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### Research Interests

- Soil carbon and nitrogen cycling
- Nutrients resources integrated management

### Publication

**Quantifying soil N pools and N<sub>2</sub>O emissions after application of chemical fertilizer and straw to a typical chernozem soil**, *Biology Fertility of Soils*, 2020, DOI: 10.1007/s00374-019-01422-2

**Changes in soil carbon and nitrogen pools in a Mollisol after long-term fallow or application of chemical fertilizers, straw or manures**, *Soil and Tillage Research*, 2016, DOI: 10.1016/j.still.2016.07.002

**Allocation of photosynthetically-fixed carbon in plant and soil during growth of reed (*Phragmites australis*) in two saline soils**, *Plant and Soil*, 2016, DOI: 10.1007/s11104-016-2840-2

**Nitrate transformation and N<sub>2</sub>O emission in a typical intensively managed calcareous Fluvaquent soil: a 15-nitrogen tracer incubation study**, *Communications in Soil Science and Plant Analysis*, 2015, DOI: 10.1080/00103624.2015.1044112

**Impact of nitrogen rate on maize yield and nitrogen use efficiencies in northeast China**, *Agronomy Journal*, 2015, DOI: 10.2134/agronj13.0567



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**Long-term effects of potassium fertilization on yield, efficiency, and soil fertility status in a rain-fed maize system in northeast China**, Field crops research, 2014, DOI: 10.1016/j.fcr.2014.04.016

**Role of carbon substrates added in the transformation of surplus nitrate to organic nitrogen in a Calcareous soil**, Pedosphere, 2013, DOI: 10.1016/S1002-0160(13)60008-9

**Effects of applied urea and straw on various nitrogen fractions in two Chinese paddy soils with differing clay mineralogy**, Biology and fertility of soils, 2012, DOI: 10.1007/s00374-011-0613-x

**Improved nitrogen management for an intensive winter wheat / summer maize double-cropping system**, Soil science society of American journal, 2012, DOI: 10.2136/sssaj2011.0156

**Changes in soil carbon and nitrogen pools after shifting from conventional cereal to greenhouse vegetable production**, Soil and tillage research, 2010, DOI: 10.1016/j.still.2010.02.006