salt Stress. *Plant Physiology*, **2014**, 165, 1353-1366	6.6	87
36	Morphological and molecular characterization of ethylene binding inhibition in carnations. *Postharvest Biology and Technology*, **2013**, 86, 272-279	6.2	22
35	Reducing jasmonic acid levels causes ein2 mutants to become ethylene responsive. *FEBS Letters*, **2013**, 587, 226-30	3.8	25
34	Mechanisms of signal transduction by ethylene: overlapping and non-overlapping signalling roles in a receptor family. *AoB PLANTS*, **2013**, 5, plt010	2.9	99
33	New clothes for the jasmonic acid receptor COI1: delayed abscission, meristem arrest and apical dominance. *PLoS ONE*, **2013**, 8, e60505	3.7	41
32	Analysis of gene expression during the transition to climacteric phase in carnation flowers (Dianthus caryophyllus L.). *Journal of Experimental Botany*, **2013**, 64, 4923-37	7	15
31	ethylene receptor 1 (etr1) Is Sufficient and Has the Predominant Role in Mediating Inhibition of Ethylene Responses by Silver in Arabidopsis thaliana. *Journal of Biological Chemistry*, **2012**, 287, 26094-103	5.4	79
30	Auxin and ethylene: collaborators or competitors?. *Trends in Plant Science*, **2012**, 17, 181-95	13.1	292
29	Perception of Ethylene by Plants Ethylene Receptors **2012**, 117-145		22
28	A comparative study of ethylene growth response kinetics in eudicots and monocots reveals a role for gibberellin in growth inhibition and recovery. *Plant Physiology*, **2012**, 160, 1567-80	6.6	31
27	Ethylene receptor ETHYLENE RECEPTOR1 domain requirements for ethylene responses in Arabidopsis seedlings. *Plant Physiology*, **2011**, 156, 417-29	6.6	49
26	Proteomic responses in Arabidopsis thaliana seedlings treated with ethylene. *Molecular BioSystems*, **2011**, 7, 2637-50		58
25	Ethylene receptors function as components of high-molecular-mass protein complexes in Arabidopsis. *PLoS ONE*, **2010**, 5, e8640	3.7	63
24	The copper transporter RAN1 is essential for biogenesis of ethylene receptors in Arabidopsis. *Journal of Biological Chemistry*, **2010**, 285, 37263-70	5.4	90
23	The BTB ubiquitin ligases ETO1, EOL1 and EOL2 act collectively to regulate ethylene biosynthesis in Arabidopsis by controlling type-2 ACC synthase levels. *Plant Journal*, **2009**, 57, 332-45	6.9	138
22	1-Methylcyclopropene: Mode of Action and Relevance in Postharvest Horticulture Research **2009**, 263-313		11
21	The ethylene receptors: Complex perception for a simple gas. *Plant Science*, **2008**, 175, 8-17	5.3	55
20	Heteromeric interactions among ethylene receptors mediate signaling in Arabidopsis. *Journal of Biological Chemistry*, **2008**, 283, 23801-10	5.4	112

19	Ethylene receptor antagonists: strained alkenes are necessary but not sufficient. *Chemistry and Biology*, **2008**, 15, 313-21		37
18	Biochemical characterization of plant ethylene receptors following transgenic expression in yeast. *Methods in Enzymology*, **2007**, 422, 270-87	1.7	6
17	The Arabidopsis EIN3 binding F-Box proteins EBF1 and EBF2 have distinct but overlapping roles in ethylene signaling. *Plant Cell*, **2007**, 19, 509-23	11.6	202
16	Rapid Kinetic Analysis of Ethylene Growth Responses in Seedlings: New Insights into Ethylene Signal Transduction. *Journal of Plant Growth Regulation*, **2007**, 26, 131-142	4.7	3
15	The effects of Group 11 transition metals, including gold, on ethylene binding to the ETR1 receptor and growth of Arabidopsis thaliana. *FEBS Letters*, **2007**, 581, 5105-9	3.8	37
14	Ethylene-Stimulated Nutations Do Not Require ETR1 Receptor Histidine Kinase Activity. *Plant Signaling and Behavior*, **2006**, 1, 287-9	2.5	
13	Ethylene stimulates nutations that are dependent on the ETR1 receptor. *Plant Physiology*, **2006**, 142, 1690-700	6.6	56
12	The exoribonuclease XRN4 is a component of the ethylene response pathway in Arabidopsis. *Plant Cell*, **2006**, 18, 3047-57	11.6	117
11	Identification of important regions for ethylene binding and signaling in the transmembrane domain of the ETR1 ethylene receptor of Arabidopsis. *Plant Cell*, **2006**, 18, 3429-42	11.6	130
10	Ethylene-binding activity, gene expression levels, and receptor system output for ethylene receptor family members from Arabidopsis and tomato. *Plant Journal*, **2005**, 41, 651-9	6.9	167
9	Short-term growth responses to ethylene in Arabidopsis seedlings are EIN3/EIL1 independent. *Plant Physiology*, **2004**, 136, 2921-7	6.6	123
8	Arabidopsis seedling growth response and recovery to ethylene. A kinetic analysis. *Plant Physiology* , **2004**, 136, 2913-20	6.6	150
7	A copper cofactor for the ethylene receptor ETR1 from Arabidopsis. *Science*, **1999**, 283, 996-8	33.3	519
6	The ethylene-receptor family from Arabidopsis: structure and function. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1998**, 353, 1405-12	5.8	83
5	Phosphorylation of non-bleached rhodopsin in intact retinas and living frogs. *Journal of Biological Chemistry*, **1996**, 271, 19826-30	5.4	28
4	Calcium and lipid regulation of an Arabidopsis protein kinase expressed in Escherichia coli. *Biochemistry*, **1993**, 32, 3282-90	3.2	116
3	Dim background light and Cerenkov radiation from 32P block reversal of rhodopsin phosphorylation in intact frog retinal rods. *Visual Neuroscience*, **1991**, 7, 499-503	1.7	105
2	Ethylene-dependent and -independent regulation of abscission. *Stewart Postharvest Review*,5, 1-10		15

1 CHAPTER 8:Plant Ethylene Sensing and Signalling. *2-Oxoglutarate-Dependent Oxygenases*,253-291 1.8 1