Fusuo Zhang

List of Publications by Citations

391 papers	25,510 citations	86 h-index	146 g-index
404 ext. papers	31,359 ext. citations	6.2 avg, IF	7.02 L-index

#	Paper	IF	Citations
391	Enhanced nitrogen deposition over China. *Nature*, **2013**, 494, 459-62	50.4	1512
390	Producing more grain with lower environmental costs. *Nature*, **2014**, 514, 486-9	50.4	860
389	Phosphorus dynamics: from soil to plant. *Plant Physiology*, **2011**, 156, 997-1005	6.6	769
388	Nitrogen deposition and its ecological impact in China: an overview. *Environmental Pollution*, **2011**, 159, 2251-64	9.3	513
387	Framing Sustainability in a Telecoupled World. *Ecology and Society*, **2013**, 18,	4.1	509
386	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. *New Phytologist*, **2015**, 206, 107-117	9.8	493
385	New technologies reduce greenhouse gas emissions from nitrogenous fertilizer in China. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8375-80	11.5	414
384	Pursuing sustainable productivity with millions of smallholder farmers. *Nature*, **2018**, 555, 363-366	50.4	408
383	Strategies for overcoming low agronomic nitrogen use efficiency in irrigated rice systems in China. *Field Crops Research*, **2006**, 96, 37-47	5.5	383
382	Using competitive and facilitative interactions in intercropping systems enhances crop productivity and nutrient-use efficiency. *Plant and Soil*, **2003**, 248, 305-312	4.2	377
381	Improving crop productivity and resource use efficiency to ensure food security and environmental quality in China. *Journal of Experimental Botany*, **2012**, 63, 13-24	7	348
380	Improving nitrogen fertilization in rice by sitespecific N management. A review. *Agronomy for Sustainable Development*, **2010**, 30, 649-656	6.8	320
379	Agricultural non-point source pollution in China: causes and mitigation measures. *Ambio*, **2012**, 41, 370-9	6.5	308
378	Long-term experiments for sustainable nutrient management in China. A review. *Agronomy for Sustainable Development*, **2011**, 31, 397-414	6.8	299
377	Wheat/maize or wheat/soybean strip intercropping. *Field Crops Research*, **2001**, 71, 123-137	5.5	297
376	Involvement of miR169 in the nitrogen-starvation responses in Arabidopsis. *New Phytologist*, **2011**, 190, 906-915	9.8	268
375	Closing yield gaps in China by empowering smallholder farmers. *Nature*, **2016**, 537, 671-674	50.4	261

374	Nitrogen dynamics and budgets in a winter wheat–maize cropping system in the North China Plain. *Field Crops Research*, **2003**, 83, 111-124	5.5	260
373	Chinese agriculture: An experiment for the world. *Nature*, **2013**, 497, 33-5	50.4	244
372	Root distribution and interactions between intercropped species. *Oecologia*, **2006**, 147, 280-90	2.9	242
371	Effect of Si on the distribution of Cd in rice seedlings. *Plant and Soil*, **2005**, 272, 53-60	4.2	234
370	P for two, sharing a scarce resource: soil phosphorus acquisition in the rhizosphere of intercropped species. *Plant Physiology*, **2011**, 156, 1078-86	6.6	233
369	Integrated soil-crop system management: reducing environmental risk while increasing crop productivity and improving nutrient use efficiency in China. *Journal of Environmental Quality*, **2011**, 40, 1051-7	3.4	225
368	Nitrogen fertilization, soil nitrate accumulation, and policy recommendations in several agricultural regions of China. *Ambio*, **2004**, 33, 300-5	6.5	204
367	Current nitrogen management status and measures to improve the intensive wheat-maize system in China. *Ambio*, **2010**, 39, 376-84	6.5	203
366	The critical soil P levels for crop yield, soil fertility and environmental safety in different soil types. *Plant and Soil*, **2013**, 372, 27-37	4.2	191
365	Long-term accumulation and transport of anthropogenic phosphorus in three river basins. *Nature Geoscience*, **2016**, 9, 353-356	18.3	188
364	Increased yield potential of wheat-maize cropping system in the North China Plain by climate change adaptation. *Climatic Change*, **2012**, 113, 825-840	4.5	183
363	Understanding production potentials and yield gaps in intensive maize production in China. *Field Crops Research*, **2013**, 143, 91-97	5.5	182
