

Fusuo Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Common mycorrhizal networks asymmetrically improve chickpea N and P acquisition and cause overyielding by a millet/chickpea mixture. <i>Plant and Soil</i> , 2022 , 472, 279	4.2	1
390	Overlooked Nonagricultural and Wintertime Agricultural NH ₃ Emissions in Quzhou County, North China Plain: Evidence from 15N-Stable Isotopes. <i>Environmental Science and Technology Letters</i> , 2022 , 9, 127-133	11	4
389	Harnessing root-foraging capacity to improve nutrient-use efficiency for sustainable maize production. <i>Field Crops Research</i> , 2022 , 279, 108462	5.5	2
388	Global reactive nitrogen loss in orchard systems: A review.. <i>Science of the Total Environment</i> , 2022 , 821, 153462	10.2	2
387	How to identify and adopt cleaner strategies to improve the continuous acidification in orchard soils?. <i>Journal of Cleaner Production</i> , 2022 , 330, 129826	10.3	1
386	Genome-Resolved Metagenomics Reveals Distinct Phosphorus Acquisition Strategies between Soil Microbiomes.. <i>MSystems</i> , 2022 , e0110721	7.6	2
385	Mitigating magnesium deficiency for sustainable citrus production: A case study in Southwest China. <i>Scientia Horticulturae</i> , 2022 , 295, 110832	4.1	1
384	A conceptual framework and an empirical test of complementarity and facilitation with respect to phosphorus uptake by plant species mixtures. <i>Pedosphere</i> , 2022 , 32, 317-329	5	2
383	Calculation of spatially explicit amounts and intervals of agricultural lime applications at county-level in China. <i>Science of the Total Environment</i> , 2022 , 806, 150955	10.2	0
382	Long-term excessive phosphorus fertilization alters soil phosphorus fractions in the acidic soil of pomelo orchards. <i>Soil and Tillage Research</i> , 2022 , 215, 105214	6.5	6
381	Quantifying drivers of soil acidification in three Chinese cropping systems. <i>Soil and Tillage Research</i> , 2022 , 215, 105230	6.5	4
380	Localized nutrient supply can facilitate root proliferation and increase nitrogen-use efficiency in compacted soil. <i>Soil and Tillage Research</i> , 2022 , 215, 105198	6.5	0
379	Toward the sustainable use of mineral phosphorus fertilizers for crop production in China: From primary resource demand to final agricultural use. <i>Science of the Total Environment</i> , 2022 , 804, 150183	10.2	5
378	Mitigating phosphorus pollution from detergents in the surface waters of China. <i>Science of the Total Environment</i> , 2022 , 804, 150125	10.2	1
377	Genome-resolved metagenomics identifies the particular genetic traits of phosphate-solubilizing bacteria in agricultural soil. <i>ISME Communications</i> , 2022 , 2,		2
376	Barriers to the Development of Agricultural Mechanization in the North and Northeast China Plains: A Farmer Survey. <i>Agriculture (Switzerland)</i> , 2022 , 12, 287	3	2
375	Ensuring future food security and resource sustainability: insights into the rhizosphere.. <i>IScience</i> , 2022 , 25, 104168	6.1	0

374	Reconciling productivity, profitability and sustainability of small-holder sugarcane farms: A combined life cycle and data envelopment analysis. <i>Agricultural Systems</i> , 2022 , 199, 103392	6.1	2
373	Closing of the yield gap can be achieved without groundwater extraction in Chinese wheat production. <i>Global Food Security</i> , 2022 , 33, 100630	8.3	0
372	International trade reduces global phosphorus demand but intensifies the imbalance in local consumption.. <i>Science of the Total Environment</i> , 2022 , 154484	10.2	2
371	Responsible plant nutrition: A new paradigm to support food system transformation. <i>Global Food Security</i> , 2022 , 33, 100636	8.3	2
370	Effects of plastic residues and microplastics on soil ecosystems: A global meta-analysis. <i>Journal of Hazardous Materials</i> , 2022 , 129065	12.8	3
369	Towards Balanced Fertilizer Management in South China: Enhancing Wax Gourd (<i>Benincasa hispida</i>) Yield and Produce Quality. <i>Sustainability</i> , 2022 , 14, 5646	3.6	0
368	Intercropping modulates the accumulation and translocation of dry matter and nitrogen in maize and peanut. <i>Field Crops Research</i> , 2022 , 284, 108561	5.5	1
