Mingkai Qu

List of Publications by Citations

51 papers	1,051 citations	18 h-index	31 g-index
52 ext. papers	1,260 ext. citations	5.7 avg, IF	4.46 L-index

#	Paper	IF	Citations
51	Evaluating soil quality indices in an agricultural region of Jiangsu Province, China. *Geoderma*, **2009**, 149, 325-334	6.7	198
50	Temporal and spatial variability of soil organic matter and total nitrogen in an agricultural ecosystem as affected by farming practices. *Geoderma*, **2007**, 139, 336-345	6.7	146
49	Major nutrient balances in small-scale vegetable farming systems in peri-urban areas in China. *Nutrient Cycling in Agroecosystems*, **2008**, 81, 203-218	3.3	60
48	Accumulation, sources and health risks of trace metals in elevated geochemical background soils used for greenhouse vegetable production in southwestern China. *Ecotoxicology and Environmental Safety*, **2017**, 137, 233-239	7	58
47	Accumulation and health risk of heavy metals in a plot-scale vegetable production system in a peri-urban vegetable farm near Nanjing, China. *Ecotoxicology and Environmental Safety*, **2013**, 98, 303-9	7	44
46	Source apportionment of soil heavy metals using robust absolute principal component scores-robust geographically weighted regression (RAPCS-RGWR) receptor model. *Science of the Total Environment*, **2018**, 626, 203-210	10.2	40
45	Rapid estimation of soil cation exchange capacity through sensor data fusion of portable XRF spectrometry and Vis-NIR spectroscopy. *Geoderma*, **2020**, 363, 114163	6.7	37
44	Distribution, sources and potential risk of HCH and DDT in soils from a typical alluvial plain of the Yangtze River Delta region, China. *Environmental Geochemistry and Health*, **2014**, 36, 345-58	4.7	34
43	Assessing the risk costs in delineating soil nickel contamination using sequential Gaussian simulation and transfer functions. *Ecological Informatics*, **2013**, 13, 99-105	4.2	33
42	Spatial uncertainty assessment of the environmental risk of soil copper using auxiliary portable X-ray fluorescence spectrometry data and soil pH. *Environmental Pollution*, **2018**, 240, 184-190	9.3	27
41	Application of arc emission spectrometry and portable X-ray fluorescence spectrometry to rapid risk assessment of heavy metals in agricultural soils. *Ecological Indicators*, **2019**, 101, 583-594	5.8	25
40	Spatial Distribution and Uncertainty Assessment of Potential Ecological Risks of Heavy Metals in Soil Using Sequential Gaussian Simulation. *Human and Ecological Risk Assessment (HERA)*, **2014**, 20, 764-778	4.9	24
39	Impacts of human activities and sampling strategies on soil heavy metal distribution in a rapidly developing region of China. *Ecotoxicology and Environmental Safety*, **2014**, 104, 1-8	7	24
38	Uncertainty assessment of mapping mercury contaminated soils of a rapidly industrializing city in the Yangtze River Delta of China using sequential indicator co-simulation. *Environmental Monitoring and Assessment*, **2008**, 138, 343-55	3.1	21
37	Effect of Land Use Conversion from Rice Paddies to Vegetable Fields on Soil Phosphorus Fractions. *Pedosphere*, **2010**, 20, 137-145	5	20
36	Assessing the spatial uncertainty in soil nitrogen mapping through stochastic simulations with categorical land use information. *Ecological Informatics*, **2013**, 16, 1-9	4.2	19
35	Accumulation, transfer, and environmental risk of soil mercury in a rapidly industrializing region of the Yangtze River Delta, China. *Journal of Soils and Sediments*, **2011**, 11, 607-618	3.4	19

