# Xue-Cao Li

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5718055/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 93 papers | 6,773 citations | 66343 42 h-index | 62596 80 g-index |
| 99 all docs | 99 docs citations | 99 times ranked | 4774 citing authors |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 1 | Annual maps of global artificial impervious area (GAIA) between 1985 and 2018. Remote Sensing of Environment, 2020, 236, 111510. | 11.0 | 535 |
| 2 | High-spatiotemporal-resolution mapping of global urban change from 1985 to 2015. Nature Sustainability, 2020, 3, 564-570. | 23.7 | 391 |
| 3 | 40-Year (1978â€"2017) human settlement changes in China reflected by impervious surfaces from satellite remote sensing. Science Bulletin, 2019, 64, 756-763. | 9.0 | 319 |
| 4 | Mapping Urban Land Use by Using Landsat Images and Open Social Data. Remote Sensing, 2016, 8, 151. | 4.0 | 292 |
| 5 | A 30-year (1984â€"2013) record of annual urban dynamics of Beijing City derived from Landsat data. Remote Sensing of Environment, 2015, 166, 78-90. | 11.0 | 283 |
| 6 | Mapping essential urban land use categories in China (EULUC-China): preliminary results for 2018. Science Bulletin, 2020, 65, 182-187. | 9.0 | 247 |
| 7 | Mapping global urban boundaries from the global artificial impervious area (GAIA) data. Environmental Research Letters, 2020, 15, 094044. | 5.2 | 240 |
| 8 | A harmonized global nighttime light dataset 1992â€"2018. Scientific Data, 2020, 7, 168. | 5.3 | 237 |
| 9 | The surface urban heat island response to urban expansion: A panel analysis for the conterminous United States. Science of the Total Environment, 2017, 605-606, 426-435. | 8.0 | 210 |
| 10 | A global record of annual urban dynamics (1992â€"2013) from nighttime lights. Remote Sensing of Environment, 2018, 219, 206-220. | 11.0 | 193 |
| 11 | Applications of Satellite Remote Sensing of Nighttime Light Observations: Advances, Challenges, and Perspectives. Remote Sensing, 2019, 11, 1971. | 4.0 | 171 |
| 12 | Urban mapping using DMSP/OLS stable night-time light: a review. International Journal of Remote Sensing, 2017, 38, 6030-6046. | 2.9 | 150 |
| 13 | Mapping urban dynamics (1992â€"2018) in Southeast Asia using consistent nighttime light data from DMSP and VIIRS. Remote Sensing of Environment, 2020, 248, 111980. | 11.0 | 146 |
| 14 | Meta-discoveries from a synthesis of satellite-based land-cover mapping research. International Journal of Remote Sensing, 2014, 35, 4573-4588. | 2.9 | 130 |
| 15 | Response of vegetation phenology to urbanization in the conterminous United States. Global Change Biology, 2017, 23, 2818-2830. | 9.5 | 130 |
| 16 | Urban growth models: progress and perspective. Science Bulletin, 2016, 61, 1637-1650. | 9.0 | 127 |
| 17 | A multi-resolution global land cover dataset through multisource data aggregation. Science China Earth Sciences, 2014, 57, 2317-2329. | 5.2 | 116 |
| 18 | Garlic and Winter Wheat Identification Based on Active and Passive Satellite Imagery and the Google Earth Engine in Northern China. Remote Sensing, 2020, 12, 3539. | 4.0 | 111 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Urban warming advances spring phenology but reduces the response of phenology to temperature in the conterminous United States. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4228-4233. | 7.1 | 109 |
| 20 | Integrating LiDAR data and multi-temporal aerial imagery to map wetland inundation dynamics using Google Earth Engine. Remote Sensing of Environment, 2019, 228, 1-13. | 11.0 | 108 |
| 21 | The first all-season sample set for mapping global land cover with Landsat-8 data. Science Bulletin, 2017, 62, 508-515. | 9.0 | 104 |
| 22 | Mapping annual urban dynamics (1985â€“2015) using time series of Landsat data. Remote Sensing of Environment, 2018, 216, 674-683. | 11.0 | 101 |
| 23 | Building a Series of Consistent Night-Time Light Data (1992â€“2018) in Southeast Asia by Integrating DMSP-OLS and NPP-VIIRS. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1843-1856. | 6.3 | 100 |