367	Nitrogen losses from food production in the North China Plain: A case study for Quzhou. <i>Science of the Total Environment</i> , 2021 , 816, 151557	10.2	3
366	TRANSFORMATION OF AGRICULTURE ON THE LOESS PLATEAU OF CHINA TOWARD GREEN DEVELOPMENT. <i>Frontiers of Agricultural Science and Engineering</i> , 2021 , 8, 491	1.7	1
365	Multi-pollutant assessment of river pollution from livestock production worldwide.. <i>Water Research</i> , 2021 , 209, 117906	12.5	1
364	Using knowledge-based management for sustainable phosphorus use in China.. <i>Science of the Total Environment</i> , 2021 , 814, 152739	10.2	2
363	Targeting Hotspots to Achieve Sustainable Nitrogen Management in China's Smallholder-Dominated Cereal Production. <i>Agronomy</i> , 2021 , 11, 557	3.6	2
362	Changes in soil phosphorus fractions in response to long-term phosphate fertilization under sole cropping and intercropping of maize and faba bean on a calcareous soil. <i>Plant and Soil</i> , 2021 , 463, 589	4.2	1
361	Mitigation of Multiple Environmental Footprints for China's Pig Production Using Different Land Use Strategies. <i>Environmental Science & Technology</i> , 2021 , 55, 4440-4451	10.3	1
360	The economic-environmental trade-off of growing apple trees in the drylands of China: A conceptual framework for sustainable intensification. <i>Journal of Cleaner Production</i> , 2021 , 296, 126497	10.3	8
359	Complementarity and facilitation with respect to P acquisition do not drive overyielding by intercropping. <i>Field Crops Research</i> , 2021 , 265, 108127	5.5	2
358	Methodology of Analyzing Maize Density Loss in Smallholder's Fields and Potential Optimize Approach. <i>Agriculture (Switzerland)</i> , 2021 , 11, 480	3	1
357	Optimization of China's maize and soy production can ensure feed sufficiency at lower nitrogen and carbon footprints. <i>Nature Food</i> , 2021 , 2, 426-433	14.4	11

- 356 Atmospheric nitrogen deposition: A review of quantification methods and its spatial pattern derived from the global monitoring networks. *Ecotoxicology and Environmental Safety*, **2021**, 216, 112180 6
- 355 Optimizing wheat production and reducing environmental impacts through scientist-farmer engagement: Lessons from the North China Plain. *Food and Energy Security*, **2021**, 10, e255 4.1 4
- 354 Global direct nitrous oxide emissions from the bioenergy crop sugarcane (*Saccharum* spp. inter-specific hybrids). *Science of the Total Environment*, **2021**, 752, 141795 10.2 13
- 353 Replacing synthetic fertilizer by manure requires adjusted technology and incentives: A farm survey across China. *Resources, Conservation and Recycling*, **2021**, 168, 105301 11.9 12
- 352 Soil microbial legacy drives crop diversity advantage: Linking ecological plant-soil feedback with agricultural intercropping. *Journal of Applied Ecology*, **2021**, 58, 496-506 5.8 10
- 351 Breeding for high-yield and nitrogen use efficiency in maize: Lessons from comparison between Chinese and US cultivars. *Advances in Agronomy*, **2021**, 251-275 7.7 4
- 350 Innovative management programme reduces environmental impacts in Chinese vegetable production. *Nature Food*, **2021**, 2, 47-53 14.4 17
- 349 Intercropping legumes and cereals increases phosphorus use efficiency; a meta-analysis. *Plant and Soil*, **2021**, 460, 89-104 4.2 10
- 348 Challenges and strategies for agricultural green development in the Yangtze River Basin. *Journal of Integrative Environmental Sciences*, **2021**, 18, 37-54 3 5
- 347 Evaluation of Sustainability of Irrigated Crops in Arid Regions, China. *Sustainability*, **2021**, 13, 342 3.6
- 346 The importance of aboveground and belowground interspecific interactions in determining crop growth and advantages of peanut/maize intercropping. *Crop Journal*, **2021**, 9, 1460-1460 4.6 4
- 345 GREEN AGRICULTURE AND BLUE WATER IN CHINA: REINTEGRATING CROP AND LIVESTOCK PRODUCTION FOR CLEAN WATER. *Frontiers of Agricultural Science and Engineering*, **2021**, 8, 72 1.7 3
