# Yongcun Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/836059/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 86<br>papers | 3,808<br>citations | 172386<br>29<br>h-index | 133188<br>59<br>g-index |
| 86<br>all docs | 86<br>docs citations | 86<br>times ranked | 3400<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Spatiotemporal variation and sources of soil heavy metals along the lower reaches of Yangtze River, China. Chemosphere, 2022, 291, 132768. | 4.2 | 36 |
| 2 | 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 |
| 3 | 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 |
| 4 | Excessive phosphorus inputs dominate soil legacy phosphorus accumulation and its potential loss under intensive greenhouse vegetable production system. Journal of Environmental Management, 2022, 303, 114149. | 3.8 | 11 |
| 5 | Integration of a process-based model into the digital soil mapping improves the space-time soil organic carbon modelling in intensively human-impacted area. Geoderma, 2022, 409, 115599. | 2.3 | 16 |
| 6 | An Integrated Yield-Based Methodology for Improving Soil Nutrient Management at a Regional Scale. Agronomy, 2022, 12, 298. | 1.3 | 2 |
| 7 | 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 |
| 8 | 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 |
| 9 | Environmental capacity of heavy metals in intensive agricultural soils: Insights from geochemical baselines and source apportionment. Science of the Total Environment, 2022, 819, 153078. | 3.9 | 20 |
| 10 | Spatiotemporal changes in cropland soil organic carbon in a rapidly urbanizing area of southeastern China from 1980 to 2015. Land Degradation and Development, 2022, 33, 1323-1336. | 1.8 | 4 |
| 11 | Heavy metal accumulation in the surrounding areas affected by mining in China: Spatial distribution patterns, risk assessment, and influencing factors. Science of the Total Environment, 2022, 825, 154004. | 3.9 | 45 |
| 12 | A comparison of machine learning algorithms for mapping soil iron parameters indicative of pedogenic processes by hyperspectral imaging of intact soil profiles. European Journal of Soil Science, 2022, 73, . | 1.8 | 8 |
| 13 | 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 |
| 14 | 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 |
| 15 | Spatio-temporal Changes and Associated Uncertainties of CENTURY-modelled SOC for Chinese Upland Soils, 1980â€“2010. Chinese Geographical Science, 2021, 31, 126-136. | 1.2 | 1 |
| 16 | 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 |
| 17 | The effect of organic and conventional management practices on soil macropore structure in greenhouse vegetable production. European Journal of Soil Science, 2021, 72, 2133-2149. | 1.8 | 6 |
| 18 | A Novel Statistical Method of Defining Geochemical Baselines and Source Identification for Trace Metals in Soil in Zhangjiagang County, China. Journal of Soils and Sediments, 2021, 21, 2619-2627. | 1.5 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Soil fertility quality assessment based on geographically weighted principal component analysis (GWPCA) in large-scale areas. Catena, 2021, 201, 105197. | 2.2 | 14 |
| 20 | Spatial Distribution and Source Apportionment of Agricultural Soil Heavy Metals in a Rapidly Developing Area in East China. Bulletin of Environmental Contamination and Toxicology, 2021, 106, 33-39. | 1.3 | 12 |
| 21 | 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 |
| 22 | 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 |
| 23 | Evaluation of soil quality in major grain-producing region of the North China Plain: Integrating minimum data set and established critical limits. Ecological Indicators, 2020, 117, 106613. | 2.6 | 22 |
| 24 | 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 |
| 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 | Accumulation and ecological risk of heavy metals in soils along the coastal areas of the Bohai Sea and the Yellow Sea: A comparative study of China and South Korea. Environment International, 2020, 137, 105519. | 4.8 | 92 |
| 27 | 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 |
| 28 | Assessing the effects of land use change from rice to vegetable on soil structural quality using X-ray CT. Soil and Tillage Research, 2019, 195, 104343. | 2.6 | 37 |
