Dongqing Xu

List of Publications by Year
in descending order

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Version: 2024-02-01

64 papers	8,170 citations	94433 37 h-index	114465 63 g-index
64 all docs	64 docs citations	64 times ranked	5823 citing authors

#	Article	IF	Citations
1	Targeted destabilization of HY5 during light-regulated development of Arabidopsis. Nature, 2000, 405, 462-466.	27.8	1,227
2	Light-regulated transcriptional networks in higher plants. Nature Reviews Genetics, 2007, 8, 217-230.	16.3	892
3	Analysis of Transcription Factor HY5 Genomic Binding Sites Revealed Its Hierarchical Role in Light Regulation of Development. Plant Cell, 2007, 19, 731-749.	6.6	829
4	The photomorphogenic repressors COP1 and DET1: 20 years later. Trends in Plant Science, 2012, 17, 584-593.	8.8	530
5	Light Control of Arabidopsis Development Entails Coordinated Regulation of Genome Expression and Cellular Pathways. Plant Cell, 2001, 13, 2589-2607.	6.6	498
6	The COP1-SPA1 interaction defines a critical step in phytochrome A-mediated regulation of HY5 activity. Genes and Development, 2003, 17, 2642-2647.	5.9	403
7	From seed to seed: the role of photoreceptors in Arabidopsis development. Developmental Biology, 2003, 260, 289-297.	2.0	214
8	BBX21, an Arabidopsis B-box protein, directly activates HY5 and is targeted by COP1 for 26S proteasome-mediated degradation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7655-7660.	7.1	204
9	Biochemical Characterization ofArabidopsisComplexes Containing CONSTITUTIVELY PHOTOMORPHOGENIC1 and SUPPRESSOR OF PHYA Proteins in Light Control of Plant Development. Plant Cell, 2008, 20, 2307-2323.	6.6	202
10	Arabidopsis CULLIN4 Forms an E3 Ubiquitin Ligase with RBX1 and the CDD Complex in Mediating Light Control of Development. Plant Cell, 2006, 18, 1991-2004.	6.6	194
11	Arabidopsis COP10 forms a complex with DDB1 and DET1 in vivo and enhances the activity of ubiquitin conjugating enzymes. Genes and Development, 2004, 18, 2172-2181.	5.9	186
12	Arabidopsis CULLIN4-Damaged DNA Binding Protein 1 Interacts with CONSTITUTIVELY PHOTOMORPHOGENIC1-SUPPRESSOR OF PHYA Complexes to Regulate Photomorphogenesis and Flowering Time Â. Plant Cell, 2010, 22, 108-123.	6.6	182
13	Arabidopsis Transcription Factor ELONGATED HYPOCOTYL5 Plays a Role in the Feedback Regulation of Phytochrome A Signaling Â. Plant Cell, 2010, 22, 3634-3649.	6.6	165
14	Convergence of Light and ABA Signaling on the ABI5 Promoter. PLoS Genetics, 2014, 10, e1004197.	3.5	163
15	Beyond repression of photomorphogenesis: role switching of COP/DET/FUS in light signaling. Current Opinion in Plant Biology, 2014, 21, 96-103.	7.1	141
16	Seedlings Transduce the Depth and Mechanical Pressure of Covering Soil Using COP1 and Ethylene to Regulate EBF1/EBF2 for Soil Emergence. Current Biology, 2016, 26, 139-149.	3.9	120
17	Arabidopsis DE-ETIOLATED1 Represses Photomorphogenesis by Positively Regulating Phytochrome-Interacting Factors in the Dark. Plant Cell, 2014, 26, 3630-3645.	6.6	116
18	Noncanonical role of Arabidopsis COP1/SPA complex in repressing BIN2-mediated PIF3 phosphorylation and degradation in darkness. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3539-3544.	7.1	109