- 344 Microbial metabolic response to winter warming stabilizes soil carbon. *Global Change Biology*, **2021**, 27, 2011-2028 11.4 12
- 343 Food Consumption and Dietary Patterns of Local Adults Living on the Tibetan Plateau: Results from 14 Countries along the Yarlung Tsangpo River. *Nutrients*, **2021**, 13, 6.7 2
- 342 What are the key factors affecting maize yield response to and agronomic efficiency of phosphorus fertilizer in China?. *Field Crops Research*, **2021**, 270, 108221 5.5 3
- 341 Interspecific interactions of iron and nitrogen use in peanut (*Arachis hypogaea* L.)-maize (*Zea mays* L.) intercropping on a calcareous soil. *European Journal of Agronomy*, **2021**, 128, 126303 5 4
- 340 A steady-state N balance approach for sustainable smallholder farming. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, 11.5 6
- 339 Deciphering microbial mechanisms underlying soil organic carbon storage in a wheat-maize rotation system. *Science of the Total Environment*, **2021**, 788, 147798 10.2 3

338	Metagenomic insights into nitrogen and phosphorus cycling at the soil aggregate scale driven by organic material amendments. <i>Science of the Total Environment</i> , 2021 , 785, 147329	10.2	6
337	Cover crops promote primary crop yield in China: A meta-regression of factors affecting yield gain. <i>Field Crops Research</i> , 2021 , 271, 108237	5.5	3
336	Identifying the main crops and key factors determining the carbon footprint of crop production in China, 2001–2018. <i>Resources, Conservation and Recycling</i> , 2021 , 172, 105661	11.9	15
335	Phosphorus flow analysis for megacities using a coupled city-hinterland approach: Case study of Beijing. <i>Journal of Cleaner Production</i> , 2021 , 320, 128866	10.3	
334	Improving the sustainability of the wheat supply chain through multi-stakeholder engagement. <i>Journal of Cleaner Production</i> , 2021 , 321, 128837	10.3	0
333	Model-based analysis of phosphorus flows in the food chain at county level in China and options for reducing the losses towards green development. <i>Environmental Pollution</i> , 2021 , 288, 117768	9.3	0
332	Integrated use of lime with Mg fertilizer significantly improves the pomelo yield, quality, economic returns and soil physicochemical properties under acidic soil of southern China. <i>Scientia Horticulturae</i> , 2021 , 290, 110502	4.1	2
331	INTEGRATING CROP AND LIVESTOCK PRODUCTION SYSTEMS TOWARDS AGRICULTURAL GREEN DEVELOPMENT. <i>Frontiers of Agricultural Science and Engineering</i> , 2021 , 8, 1	1.7	2
330	Green Food Development in China: Experiences and Challenges. <i>Agriculture (Switzerland)</i> , 2020 , 10, 614	3	9
329	Syndromes of production in intercropping impact yield gains. <i>Nature Plants</i> , 2020 , 6, 653-660	11.5	86
328	Improving potential of nitrogen linked gray water footprint in China's intensive cropping systems. <i>Journal of Cleaner Production</i> , 2020 , 269, 122307	10.3	1
327	Impacts of nitrogen fertilizer type and application rate on soil acidification rate under a wheat-maize double cropping system. <i>Journal of Environmental Management</i> , 2020 , 270, 110888	7.9	25
326	Soil plant-available phosphorus levels and maize genotypes determine the phosphorus acquisition efficiency and contribution of mycorrhizal pathway. <i>Plant and Soil</i> , 2020 , 449, 357-371	4.2	25
325	Phosphorus flow analysis in the maize based food-feed-energy systems in China. <i>Environmental Research</i> , 2020 , 184, 109319	7.9	7
324	Mapping the Environmental Cost of a Typical Citrus-Producing County in China: Hotspot and Optimization. <i>Sustainability</i> , 2020 , 12, 1827	3.6	11
323	Mechanisms and modelling of phosphorus solid-liquid transformation during the hydrothermal processing of swine manure. <i>Green Chemistry</i> , 2020 , 22, 5628-5638	10	46
322	An overview of the use of plastic-film mulching in China to increase crop yield and water-use efficiency. <i>National Science Review</i> , 2020 , 7, 1523-1526	10.8	31
321	Changes in soil phosphorus fractions following sole cropped and intercropped maize and faba bean grown on calcareous soil. <i>Plant and Soil</i> , 2020 , 448, 587-601	4.2	13

