**Journal**

**2021：**

1. Zhang, Jin-ming; **Zhu,Wu**.; Cheng, Yi-qing.; Li, Zhen-hong. Landslide Detection in the Linzhi–Ya’an Section along the Sichuan–Tibet Railway Based on InSAR and Hot Spot Analysis Methods. Remote Sensing, 2021, 13, 3566. <https://doi.org/10.3390/rs13183566>.
2. 张严，**朱武\***，赵超英，韩炳权。佛山地铁塌陷InSAR时序监测及机理分析. 工程地质学报, 2021，29(4)，pp1167-1177.
3. Wenting Zhang, **Wu Zhu**\*, Xudong Tian, Qin Zhang, Chaoying Zhao, Yufen Niu, Chisheng Wang. Improved DEM Reconstruction Method based on Multi Baseline InSAR. IEEE Geoscience and Remote Sensing Letters, doi: 10.1109/LGRS.2021.3069239. (In press)
4. 陈镜渊，**朱武**\*，张勤，李振洪. 联合极化SAR和IRI估计三维电子密度分布. 武汉大学学报信息科学版，2021，46（11），pp1677-1685.
5. **W Zhu**, X Q Zhang, Q Zhang and Z H Li. Monitoring and predicting land subsidence associated with land creation over Yan'an New City (China) by using time series InSAR technique. IOP Conf. Series: Earth and Environmental Science 861 (2021) 042055IOP Publishing doi:10.1088/1755-1315/861/4/042055.
6. Bochen Zhang, Xiaoli Ding, Falk Amelung, Chisheng Wang, Wenbin Xu, **Wu Zhu**, Masanobu Shimada, Qingjun Zhang, Toshitaka Baba. Impact of ionosphere on InSAR observation and coseismic slip inversion: Improved slip model for the 2010 Maule, Chile, earthquake. Remote Sensing of Environment, 267(2021)112733.
7. **朱武**，张勤，彭建兵，赵超英，杨成生，张静，赵丽华，瞿伟. 一种基于SAR方位向偏移的电离层层析构建方法. 发明专利, ZL 2018 1 0520905.X.
8. **朱武.** 法拉第旋转法的VTEC计算软件. 软件著作权，2020SR1708364.
9. **朱武.** 光谱分频法法的VTEC计算软件. 软件著作权，2020SR1698672.

**2020：**

1. **Wu Zhu**, Jing-Yuan Chen\*, Qin Zhang and Jin-Min Zhang. Mapping of high-spatial-resolution three-dimensional electron density by combing of full-polarimetric SAR and IRI model. Frontiers in Earth Science. doi: 10.3389/feart.2020.00181, 2020;
2. **Wu Zhu**\*,Yan Zhang, Zhanke Liu and Qian Zhu. Pre- and Postcollapse Ground Deformation Revealed by SAR Interferometry: A Case Study of Foshan (China) Ground Collapse. Journal of Sensors, Article ID 8899054, 17 pages, https://doi.org/10.1155/2020/8899054, 2020.
3. **Wu Zhu**, Xue-qi Zhang, Zhan-ke Liu\*, Qian Zhu. Spatiotemporal characterization of land subsidence in Guandu (China) revealed by multi-sensor InSAR observations. Journal of Sensors, Article ID 8855364, 16 pages, 2020.
4. 张雪琪，**朱武**\*，李文梁，张勤。时序InSAR技术用于延安新区高填方地面沉降监测. 工程地质学报, 2020.

**2019：**

1. **Wu Zhu**, Hyung-Sup Jung, Jing-Yuan Chen. Synthetic Aperture Radar Interferometry (InSAR) Ionospheric Correction Based on Faraday Rotation: Two Case Studies. Applied Sciences, 9(18), 3871,219, 2019.
2. **Wu Zhu**, Wen-Liang Li, Qin Zhang, Yi Yang, Yan Zhang, Wei Qu and Chi-Sheng Wang. A Decade of Ground Deformation in Kunming (China) Revealed by Multi-Temporal Synthetic Aperture Radar Interferometry (InSAR) Technique. Sensor, 19(20), 4425, 2019.
3. Liu, X., Zhao, C., Zhang, Q., Yang, C., & **Zhu, W**. (2019). Heifangtai loess landslide type and failure mode analysis with ascending and descending Spot-mode TerraSAR-X datasets. Landslides, 1-11.

**2018：**

1. Bochen Zhang , Chisheng Wang, Xiaoli Ding , **Wu Zhu**, and Songbo Wu. Correction of Ionospheric Artifacts in SAR Data: Application to Fault Slip Inversion of 2009 Southern Sumatra Earthquake. IEEE Geoscience and Remote Sensing Letters, 15(9): 1327 – 1331, 2018.

2. Wei Qu, Zhong Lu,⁎, Qin Zhang, Ming Hao, Qingliang Wang, Feifei Qu, **Wu Zhu**. Present-day crustal deformation characteristics of the southeastern Tibetan Plateau and surrounding areas by using GPS analysis. Journal of Asian Earth Sciences, 163: 22–31, 2018.

