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### Education

2011 Ph.D., Dept. of Geography, Xinjiang University.

2008 M.Sc., Remote Sensing and Geographical Information System, Xinjiang University.

1993 College Diploma, Computer Science, Xinjiang University.

### Sponsored Research Projects

1. Sponsor: NSFC (National Science Foundation of China). Project Title: Occurrence and Transfer Mechanism and Carbon Sequestration of Carbonates in Desert-sierozem Soil within the Northern Tianshan Mountain Area under Irrigation and Maturation (41761041); Total amount: ¥410,000; Period: 1/1/2018~12/31/2021; Role:PI.
2. Sponsor: NSFC. Project Title: The Carbon Pool Components and the Carbon Sequestration Potential of Alkalinized Soil under the Impact of Human Activities (41261049); Total amount: ¥ 480,000; Period: 1/1/2013~12/31/2016; Role:PI.
3. Sponsor: China Postdoctoral Science Foundation. Project Title: Responses of sodic soil respiration to key environmental factors(2013M532100); Total amount: ¥ 50,000; Period: 5/1/2013~4/31/2015; Role:PI.

### Refereed Journal Publication

1. **Zhang Fang**, Xiong Heigang, Zhang Zhaoyong. Carbon sequestration effect and influential factors in pedogenic carbonates of saline-alkaline soils from shore of rump salt lake in Xinjiang (in Chinese), Transactions of the Chinese Society of Agricultural Engineering (Transactions of the CSAE), 2019, 35: 122-127.
2. **Zhang F\***, Zhang W J, Ding Y Y, Zhao Z G, Ge H(2017) XRD diffraction characteristics and microscopic morphology of carbonates in saline-alkaline soil from the shore of the Aibi Lake (in Chinese), Spectroscopy and Spectral Analysis, 37: 3893-3899.
3. **Zhang F\***, Xiong H G, Feng J, Xu Z L(2017) Dynamic change of net primary productivity during process of new artificial oasis expansion in Xinjiang based on remote sensing (in Chinese), Transactions of the Chinese Society of Agricultural Engineering, 33:194-200.
4. **Zhang F**, Xiong H G, Feng J, Xu Z L(2017) Changes in the carbon pool pattern and carbon pool migration during the expansion of new artificial oases in the northern foothills of Tianshan Mountains within the last 40 years(in Chinese), Acta Ecologica Sinica, 37: 7862-7871.
5. **Zhang F**, Xiong H G, An F Z, Xia Q R(2012) Classification of soil alkalization based on halophyte coverage(in Chinese), ACTA Pedologica Sinica, 49:665-672.
6. **Zhang F**, Xiong H G, Ding J L, Xia Q R(2012) Characteristics of laboratory-field measured spectra responding to alkalinized soil and conversion(in Chinese), Transactions of the Chinese Society of Agricultural Engineering, 28:101-107.
7. **Zhang F**, Xiong H G, Nurbay A, Luan F M (2011) Response characteristics of the field-measured spectrum for the four general types of halophyte and species recognition in the northern slope area of

Tianshan Mountain in Xinjiang(in Chinese), Spectroscopy and Spectral Analysis, 31:3336-3341.

8. **Zhang F**, Xiong H G, Luan F M, Lu W J(2011) Characteristics of field-measured spectral response to alkalization soil(in Chinese), Journal of Infrared and Millimeter Waves, 30:55-60.
9. **Zhang F**, Xiong H G, Long T, Lu W J(2011) Contrastive analysis on soil alkalization predicting models based on measured reflectance and TM image reflectance(in Chinese), Spectroscopy and Spectral Analysis, 31:227-232.
10. **Zhang F**, Xiong H G, Tian Y, Luan F M(2011) Impacts of regional topographic factors on spatial distribution of soil salinization in Qitai Oasis(in Chinese),Research of Environmental Sciences, 24:731-739.