| 24 | A global record of annual terrestrial Human Footprint dataset from 2000 to 2018. Scientific Data, 2022, 9, 176. | 5.3 | 87 |
| 25 | Projecting Global Urban Area Growth Through 2100 Based on Historical Time Series Data and Future Shared Socioeconomic Pathways. Earth's Future, 2019, 7, 351-362. | 6.3 | 85 |
| 26 | Spatiotemporal patterns of summer urban heat island in Beijing, China using an improved land surface temperature. Journal of Cleaner Production, 2020, 257, 120529. | 9.3 | 85 |
| 27 | Developing a method to estimate building height from Sentinel-1 data. Remote Sensing of Environment, 2020, 240, 111705. | 11.0 | 83 |
| 28 | A systematic sensitivity analysis of constrained cellular automata model for urban growth simulation based on different transition rules. International Journal of Geographical Information Science, 2014, 28, 1317-1335. | 4.8 | 79 |
| 29 | A Stepwise Calibration of Global DMSP/OLS Stable Nighttime Light Data (1992â€“2013). Remote Sensing, 2017, 9, 637. | 4.0 | 79 |
| 30 | A new research paradigm for global land cover mapping. Annals of GIS, 2016, 22, 87-102. | 3.1 | 77 |
| 31 | Progress and Trends in the Application of Google Earth and Google Earth Engine. Remote Sensing, 2021, 13, 3778. | 4.0 | 71 |
| 32 | A cellular automata downscaling based 1 km global land use datasets (2010â€“2100). Science Bulletin, 2016, 61, 1651-1661. | 9.0 | 68 |
| 33 | Evaluation of the policy-driven ecological network in the Three-North Shelterbelt region of China. Landscape and Urban Planning, 2022, 218, 104305. | 7.5 | 67 |
| 34 | A global dataset of annual urban extents (1992â€“2020) from harmonized nighttime lights. Earth System Science Data, 2022, 14, 517-534. | 9.9 | 66 |
| 35 | Mapping changes in coastlines and tidal flats in developing islands using the full time series of Landsat images. Remote Sensing of Environment, 2020, 239, 111665. | 11.0 | 64 |
| 36 | An â€œexclusion-inclusionâ€•framework for extracting human settlements in rapidly developing regions of China from Landsat images. Remote Sensing of Environment, 2016, 186, 286-296. | 11.0 | 55 |

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|---|---|---|---|
| 37 | A dataset of 30â€‰m annual vegetation phenology indicators (1985â€“2015) in urban areas of the conterminous United States. Earth System Science Data, 2019, 11, 881-894. | 9.9 | 54 |
| 38 | A segment derived patch-based logistic cellular automata for urban growth modeling with heuristic rules. Computers, Environment and Urban Systems, 2017, 65, 140-149. | 7.1 | 53 |
| 39 | Characterizing spatiotemporal dynamics in phenology of urban ecosystems based on Landsat data. Science of the Total Environment, 2017, 605-606, 721-734. | 8.0 | 51 |
| 40 | Long-Term Annual Mapping of Four Cities on Different Continents by Applying a Deep Information Learning Method to Landsat Data. Remote Sensing, 2018, 10, 471. | 4.0 | 50 |
| 41 | Dynamic assessment of the impact of drought on agricultural yield and scale-dependent return periods over large geographic regions. Environmental Modelling and Software, 2014, 62, 454-464. | 4.5 | 44 |
| 42 | Integrating ensemble-urban cellular automata model with an uncertainty map to improve the performance of a single model. International Journal of Geographical Information Science, 2015, 29, 762-785. | 4.8 | 44 |
| 43 | Global urban growth between 1870 and 2100 from integrated high resolution mapped data and urban dynamic modeling. Communications Earth & Environment, 2021, 2, . | 6.8 | 43 |
| 44 | Mapping essential urban land use categories with open big data: Results for five metropolitan areas in the United States of America. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 203-218. | 11.1 | 42 |
| 45 | Modeling the impacts of water and fertilizer management on the ecosystem service of rice rotated cropping systems in China. Agriculture, Ecosystems and Environment, 2016, 219, 49-57. | 5.3 | 41 |
| 46 | Monitoring surface mining belts using multiple remote sensing datasets: A global perspective. Ore Geology Reviews, 2018, 101, 675-687. | 2.7 | 40 |
