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## 科研成果

### 专利发明

李熙，马瑞琪，吴传清。一种基于夜光遥感影像的城市范围提取方法 (ZL201810246441.8)

李熙，尹子民，宋杨，李长辉。一种基于异源夜光遥感影像的城市检测方法及装置  
(ZL201910931480.6)

### 学术奖励

天空科技进步数据等一等奖智能处理关键技术及，国家科技，2021年11月15日

珞珈一号01星设计与数据处理关键技术，测绘科技进步特等奖（10/15），2020年

武汉市优秀青年科技工作者，武汉市组织部，2015年

### 人物的典型论文

**李希**, 尚晓宇, 张庆玲, 李德仁, 陈锋锐, 贾明辉, 王艳, 2022。利用辐射强度表征夜间卫星衍生城市光的各向异性, [环境遥感](#), 271, 112920。 (如果 = 13.850)

Li Xi-Ya, **Li Xi\***, Fan Ziying, Mi Li, Kandakji Tarek, Song Zhen, Li Deren, Song Xiao-Peng\*, 2022. 内战阻碍了叙利亚的作物生产并威胁粮食安全, [Nature Food](#), Li2022 ,2662 -1355。 (如果 = 20.430)

Levin Noam, Kyba Christopher CM, Zhang Qingling, Sánchez de Miguel Alejandro, Román Miguel O., **Xi Li**, Portnov Boris A., Molthan Andrew L., Jechow Andreas, Miller Steven D., 王卓森, Shrestha Ranjay M., Elvidge Christopher D., 2020 年。夜灯遥感：回顾和未来展望。, [环境遥感](#), 237 ,111443。 (如果 = 13.850)

**李希**, 诺姆·莱文, 谢金龙, 李德仁, 2020。无人机夜间夜间灯光监测及其对卫星遥感的影响, [环境遥感](#), 247, 111942。 (如果 = 13.850)

---

**李希**, 马瑞琪, 张庆玲, 李德仁, 刘珊珊, 何涛, 赵立宪, 2019. 夜间人工光的各向异性特征——利用VIIRS DNB多时相观测进行系统研究, [环境遥感](#), 233, 111357。 (如果 = 13.850)

## 优秀的主要论文

**李希**, 尚晓宇, 张庆玲, 李德仁, 陈锋锐, 贾明辉, 王艳, 2022. 用辐射强度表征夜间卫星城市光的各向异性, [环境遥感](#), 271, 112920

---

Li Xi-Ya, **Li Xi\***, Fan Ziying, Mi Li, Kandakji Tarek, Song Zhen, Li Deren, Song Xiao-Peng\*, 2022. 内战阻碍了叙利亚的作物生产并威胁粮食安全, [Nature Food](#), 2022, 2662 -1355

---

佟哲, **李希\***, 曹涵瑞, 2021. DMSP/OLS 稳定夜间光与辐射校准夜间光的比较, [IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing](#), 14, 11116-11125

---

Kangbo Dong, **Xi Li\***, Hanrui Cao, Zhe Tong, 2021. Intercalibration Between Night-Time DMSP/OLS Radiance Calibrated Images and NPP/VIIRS Images Using Stable Pixels, [IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing](#), 14, 8838-8848

---

Hanrui Cao, **Xi Li\***, Zhe Tong, 2021. Image Saturation on Radiometric Intercalibration of DMSP/OLS Nighttime Light Images, [IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing](#), 14, 7948-7960

---

Ji Wu, Zhi Zhang, Xiao Yang, **Xi Li\***, 2021. Analyzing Pixel-Level Relationships between Luojia 1-01 Nighttime Light and Urban Surface Features by Separating the Pixel Blooming Effect, [Remote Sensing](#), 13(23), 4838

---

Levin Noam, Kyba Christopher C.M., Zhang Qingling, Sánchez de Miguel Alejandro, Román Miguel O., **Xi Li**, Portnov Boris A., Molthan Andrew L., Jechow Andreas, Miller Steven D., Wang Zhuosen, Shrestha Ranjay M., Elvidge Christopher D., 2020. Remote sensing of night lights: A review and an outlook for the future., [Remote Sensing of Environment](#), 237, 111443

Xia Zhao, **Xi Li\***, Yuyu Zhou\*, Deren Li, 2020. Analyzing Urban Spatial Connectivity Using Night Light Observations: A Case Study of Three Representative Urban Agglomerations in China, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* ,13 ,1097-1108

---

Lin Zhang, **Xi Li\***, Fengrui Chen, 2020. Spatiotemporal Analysis of Venezuela's Nighttime Light During the Socioeconomic Crisis, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* ,13 ,2396-2408

---

Zimin Yin, **Xi Li\***, Fei Tong, Zhibiao Li, Michael Jendryke, 2020. Mapping urban expansion using nighttime light images from Luojia1-01 and International Space Station, *International Journal of Remote Sensing* ,41(7) ,2603-2623

---

**Xi Li**, Noam Levin, Jinlong Xie, Deren Li, 2020. Monitoring hourly night-time light by an unmanned aerial vehicle and its implications to satellite remote sensing, *Remote Sensing of Environment* ,247 ,111942

---

Liu Shanshan, **Xi Li**, Noam Levin, Michael Jendryke, 2019. Tracing cultural festival patterns using time-series of VIIRS monthly products, *Remote Sensing Letters* ,10(12) ,1172-1181