320	Agriculture Green Development: a model for China and the world. <i>Frontiers of Agricultural Science and Engineering</i> , 2020 , 7, 5	1.7	29
319	Benefits and trade-offs of replacing synthetic fertilizers by animal manures in crop production in China: A meta-analysis. <i>Global Change Biology</i> , 2020 , 26, 888-900	11.4	86
318	Yield and nitrogen uptake of sole and intercropped maize and peanut in response to N fertilizer input. <i>Food and Energy Security</i> , 2020 , 9, e187	4.1	10
317	Modelling long-term impacts of fertilization and liming on soil acidification at Rothamsted experimental station. <i>Science of the Total Environment</i> , 2020 , 713, 136249	10.2	22
316	Precipitation chemistry and atmospheric nitrogen deposition at a rural site in Beijing, China. <i>Atmospheric Environment</i> , 2020 , 223, 117253	5.3	17
315	Temperature sensitivity of soil organic matter mineralization decreases with long-term N fertilization: Evidence from four Q10 estimation approaches. <i>Land Degradation and Development</i> , 2020 , 31, 683-693	4.4	16
314	Yield gain, complementarity and competitive dominance in intercropping in China: A meta-analysis of drivers of yield gain using additive partitioning. <i>European Journal of Agronomy</i> , 2020 , 113, 125987	5	31
313	Spatio-temporal patterns of air pollution in China from 2015 to 2018 and implications for health risks. <i>Environmental Pollution</i> , 2020 , 258, 113659	9.3	72
312	Intercropping maize and soybean increases efficiency of land and fertilizer nitrogen use; A meta-analysis. <i>Field Crops Research</i> , 2020 , 246, 107661	5.5	50
311	Air quality, nitrogen use efficiency and food security in China are improved by cost-effective agricultural nitrogen management. <i>Nature Food</i> , 2020 , 1, 648-658	14.4	43
310	Substitution of Mineral Fertilizer with Organic Fertilizer in Maize Systems: A Meta-Analysis of Reduced Nitrogen and Carbon Emissions. <i>Agronomy</i> , 2020 , 10, 1149	3.6	10
309	Changes of nitrogen deposition in China from 1980 to 2018. <i>Environment International</i> , 2020 , 144, 106022	22.9	62
308	Carbon footprint of a typical pomelo production region in China based on farm survey data. <i>Journal of Cleaner Production</i> , 2020 , 277, 124041	10.3	16
307	Sustainable Cropping Requires Adaptation to a Heterogeneous Rhizosphere. <i>Trends in Plant Science</i> , 2020 , 25, 1194-1202	13.1	19
306	Multi-Objective Optimization of Smallholder Apple Production: Lessons from the Bohai Bay Region. <i>Sustainability</i> , 2020 , 12, 6496	3.6	2
305	Targeting Low-Phytate Soybean Genotypes Without Compromising Desirable Phosphorus-Acquisition Traits. <i>Frontiers in Genetics</i> , 2020 , 11, 574547	4.5	2
304	Cropland acidification increases risk of yield losses and food insecurity in China. <i>Environmental Pollution</i> , 2020 , 256, 113145	9.3	30
303	Neighbouring plants modify maize root foraging for phosphorus: coupling nutrients and neighbours for improved nutrient-use efficiency. <i>New Phytologist</i> , 2020 , 226, 244-253	9.8	31

302	Management Strategies to Optimize Soil Phosphorus Utilization and Alleviate Environmental Risk in China. <i>Journal of Environmental Quality</i> , 2019 , 48, 1167-1175	3.4	14
301	Soil microbiome mediates positive plant diversity-productivity relationships in late successional grassland species. <i>Ecology Letters</i> , 2019 , 22, 1221-1232	10	24
300	Increasing the agricultural, environmental and economic benefits of farming based on suitable crop rotations and optimum fertilizer applications. <i>Field Crops Research</i> , 2019 , 240, 78-85	5.5	10
299	Intercropping cereals with faba bean reduces plant disease incidence regardless of fertilizer input; a meta-analysis. <i>European Journal of Plant Pathology</i> , 2019 , 154, 931-942	2.1	40
298	Magnesium Fertilization Improves Crop Yield in Most Production Systems: A Meta-Analysis. <i>Frontiers in Plant Science</i> , 2019 , 10, 1727	6.2	59
