

Xiang Yu, graduated from the University of Chinese Academy of Sciences with a Doctor of Science degree. *Xiang Yu* is currently an associate professor and master supervisor of the School of Resources and Environmental Engineering, Ludong University, and a member of councils of the Shandong Spatial Science Society, the Shandong Geographical Society, the Shandong Soil and Water Conservation Society, and a guest researcher of the Shandong Yellow River Delta Key Laboratory of Ecological Environment. *Xiang Yu* is now invited to act as SCI journal review experts for several SCI journals, such as IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND Remote Sensing(IEEE J-STARS), Remote Sensing, Journal of Remote Sensing, Marine Georesources & Geotechnology etc. *Xiang Yu* has been engaged in remote sensing research on Marine and coastal zones over ten years, and has undertaken more than 20 scientific research projects at the national, provincial, ministerial, municipal and horizontal levels. As the chief completed person, *Xiang Yu* won 9 awards for scientific research achievements at or above the municipal level, such as the second prize of Binzhou Science and Technology Progress Award in 2015, the third prize of Binzhou City Science and Technology progress Award in 2013, and the third prize of outstanding scientific research achievements of Shandong Universities Award in 2013. *Xiang Yu* won the Binzhou Youth Science and Technology Award in 2009, and the title of Advanced individual in Binzhou City Science and Technology work in 2010 and 2012. A total of more than 40 papers have been published, and 20 papers have been included in SCI, including 13 first author/corresponding SCI papers, mainly:

1. *Xiang Yu**, Yan Liu, Jialin Bi, Xiaoyu Cai, Liping Wang, Liangkun Nie, Chao Qiao, Guanghao Li, Chao Zhan, Guoqing Li, Xianbin Liu, Xiaohui Wang. Remotely sensed retrieval of air-sea carbon flux and acidification risk in Chinese Bohai Sea based on a semi-analytical mechanism model with hour-level GOCI image and ERA5 reanalysis data. *Journal of Cleaner Production*, online.

2. Jialin Bi, Yan Liu, Xiangsheng Kong, Liping Wang, Xiaoyu Cai, Liangkun Nie, Chao Zhan, Guoqing Li, Fuxi Wang, Xiaohui Wang, Xianbin Liu, *Xiang Yu**. An improved sea surface salinity retrieval algorithm for the Chinese Bohai Sea based on hyperspectral reconstruction and its applicability analysis. *Journal of Sea Research*, 2023, 195:102437.

3. *Xiang Yu*, Qing Liu, Xin Liu*, Xiangyang Liu, Yebao Wang. A physical-based atmospheric correction algorithm of unmanned aerial vehicles images and its utility analysis. *International Journal of Remote Sensing*, 2017, 38(8-10): 3101–3112. (*An ESI highly cited paper in 2017*)

4. *Xiang Yu*, Qing Liu, Yebao Wang, Xiangyang Liu, Xin Liu*. Evaluation of MLSR and PLSR for estimating soil element contents using visible/near-infrared spectroscopy in apple orchards on the Jiaodong peninsula. *CATENA*, 2016, 137: 340–349.

5. *Xiang Yu*, Huapeng Yi, Xiangyang Liu, Yebao Wang, Xin Liu*, Hua Zhang.

Remote sensing estimation of dissolved inorganic nitrogen concentration in the Bohai Sea using band combinations derived from MODIS data. *International Journal of Remote Sensing*, 2016, 37(2): 327-340.

6. **Xiang Yu***, Bei Xiao, Xiangyang Liu, Yebao Wang, Buli Cui, Xin Liu. Retrieval of remotely sensed sea surface salinity using MODIS data in the Chinese Bohai Sea. *International Journal of Remote Sensing*, 2017, 38:23, 7357-7373.

7. **Xiang Yu**, Yebao Wang, Xiangyang Liu, Xin Liu*. Remote sensing estimation of carbon fractions in the Chinese Yellow River estuary. *Marine georesources & geotechnology*, 2018, 36:2, 202-210.

8. **Xiang Yu**, Baofu Jiang, Binyong Li, Xueli Niu, Xueyu Zhang & Jingtao Liu. Retrieval of remotely sensed air-sea carbon flux in the Chinese Bohai Sea. *Marine georesources & geotechnology*, 2019, 37:3 312-321.

9. **Xiang Yu**, Chao Zhan, Mengquan Wu, Xueli Niu, Xueyu Zhang, Qing Wang & Buli Cui. An improved method for mapping tidal waterways based on remotely sensed waterlines A case study in the Yellow River Delta China. *Marine georesources & geotechnology*, 2020, 38:8, 887-895.

10. **Xiang Yu***, Boyao Li, Tianyi Wang, Yan Liu, Chao Zhan, and Buli Cui. The Horizontal and Vertical Distribution of Nutrients and the Potential Eutrophication Assessment in the Yellow River Estuary in Dry Season. *Journal of Coastal Research*, 2020, 99: 208-213.

11. Chao Zhan, Cheng Dong, Tianyi Wang, Boyao Li, Yan Liu, and **Xiang Yu***. Remotely Sensed Retrieval of Extreme High Surface Suspended Sediment Concentration in the Yellow River Estuary from 1996 to 2017. *Journal of Coastal Research*, 2020, 99: 221-226.

12. **Xiang Yu***, Xianghua Liu, Dongzhi Zhao. Applying Neural Network Classification to Obtain Mangrove Landscape Characteristics for Monitoring the Travel Environment Quality on the Beihai Coast of Guangxi, P. R. China. *Clean – Soil, Air, Water*, 2010, 38 (3): 289 - 295.

13. **Xiang Yu***, Fengshou Zhang, Qing Liu, Deyi Li, Dongzhi Zhao. Analysis of Typical Mangrove Spectral Reflectance Characteristics. *Spectroscopy and Spectral Analysis*, 2013, 33(2), 454-458.

14. Zhigao Su, Wenguang Sun, Chuan Tong, Congsheng Zeng, **Xiang Yu**, Xiaojie Mou. China's coastal wetlands: Conservation history, implementation efforts, existing issues and strategies for future improvement. *Environment International*, 2015, 79 25–41.

15. Xiangyang Liu, Zhiqiang Gao*, Jicai Ning, **Xiang Yu**, Yuanyuan Zhang. An improved method for mapping tidal flats based on remote sensing waterlines: a case study in the Bohai Rim, China. *IEEE Journal of Selected Topics in Applied Earth*

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16.Xin Liu*, Mingxian Guo, Yebao Wang, **Xiang Yu**, Jie Guo, Cheng Tang, Xiaoke Hu, Chuanyuan Wang, Baoquan Li. Assessing pollution-related effects of oil spills from ships in the Chinese Bohai Sea. *Marine pollution bulletin*, 2016, 110: 194-202.

17.Xin Liu*, Guangchen Pan, Yebao Wang, **Xiang Yu**, Xiaoke Hu, Hua Zhang, and Cheng Tang. Public attitudes on funding oil pollution cleanup in the Chinese Bohai Sea. *Journal of Coastal Research*, 2016, 74: 207-213.

18.Yebao Wang, Xiangyang Zheng, **Xiang Yu**, and Xin Liu*. Temperature and salinity effects in modeling the trajectory of the 2011 Penglai 19-3 oil spill, *Marine georesources & geotechnology*, 2017, 35(7):946-953.