362	Maximizing root/rhizosphere efficiency to improve crop productivity and nutrient use efficiency in intensive agriculture of China. *Journal of Experimental Botany*, **2013**, 64, 1181-92	7	180
361	Integrated Nutrient Management for Food Security and Environmental Quality in China. *Advances in Agronomy*, **2012**, 1-40	7.7	178
360	Silicon Decreases Transpiration Rate and Conductance from Stomata of Maize Plants. *Journal of Plant Nutrition*, **2006**, 29, 1637-1647	2.3	178
359	Inhibition of maize root growth by high nitrate supply is correlated with reduced IAA levels in roots. *Journal of Plant Physiology*, **2008**, 165, 942-51	3.6	176
358	On-farm evaluation of an in-season nitrogen management strategy based on soil Nmin test. *Field Crops Research*, **2008**, 105, 48-55	5.5	175
357	Interspecific complementary and competitive interactions between intercropped maize and faba bean. *Plant and Soil*, **1999**, 212, 105-114	4.2	171

356	Carbon and phosphorus exchange may enable cooperation between an arbuscular mycorrhizal fungus and a phosphate-solubilizing bacterium. *New Phytologist*, **2016**, 210, 1022-32	9.8	160
355	Soil and crop management strategies to prevent iron deficiency in crops. *Plant and Soil*, **2011**, 339, 83-95	4.2	143
354	Influence of long-term nitrogen fertilization on micronutrient density in grain of winter wheat (Triticum aestivum L.). *Journal of Cereal Science*, **2010**, 51, 165-170	3.8	142
353	Evidence for organic N deposition and its anthropogenic sources in China. *Atmospheric Environment* , **2008**, 42, 1035-1041	5.3	142
352	China's livestock transition: Driving forces, impacts, and consequences. *Science Advances*, **2018**, 4, eaar8534	13.3	137
351	On-Farm Evaluation of the Improved Soil Nmin-Based Nitrogen Management for Summer Maize in North China Plain. *Agronomy Journal*, **2008**, 100, 517-525	2.2	135
350	Interspecific facilitation of nutrient uptake by intercropped maize and faba bean. *Nutrient Cycling in Agroecosystems*, **2003**, 65, 61-71	3.3	135
349	Rhizosphere Processes and Management for Improving Nutrient Use Efficiency and Crop Productivity. *Advances in Agronomy*, **2010**, 1-32	7.7	132
348	Processes and factors controlling N□O production in an intensively managed low carbon calcareous soil under sub-humid monsoon conditions. *Environmental Pollution*, **2011**, 159, 1007-16	9.3	128
347	Silicon Improves Water Use Efficiency in Maize Plants. *Journal of Plant Nutrition*, **2005**, 27, 1457-1470	2.3	128
346	Sustainable phosphorus management and the need for a long-term perspective: the legacy hypothesis. *Environmental Science & Technology*, **2014**, 48, 8417-9	10.3	126
345	Closing the yield gap could reduce projected greenhouse gas emissions: a case study of maize production in China. *Global Change Biology*, **2013**, 19, 2467-77	11.4	124
344	In-season nitrogen management strategy for winter wheat: Maximizing yields, minimizing environmental impact in an over-fertilization context. *Field Crops Research*, **2010**, 116, 140-146	5.5	124
343	Rhizosphere effect and root growth of two maize (Zea mays L.) genotypes with contrasting P efficiency at low P availability. *Plant Science*, **2004**, 167, 217-223	5.3	123
342	Nitrogen Fixation of Faba Bean (Vicia faba L.) Interacting with a Non-legume in Two Contrasting Intercropping Systems. *Plant and Soil*, **2006**, 283, 275-286	4.2	122
341	Chickpea facilitates phosphorus uptake by intercropped wheat from an organic phosphorus source. *Plant and Soil*, **2003**, 248, 297-303	4.2	122
340	Grain yields in relation to N requirement: Optimizing nitrogen management for spring maize grown in China. *Field Crops Research*, **2012**, 129, 1-6	5.5	121
339	Studies on the improvement in iron nutrition of peanut by intercropping with maize on a calcareous soil. *Plant and Soil*, **2000**, 220, 13-25	4.2	120

338	Addressing China's grand challenge of achieving food security while ensuring environmental sustainability. *Science Advances*, **2015**, 1, e1400039	14.3	118
