

Brad M Binder

List of Publications by Year in descending order

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68
papers

5,380
citations

101384

36
h-index

110170

64
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74
all docs

74
docs citations

74
times ranked

4848
citing authors

#	ARTICLE	IF	CITATIONS
1	A Copper Cofactor for the Ethylene Receptor ETR1 from Arabidopsis. <i>Science</i> , 1999, 283, 996-998.	6.0	591
2	Auxin and ethylene: collaborators or competitors?. <i>Trends in Plant Science</i> , 2012, 17, 181-195.	4.3	372
3	Gene-Specific Translation Regulation Mediated by the Hormone-Signaling Molecule EIN2. <i>Cell</i> , 2015, 163, 684-697.	13.5	306
4	Ethylene signaling in plants. <i>Journal of Biological Chemistry</i> , 2020, 295, 7710-7725.	1.6	295
5	The Arabidopsis EIN3 Binding F-Box Proteins EBF1 and EBF2 Have Distinct but Overlapping Roles in Ethylene Signaling. <i>Plant Cell</i> , 2007, 19, 509-523.	3.1	269
6	Ethylene-binding activity, gene expression levels, and receptor system output for ethylene receptor family members from Arabidopsis and tomato. <i>Plant Journal</i> , 2005, 41, 651-659.	2.8	188
7	Protein-protein interaction and gene co-expression maps of ARFs and Aux/IAs in Arabidopsis. <i>Frontiers in Plant Science</i> , 2014, 5, 744.	1.7	175
8	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, 332-345.	2.8	166
9	Arabidopsis Seedling Growth Response and Recovery to Ethylene. A Kinetic Analysis. <i>Plant Physiology</i> , 2004, 136, 2913-2920.	2.3	164
10	Identification of Important Regions for Ethylene Binding and Signaling in the Transmembrane Domain of the ETR1 Ethylene Receptor of Arabidopsis. <i>Plant Cell</i> , 2007, 18, 3429-3442.	3.1	156
11	Short-Term Growth Responses to Ethylene in Arabidopsis Seedlings Are EIN3/EIL1 Independent. <i>Plant Physiology</i> , 2004, 136, 2921-2927.	2.3	140
12	Calcium and lipid regulation of an Arabidopsis protein kinase expressed in Escherichia coli. <i>Biochemistry</i> , 1993, 32, 3282-3290.	1.2	132
13	Heteromeric Interactions among Ethylene Receptors Mediate Signaling in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2008, 283, 23801-23810.	1.6	131
14	Mechanisms of signal transduction by ethylene: overlapping and non-overlapping signalling roles in a receptor family. <i>AoB PLANTS</i> , 2013, 5, plt010-plt010.	1.2	127
15	The Exoribonuclease XRN4 Is a Component of the Ethylene Response Pathway in Arabidopsis. <i>Plant Cell</i> , 2006, 18, 3047-3057.	3.1	126
16	The Ethylene Receptors ETHYLENE RESPONSE1 and ETHYLENE RESPONSE2 Have Contrasting Roles in Seed Germination of Arabidopsis during Salt Stress. <i>Plant Physiology</i> , 2014, 165, 1353-1366.	2.3	122
17	The Copper Transporter RAN1 Is Essential for Biogenesis of Ethylene Receptors in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2010, 285, 37263-37270.	1.6	111
18	Dim background light and Cerenkov radiation from 32P block reversal of rhodopsin phosphorylation in intact frog retinal rods. <i>Visual Neuroscience</i> , 1991, 7, 499-503.	0.5	106