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19	B-BOX DOMAIN PROTEIN28 Negatively Regulates Photomorphogenesis by Repressing the Activity of Transcription Factor HY5 and Undergoes COP1-Mediated Degradation. Plant Cell, 2018, 30, 2006-2019.	6.6	105
20	COP1 and BBXsâ€HY5â€mediated light signal transduction in plants. New Phytologist, 2020, 228, 1748-1753.	7.3	98
21	Light-Dependent Degradation of PIF3 by SCFEBF1/2 Promotes a Photomorphogenic Response in Arabidopsis. Current Biology, 2017, 27, 2420-2430.e6.	3.9	95
22	The Photomorphogenic Central Repressor COP1: Conservation and Functional Diversification during Evolution. Plant Communications, 2020, 1, 100044.	7.7	95
23	Origin and Evolution of Core Components Responsible for Monitoring Light Environment Changes during Plant Terrestrialization. Molecular Plant, 2019, 12, 847-862.	8.3	85
24	Bâ€box proteins: Pivotal players in lightâ€mediated development in plants. Journal of Integrative Plant Biology, 2020, 62, 1293-1309.	8.5	79
25	PHYTOCHROME INTERACTING FACTOR1 Enhances the E3 Ligase Activity of CONSTITUTIVE PHOTOMORPHOGENIC1 to Synergistically Repress Photomorphogenesis in Arabidopsis Â Â. Plant Cell, 2014, 26, 1992-2006.	6.6	78
26	The B-Box Domain Protein BBX21 Promotes Photomorphogenesis. Plant Physiology, 2018, 176, 2365-2375.	4.8	78
27	Analysis of the mutational effects of theCOP/DET/FUSloci on genome expression profiles reveals their overlapping yet not identical roles in regulatingArabidopsisseedling development. Development (Cambridge), 2003, 130, 969-981.	2.5	74
28	Arabidopsis Phytochrome A Directly Targets Numerous Promoters for Individualized Modulation of Genes in a Wide Range of Pathways. Plant Cell, 2014, 26, 1949-1966.	6.6	73
29	Arabidopsis DET1 degrades HFR1 but stabilizes PIF1 to precisely regulate seed germination. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3817-3822.	7.1	69
30	B-Box Containing Proteins BBX30 and BBX31, Acting Downstream of HY5, Negatively Regulate Photomorphogenesis in Arabidopsis. Plant Physiology, 2019, 180, 497-508.	4.8	69
31	Genome-wide regulation of light-controlled seedling morphogenesis by three families of transcription factors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6482-6487.	7.1	68
32	COP9 signalosome: Discovery, conservation, activity, and function. Journal of Integrative Plant Biology, 2020, 62, 90-103.	8.5	66
33	Modulation of BIN2 kinase activity by HY5 controls hypocotyl elongation in the light. Nature Communications, 2020, 11, 1592.	12.8	61
34	HY5: A Pivotal Regulator of Light-Dependent Development in Higher Plants. Frontiers in Plant Science, 2021, 12, 800989.	3.6	54
35	Diurnal down-regulation of ethylene biosynthesis mediates biomass heterosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5606-5611.	7.1	49
36	BBX28/BBX29, HY5 and BBX30/31 form a feedback loop to fineâ€tune photomorphogenic development. Plant Journal, 2020, 104, 377-390.	5.7	46