3. Yu-fang He, **Wu Zhu**, Qin Zhang. Compensation of the Ionospheric Effects on SAR Interferogram Based on Range Split-spectrum and Azimuthal Offset Methods- a case study of Yushu Earthquake. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, May 7-10, Beijing,China, 505-509,2018.

**2017：**

1. **Wu Zhu,** Wen-Ting Zhang, Yu-Fang He, and Wei Qu. Performance Evaluation of Azimuth Offset Method for Mitigating the Ionospheric Effect on SAR Interferometry. Journal of Sensors, vol.2017, Article ID 4587475, 10 pages, 2017. doi:10.1155/2017/4587475.

**2016：**

1. **Wu Zhu**, Xiao-Li Ding, Hyung-Sup Jung, Qin Zhang , Bo-Chen Zhang, Wei Qu. Investigation of ionospheric effects on SAR Interferometry (InSAR):A case study of Hong Kong. Advances in Space Research, 58, 564-576, 2016.
2. **Wu Zhu**, Xiao-Li Ding, Hyung-Sup Jung，Qin Zhang. Mitigation of ionospheric phase delay error for SAR interferometry: an application of FR-based and azimuth offset methods. Remote Sensing Letters, 8(1), 58-67, 2017.
3. Zhang Bo-Chen, Ding Xiao-li, **Zhu Wu**, Wang Chi-Sheng, Zhang Lei, Liu Zhi-zhao. Mitigating Ionospheric Artifacts in Coseismic Interferogram Based on Offset Field Derived From ALOS-PALSAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 9(7), 3050-3059, 2016.

**2014:**

1. Qin Zhang, Wu Zhu, Xiaoli Ding, Chaoying Zhao, Chengsheng Yang, Wei Qu. Two-dimensional deformation monitoring over Qingxu (China) by integrating C-, L- and X-bands SAR images. Remote Sensing Letters, 5(1), 27-36, 2014.
2. Wu Zhu, Qin Zhang, Xiaoli Ding, Chaoying Zhao, Chengsheng Yang, Feifei Qu, Wei Qu. Landslide monitoring by combining of CR-InSAR and GPS techniques. Advances in Space Research, 53, 430-439, 2014.
3. Mi Jiang, Xiaoli DING, Zhiwei Li, Xin Tian, Wu Zhu, Chisheng Wang, and Bing Xu. The Improvement for Baran Phase Filter Derived From Unbiased InSAR Coherence. IEEE Journal of selected topics in applied earth observations and remote sensing, 2014.
4. Mi Jiang, Xiaoli DING, Zhiwei Li, Xin Tian, Chisheng Wang, and Wu Zhu. InSAR Coherence Estimation for Small Data Sets and Its Impact on Temporal Decorrelation Extraction. IEEE transactions on geoscience and remote sensing, 2014.
5. Zhao, C., Lu, Z., Zhang, Q., Yang, C., and Zhu, W. Mining collapse monitoring with SAR imagery data: a case study of Datong mine, China. Journal of Applied Remote Sensing, 8(1), 083574-083574, 2014.

**2013：**

1. Wu Zhu, Qin Zhang, Xiaoli Ding, Chaoying Zhao, Chengsheng Yang,Wei Qu. Recent ground deformation of Taiyuan basin (China) investigated with C-, L-, and X-bands SAR images. Journal of Geodynamics, 2013(70), 28-35.
2. Jiang. M, Ding. XL, Li.ZW, Wang.CS, Zhu.W, Ke.LH. InSAR coherence magnitude estimation based on data stack. Chinese Journal of Geophysics, 2013, 56(3):799-811.

蒋弥，丁晓利，李志伟，汪驰升，朱武，柯灵红. 基于时间序列的InSAR相干性量级估计. 地球物理学报，2013, 56(3):799-811.

1. Zhao, C., Zhang, Q., Yin, Y., Lu, Z., Yang, C., Zhu, W., and Li, B. Pre-, co-, and post- rockslide analysis with ALOS/PALSAR imagery: a case study of the Jiweishan rockslide, China. Nature Hazards and Earth System Sciences, 2013: 2851-2861, doi:10.5194/nhess-13-2851-2013, 2013

**2012：**

1. **Zhu Wu**, Zhang Qin, Ding Xiaoli. Multi-reference points for PS-InSAR deformation monitoring data processing research [J]. Acta Geodaetica Cartographic Sinica, 2012, 41(6):886-890.

朱武，张勤，丁晓利. 基于多参考点的PS-InSAR变形监测数据处理研究[J]. 测绘学 报，2012，41(6):886-890.

