Bingcheng Xu

List of Publications by Citations

61 papers	1,201 citations	21 h-index	32 g-index
65 ext. papers	1,535 ext. citations	4.2 avg, IF	4.3 L-index

#	Paper	IF	Citations
61	Moderate Drought Stress Affected Root Growth and Grain Yield in Old, Modern and Newly Released Cultivars of Winter Wheat. *Frontiers in Plant Science*, **2017**, 8, 672	6.2	104
60	Transgenic poplar expressing Arabidopsis YUCCA6 exhibits auxin-overproduction phenotypes and increased tolerance to abiotic stress. *Plant Physiology and Biochemistry*, **2015**, 94, 19-27	5.4	85
59	Effect of lowering the root/shoot ratio by pruning roots on water use efficiency and grain yield of winter wheat. *Field Crops Research*, **2010**, 115, 158-164	5.5	52
58	Grain yield, dry matter accumulation and remobilization, and root respiration in winter wheat as affected by seeding rate and root pruning. *European Journal of Agronomy*, **2010**, 33, 257-266	5	52
57	Switchgrass and milkvetch intercropping under 2:1 row-replacement in semiarid region, northwest China: Aboveground biomass and water use efficiency. *European Journal of Agronomy*, **2008**, 28, 485-492	5	52
56	Effects of root pruning on competitive ability and water use efficiency in winter wheat. *Field Crops Research*, **2008**, 105, 56-63	5.5	46
55	Overexpression of codA gene confers enhanced tolerance to abiotic stresses in alfalfa. *Plant Physiology and Biochemistry*, **2014**, 85, 31-40	5.4	42
54	Gas exchange, biomass partition, and water relationships of three grass seedlings under water stress. *Weed Biology and Management*, **2006**, 6, 79-88	1.4	42
53	The relationship between competitive ability and yield stability in an old and a modern winter wheat cultivar. *Plant and Soil*, **2011**, 347, 7-23	4.2	40
52	Abscisic acid and brassinolide combined application synergistically enhances drought tolerance and photosynthesis of tall fescue under water stress. *Scientia Horticulturae*, **2018**, 228, 1-9	4.1	37
51	Transgenic alfalfa plants expressing the sweetpotato Orange gene exhibit enhanced abiotic stress tolerance. *PLoS ONE*, **2015**, 10, e0126050	3.7	36
50	Velocity and pattern of ice propagation and deep supercooling in woody stems of Castanea sativa, Morus nigra and Quercus robur measured by IDTA. *Tree Physiology*, **2010**, 30, 1037-45	4.2	36
49	Soil-Water Threshold Range of Chemical Signals and Drought Tolerance Was Mediated by ROS Homeostasis in Winter Wheat During Progressive Soil Drying. *Journal of Plant Growth Regulation*, **2008**, 27, 309-319	4.7	36
48	Transgenic alfalfa plants expressing AtNDPK2 exhibit increased growth and tolerance to abiotic stresses. *Plant Physiology and Biochemistry*, **2014**, 84, 67-77	5.4	33
47	Down-regulation of GIGANTEA-like genes increases plant growth and salt stress tolerance in poplar. *Plant Biotechnology Journal*, **2017**, 15, 331-343	11.6	33
46	Does a mixture of old and modern winter wheat cultivars increase yield and water use efficiency in water-limited environments?. *Field Crops Research*, **2014**, 156, 12-21	5.5	32
45	Overexpressing Arabidopsis ABF3 increases tolerance to multiple abiotic stresses and reduces leaf size in alfalfa. *Plant Physiology and Biochemistry*, **2016**, 109, 199-208	5.4	30