297	Quantification of the contribution of nitrogen fertilization and crop harvesting to soil acidification in a wheat-maize double cropping system. <i>Plant and Soil</i> , 2019 , 434, 167-184	4.2	31
296	Testing for complementarity in phosphorus resource use by mixtures of crop species. <i>Plant and Soil</i> , 2019 , 439, 163-177	4.2	13
295	Phosphorus mitigation remains critical in water protection: A review and meta-analysis from one of China's most eutrophicated lakes. <i>Science of the Total Environment</i> , 2019 , 689, 1336-1347	10.2	22
294	Exploring Future Food Provision Scenarios for China. <i>Environmental Science & Technology</i> , 2019 , 53, 1385-1393	10.3	33
293	Yield and the 15N Fate in Rice/Maize Season in the Yangtze River Basin. <i>Agronomy Journal</i> , 2019 , 111, 517-527	2.2	1
292	Root competition resulting from spatial variation in nutrient distribution elicits decreasing maize yield at high planting density. <i>Plant and Soil</i> , 2019 , 439, 219-232	4.2	11
291	Pursuing sustainable productivity with millions of smallholder farmers. <i>Nature</i> , 2018 , 555, 363-366	50.4	408
290	Global environmental costs of China's thirst for milk. <i>Global Change Biology</i> , 2018 , 24, 2198-2211	11.4	32
289	Agronomic and environmental causes of yield and nitrogen use efficiency gaps in Chinese rice farming systems. <i>European Journal of Agronomy</i> , 2018 , 93, 40-49	5	32
288	International trade of animal feed: its relationships with livestock density and N and P balances at country level. <i>Nutrient Cycling in Agroecosystems</i> , 2018 , 110, 197-211	3.3	19
287	Enhanced acidification in Chinese croplands as derived from element budgets in the period 1980-2010. <i>Science of the Total Environment</i> , 2018 , 618, 1497-1505	10.2	50
286	Enhanced-efficiency fertilizers are not a panacea for resolving the nitrogen problem. <i>Global Change Biology</i> , 2018 , 24, e511-e521	11.4	106
285	Modeling soil acidification in typical Chinese cropping systems. <i>Science of the Total Environment</i> , 2018 , 613-614, 1339-1348	10.2	53

284	Establishing High-Yielding Maize System for Sustainable Intensification in China. <i>Advances in Agronomy</i> , 2018 , 148, 85-109	7.7	19
283	Foxtail Millet [(L.) Beauv.] Grown under Low Nitrogen Shows a Smaller Root System, Enhanced Biomass Accumulation, and Nitrate Transporter Expression. <i>Frontiers in Plant Science</i> , 2018 , 9, 205	6.2	26
282	China's livestock transition: Driving forces, impacts, and consequences. <i>Science Advances</i> , 2018 , 4, eaar5343	5.4	137
281	Factors Affecting Nitrogen Use Efficiency and Grain Yield of Summer Maize on Smallholder Farms in the North China Plain. <i>Sustainability</i> , 2018 , 10, 363	3.6	30
280	Importing food damages domestic environment: Evidence from global soybean trade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5415-5419	11.5	82
279	Changes in nitrogen and phosphorus flows and losses in agricultural systems of three megacities of China, 1990-2014. <i>Resources, Conservation and Recycling</i> , 2018 , 139, 64-75	11.9	22
278	What has caused the use of fertilizers to skyrocket in China?. <i>Nutrient Cycling in Agroecosystems</i> , 2018 , 110, 241-255	3.3	33
277	Cumulative and partially recoverable impacts of nitrogen addition on a temperate steppe. <i>Ecological Applications</i> , 2018 , 28, 237-248	4.9	12
276	Accumulation and distribution characteristics of biomass and nitrogen in bitter melon (<i>Momordica charantia</i> L.) under different fertilization strategies. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 2681-2688	4.3	3
275	Environmental costs and mitigation potential in plastic-greenhouse pepper production system in China: A life cycle assessment. <i>Agricultural Systems</i> , 2018 , 167, 186-194	6.1	20
274	Spatial-temporal patterns of inorganic nitrogen air concentrations and deposition in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10931-10954	6.8	48
273	Sustainable Resource Use in Enhancing Agricultural Development in China. <i>Engineering</i> , 2018 , 4, 588-589	9.7	6