34	Spatially Nonstationary Relationships between Copper Accumulation in Rice Grain and Some Related Soil Properties in Paddy Fields at a Regional Scale. *Soil Science Society of America Journal*, **2014**, 78, 1765-1774	2.5	18
33	Relationships between distributions of longevous population and trace elements in the agricultural ecosystem of Rugao County, Jiangsu, China. *Environmental Geochemistry and Health*, **2009**, 31, 379-90	4.7	18
32	Effect of Land Use Types on the Spatial Prediction of Soil Nitrogen. *GIScience and Remote Sensing*, **2012**, 49, 397-411	4.8	17
31	Correction of in-situ portable X-ray fluorescence (PXRF) data of soil heavy metal for enhancing spatial prediction. *Environmental Pollution*, **2019**, 254, 112993	9.3	16
30	Estimation of soil pH using PXRF spectrometry and Vis-NIR spectroscopy for rapid environmental risk assessment of soil heavy metals. *Chemical Engineering Research and Design*, **2019**, 132, 73-81	5.5	15
29	Spatiotemporal variations in soil organic carbon and their drivers in southeastern China during 1981-2011. *Soil and Tillage Research*, **2021**, 205, 104763	6.5	15
28	Enhancing apportionment of the point and diffuse sources of soil heavy metals using robust geostatistics and robust spatial receptor model with categorical soil-type data. *Environmental Pollution*, **2020**, 265, 114964	9.3	13
27	Effect of sampling density on regional soil organic carbon estimation for cultivated soils. *Journal of Plant Nutrition and Soil Science*, **2012**, 175, 671-680	2.3	12
26	Optimal interpolation methods for farmland soil organic matter in various landforms of a complex topography. *Ecological Indicators*, **2020**, 110, 105926	5.8	11
25	Organochlorine pesticides in soils from a typical alluvial plain of the Yangtze River Delta region, China. *Bulletin of Environmental Contamination and Toxicology*, **2011**, 87, 561-6	2.7	10
24	Comparison of Three Methods for Soil Fertility Quality Spatial Simulation with Uncertainty Assessment. *Soil Science Society of America Journal*, **2013**, 77, 2182-2191	2.5	9
23	Assessing the pollution risk of soil Chromium based on loading capacity of paddy soil at a regional scale. *Scientific Reports*, **2015**, 5, 18451	4.9	9
22	An integrated approach to exploring soil fertility from the perspective of rice (Oryza sativa L.) yields. *Soil and Tillage Research*, **2019**, 194, 104322	6.5	6
21	Effect of Farming Practices on the Variability of Phosphorus Status in Intensively Managed Soils. *Pedosphere*, **2015**, 25, 438-449	5	6
20	Source apportionment of soil nitrogen and phosphorus based on robust residual kriging and auxiliary soil-type map in Jintan County, China. *Ecological Indicators*, **2020**, 119, 106820	5.8	6
19	County-Scale Spatial Variability of Macronutrient Availability Ratios in Paddy Soils. *Applied and Environmental Soil Science*, **2014**, 2014, 1-10	3.8	5
18	Soil fertility quality assessment based on geographically weighted principal component analysis (GWPCA) in large-scale areas. *Catena*, **2021**, 201, 105197	5.8	4
17	Resampling with in situ field portable X-ray fluorescence spectrometry (FPXRF) to reduce the uncertainty in delineating the remediation area of soil heavy metals. *Environmental Pollution*, **2021**, 271, 116310	9.3	4

16	Pollution Characteristics and Risk Assessment of Soil Heavy Metals in the Areas Affected by the Mining of Metal-bearing Minerals in Southwest China. *Bulletin of Environmental Contamination and Toxicology*, **2021**, 107, 1070-1079	2.7	4
15	Exploring the spatially varying relationships between cadmium accumulations and the main influential factors in the rice-wheat rotation system in a large-scale area. *Science of the Total Environment*, **2020**, 736, 139565	10.2	3
14	Using pXRF to assess the accumulation, sources, and potential ecological risk of potentially toxic elements in soil under two greenhouse vegetable production systems in North China. *Environmental Science and Pollution Research*, **2020**, 27, 11105-11115	5.1	3
13	Spatial uncertainty of joint health risk of multiple trace metals in rice grain in Jiaxing city, China. *Environmental Sciences: Processes and Impacts*, **2015**, 17, 120-30	4.3	3
12	Estimating the pollution risk of cadmium in soil using a composite soil environmental quality standard. *Scientific World Journal, The*, **2014**, 2014, 750879	2.2	3
11	Improving the spatial prediction accuracy of soil alkaline hydrolyzable nitrogen using GWPCA-GWRK. *Soil Science Society of America Journal*, **2021**, 85, 879-892	2.5	3
10	Source apportionment of soil heavy metals using robust spatial receptor model with categorical land-use types and RGWR-corrected in-situ FPXRF data. *Environmental Pollution*, **2021**, 270, 116220	9.3	3
9	Spatially apportioning the source-oriented ecological risks of soil heavy metals using robust spatial receptor model with land-use data and robust residual kriging. *Environmental Pollution*, **2021**, 285, 117261	9.3	2
8	Spatial assessment of soil nitrogen availability and varying effects of related main soil factors on soil available nitrogen. *Environmental Sciences: Processes and Impacts*, **2016**, 18, 1449-1457	4.3	1
7	Assessing the local uncertainty of precipitation by using moving window geostatistical models. *Ecological Informatics*, **2015**, 30, 133-141	4.2	1
6	Improving correction quality for in-situ portable X-ray fluorescence (PXRF) using robust geographically weighted regression with categorical land-use types at a regional scale. *Geoderma*, **2022**, 409, 115615	6.7	1
5	Additional sampling using in-situ portable X-ray fluorescence (PXRF) for rapid and high-precision investigation of soil heavy metals at a regional scale. *Environmental Pollution*, **2022**, 292, 118324	9.3	1
4	Effects of mining on the potentially toxic elements in the surrounding soils in China: A meta-analysis.. *Science of the Total Environment*, **2022**, 153562	10.2	0
3	A joint standard-exceeding risk assessment of multiple pollutants based on robust geostatistics with categorical land-use type data: A case study of soil nitrogen and phosphorus.. *Environmental Pollution*, **2022**, 299, 118901	9.3	0
2	An Integrated Yield-Based Methodology for Improving Soil Nutrient Management at a Regional Scale. *Agronomy*, **2022**, 12, 298	3.6	
1	Incorporating Auxiliary Data of Different Spatial Scales for Spatial Prediction of Soil Nitrogen Using Robust Residual Cokriging (RRCoK). *Agronomy*, **2021**, 11, 2516	3.6	