44	Transgenic poplar expressing codA exhibits enhanced growth and abiotic stress tolerance. *Plant Physiology and Biochemistry*, **2016**, 100, 75-84	5.4	28
43	Hydraulic and Non-hydraulic Root-sourced Signals in Old and Modern Spring Wheat Cultivars in a Semiarid Area. *Journal of Plant Growth Regulation*, **2006**, 25, 120-136	4.7	27
42	Does root pruning increase yield and water-use efficiency of winter wheat?. *Crop and Pasture Science*, **2010**, 61, 899	2.2	24
41	Aboveground biomass production and soil water dynamics of four leguminous forages in semiarid region, northwest China. *South African Journal of Botany*, **2006**, 72, 507-516	2.9	23
40	Photosynthetic activity and efficiency of Bothriochloa ischaemum and Lespedeza davurica in mixtures across growth periods under water stress. *Acta Physiologiae Plantarum*, **2014**, 36, 1033-1044	2.6	21
39	Biomass allocation, relative competitive ability and water use efficiency of two dominant species in semiarid Loess Plateau under water stress. *Plant Science*, **2011**, 181, 644-51	5.3	21
38	Biomass production and relative competitiveness of a C3 legume and a C4 grass co-dominant in the semiarid Loess Plateau of China. *Plant and Soil*, **2011**, 347, 25-39	4.2	19
37	Two perennial legumes (Astragalus adsurgens Pall. and Lespedeza davurica S.) adapted to semiarid environments are not as productive as lucerne (Medicago sativa L.), but use less water. *Grass and Forage Science*, **2013**, 68, 469-478	2.3	18
36	Dissecting root trait variability in maize genotypes using the semi-hydroponic phenotyping platform. *Plant and Soil*, **2019**, 439, 75-90	4.2	18
35	Eco-Physiological Responses of Dominant Species to Watering in a Natural Grassland Community on the Semi-Arid Loess Plateau of China. *Frontiers in Plant Science*, **2016**, 7, 663	6.2	15
34	Responses of soil respiration to rainfall pulses in a natural grassland community on the semi-arid Loess Plateau of China. *Catena*, **2019**, 178, 199-208	5.8	14
33	Calcium regulates the cell-to-cell water flow pathway in maize roots during variable water conditions. *Plant Physiology and Biochemistry*, **2012**, 58, 212-9	5.4	14
32	Seasonal Root Biomass and Distribution of Switchgrass and Milk Vetch Intercropping under 2:1 Row Replacement in a Semiarid Region in Northwest China. *Communications in Soil Science and Plant Analysis*, **2010**, 41, 1959-1973	1.5	14
31	N:P ratio of the grass Bothriochloa ischaemum mixed with the legume Lespedeza davurica under varying water and fertilizer supplies. *Plant and Soil*, **2016**, 400, 67-79	4.2	13
30	Overexpression of alfalfa Orange gene in tobacco enhances carotenoid accumulation and tolerance to multiple abiotic stresses. *Plant Physiology and Biochemistry*, **2018**, 130, 613-622	5.4	13
29	Effects of root pruning on the growth and water use efficiency of winter wheat. *Plant Growth Regulation*, **2009**, 57, 233-241	3.2	12
28	Small rainfall pulses affected leaf photosynthesis rather than biomass production of dominant species in semiarid grassland community on Loess Plateau of China. *Functional Plant Biology*, **2017**, 44, 1229-1242	2.7	11
27	Maize genotypes with deep root systems tolerate salt stress better than those with shallow root systems during early growth. *Journal of Agronomy and Crop Science*, **2020**, 206, 711-721	3.9	11