| 29 | 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 |
| 30 | Spatio-temporal changes of cropland soil pH in a rapidly industrializing region in the Yangtze River Delta of China, 1980â€“2015. Agriculture, Ecosystems and Environment, 2019, 272, 95-104. | 2.5 | 38 |
| 31 | 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 |
| 32 | Carbon pools in Chinaâ€™s terrestrial ecosystems: New estimates based on an intensive field survey. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4021-4026. | 3.3 | 466 |
| 33 | Economics- and policy-driven organic carbon input enhancement dominates soil organic carbon accumulation in Chinese croplands. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4045-4050. | 3.3 | 342 |
| 34 | Comparison of multivariate methods for estimating selected soil properties from intact soil cores of paddy fields by Visâ€“NIR spectroscopy. Geoderma, 2018, 310, 29-43. | 2.3 | 141 |
| 35 | Quantification of Different Forms of Iron from Intact Soil Cores of Paddy Fields with Visâ€NIR Spectroscopy. Soil Science Society of America Journal, 2018, 82, 1497-1511. | 1.2 | 6 |
| 36 | Spatio-Temporal Change and Pollution Risk of Agricultural Soil Cadmium in a Rapidly Industrializing Area in the Yangtze Delta Region of China. International Journal of Environmental Research and Public Health, 2018, 15, 2743. | 1.2 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Uncertainty and Sensitivity Analyses for Modeling Long-Term Soil Organic Carbon Dynamics of Paddy Soils Under Different Climate-Soil-Management Combinations. Pedosphere, 2017, 27, 912-925. | 2.1 | 4 |
| 39 | Environmental and Anthropogenic Factors Driving Changes in Paddy Soil Organic Matter: A Case Study in the Middle and Lower Yangtze River Plain of China. Pedosphere, 2017, 27, 926-937. | 2.1 | 18 |
| 40 | Sensitivity and uncertainty analysis of CENTURY-modeled SOC dynamics in upland soils under different climate-soil-management conditions: a case study in China. Journal of Soils and Sediments, 2017, 17, 85-96. | 1.5 | 8 |
| 41 | Climatic effect on soil organic carbon variability as a function of spatial scale. Archives of Agronomy and Soil Science, 2017, 63, 375-387. | 1.3 | 7 |
| 42 | Rapid Determination of Carbon, Nitrogen, and Phosphorus Contents of Field Crops in China Using Visible and Nearâ€Infrared Reflectance Spectroscopy. Crop Science, 2017, 57, 475-489. | 0.8 | 4 |
| 43 | Effects of Subsetting by Parent Materials on Prediction of Soil Organic Matter Content in a Hilly Area Using Visâ€“NIR Spectroscopy. PLoS ONE, 2016, 11, e0151536. | 1.1 | 17 |
| 44 | Sensitivity and uncertainty analysis for the DeNitrificationâ€“DeComposition model, a case study of modeling soil organic carbon dynamics at a long-term observation site with a riceâ€“bean rotation. Computers and Electronics in Agriculture, 2016, 124, 263-272. | 3.7 | 22 |
| 45 | Comparison of sampling schemes for the spatial prediction of soil organic matter in a typical black soil region in China. Environmental Earth Sciences, 2016, 75, 1. | 1.3 | 11 |
| 46 | 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 |
| 47 | Effects of long-term fertilization and residue management on soil organic carbon changes in paddy soils of China: A meta-analysis. Agriculture, Ecosystems and Environment, 2015, 204, 40-50. | 2.5 | 195 |
| 48 | Uncertainty assessment for mapping changes in soil organic matter using sparse legacy soil data and dense new-measured data in a typical black soil region of China. Environmental Earth Sciences, 2015, 73, 197-207. | 1.3 | 12 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Sources of heavy metal pollution in agricultural soils of a rapidly industrializing area in the Yangtze Delta of China. Ecotoxicology and Environmental Safety, 2014, 108, 161-167. | 2.9 | 150 |
| 53 | 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 |
| 54 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Minimum Data Set for Assessing Soil Quality in Farmland of Northeast China. Pedosphere, 2013, 23, 564-576. | 2.1 | 89 |
| 56 | Map scale effects of soil databases on modeling organic carbon dynamics for paddy soils of China. Catena, 2013, 104, 67-76. | 2.2 | 19 |
| 57 | 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 |