272	Designing a new cropping system for high productivity and sustainable water usage under climate change. <i>Scientific Reports</i> , 2017 , 7, 41587	4.9	17
271	Reducing nitrogen leaching in a subtropical vegetable system. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 241, 133-141	5.7	40
270	Managing the trade-offs among yield increase, water resources inputs and greenhouse gas emissions in irrigated wheat production systems. <i>Journal of Cleaner Production</i> , 2017 , 164, 567-574	10.3	17
269	A new urease-inhibiting formulation decreases ammonia volatilization and improves maize nitrogen utilization in North China Plain. <i>Scientific Reports</i> , 2017 , 7, 43853	4.9	31
268	Model-Based Analysis of the Long-Term Effects of Fertilization Management on Cropland Soil Acidification. <i>Environmental Science & Technology</i> , 2017 , 51, 3843-3851	10.3	67
267	Detecting spatial variability of paddy rice yield by combining the DNDC model with high resolution satellite images. <i>Agricultural Systems</i> , 2017 , 152, 47-57	6.1	10

266	Nitrous oxide and methane emissions from paddy soils in southwest China. <i>Geoderma Regional</i> , 2017 , 8, 1-11	2.7	10
265	Improving nitrogen use efficiency with minimal environmental risks using an active canopy sensor in a wheat-maize cropping system. <i>Field Crops Research</i> , 2017 , 214, 365-372	5.5	33
264	How China's nitrogen footprint of food has changed from 1961 to 2010. <i>Environmental Research Letters</i> , 2017 , 12, 104006	6.2	34
263	Carbon footprint of grain production in China. <i>Scientific Reports</i> , 2017 , 7, 4126	4.9	57
262	Plant growth patterns in a tripartite strip relay intercrop are shaped by asymmetric aboveground competition. <i>Field Crops Research</i> , 2017 , 201, 41-51	5.5	14
261	Cropping System Conversion led to Organic Carbon Change in China's Mollisols Regions. <i>Scientific Reports</i> , 2017 , 7, 18064	4.9	14
260	Air quality improvement in a megacity: implications from 2015 Beijing Parade Blue pollution control actions. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 31-46	6.8	61
259	Spatial and seasonal variations of atmospheric sulfur concentrations and dry deposition at 16 rural and suburban sites in China. <i>Atmospheric Environment</i> , 2016 , 146, 79-89	5.3	19
258	Enhancing phosphorus uptake efficiency through QTL-based selection for root system architecture in maize. <i>Journal of Genetics and Genomics</i> , 2016 , 43, 663-672	4	29
257	Nitrogen, Phosphorus, and Potassium Flows through the Manure Management Chain in China. <i>Environmental Science & Technology</i> , 2016 , 50, 13409-13418	10.3	114
256	Building the new international science of the agriculture-food-water-environment nexus in china and the world. <i>Ecosystem Health and Sustainability</i> , 2016 , 2, e01249	3.7	1
255	Concentrations and isotopic characteristics of atmospheric reactive nitrogen around typical sources in Beijing, China. <i>Journal of Arid Land</i> , 2016 , 8, 910-920	2.2	5
254	Alarming nutrient pollution of Chinese rivers as a result of agricultural transitions. <i>Environmental Research Letters</i> , 2016 , 11, 024014	6.2	108
253	The contribution of atmospheric deposition and forest harvesting to forest soil acidification in China since 1980. <i>Atmospheric Environment</i> , 2016 , 146, 215-222	5.3	48
252	Identifying potential strategies in the key sectors of China's food chain to implement sustainable phosphorus management: a review. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 341-359	3.3	23
251	Carbon and phosphorus exchange may enable cooperation between an arbuscular mycorrhizal fungus and a phosphate-solubilizing bacterium. <i>New Phytologist</i> , 2016 , 210, 1022-32	9.8	160
250	In situ stable isotope probing of phosphate-solubilizing bacteria in the hyphosphere. <i>Journal of Experimental Botany</i> , 2016 , 67, 1689-701	7	33
249	Evidence for a Historic Change Occurring in China. <i>Environmental Science & Technology</i> , 2016 , 50, 505-6	10.3	72

248	Strengthening Agronomy Research for Food Security and Environmental Quality. <i>Environmental Science & Technology</i> , 2016 , 50, 1639-41	10.3	11