1. Chaoying Zhao, Feifei Qu, Qin Zhang, Wu Zhu. A combined multi-interferogram algorithm for high resolution DEM reconstruction over deformed regions with TerraSAR-X data. Journal of Geodynamics , 2012(61), 148-153, <http://dx.doi:10.1016/j.jog.2012.04.004>
2. ZHAO Chaoying, ZHANG Qin, ZHU Wu and LU Zhong. Monitoring on Xi’an Ground Fissures Deformation with TerraSAR-X Data [J]. Geomatics and Information Science of Wuhan University, 2012, 37(1):81-85.

[赵超英](http://www.cnki.net/kcms/detail/search.aspx?dbcode=CJFD&sfield=au&skey=%e8%b5%b5%e8%b6%85%e8%8b%b1&code=06459551;06453695;11102048;)， [张勤](http://www.cnki.net/kcms/detail/search.aspx?dbcode=CJFD&sfield=au&skey=%e5%bc%a0%e5%8b%a4&code=06459551;06453695;11102048;)，[朱武](http://www.cnki.net/kcms/detail/search.aspx?dbcode=CJFD&sfield=au&skey=%e6%9c%b1%e6%ad%a6&code=06459551;06453695;11102048;)，路中. [采用TerraSAR-X数据监测西安地裂缝形变](http://acad.cnki.net/kns55/detail.aspx?QueryID=13&CurRec=21&dbcode=cjfd&dbname=CJFDLAST2012&filename=WHCH201201021)[J].武汉大学学报（信息科学版）,2012, 37(1):81-85.

**2011:**

1. W.Zhu, Q.Zhang, XL.Ding et al. Surface deformation analysis of Xian (China) in 2009 carried out with refined SBAS-DInSAR.  Proc. SPIE 8286, 82861H (2011), doi:10.1117/12.912342.

**2010:**

1. **Zhu Wu,** Zhang Qin et al. Monitoring ground fissure in Xian area by using of CR-InSAR [J]. Journal of geodesy and geodynamics, 2010, 30(6): 20-23.

朱武，张勤，赵超英等. 基于CR-InSAR的西安市地裂缝监测研究[J]. 大地测量学与地球动力学，2010，30(6): 20-23.

1. Yang Chengsheng, Zhang Qin, Zhao Chaoying, **ZhuWu**. DInSAR atmospheric delay correction based on MODIS and GPS [J]. Journal of geodesy and geodynamics, 2010, 30(3):127-131.

杨成生，张勤，赵超英，朱武. 基于MODIS和GPS的DInSAR大气延迟改正 [J]. 大地测量学与地球动力学，2010, 30(3):127-131.

**Conference**

1. W.Zhu, Q.Zhang, XL.Ding et al. Surface deformation analysis of Xian (China) in 2009 carried out with refined SBAS-DInSAR [C].  International Symposium on LiDAR and Radar Mapping: Technologies and Application, Nanjing, China, 26-29 May, 2011. (Oral presentation)
2. **W.Zhu**,Q.Zhang, XL.Ding et al. Recent ground deformation in the Taiyuan faulted basin (China) carried out with C-, L-, and X- band SBAS-InSAR technique [C]. The Joint International Symposium on Deformation Monitoring, 1-6 November 2011, Hong Kong, China. **(Oral presentation)**
3. **Wu Zhu**, Qin Zhang, Chaoying Zhao, Chengsheng Yang. The Research of Artificial Corner Reflectors in InSAR. Progress in Electromagnetics Research Symposium, Xi'an, China, March 22-26, 2010. **(Poster presentation)**
4. **Wu Zhu**, Zhang Qin, Ding XL. Landslide monitoring by combining of CR-InSAR and GPS techniques. AOGS-AGU(WPGM) Joint Assembly in Singapore, Singapore, August 13-17,2012 **(Oral presentation)**
5. **Wu Zhu,** Xiao-li Ding. Estimation and compensation of ionospheric effect  
   on InSAR using azimuth offset. Summer school between PolyU and TongJi University, Shanghai, July 23, 2013.
6. **Wu Zhu,** Hyung-Sup Jung, Xiao-li Ding. A study of ionospheric scintillation on InSAR over Hong Kong. International Symposium on Remote Sensing 2014 (ISRS2014), Busan, Korea, 16-18, April, 2014 (**Oral presentation**)
7. Qin Zhang, **Wu Zhu**, Xiaoli Ding, Chaoying Zhao. Detection of regional landslide by using CT-InSAR technique. World Landslide Forum 3 (WLF3), Beijing, China, June, 2-6, 2014. (**Oral presentation**)
8. Chaoying Zhao, Baohang Wang, Qin Zhang, **Wu Zhu**. Batch filtering of multi-baseline SAR interferograms. SAR in Big Data Era: Models, Methods and Applications (BIGSARDATA), Beijing, 2017.
9. Yu-fang He, **Wu Zhu**, Qin Zhang. Compensation of the Ionospheric Effects on SAR Interferogram Based on Range Split-spectrum and Azimuthal Offset Methods- a case study of Yushu Earthquake. International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences, Beijing, China, May, 7-10, 2018.