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19	Ethylene Receptor 1 (ETR1) Is Sufficient and Has the Predominant Role in Mediating Inhibition of Ethylene Responses by Silver in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 26094-26103.	1.6	100
20	The ethylene receptor family from <i>Arabidopsis</i> : structure and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998, 353, 1405-1412.	1.8	95
21	History of Research on the Plant Hormone Ethylene. <i>Journal of Plant Growth Regulation</i> , 2015, 34, 809-827.	2.8	86
22	Ethylene Receptors Function as Components of High-Molecular-Mass Protein Complexes in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2010, 5, e8640.	1.1	76
23	How plants sense ethylene gas – The ethylene receptors. <i>Journal of Inorganic Biochemistry</i> , 2014, 133, 58-62.	1.5	72
24	Proteomic responses in <i>Arabidopsis thaliana</i> seedlings treated with ethylene. <i>Molecular BioSystems</i> , 2011, 7, 2637.	2.9	71
25	The ethylene receptors: Complex perception for a simple gas. <i>Plant Science</i> , 2008, 175, 8-17.	1.7	70
26	New Clothes for the Jasmonic Acid Receptor COI1: Delayed Abscission, Meristem Arrest and Apical Dominance. <i>PLoS ONE</i> , 2013, 8, e60505.	1.1	68
27	Ethylene Stimulates Nutations That Are Dependent on the ETR1 Receptor. <i>Plant Physiology</i> , 2006, 142, 1690-1700.	2.3	66
28	Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. <i>Frontiers in Plant Science</i> , 2017, 8, 900.	1.7	61
29	Ethylene Regulates the Physiology of the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 via an Ethylene Receptor. <i>Plant Physiology</i> , 2016, 171, 2798-2809.	2.3	55
30	Ethylene Receptor ETHYLENE RECEPTOR1 Domain Requirements for Ethylene Responses in <i>Arabidopsis</i> Seedlings. <i>Plant Physiology</i> , 2011, 156, 417-429.	2.3	51
31	Ethylene Receptor Antagonists: Strained Alkenes Are Necessary but Not Sufficient. <i>Chemistry and Biology</i> , 2008, 15, 313-321.	6.2	49
32	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> , 2014, 5, 433.	1.7	46
33	The effects of Group 11 transition metals, including gold, on ethylene binding to the ETR1 receptor and growth of <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2007, 581, 5105-5109.	1.3	45
34	Ethylene Receptors Signal via a Noncanonical Pathway to Regulate Abscisic Acid Responses. <i>Plant Physiology</i> , 2018, 176, 910-929.	2.3	45
35	The ARGOS gene family functions in a negative feedback loop to desensitize plants to ethylene. <i>BMC Plant Biology</i> , 2015, 15, 157.	1.6	44
36	Inhibitors of Ethylene Biosynthesis and Signaling. <i>Methods in Molecular Biology</i> , 2017, 1573, 223-235.	0.4	41

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37	Identification of Transcriptional and Receptor Networks That Control Root Responses to Ethylene. <i>Plant Physiology</i> , 2018, 176, 2095-2118.	2.3	41
38	Reshaping Plant Biology: Qualitative and Quantitative Descriptors for Plant Morphology. <i>Frontiers in Plant Science</i> , 2017, 08, 117.	1.7	39
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> , 2012, 160, 1567-1580.	2.3	36
40	Triplin, a small molecule, reveals copper ion transport in ethylene signaling from ATX1 to RAN1. <i>PLoS Genetics</i> , 2017, 13, e1006703.	1.5	32
41	Phosphorylation of Non-bleached Rhodopsin in Intact Retinas and Living Frogs. <i>Journal of Biological Chemistry</i> , 1996, 271, 19826-19830.	1.6	30
42	Morphological and molecular characterization of ethylene binding inhibition in carnations. <i>Postharvest Biology and Technology</i> , 2013, 86, 272-279.	2.9	28
43	Reducing jasmonic acid levels causes <i>ein2</i> mutants to become ethylene responsive. <i>FEBS Letters</i> , 2013, 587, 226-230.	1.3	27
44	Analysis of Network Topologies Underlying Ethylene Growth Response Kinetics. <i>Frontiers in Plant Science</i> , 2016, 7, 1308.	1.7	23
45	Canonical and noncanonical ethylene signaling pathways that regulate Arabidopsis susceptibility to the cyst nematode <i>Heterodera schachtii</i> . <i>New Phytologist</i> , 2019, 221, 946-959.	3.5	23
46	Targeted Proteomics Allows Quantification of Ethylene Receptors and Reveals SIETR3 Accumulation in Never-Ripe Tomatoes. <i>Frontiers in Plant Science</i> , 2019, 10, 1054.	1.7	22
47	Roles of SIETR7, a newly discovered ethylene receptor, in tomato plant and fruit development. <i>Horticulture Research</i> , 2020, 7, 17.	2.9	22
48	Ethylene-dependent and -independent regulation of abscission. <i>Stewart Postharvest Review</i> , 0, 5, 1-10.	0.7	21
49	Analysis of gene expression during the transition to climacteric phase in carnation flowers (<i>Dianthus</i>). <i>Trends in Plant Science</i> , 2019, 24, 107-114.	2.4	20
50	Identification of Regions in the Receiver Domain of the ETHYLENE RESPONSE1 Ethylene Receptor of Arabidopsis Important for Functional Divergence. <i>Plant Physiology</i> , 2015, 169, 219-232.	2.3	19
51	An Evolutionary Perspective on Ethylene Sensing in Microorganisms. <i>Trends in Microbiology</i> , 2019, 27, 193-196.	3.5	18
52	Ethylene stimulates growth and affects fatty acid content of <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , 2017, 26, 234-239.	2.4	17
53	Cytokinin and Ethylene Cell Signaling Pathways from Prokaryotes to Eukaryotes. <i>Cells</i> , 2020, 9, 2526.	1.8	14
54	Ethylene causes transcriptomic changes in <i>Synechocystis</i> during phototaxis. <i>Plant Direct</i> , 2018, 2, e00048.	0.8	12