247	Zinc Concentration in Rice (<i>Oryza sativa</i> L.) Grains and Allocation in Plants as Affected by Different Zinc Fertilization Strategies. <i>Communications in Soil Science and Plant Analysis</i> , 2016 , 47, 761-768	1.5	12
246	Changes in phosphorus use and losses in the food chain of China during 1950-2010 and forecasts for 2030. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 361-372	3.3	36
245	Major Crop Species Show Differential Balance between Root Morphological and Physiological Responses to Variable Phosphorus Supply. <i>Frontiers in Plant Science</i> , 2016 , 7, 1939	6.2	96
244	Increased soil phosphorus availability induced by faba bean root exudation stimulates root growth and phosphorus uptake in neighbouring maize. <i>New Phytologist</i> , 2016 , 209, 823-31	9.8	96
243	Root over-production in heterogeneous nutrient environment has no negative effects on Zea mays shoot growth in the field. <i>Plant and Soil</i> , 2016 , 409, 405-417	4.2	14
242	Shift from complementarity to facilitation on P uptake by intercropped wheat neighboring with faba bean when available soil P is depleted. <i>Scientific Reports</i> , 2016 , 6, 18663	4.9	39
241	Arbuscular mycorrhizal fungi contribute to overyielding by enhancing crop biomass while suppressing weed biomass in intercropping systems. <i>Plant and Soil</i> , 2016 , 406, 173-185	4.2	25
240	A multi-level analysis of China's phosphorus flows to identify options for improved management in agriculture. <i>Agricultural Systems</i> , 2016 , 144, 87-100	6.1	26
239	Long-term accumulation and transport of anthropogenic phosphorus in three river basins. <i>Nature Geoscience</i> , 2016 , 9, 353-356	18.3	188
238	Effects of combined application of organic amendments and fertilizers on crop yield and soil organic matter: An integrated analysis of long-term experiments. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 225, 86-92	5.7	106
237	Closing yield gaps in China by empowering smallholder farmers. <i>Nature</i> , 2016 , 537, 671-674	50.4	261
236	Grain production versus resource and environmental costs: towards increasing sustainability of nutrient use in China. <i>Journal of Experimental Botany</i> , 2016 , 67, 4935-49	7	74
235	Past, present, and future use of phosphorus in Chinese agriculture and its influence on phosphorus losses. <i>Ambio</i> , 2015 , 44 Suppl 2, S274-85	6.5	95
234	Addressing China's grand challenge of achieving food security while ensuring environmental sustainability. <i>Science Advances</i> , 2015 , 1, e1400039	14.3	118
233	Comparing localized application of different N fertilizer species on maize grain yield and agronomic N-use efficiency on a calcareous soil. <i>Field Crops Research</i> , 2015 , 180, 72-79	5.5	16
232	Dynamic growth pattern and exploitation of soil residual P by <i>Brassica campestris</i> throughout growth cycle on a calcareous soil. <i>Field Crops Research</i> , 2015 , 180, 110-117	5.5	2
231	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015 , 206, 107-117	9.8	493

230	Response of alpine grassland to elevated nitrogen deposition and water supply in China. <i>Oecologia</i> , 2015 , 177, 65-72	2.9	31
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39	Iron Availability as Affected by Soil Moisture in Intercropped Peanut and Maize. <i>Journal of Plant Nutrition</i> , 2003 , 26, 2425-2437	2.3	12
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35	Interspecific facilitation of nutrient uptake by intercropped maize and faba bean. <i>Nutrient Cycling in Agroecosystems</i> , 2003 , 65, 61-71	3.3	135
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5	Nitrogen Transformations in a Chinese Aquic Cambisol Applied Urea with Dicyandiamide or Plant Residues		3
4	Response of Root Morphology to Nitrate Supply and its Contribution to Nitrogen Accumulation in Maize		1
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1	Bacterial taxa and fungal diversity are the key factors determining soil multifunctionality in different cropping systems. <i>Land Degradation and Development</i> ,	4.4	1