---

**Xi Li**, Ruiqi Ma, Qingling Zhang, Deren Li, Shanshan Liu, Tao He, Lixian Zhao, 2019. Anisotropic characteristic of artificial light at night – Systematic investigation with VIIRS DNB multi-temporal observations, *Remote Sensing of Environment* ,233 ,111357

---

**Xi Li**, Xiya Li, Deren Li, Xiaojun He, Michael Jendryke, 2019. A preliminary investigation of Luojia-1 night-time light imagery, *Remote Sensing Letters* ,10(6) ,526-535

---

**Xi Li**, Lixian Zhao, Wenjun Han, Bouarouri Faouzi, Prosper Washaya, Xubing Zhang, Huazhong Jin, Chuanqing Wu, 2018. Evaluating Algeria's social and economic development using a series of night-time light images between 1992 to 2012, *International Journal of Remote Sensing* ,39(23) ,9228-9248

---

Xia Zhao, Deren Li, **Xi Li\***, Lixian Zhao, Chuanqing Wu, 2018. Spatial and seasonal patterns of night-time lights in global ocean derived from VIIRS DNB images, *International Journal of Remote Sensing* ,39(22)

---

**Xi Li**, Shanshan Liu, Michael Jendryke, Deren Li, Chuanqing Wu, 2018. Night-Time Light Dynamics during the Iraqi Civil War, *Remote Sensing* ,10(6) ,858

---

**Xi Li**, Lixian Zhao, Deren Li, Huimin Xu, 2018. Mapping Urban Extent Using Luojia 1-01 Nighttime Light Imagery, *Sensors* ,18(11) ,3665

---

**Xi Li**, Christopher Elvidge, Yuyu Zhou, Changyong Cao, Timothy Warner, 2017. Remote sensing of nighttime light, *International Journal of Remote Sensing* ,38(21) ,5855-5859

---

**Xi Li**, Deren Li, Huimin Xu, Chuanqing Wu, 2017. Intercalibration between DMSP/OLS and VIIRS nighttime light images to evaluate city light dynamics of Syria's major human settlement during Syrian Civil War, *International Journal of Remote Sensing* ,38(21) ,5934-5951

---

Deren Li, Xia Zhao, **Xi Li**, 2016. Remote sensing of human beings – a perspective from nighttime light, *Geo-spatial Information Science* ,19(1) ,69-79

---

Fengrui Chen\*, **Xi Li\***, 2016. Evaluation of IMERG and TRMM 3B43 Monthly Precipitation Products over Mainland China, *Remote Sensing* ,8(6) ,472

---

Huimin Xu\*, Huta Yang, **Xi Li\***, Huiran Jin, Deren Li, 2015. Multi-Scale Measurement of Regional Inequality in Mainland China during 2005–2010 Using DMSP/OLS Night Light Imagery and Population Density Grid Data, *Sustainability* ,7(10) ,13469–13499

---

**Xi Li**, Rui Zhang, Chengquan Huang, Deren Li, 2015. Detecting 2014 Northern Iraq Insurgency using night-time light imagery, *International Journal of Remote Sensing* ,36(13) ,3446-3458

---

**Xi Li**, Linlin Ge, Xiaonling Chen, 2014. Quantifying Contribution of Land Use Types to Nighttime Light Using an Unmixing Model, *IEEE Geoscience and Remote Sensing Letters* ,11(10) ,1667-1671

**Xi Li**, Deren Li, 2014. Can Night-Time Light Images Play a Role in Evaluating the Syrian Crisis?, *Int. J. Remote Sens.* ,35(18) ,6648–6661

---

Wentao Ye, **Xi Li**, Xiaoling Chen, Guo Zhang, 2014. A spectral index for highlighting forest cover from remotely sensed imagery, *Land Surface Remote Sensing II* ,9260 ,287-295

---

**Xi Li**, Fengrui Chen, Xiaoling Chen, 2013. Satellite-Observed Nighttime Light Variation as Evidence for Global Armed Conflicts, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* ,6(5) ,2302-2315

---

**Xi Li**, Xiaoling Chen, Yousong Zhao, Jia Xu, Fengrui Chen, Hui Li, 2013. Automatic intercalibration of night-time light imagery using robust regression, *Remote Sensing Letters* ,4(1) ,45-54

---

**Xi Li**, Huimin Xu, Xiaoling Chen, Chang Li, 2013. Potential of NPP-VIIRS Nighttime Light Imagery for Modeling the Regional Economy of China, *Remote Sensing* ,5(6) ,3057–3081

---

**Xi Li**, Linlin Ge, Xiaoling Chen, 2013. Detecting Zimbabwe's Decadal Economic Decline Using Nighttime Light Imagery, *Remote Sensing* ,5(9) ,4551–4570

---

**Xi Li**, Wentao Ye, Xiaoling Chen, Nengcheng Chen, Jia Xu, Fengrui Chen, 2012. Impact of training database on super resolution-based spectral unmixing, *Remote Sensing Letters* ,3(8) ,647-655

---

**Xi Li**, Liqiao Tian, Xi Zhao, Xiaoling Chen, 2011. A super resolution approach for spectral unmixing of remote sensing images, *International Journal of Remote Sensing* ,32(21) ,6091-6107

---

李德仁, **李熙**, 2018. 夜光遥感技术在人道主义灾难评估中的应用, *自然杂志* ,44(3) ,169-175

---

李德仁, 余涵若, **李熙**, 2017. 基于夜光遥感影像的“一带一路”沿线国家城市发展时空格局分析, *武汉大学学报·信息科学版* ,42(6) ,711-720

---

李德仁,李熙, 201 .论夜光遥感数据挖掘,*测绘学报*,44(6),91-601

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