Bin Hu

List of Publications by Year in Descending Order

47 papers	4,455 citations	30 h-index	50 g-index
50 ext. papers	5,982 ext. citations	13.4 avg, IF	5.37 L-index

#	Paper	IF	Citations
47	POLLEN STERILITY, a novel suppressor of cell division, is required for timely tapetal programmed cell death in rice. *Science China Life Sciences*, **2021**, 1	8.5	0
46	Epigenetic regulation of nitrogen and phosphorus responses in plants. *Journal of Plant Physiology*, **2021**, 258-259, 153363	3.6	2
45	A transceptor-channel complex couples nitrate sensing to calcium signaling in Arabidopsis. *Molecular Plant*, **2021**, 14, 774-786	14.4	18
44	Modulation of nitrate-induced phosphate response by the MYB transcription factor RLI1/HINGE1 in the nucleus. *Molecular Plant*, **2021**, 14, 517-529	14.4	7
43	Folding of cohesin's coiled coil is important for Scc2/4-induced association with chromosomes. *ELife* , **2021**, 10,	8.9	4
42	Genomic basis of geographical adaptation to soil nitrogen in rice. *Nature*, **2021**, 590, 600-605	50.4	59
41	NRT1.1s in plants: functions beyond nitrate transport. *Journal of Experimental Botany*, **2020**, 71, 4373-4379	7	27
40	Nitrogen-phosphorus interplay: old story with molecular tale. *New Phytologist*, **2020**, 225, 1455-1460	9.8	36
39	Towards understanding the hierarchical nitrogen signalling network in plants. *Current Opinion in Plant Biology*, **2020**, 55, 60-65	9.9	21
38	Analysis of rice root bacterial microbiota of Nipponbare and IR24. *Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji*, **2020**, 42, 506-518	1.4	
37	NRT1.1B is associated with root microbiota composition and nitrogen use in field-grown rice. *Nature Biotechnology*, **2019**, 37, 676-684	44.5	276
36	A folded conformation of MukBEF and cohesin. *Nature Structural and Molecular Biology*, **2019**, 26, 227-236	13.6	75
35	Nitrate-NRT1.1B-SPX4 cascade integrates nitrogen and phosphorus signalling networks in plants. *Nature Plants*, **2019**, 5, 401-413	11.5	133
34	Scc2 counteracts a Wapl-independent mechanism that releases cohesin from chromosomes during G1. *ELife*, **2019**, 8,	8.9	14
33	NRT1.1B improves selenium concentrations in rice grains by facilitating selenomethinone translocation. *Plant Biotechnology Journal*, **2019**, 17, 1058-1068	11.6	30
32	Expression of the Nitrate Transporter Gene Confers High Yield and Early Maturation in Rice. *Plant Cell*, **2018**, 30, 638-651	11.6	145
31	Root microbiota shift in rice correlates with resident time in the field and developmental stage. *Science China Life Sciences*, **2018**, 61, 613-621	8.5	98