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37	The RING-Finger E3 Ubiquitin Ligase COP1 SUPPRESSOR1 Negatively Regulates COP1 Abundance in Maintaining COP1 Homeostasis in Dark-Grown Arabidopsis Seedlings Â Â. Plant Cell, 2014, 26, 1981-1991.	6.6	41
38	A Positive Feedback Loop of BBX11â€“BBX21â€“HY5 Promotes Photomorphogenic Development in Arabidopsis. Plant Communications, 2020, 1, 100045.	7.7	39
39	BBX4, a phyB-interacting and modulated regulator, directly interacts with PIF3 to fine tune red light-mediated photomorphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26049-26056.	7.1	34
40	Multifaceted Roles of PIF4 in Plants. Trends in Plant Science, 2018, 23, 749-751.	8.8	32
41	COLD-REGULATED GENE27 Integrates Signals from Light and the Circadian Clock to Promote Hypocotyl Growth in Arabidopsis. Plant Cell, 2020, 32, 3155-3169.	6.6	32
42	Red-light is an environmental effector for mutualism between begomovirus and its vector whitefly. PLoS Pathogens, 2021, 17, e1008770.	4.7	26
43	Pyrethroid Carboxylesterase PytH from Sphingobium faniae JZ-2: Structure and Catalytic Mechanism. Applied and Environmental Microbiology, 2020, 86, .	3.1	25
44	Arabidopsis COP1 SUPPRESSOR 2 Represses COP1 E3 Ubiquitin Ligase Activity through Their Coiled-Coil Domains Association. PLoS Genetics, 2015, 11, e1005747.	3.5	23
45	Phosphorylation and negative regulation of CONSTITUTIVELY PHOTOMORPHOGENIC 1 by PINOID in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6617-6622.	7.1	23
46	CBF-phyB-PIF Module Links Light and Low Temperature Signaling. Trends in Plant Science, 2020, 25, 952-954.	8.8	22
47	The role of COP1 in repression of photoperiodic flowering. F1000Research, 2016, 5, 178.	1.6	22
48	The photomorphogenic repressors BBX28 and BBX29 integrate light and brassinosteroid signaling to inhibit seedling development in Arabidopsis. Plant Cell, 2022, 34, 2266-2285.	6.6	17
49	BBX11 promotes red light-mediated photomorphogenic development by modulating phyB-PIF4 signaling. ABIOTECH, 2021, 2, 117-130.	3.9	16
50	Differential roles for ArcA and ArcB homologues in swarming motility in Serratia marcescens FS14. Antonie Van Leeuwenhoek, 2018, 111, 609-617.	1.7	13
51	Crystal structure of the catalytic domain of PigE: A transaminase involved in the biosynthesis of 2-methyl-3-n-amyl-pyrrole (MAP) from Serratia sp. FS14. Biochemical and Biophysical Research Communications, 2014, 447, 178-183.	2.1	12
52	COP1 SUPPRESSOR 4 promotes seedling photomorphogenesis by repressing CCA1 and PIF4 expression in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11631-11636.	7.1	12
53	Identification of a toxic serralysin family protease with unique thermostable property from S. marcescens FS14. International Journal of Biological Macromolecules, 2016, 93, 98-106.	7.5	11
54	Myroilysin Is a New Bacterial Member of the M12A Family of Metzincin Metallopeptidases and Is Activated by a Cysteine Switch Mechanism. Journal of Biological Chemistry, 2017, 292, 5195-5206.	3.4	11

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55	CmRCD1 represses flowering by directly interacting with CmBBX8 in summer chrysanthemum. Horticulture Research, 2021, 8, 79.	6.3	11
56	A missense mutation in WRKY32 converts its function from a positive regulator to a repressor of photomorphogenesis. New Phytologist, 2021, , .	7.3	8
57	Crystal structure of MBP-PigG fusion protein and the essential function of PigG in the prodigiosin biosynthetic pathway in Serratia marcescens FS14. International Journal of Biological Macromolecules, 2017, 99, 394-400.	7.5	7
58	EheA fromExiguobacteriumsp. yc3 is a novel thermostable DNase belonging to HNH endonuclease superfamily. FEMS Microbiology Letters, 2015, 362, fnv204.	1.8	3
59	Crystal structure of the sensor domain of BaeS from Serratia marcescens FS14. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1784-1790.	2.6	3
60	Crystal structure of the periplasmic domain of TssL, a key membrane component of Type VI secretion system. International Journal of Biological Macromolecules, 2018, 120, 1474-1479.	7.5	3
61	RpoS Activates the Prodigionsin Production by Activating the Transcription of the RpoS-Dependent Pig Gene Cluster in Serratia marcescens FS14. Indian Journal of Microbiology, 2021, 61, 355-363.	2.7	3
62	Expression, crystallization and preliminary crystallographic data analysis of PigI, a putative<scp>L</scp>-prolyl-AMP ligase from the prodigiosin synthetic pathway inSerratia. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 624-627.	0.8	2
63	Two component system CpxR/A regulates the prodigiosin biosynthesis by negative control in Serratia marcescens FS14. Biochemical and Biophysical Research Communications, 2021, 579, 136-140.	2.1	2
64	Reply to Jin and Zhu: PINOID-mediated COP1 phosphorylation matters in photomorphogenesis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8136-E8137.	7.1	0