| 58 | Uncertainty Analysis for the Evaluation of Agricultural Soil Quality Based on Digital Soil Maps. Soil Science Society of America Journal, 2012, 76, 1379-1389. | 1.2 | 18 |
| 59 | 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 |
| 60 | Spatially explicit simulation of soil organic carbon dynamics in China's paddy soils. Catena, 2012, 92, 113-121. | 2.2 | 33 |
| 61 | Carbon sequestration potential of recommended management practices for paddy soils of China, 1980â€“2050. Geoderma, 2011, 166, 206-213. | 2.3 | 54 |
| 62 | Modeling Carbon Dynamics in Paddy Soils in Jiangsu Province of China with Soil Databases Differing in Spatial Resolution. Pedosphere, 2011, 21, 696-705. | 2.1 | 12 |
| 63 | 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 |
| 64 | Effects of prediction methods for detecting the temporal evolution of soil organic carbon in the Hilly Red Soil Region, China. Environmental Earth Sciences, 2011, 64, 319-328. | 1.3 | 13 |
| 65 | Defining soil geochemical baselines at small scales using geochemical common factors and soil organic matter as normalizers. Journal of Soils and Sediments, 2011, 11, 3-14. | 1.5 | 32 |
| 66 | 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 |
| 67 | Scale effect of climate on soil organic carbon in the Uplands of Northeast China. Journal of Soils and Sediments, 2010, 10, 1007-1017. | 1.5 | 18 |
| 68 | A WebGIS system for relating genetic soil classification of China to soil taxonomy. Computers and Geosciences, 2010, 36, 768-775. | 2.0 | 17 |
| 69 | Response of soil organic carbon spatial variability to the expansion of scale in the uplands of Northeast China. Geoderma, 2010, 154, 302-310. | 2.3 | 15 |
| 70 | Cross-reference for relating Genetic Soil Classification of China with WRB at different scales. Geoderma, 2010, 155, 344-350. | 2.3 | 165 |
| 71 | Spatial interrelations and multi-scale sources of soil heavy metal variability in a typical urbanâ€“rural transition area in Yangtze River Delta region of China. Geoderma, 2010, 156, 216-227. | 2.3 | 87 |
| 72 | Effect of Land Use Conversion from Rice Paddies to Vegetable Fields on Soil Phosphorus Fractions. Pedosphere, 2010, 20, 137-145. | 2.1 | 29 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 73 | 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 |
| 74 | Spatial variability assessment of soil nutrients in an intense agricultural area, a case study of Rugao County in Yangtze River Delta Region, China. Environmental Geology, 2009, 57, 1089-1102. | 1.2 | 34 |
| 75 | Changes in soil fertility parameters and the environmental effects in a rapidly developing region of China. Agriculture, Ecosystems and Environment, 2009, 129, 286-292. | 2.5 | 62 |
| 76 | Evaluating soil quality indices in an agricultural region of Jiangsu Province, China. Geoderma, 2009, 149, 325-334. | 2.3 | 307 |
| 77 | Spatial variability of soil selenium as affected by geologic and pedogenic processes and its effect on ecosystem and human health. Geochemical Journal, 2009, 43, 217-225. | 0.5 | 11 |
| 78 | 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 |
| 79 | 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 |
| 80 | Variation of soil organic carbon estimates in mountain regions: A case study from Southwest China. Geoderma, 2008, 146, 449-456. | 2.3 | 73 |
| 81 | Source identification and spatial variability of nitrogen, phosphorus, and selected heavy metals in surface water and sediment in the riverine systems of a peri-urban interface. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 371-380. | 0.9 | 30 |
| 82 | 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 |
| 83 | Using robust kriging and sequential Gaussian simulation to delineate the copper- and lead-contaminated areas of a rapidly industrialized city in Yangtze River Delta, China. Environmental Geology, 2007, 52, 1423-1433. | 1.2 | 38 |
| 84 | Carbon storage and spatial distribution patterns of paddy soils in China. Frontiers of Agriculture in China, 2007, 1, 149-154. | 0.2 | 7 |
| 85 | Map Scale Effects on Soil Organic Carbon Stock Estimation in North China. Soil Science Society of America Journal, 2006, 70, 1377-1386. | 1.2 | 66 |
| 86 | Uncertainty assessment of spatial patterns of soil organic carbon density using sequential indicator simulation, a case study of Hebei province, China. Chemosphere, 2005, 59, 1527-1535. | 4.2 | 39 |