337	Effect of iron plaque outside roots on nutrient uptake by rice (Oryza sativa L.). Zinc uptake by Fe-deficient rice. *Plant and Soil*, **1998**, 202, 33-39	4.2	118
336	Closing the N-use efficiency gap to achieve food and environmental security. *Environmental Science & Technology*, **2014**, 48, 5780-7	10.3	116
335	Effect of root contact on interspecific competition and N transfer between wheat and fababean using direct and indirect 15N techniques. *Plant and Soil*, **2004**, 262, 45-54	4.2	115
334	Nitrogen, Phosphorus, and Potassium Flows through the Manure Management Chain in China. *Environmental Science & Technology*, **2016**, 50, 13409-13418	10.3	114
333	Hyphosphere interactions between an arbuscular mycorrhizal fungus and a phosphate solubilizing bacterium promote phytate mineralization in soil. *Soil Biology and Biochemistry*, **2014**, 74, 177-183	7.5	112
332	Alarming nutrient pollution of Chinese rivers as a result of agricultural transitions. *Environmental Research Letters*, **2016**, 11, 024014	6.2	108
331	Alternative cropping systems for sustainable water and nitrogen use in the North China Plain. *Agriculture, Ecosystems and Environment*, **2012**, 146, 93-102	5.7	108
330	Modern maize hybrids in Northeast China exhibit increased yield potential and resource use efficiency despite adverse climate change. *Global Change Biology*, **2013**, 19, 923-36	11.4	108
329	An Analysis of China's Fertilizer Policies: Impacts on the Industry, Food Security, and the Environment. *Journal of Environmental Quality*, **2013**, 42, 972-81	3.4	107
328	Enhanced-efficiency fertilizers are not a panacea for resolving the nitrogen problem. *Global Change Biology*, **2018**, 24, e511-e521	11.4	106
327	Effects of combined application of organic amendments and fertilizers on crop yield and soil organic matter: An integrated analysis of long-term experiments. *Agriculture, Ecosystems and Environment*, **2016**, 225, 86-92	5.7	106
326	Phosphorus in China's Intensive Vegetable Production Systems: Overfertilization, Soil Enrichment, and Environmental Implications. *Journal of Environmental Quality*, **2013**, 42, 982-9	3.4	104
325	Genetic Analysis of Maize Root Characteristics in Response to Low Nitrogen Stress. *Plant and Soil*, **2005**, 276, 369-382	4.2	103
324	Wheat/maize or wheat/soybean strip intercropping. *Field Crops Research*, **2001**, 71, 173-181	5.5	103
323	Environmental assessment of management options for nutrient flows in the food chain in China. *Environmental Science & Technology*, **2013**, 47, 7260-8	10.3	102
322	Shoot growth potential drives N uptake in maize plants and correlates with root growth in the soil. *Field Crops Research*, **2010**, 115, 85-93	5.5	102
321	Quantifying the total airborne nitrogen input into agroecosystems in the North China Plain. *Agriculture, Ecosystems and Environment*, **2007**, 121, 395-400	5.7	100

320	Identification of quantitative trait locus of zinc and phosphorus density in wheat (Triticum aestivum L.) grain. *Plant and Soil*, **2008**, 306, 95-104	4.2	100
319	Ideotype root architecture for efficient nitrogen acquisition by maize in intensive cropping systems. *Science China Life Sciences*, **2010**, 53, 1369-73	8.5	99
318	Dynamics of phosphorus fractions in the rhizosphere of common bean (Phaseolus vulgaris L.) and durum wheat (Triticum turgidum durum L.) grown in monocropping and intercropping systems. *Plant and Soil*, **2008**, 312, 139-150	4.2	99
317	Efficiency, economics, and environmental implications of phosphorus resource use and the fertilizer industry in China. *Nutrient Cycling in Agroecosystems*, **2008**, 80, 131-144	3.3	96
316	Major Crop Species Show Differential Balance between Root Morphological and Physiological Responses to Variable Phosphorus Supply. *Frontiers in Plant Science*, **2016**, 7, 1939	6.2	96
315	Increased soil phosphorus availability induced by faba bean root exudation stimulates root growth and phosphorus uptake in neighbouring maize. *New Phytologist*, **2016**, 209, 823-31	9.8	96