26	Grassland productivity and diversity changes in responses to N and P addition depend primarily on tall clonal and annual species in semiarid Loess Plateau. *Ecological Engineering*, **2020**, 145, 105727	3.9	10
25	Biomass production, relative competitive ability and water use efficiency of two dominant species in semiarid Loess Plateau under different water supply and fertilization treatments. *Ecological Research*, **2013**, 28, 781-792	1.9	9
24	Diurnal and seasonal variations of soil respiration rate under different row-spacing in a Panicum virgatum L. field on semi-arid Loess Plateau of China. *Journal of Arid Land*, **2016**, 8, 341-349	2.2	9
23	Soil Moisture Availability at Early Growth Stages Strongly Affected Root Growth of When Mixed With. *Frontiers in Plant Science*, **2018**, 9, 1050	6.2	7
22	Morphological changes in roots of Bothriochloa ischaemum intercropped with Lespedeza davurica following phosphorus application and water stress. *Plant Biosystems*, **2015**, 149, 298-306	1.6	6
21	Accumulation of N and P in the Legume in Controlled Mixtures with the Grass under Varying Water and Fertilization Conditions. *Frontiers in Plant Science*, **2018**, 9, 165	6.2	6
20	Variability in leaf wettability and surface water retention of main species in semiarid Loess Plateau of China. *Ecohydrology*, **2018**, 11, e2021	2.5	6
19	Effects of Root Pruning on Non-Hydraulic Root-Sourced Signal, Drought Tolerance and Water Use Efficiency of Winter Wheat. *Journal of Integrative Agriculture*, **2013**, 12, 989-998	3.2	5
18	Seedling biomass partition and water use efficiency of switchgrass and milkvetch in monocultures and mixtures in response to various water availabilities. *Environmental Management*, **2010**, 46, 599-609	3.1	5
17	Arbuscular mycorrhizal symbioses alleviating salt stress in maize is associated with a decline in root-to-leaf gradient of Na/K ratio. *BMC Plant Biology*, **2021**, 21, 457	5.3	4
16	Physiological responses of yellow-horn seedlings to high temperatures under drought condition. *Plant Biotechnology Reports*, **2020**, 14, 111-120	2.5	4
15	Stress-induced expression of the sweetpotato gene IbLEA14 in poplar confers enhanced tolerance to multiple abiotic stresses. *Environmental and Experimental Botany*, **2018**, 156, 261-270	5.9	4
14	Root morphology and rhizosheath acid phosphatase activity in legume and graminoid species respond differently to low phosphorus supply. *Rhizosphere*, **2021**, 19, 100391	3.5	4
13	Surface water storage characteristics of main herbaceous species in semiarid Loess Plateau of China. *Ecohydrology*, **2019**, 12, e2145	2.5	3
12	Optimal Wheat Seeding Rate is Influenced by Cultivar-Specific Topsoil and Subsoil Root Traits. *Agronomy Journal*, **2019**, 111, 3150-3160	2.2	3
11	Aboveground biomass production and dominant species type determined canopy storage capacity of abandoned grassland communities on semiarid Loess Plateau. *Ecohydrology*, **2021**, 14, e2265	2.5	3
10	Nitrogen supply improved plant growth and Cd translocation in maize at the silking and physiological maturity under moderate Cd stress.. *Ecotoxicology and Environmental Safety*, **2021**, 230, 113137	7	2
9	Characterization of Root System Architecture Traits in Diverse Soybean Genotypes Using a Semi-Hydroponic System.. *Plants*, **2021**, 10,	4.5	2

8	N and P addition increase soil respiration but decrease contribution of heterotrophic respiration in semiarid grassland. *Agriculture, Ecosystems and Environment*, **2021**, 318, 107493	5.7	2
7	Effect of Root Redundancy on Grain Yield and Water Use Efficiency of Winter Wheat*. *Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology*, **2010**, 16, 305-308		1
6	Effects of plant diversity on semiarid grassland stability depends on functional group composition and dynamics under N and P addition. *Science of the Total Environment*, **2021**, 799, 149482	10.2	1
5	Soil Water Availability Changes in Amount and Timing Favor the Growth and Competitiveness of Grass Than a Co-dominant Legume in Their Mixtures. *Frontiers in Plant Science*, **2021**, 12, 723839	6.2	0
4	Responses of soil respiration to rainfall depth and frequency in semiarid grassland communities. *Ecohydrology*, **2021**, 14, e2326	2.5	0
3	Effect of silicon on morpho-physiological attributes, yield and cadmium accumulation in two maize genotypes with contrasting root system size and health risk assessment. *Plant and Soil*,1	4.2	0
2	Effect of Root Pruning on Root Efficiency, Water Use and Yield of Winter Wheat*. *Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology*, **2010**, 2009, 606-609		
1	Effects of water and nitrogen on growth and relative competitive ability of introduced versus native C4 grass species in the semi-arid Loess Plateau of China. *Journal of Arid Land*, **2021**, 13, 730-743	2.2	