30	The Cohesin Ring Uses Its Hinge to Organize DNA Using Non-topological as well as Topological Mechanisms. *Cell*, **2018**, 173, 1508-1519.e18	56.2	72
29	A set of novel CRISPR-based integrative vectors for. *Wellcome Open Research*, **2018**, 3, 72	4.8	0
28	A set of novel CRISPR-based integrative vectors for Saccharomyces cerevisiae. *Wellcome Open Research*, **2018**, 3, 72	4.8	
27	Scc2 Is a Potent Activator of Cohesin's ATPase that Promotes Loading by Binding Scc1 without Pds5. *Molecular Cell*, **2018**, 70, 1134-1148.e7	17.6	71
26	Nitrogen use efficiency in crops: lessons from Arabidopsis and rice. *Journal of Experimental Botany*, **2017**, 68, 2477-2488	7	148
25	Releasing Activity Disengages Cohesin's Smc3/Scc1 Interface in a Process Blocked by Acetylation. *Molecular Cell*, **2016**, 61, 563-574	17.6	73
24	Identification of microRNAs in rice root in response to nitrate and ammonium. *Journal of Genetics and Genomics*, **2016**, 43, 651-661	4	23
23	MicroRNA399 is involved in multiple nutrient starvation responses in rice. *Frontiers in Plant Science*, **2015**, 6, 188	6.2	45
22	Melatonin delays leaf senescence and enhances salt stress tolerance in rice. *Journal of Pineal Research*, **2015**, 59, 91-101	10.4	184
21	Activation of Big Grain1 significantly improves grain size by regulating auxin transport in rice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11102-7	11.5	140
20	Control of grain size and rice yield by GL2-mediated brassinosteroid responses. *Nature Plants*, **2015**, 2, 15195	11.5	209
19	Variation in NRT1.1B contributes to nitrate-use divergence between rice subspecies. *Nature Genetics*, **2015**, 47, 834-8	36.3	334
18	Biological chromodynamics: a general method for measuring protein occupancy across the genome by calibrating ChIP-seq. *Nucleic Acids Research*, **2015**, 43, e132	20.1	86
17	OsCYCP1;1, a PHO80 homologous protein, negatively regulates phosphate starvation signaling in the roots of rice (Oryza sativa L.). *Plant Molecular Biology*, **2014**, 86, 655-69	4.6	11
16	OsNAP connects abscisic acid and leaf senescence by fine-tuning abscisic acid biosynthesis and directly targeting senescence-associated genes in rice. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10013-8	11.5	316
15	OsPT2, a phosphate transporter, is involved in the active uptake of selenite in rice. *New Phytologist*, **2014**, 201, 1183-1191	9.8	172
14	Cohesin's DNA exit gate is distinct from its entrance gate and is regulated by acetylation. *Cell*, **2012** , 150, 961-74	56.2	178
13	ATP hydrolysis is required for relocating cohesin from sites occupied by its Scc2/4 loading complex. *Current Biology*, **2011**, 21, 12-24	6.3	143

12	Phosphate starvation signaling in rice. *Plant Signaling and Behavior*, **2011**, 6, 927-9	2.5	15
11	LEAF TIP NECROSIS1 plays a pivotal role in the regulation of multiple phosphate starvation responses in rice. *Plant Physiology*, **2011**, 156, 1101-15	6.6	162
10	An Smc3 acetylation cycle is essential for establishment of sister chromatid cohesion. *Molecular Cell* , **2010**, 39, 689-99	17.6	119
9	Both interaction surfaces within cohesin's hinge domain are essential for its stable chromosomal association. *Current Biology*, **2010**, 20, 279-89	6.3	26
8	Hsp90-dependent activation of protein kinases is regulated by chaperone-targeted dephosphorylation of Cdc37. *Molecular Cell*, **2008**, 31, 886-95	17.6	144
7	Expressed as the sole Hsp90 of yeast, the alpha and beta isoforms of human Hsp90 differ with regard to their capacities for activation of certain client proteins, whereas only Hsp90beta generates sensitivity to the Hsp90 inhibitor radicicol. *FEBS Journal*, **2007**, 274, 4453-63	5.7	62
6	Genomic screening in vivo reveals the role played by vacuolar H+ ATPase and cytosolic acidification in sensitivity to DNA-damaging agents such as cisplatin. *Molecular Pharmacology*, **2007**, 71, 416-25	4.3	46
5	Qri2/Nse4, a component of the essential Smc5/6 DNA repair complex. *Molecular Microbiology*, **2005** , 55, 1735-50	4.1	32
4	Co-chaperone regulation of conformational switching in the Hsp90 ATPase cycle. *Journal of Biological Chemistry*, **2004**, 279, 51989-98	5.4	160
3	Structural basis for recruitment of the ATPase activator Aha1 to the Hsp90 chaperone machinery. *EMBO Journal*, **2004**, 23, 511-9	13	141
2	Structural and functional analysis of the middle segment of hsp90: implications for ATP hydrolysis and client protein and cochaperone interactions. *Molecular Cell*, **2003**, 11, 647-58	17.6	387
1	A folded conformation of MukBEF and Cohesin		2