314	Past, present, and future use of phosphorus in Chinese agriculture and its influence on phosphorus losses. *Ambio*, **2015**, 44 Suppl 2, S274-85	6.5	95
313	Effect of iron plaque outside roots on nutrient uptake by rice (Oryza sativa L.): Phosphorus uptake. *Plant and Soil*, **1999**, 209, 187-192	4.2	95
312	Nitrous oxide emissions from an intensively managed greenhouse vegetable cropping system in Northern China. *Environmental Pollution*, **2009**, 157, 1666-72	9.3	94
311	Phosphorus uptake and rhizosphere properties of intercropped and monocropped maize, faba bean, and white lupin in acidic soil. *Biology and Fertility of Soils*, **2010**, 46, 79-91	6.1	93
310	A genetic relationship between nitrogen use efficiency and seedling root traits in maize as revealed by QTL analysis. *Journal of Experimental Botany*, **2015**, 66, 3175-88	7	90
309	In-season root-zone N management for mitigating greenhouse gas emission and reactive N losses in intensive wheat production. *Environmental Science & Technology*, **2013**, 47, 6015-22	10.3	87
308	Potassium nutrition of crops under varied regimes of nitrogen supply. *Plant and Soil*, **2010**, 335, 21-34	4.2	87
307	Syndromes of production in intercropping impact yield gains. *Nature Plants*, **2020**, 6, 653-660	11.5	86
306	Gross Nitrogen Transformations and Related Nitrous Oxide Emissions in an Intensively Used Calcareous Soil. *Soil Science Society of America Journal*, **2009**, 73, 102-112	2.5	86
305	Response of Root Morphology to Nitrate Supply and its Contribution to Nitrogen Accumulation in Maize. *Journal of Plant Nutrition*, **2005**, 27, 2189-2202	2.3	86
304	Benefits and trade-offs of replacing synthetic fertilizers by animal manures in crop production in China: A meta-analysis. *Global Change Biology*, **2020**, 26, 888-900	11.4	86
303	Importing food damages domestic environment: Evidence from global soybean trade. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5415-5419	11.5	82

302	Mapping QTLs for root traits under different nitrate levels at the seedling stage in maize (Zea mays L.). *Plant and Soil*, **2008**, 305, 253-265	4.2	81
301	Active canopy sensor-based precision N management strategy for rice. *Agronomy for Sustainable Development*, **2012**, 32, 925-933	6.8	79
300	Estimating N status of winter wheat using a handheld spectrometer in the North China Plain. *Field Crops Research*, **2008**, 106, 77-85	5.5	79
299	Evaluation of NASA Satellite- and Model-Derived Weather Data for Simulation of Maize Yield Potential in China. *Agronomy Journal*, **2010**, 102, 9-16	2.2	78
298	Nitrous oxide and methane emissions from optimized and alternative cereal cropping systems on the North China Plain: a two-year field study. *Science of the Total Environment*, **2014**, 472, 112-24	10.2	77
297	Mapping QTLs for root system architecture of maize (Zea mays L.) in the field at different developmental stages. *Theoretical and Applied Genetics*, **2012**, 125, 1313-24	6	77
296	Grain production versus resource and environmental costs: towards increasing sustainability of nutrient use in China. *Journal of Experimental Botany*, **2016**, 67, 4935-49	7	74
295	Evidence for a Historic Change Occurring in China. *Environmental Science & Technology*, **2016**, 50, 505-6	10.3	72
294	Spatio-temporal patterns of air pollution in China from 2015 to 2018 and implications for health risks. *Environmental Pollution*, **2020**, 258, 113659	9.3	72
293	Root morphological responses to localized nutrient supply differ among crop species with contrasting root traits. *Plant and Soil*, **2014**, 376, 151-163	4.2	71
292	Effect of a new urease inhibitor on ammonia volatilization and nitrogen utilization in wheat in north and northwest China. *Field Crops Research*, **2015**, 175, 96-105	5.5	71
291	From Flooded to Aerobic Conditions in Rice Cultivation: Consequences for Zinc Uptake. *Plant and Soil*, **2006**, 280, 41-47	4.2	71
290	Silicon induced cadmium tolerance of rice seedlings. *Journal of Plant Nutrition*, **2000**, 23, 1397-1406	2.3	71
289	Yield and N use efficiency of a maize–wheat cropping system as affected by different fertilizer management strategies in a farmer's field of the North China Plain. *Field Crops Research*, **2015**, 174, 30-39	5.5	70