| 47 | Exploring Annual Urban Expansions in the Guangdong-Hong Kong-Macau Greater Bay Area: Spatiotemporal Features and Driving Factors in 1986â€“2017. Remote Sensing, 2020, 12, 2615. | 4.0 | 39 |
| 48 | Rapid corn and soybean mapping in US Corn Belt and neighboring areas. Scientific Reports, 2016, 6, 36240. | 3.3 | 38 |
| 49 | Divergent responses of spring phenology to daytime and nighttime warming. Agricultural and Forest Meteorology, 2020, 281, 107832. | 4.8 | 38 |
| 50 | Lineageâ€level distribution models lead to more realistic climate change predictions for a threatened crayfish. Diversity and Distributions, 2021, 27, 684-695. | 4.1 | 35 |
| 51 | Spatialâ€“Temporal Evolution of Vegetation NDVI in Association with Climatic, Environmental and Anthropogenic Factors in the Loess Plateau, China during 2000â€“2015: Quantitative Analysis Based on Geographical Detector Model. Remote Sensing, 2021, 13, 4380. | 4.0 | 32 |
| 52 | Evaluation of Light Pollution in Global Protected Areas from 1992 to 2018. Remote Sensing, 2021, 13, 1849. | 4.0 | 31 |
| 53 | A national dataset of 30â€‰m annual urban extent dynamics (1985â€“2015) in the conterminous United States. Earth System Science Data, 2020, 12, 357-371. | 9.9 | 31 |
| 54 | Increasing global urban exposure to flooding: An analysis of long-term annual dynamics. Science of the Total Environment, 2022, 817, 153012. | 8.0 | 31 |

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|---|---|---|---|
| 55 | The divergent response of vegetation phenology to urbanization: A case study of Beijing city, China. Science of the Total Environment, 2022, 803, 150079. | 8.0 | 30 |
| 56 | Monitoring Annual Urban Changes in a Rapidly Growing Portion of Northwest Arkansas with a 20-Year Landsat Record. Remote Sensing, 2017, 9, 71. | 4.0 | 28 |
| 57 | An improved urban cellular automata model by using the trend-adjusted neighborhood. Ecological Processes, 2020, 9, . | 3.9 | 27 |
| 58 | Forest disturbance interactions and successional pathways in the Southern Rocky Mountains. Forest Ecology and Management, 2016, 375, 35-45. | 3.2 | 26 |
| 59 | Aggregative model-based classifier ensemble for improving land-use/cover classification of Landsat TM Images. International Journal of Remote Sensing, 2014, 35, 1481-1495. | 2.9 | 23 |
| 60 | Association Between Changes in Timing of Spring Onset and Asthma Hospitalization in Maryland. JAMA Network Open, 2020, 3, e207551. | 5.9 | 22 |
| 61 | Monitoring long-term annual urban expansion (1986â€"2017) in the largest archipelago of China. Science of the Total Environment, 2021, 776, 146015. | 8.0 | 21 |
| 62 | Assessing spatiotemporal variations and predicting changes in ecosystem service values in the Guangdongâ€"Hong Kongâ€"Macao Greater Bay Area. GIScience and Remote Sensing, 2022, 59, 184-199. | 5.9 | 21 |
| 63 | Mapping corn dynamics using limited but representative samples with adaptive strategies. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 190, 252-266. | 11.1 | 21 |
| 64 | Ten years after Hurricane Katrina: monitoring recovery in New Orleans and the surrounding areas using remote sensing. Science Bulletin, 2016, 61, 1460-1470. | 9.0 | 20 |
| 65 | Characterizing the relationship between satellite phenology and pollen season: A case study of birch. Remote Sensing of Environment, 2019, 222, 267-274. | 11.0 | 20 |
| 66 | Using a global reference sample set and a cropland map for area estimation in China. Science China Earth Sciences, 2017, 60, 277-285. | 5.2 | 18 |
| 67 | A 1â€‰km global cropland dataset from 10â€‰000â€‰BCE to 2100â€‰CE. Earth System Science Data, 2021, 13, 5403-5421. | 9.5 | 18 |
| 68 | Evaluating the effect of plain afforestation project and future spatial suitability in Beijing. Science China Earth Sciences, 2020, 63, 1587-1598. | 5.2 | 17 |
| 69 | Mapping Essential Urban Land Use Categories in Beijing with a Fast Area of Interest (AOI)-Based Method. Remote Sensing, 2021, 13, 477. | 4.0 | 17 |
| 70 | Assimilating remote sensing-based VPM GPP into the WOFOST model for improving regional winter wheat yield estimation. European Journal of Agronomy, 2022, 139, 126556. | 4.1 | 17 |