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55	Dominant gain-of-function mutations in transmembrane domain <i>ERS1</i> and <i>ETR1</i> suggest a novel role for this domain in regulating the magnitude of ethylene response in Arabidopsis. <i>New Phytologist</i> , 2015, 208, 442-455.	3.5	11
56	A role for two-component signaling elements in the Arabidopsis growth recovery response to ethylene. <i>Plant Direct</i> , 2018, 2, e00058.	0.8	11
57	Ethanol, at physiological concentrations, affects ethylene sensing in tomato germinating seeds and seedlings. <i>Plant Science</i> , 2020, 291, 110368.	1.7	10
58	Recovery of ethylene sensitivity and responses in carnation petals post-treatment with 1-methylcyclopropene. <i>Postharvest Biology and Technology</i> , 2016, 121, 78-86.	2.9	9
59	Cyanobacteria Respond to Low Levels of Ethylene. <i>Frontiers in Plant Science</i> , 2019, 10, 950.	1.7	9
60	Biochemical Characterization of Plant Ethylene Receptors Following Transgenic Expression in Yeast. <i>Methods in Enzymology</i> , 2007, 422, 270-287.	0.4	6
61	Rapid Kinetic Analysis of Ethylene Growth Responses in Seedlings: New Insights into Ethylene Signal Transduction. <i>Journal of Plant Growth Regulation</i> , 2007, 26, 131-142.	2.8	5
62	Ethylene Receptors in Nonplant Species. <i>Small Methods</i> , 2020, 4, 1900266.	4.6	4
63	Time-Lapse Imaging to Examine the Growth Kinetics of Arabidopsis Seedlings in Response to Ethylene. <i>Methods in Molecular Biology</i> , 2017, 1573, 211-222.	0.4	3
64	Plant Ethylene Sensing and Signalling. 2-Oxoglutarate-Dependent Oxygenases, 2017, , 253-291.	0.8	3
65	Analysis of Ethylene Receptors: Ethylene-Binding Assays. <i>Methods in Molecular Biology</i> , 2017, 1573, 75-86.	0.4	2
66	Ethylene Receptors—Biochemical Events. , 2015, , 45-59.		2
67	Ethylene-Stimulated Mutations Do Not Require ETR1 Receptor Histidine Kinase Activity. <i>Plant Signaling and Behavior</i> , 2006, 1, 287-289.	1.2	0
68	Analysis of Ethylene Receptors: Assay for Histidine Kinase Activity. <i>Methods in Molecular Biology</i> , 2017, 1573, 87-99.	0.4	0