288	Soil organic carbon and total nitrogen in intensively managed arable soils. *Agriculture, Ecosystems and Environment*, **2012**, 150, 102-110	5.7	70
287	Transforming agriculture in China: From solely high yield to both high yield and high resource use efficiency. *Global Food Security*, **2013**, 2, 1-8	8.3	69
286	Model-Based Analysis of the Long-Term Effects of Fertilization Management on Cropland Soil Acidification. *Environmental Science & Technology*, **2017**, 51, 3843-3851	10.3	67
285	Soil nitrate-N levels required for high yield maize production in the North China Plain. *Nutrient Cycling in Agroecosystems*, **2008**, 82, 187-196	3.3	66

284	Mycorrhizal responsiveness of maize (Zea mays L.) genotypes as related to releasing date and available P content in soil. *Mycorrhiza*, **2013**, 23, 497-505	3.9	65
283	Impacts of urban expansion on nitrogen and phosphorus flows in the food system of Beijing from 1978 to 2008. *Global Environmental Change*, **2014**, 28, 192-204	10.1	64
282	Do lignification and silicification of the cell wall precede silicon deposition in the silica cell of the rice (Oryza sativa L.) leaf epidermis?. *Plant and Soil*, **2013**, 372, 137-149	4.2	64
281	Molecular evidence for phytosiderophore-induced improvement of iron nutrition of peanut intercropped with maize in calcareous soil. *Plant, Cell and Environment*, **2013**, 36, 1888-902	8.4	64
280	Nitrogen flow and use efficiency in production and utilization of wheat, rice, and maize in China. *Agricultural Systems*, **2008**, 99, 53-63	6.1	64
279	Mycorrhizal responsiveness of aerobic rice genotypes is negatively correlated with their zinc uptake when nonmycorrhizal. *Plant and Soil*, **2007**, 290, 283-291	4.2	64
278	Nitrogen dynamics, apparent mineralization and balance calculations in a maize–wheat double cropping system of the North China Plain. *Field Crops Research*, **2014**, 160, 22-30	5.5	62
277	Changes of nitrogen deposition in China from 1980 to 2018. *Environment International*, **2020**, 144, 106022	12.9	62
276	A comprehensive analysis of root morphological changes and nitrogen allocation in maize in response to low nitrogen stress. *Plant, Cell and Environment*, **2015**, 38, 740-50	8.4	61
275	Air quality improvement in a megacity: implications from 2015 Beijing Parade Blue pollution control actions. *Atmospheric Chemistry and Physics*, **2017**, 17, 31-46	6.8	61
274	Shading decreases plant carbon preferential allocation towards the most beneficial mycorrhizal mutualist. *New Phytologist*, **2015**, 205, 361-8	9.8	61
273	Crop production, nitrogen recovery and water use efficiency in rice–wheat rotation as affected by non-flooded mulching cultivation (NFMC). *Nutrient Cycling in Agroecosystems*, **2005**, 71, 289-299	3.3	61
272	The impact of alternative cropping systems on global warming potential, grain yield and groundwater use. *Agriculture, Ecosystems and Environment*, **2015**, 203, 46-54	5.7	60
271	Phosphorus pools and other soil properties in the rhizosphere of wheat and legumes growing in three soils in monoculture or as a mixture of wheat and legume. *Plant and Soil*, **2012**, 354, 283-298	4.2	60
270	Magnesium Fertilization Improves Crop Yield in Most Production Systems: A Meta-Analysis. *Frontiers in Plant Science*, **2019**, 10, 1727	6.2	59
269	Root size and nitrogen-uptake activity in two maize (Zea mays) inbred lines differing in nitrogen-use efficiency. *Journal of Plant Nutrition and Soil Science*, **2009**, 172, 230-236	2.3	59
268	Molecular diversity of arbuscular mycorrhizal fungi associated with two co-occurring perennial plant species on a Tibetan altitudinal gradient. *Mycorrhiza*, **2014**, 24, 95-107	3.9	58
267	Change in soil available phosphorus in relation to the phosphorus budget in China. *Nutrient Cycling in Agroecosystems*, **2012**, 94, 161-170	3.3	58

266	Nitrogen Uptake and Remobilization in Maize Hybrids Differing in Leaf Senescence. *Journal of Plant Nutrition*, **2003**, 26, 237-247	2.3	58