| 71 | Migration of Rural Residents to Urban Areas Drives Grassland Vegetation Increase in Chinaâ€™s Loess Plateau. Sustainability, 2019, 11, 6764. | 3.2 | 16 |
| 72 | Integrating remote sensing, GIS and dynamic models for landscape-level simulation of forest insect disturbance. Ecological Modelling, 2017, 354, 1-10. | 2.5 | 15 |

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|---|---|---|---|
| 73 | A dataset of winter wheat aboveground biomass in China during 2007â€“2015 based on data assimilation. Scientific Data, 2022, 9, 200. | 5.3 | 15 |
| 74 | Exploring difference in land surface temperature between the city centres and urban expansion areas of Chinaâ€™s major cities. International Journal of Remote Sensing, 2020, 41, 8965-8985. | 2.9 | 13 |
| 75 | Exploring the Use of DSCOVR/EPIC Satellite Observations to Monitor Vegetation Phenology. Remote Sensing, 2020, 12, 2384. | 4.0 | 11 |
| 76 | Mapping hourly population dynamics using remotely sensed and geospatial data: a case study in Beijing, China. GIScience and Remote Sensing, 2021, 58, 717-732. | 5.9 | 11 |
| 77 | Critical role of temporal contexts in evaluating urban cellular automata models. GIScience and Remote Sensing, 2021, 58, 799-811. | 5.9 | 10 |
| 78 | A 30â€‰m annual maize phenology dataset from 1985 to 2020 in China. Earth System Science Data, 2022, 14, 2851-2864. | 9.9 | 10 |
| 79 | A systematic review on comprehensive sloping farmland utilization based on a perspective of scientometrics analysis. Agricultural Water Management, 2021, 244, 106564. | 5.6 | 9 |
| 80 | Characteristics and trends of hillside urbanization in China from 2007 to 2017. Habitat International, 2022, 120, 102502. | 5.8 | 9 |
| 81 | Evaluation and modification of ELM seasonal deciduous phenology against observations in a southern boreal peatland forest. Agricultural and Forest Meteorology, 2021, 308-309, 108556. | 4.8 | 7 |
| 82 | High-resolution urban change modeling and flood exposure estimation at a national scale using open geospatial data: A case study of the Philippines. Computers, Environment and Urban Systems, 2021, 90, 101704. | 7.1 | 7 |
| 83 | Satellite-based phenology products and in-situ pollen dynamics: A comparative assessment. Environmental Research, 2022, 204, 111937. | 7.5 | 7 |
| 84 | Corn Residue Covered Area Mapping with a Deep Learning Method Using Chinese GF-1 B/D High Resolution Remote Sensing Images. Remote Sensing, 2021, 13, 2903. | 4.0 | 6 |
| 85 | Exploring the performance of spatio-temporal assimilation in an urban cellular automata model. International Journal of Geographical Information Science, 2017, 31, 2195-2215. | 4.8 | 5 |
| 86 | Analysis of geo-spatiotemporal data using machine learning algorithms and reliability enhancement for urbanization decision support. International Journal of Digital Earth, 2020, 13, 1717-1732. | 3.9 | 5 |
| 87 | Extraction of Old Towns in Hangzhou (2000â€“2018) from Landsat Time Series Image Stacks. Remote Sensing, 2021, 13, 2438. | 4.0 | 5 |
| 88 | Winter Warming in North America Induced by Urbanization in China. Geophysical Research Letters, 2021, 48, e2021GL095465. | 4.0 | 4 |
| 89 | The Potential of 3-D Building Height Data to Characterize Socioeconomic Activities: A Case Study from 38 Cities in China. Remote Sensing, 2022, 14, 2087. | 4.0 | 4 |
| 90 | Detection and attribution of long-term and fine-scale changes in spring phenology over urban areas: A case study in New York State. International Journal of Applied Earth Observation and Geoinformation, 2022, 110, 102815. | 1.9 | 2 |

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|---|---|---|---|
| 91 | Toward a Better Understanding of Urban Sprawl: Linking Spatial Metrics and Landscape Networks Dynamics. Lecture Notes in Geoinformation and Cartography, 2019, , 163-178. | 1.0 | 1 |
| 92 | Diversity in global urban sprawl patterns revealed by Zipfian dynamics. Remote Sensing Letters, 2023, 14, 565-575. | 1.4 | 1 |
| 93 | Grassland Aboveground Biomass Estimation through Assimilating Remote Sensing Data into a Grass Simulation Model. Remote Sensing, 2022, 14, 3194. | 4.0 | 1 |