Mingkai Qu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9083839/publications.pdf

Version: 2024-02-01

52 papers	1,542 citations	331259 21 h-index	315357 38 g-index
52 all docs	52 docs citations	52 times ranked	1535 citing authors

#	Article	IF	Citations
1	Evaluating soil quality indices in an agricultural region of Jiangsu Province, China. Geoderma, 2009, 149, 325-334.	2.3	307
2	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.	2.3	167
3	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.	2.9	84
4	Major nutrient balances in small-scale vegetable farming systems in peri-urban areas in China. Nutrient Cycling in Agroecosystems, 2008, 81, 203-218.	1.1	72
5	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.	3.9	68
6	Rapid estimation of soil cation exchange capacity through sensor data fusion of portable XRF spectrometry and Vis-NIR spectroscopy. Geoderma, 2020, 363, 114163.	2.3	63
7	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, 303-309.	2.9	62
8	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, 345-358.	1.8	44
9	Assessing the risk costs in delineating soil nickel contamination using sequential Gaussian simulation and transfer functions. Ecological Informatics, 2013, 13, 99-105.	2.3	43
10	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.	2.6	35
11	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.	3.7	32
12	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.	1.7	30
13	Optimal interpolation methods for farmland soil organic matter in various landforms of a complex topography. Ecological Indicators, 2020, 110, 105926.	2.6	30
14	Spatiotemporal variations in soil organic carbon and their drivers in southeastern China during 1981-2011. Soil and Tillage Research, 2021, 205, 104763.	2.6	30
15	Effect of Land Use Conversion from Rice Paddies to Vegetable Fields on Soil Phosphorus Fractions. Pedosphere, 2010, 20, 137-145.	2.1	29
16	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.	2.7	29
17	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.	2.9	27
18	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.	1.5	26

#	Article	IF	Citations
19	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, 343-355.	1.3	23
20	Relationships between distributions of longevous population and trace elements in the agricultural ecosystem of Rugao County, Jiangsu, China. Environmental Geochemistry and Health, 2009, 31, 379-390.	1.8	23
21	Assessing the spatial uncertainty in soil nitrogen mapping through stochastic simulations with categorical land use information. Ecological Informatics, 2013, 16, 1-9.	2.3	23
22	Correction of in-situ portable X-ray fluorescence (PXRF) data of soil heavy metal for enhancing spatial prediction. Environmental Pollution, 2019, 254, 112993.	3.7	22
23	Effect of Land Use Types on the Spatial Prediction of Soil Nitrogen. GIScience and Remote Sensing, 2012, 49, 397-411.	2.4	21
24	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.	1.2	20
25	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.	3.7	20
26	Effect of sampling density on regional soil organic carbon estimation for cultivated soils. Journal of Plant Nutrition and Soil Science, 2012, 175, 671-680.	1.1	17
27	Assessing the pollution risk of soil Chromium based on loading capacity of paddy soil at a regional scale. Scientific Reports, 2016, 5, 18451.	1.6	16
28	Soil fertility quality assessment based on geographically weighted principal component analysis (GWPCA) in large-scale areas. Catena, 2021, 201, 105197.	2.2	14
29	Organochlorine Pesticides in Soils from a Typical Alluvial Plain of the Yangtze River Delta Region, China. Bulletin of Environmental Contamination and Toxicology, 2011, 87, 561-566.	1.3	13
30	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.	3.7	13
31	Effects of mining on the potentially toxic elements in the surrounding soils in China: A meta-analysis. Science of the Total Environment, 2022, 821, 153562.	3.9	13
32	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.	1.3	12
33	Comparison of Three Methods for Soil Fertility Quality Spatial Simulation with Uncertainty Assessment. Soil Science Society of America Journal, 2013, 77, 2182-2191.	1.2	10
34	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.	2.6	10
35	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.	3.9	10
36	County-Scale Spatial Variability of Macronutrient Availability Ratios in Paddy Soils. Applied and Environmental Soil Science, 2014, 2014, 1-10.	0.8	9

#	Article	IF	Citations
37	Effect of Farming Practices on the Variability of Phosphorus Status in Intensively Managed Soils. Pedosphere, 2015, 25, 438-449.	2.1	9
38	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.	3.7	8
39	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.	3.7	8
40	An integrated approach to exploring soil fertility from the perspective of rice (Oryza sativa L.) yields. Soil and Tillage Research, 2019, 194, 104322.	2.6	7
41	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.	2.7	7
42	Improving the spatial prediction accuracy of soil alkaline hydrolyzable nitrogen using GWPCAâ€GWRK. Soil Science Society of America Journal, 2021, 85, 879-892.	1.2	6
43	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.	3.7	6
44	Spatial uncertainty of joint health risk of multiple trace metals in rice grain in Jiaxing city, China. Environmental Sciences: Processes and Impacts, 2015, 17, 120-130.	1.7	5
45	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.	3.7	5
46	Estimating the Pollution Risk of Cadmium in Soil Using a Composite Soil Environmental Quality Standard. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	4
47	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.	2.3	4
48	Assessing the local uncertainty of precipitation by using moving window geostatistical models. Ecological Informatics, 2015, 30, 133-141.	2.3	2
49	An Integrated Yield-Based Methodology for Improving Soil Nutrient Management at a Regional Scale. Agronomy, 2022, 12, 298.	1.3	2
50	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.	1.7	1
51	Incorporating Auxiliary Data of Different Spatial Scales for Spatial Prediction of Soil Nitrogen Using Robust Residual Cokriging (RRCoK). Agronomy, 2021, 11, 2516.	1.3	1
52	Integration of categorical information of land use maps in spatial prediction of soil available Cu in Hanchuan county, China. , 2011, , .		0