265	Localized application of NH4 +-N plus P at the seedling and later growth stages enhances nutrient uptake and maize yield by inducing lateral root proliferation. *Plant and Soil*, **2013**, 372, 65-80	4.2	57
264	Carbon footprint of grain production in China. *Scientific Reports*, **2017**, 7, 4126	4.9	57
263	Critical Nitrogen Dilution Curve for Optimizing Nitrogen Management of Winter Wheat Production in the North China Plain. *Agronomy Journal*, **2012**, 104, 523-529	2.2	57
262	Modeling soil acidification in typical Chinese cropping systems. *Science of the Total Environment*, **2018**, 613-614, 1339-1348	10.2	53
261	Senescence-induced iron mobilization in source leaves of barley (Hordeum vulgare) plants. *New Phytologist*, **2012**, 195, 372-383	9.8	53
260	Improving zinc bioavailability in transition from flooded to aerobic rice. A review. *Agronomy for Sustainable Development*, **2012**, 32, 465-478	6.8	53
259	Phosphorus flows and use efficiencies in production and consumption of wheat, rice, and maize in China. *Chemosphere*, **2011**, 84, 814-21	8.4	53
258	On-Farm Evaluation of Winter Wheat Yield Response to Residual Soil Nitrate-N in North China Plain. *Agronomy Journal*, **2008**, 100, 1527-1534	2.2	53
257	Effect of peanut mixed cropping with gramineous species on micronutrient concentrations and iron chlorosis of peanut plants grown in a calcareous soil. *Plant and Soil*, **2008**, 306, 23-36	4.2	52
256	An analysis of China's grain production: looking back and looking forward. *Food and Energy Security*, **2014**, 3, 19-32	4.1	51
255	Nitrogen input, 15N balance and mineral N dynamics in a rice□wheat rotation in southwest China. *Nutrient Cycling in Agroecosystems*, **2007**, 79, 255-265	3.3	51
254	Enhanced acidification in Chinese croplands as derived from element budgets in the period 1980-2010. *Science of the Total Environment*, **2018**, 618, 1497-1505	10.2	50
253	The benefits of recent warming for maize production in high latitude China. *Climatic Change*, **2014**, 122, 341-349	4.5	50
252	Interactions between non-flooded mulching cultivation and varying nitrogen inputs in rice□wheat rotations. *Field Crops Research*, **2005**, 91, 307-318	5.5	50
251	Intercropping maize and soybean increases efficiency of land and fertilizer nitrogen use; A meta-analysis. *Field Crops Research*, **2020**, 246, 107661	5.5	50
250	The contribution of atmospheric deposition and forest harvesting to forest soil acidification in China since 1980. *Atmospheric Environment*, **2016**, 146, 215-222	5.3	48
249	Spatial□emporal patterns of inorganic nitrogen air concentrations and deposition in eastern China. *Atmospheric Chemistry and Physics*, **2018**, 18, 10931-10954	6.8	48

248	Managing Agricultural Nutrients for Food Security in China: Past, Present, and Future. *Agronomy Journal*, **2014**, 106, 191-198	2.2	47
247	Nitrogen deposition and its contribution to nutrient inputs to intensively managed agricultural ecosystems **2010**, 20, 80-90		47
246	Spatial and temporal variation of atmospheric nitrogen deposition in the North China Plain. *Acta Ecologica Sinica*, **2006**, 26, 1633-1638	2.7	47
245	Mechanisms and modelling of phosphorus solid–liquid transformation during the hydrothermal processing of swine manure. *Green Chemistry*, **2020**, 22, 5628-5638	10	46
244	Nitrogen mass flow in China's animal production system and environmental implications. *Journal of Environmental Quality*, **2010**, 39, 1537-44	3.4	46
243	A preliminary precision rice management system for increasing both grain yield and nitrogen use efficiency. *Field Crops Research*, **2013**, 154, 23-30	5.5	45
242	Crop Mixtures and the Mechanisms of Overyielding **2013**, 382-395		45
241	Auxin transport in maize roots in response to localized nitrate supply. *Annals of Botany*, **2010**, 106, 1019-26	4.2	45
240	Tolerance to Zinc Deficiency in Rice Correlates with Zinc Uptake and Translocation. *Plant and Soil*, **2005**, 278, 253-261	4.2	45
239	Triangular Transplanting Pattern and Split Nitrogen Fertilizer Application Increase Rice Yield and Nitrogen Fertilizer Recovery. *Agronomy Journal*, **2009**, 101, 1421-1425	2.2	44
238	Possible Involvement of Cytokinin in Nitrate-mediated Root Growth in Maize. *Plant and Soil*, **2005**, 277, 185-196	4.2	44
237	Crop Yields, Internal Nutrient Efficiency, and Changes in Soil Properties in Rice–Wheat Rotations Under Non-Flooded Mulching Cultivation. *Plant and Soil*, **2005**, 277, 265-276	4.2	44
236	Interactions between light intensity and phosphorus nutrition affect the phosphate-mining capacity of white lupin (Lupinus albus L.). *Journal of Experimental Botany*, **2014**, 65, 2995-3003	7	43
235	Air quality, nitrogen use efficiency and food security in China are improved by cost-effective agricultural nitrogen management. *Nature Food*, **2020**, 1, 648-658	14.4	43
234	Comparative proteomic analysis for assessment of the ecological significance of maize and peanut intercropping. *Journal of Proteomics*, **2013**, 78, 447-60	3.9	41
233	On-farm estimation of indigenous nitrogen supply for site-specific nitrogen management in the North China plain. *Nutrient Cycling in Agroecosystems*, **2008**, 81, 37-47	3.3	41
232	Characterization of phosphorus in animal manures collected from three (dairy, swine, and broiler) farms in China. *PLoS ONE*, **2014**, 9, e102698	3.7	41
231	Reducing nitrogen leaching in a subtropical vegetable system. *Agriculture, Ecosystems and Environment*, **2017**, 241, 133-141	5.7	40

230	Intercropping cereals with faba bean reduces plant disease incidence regardless of fertilizer input; a meta-analysis. *European Journal of Plant Pathology*, **2019**, 154, 931-942	2.1	40
229	Is there a critical level of shoot phosphorus concentration for cluster-root formation in Lupinus albus?. *Functional Plant Biology*, **2008**, 35, 328-336	2.7	40
228	Micronutrient Deficiencies in Crop Production in China **2008**, 127-148		39
227	Use of Digital Camera to Assess Nitrogen Status of Winter Wheat in the Northern China Plain. *Journal of Plant Nutrition*, **2004**, 27, 441-450	2.3	39
226	Shift from complementarity to facilitation on P uptake by intercropped wheat neighboring with faba bean when available soil P is depleted. *Scientific Reports*, **2016**, 6, 18663	4.9	39
225	Is the inherent potential of maize roots efficient for soil phosphorus acquisition?. *PLoS ONE*, **2014**, 9, e90287	3.7	38
224	Change in Nitrogen Requirement with Increasing Grain Yield for Winter Wheat. *Agronomy Journal*, **2012**, 104, 1687-1693	2.2	37
223	Changes in phosphorus use and losses in the food chain of China during 1950–2010 and forecasts for 2030. *Nutrient Cycling in Agroecosystems*, **2016**, 104, 361-372	3.3	36
222	Interaction between genotypic difference and nitrogen management strategy in determining nitrogen use efficiency of summer maize. *Plant and Soil*, **2009**, 317, 267-276	4.2	36
221	Soil pH is the main factor influencing growth and rhizosphere properties of wheat following different pre-crops. *Plant and Soil*, **2012**, 360, 271-286	4.2	35
220	Effects of litter incorporation and nitrogen fertilization on the contents of extractable aluminium in the rhizosphere soil of tea plant (Camallia sinensis (L.) O. Kuntze). *Plant and Soil*, **2004**, 263, 283-296	4.2	35
219	How China's nitrogen footprint of food has changed from 1961 to 2010. *Environmental Research Letters*, **2017**, 12, 104006	6.2	34
218	Linking plant identity and interspecific competition to soil nitrogen cycling through ammonia oxidizer communities. *Soil Biology and Biochemistry*, **2011**, 43, 46-54	7.5	34
217	Iron Nutrition of Peanut Enhanced by Mixed Cropping with Maize: Possible Role of Root Morphology and Rhizosphere Microflora. *Journal of Plant Nutrition*, **2003**, 26, 2093-2110	2.3	34
216	Improving nitrogen use efficiency with minimal environmental risks using an active canopy sensor in a wheat-maize cropping system. *Field Crops Research*, **2017**, 214, 365-372	5.5	33
215	In situ stable isotope probing of phosphate-solubilizing bacteria in the hyphosphere. *Journal of Experimental Botany*, **2016**, 67, 1689-701	7	33
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