

Li-Yang Xiong

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,162
citations

394286

19
h-index

434063

31
g-index

65
all docs

65
docs citations

65
times ranked

619
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Detecting Colocation Flow Patterns in the Geographical Interaction Data. <i>Geographical Analysis</i> , 2022, 54, 84-103. | 1.9 | 13 |
| 2 | Using vertices of a triangular irregular network to calculate slope and aspect. <i>International Journal of Geographical Information Science</i> , 2022, 36, 382-404. | 2.2 | 7 |
| 3 | Integrating topographic knowledge into deep learning for the void-filling of digital elevation models. <i>Remote Sensing of Environment</i> , 2022, 269, 112818. | 4.6 | 31 |
| 4 | Generating Terrain Data for Geomorphological Analysis by Integrating Topographical Features and Conditional Generative Adversarial Networks. <i>Remote Sensing</i> , 2022, 14, 1166. | 1.8 | 7 |
| 5 | Mathematical vector framework for gravity-specific land surface curvatures calculation from triangulated irregular networks. <i>GIScience and Remote Sensing</i> , 2022, 59, 590-608. | 2.4 | 9 |
| 6 | Scientific attributes and expression methods of geographical boundary. <i>Journal of Chinese Geography</i> , 2022, 32, 1119-1135. | 1.5 | 6 |
| 7 | Quantification of terrain plan concavity and convexity using aspect vectors from digital elevation models. <i>Geomorphology</i> , 2021, 375, 107553. | 1.1 | 10 |
| 8 | Status analysis of geographic information science major in Chinese higher education. <i>Annals of GIS</i> , 2021, 27, 111-126. | 1.4 | 1 |
| 9 | Formation of asymmetrical loess gullies in the northeastern loess plateau of China. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 758-774. | 1.2 | 3 |
| 10 | Extracting check dam areas from high-resolution imagery based on the integration of object-based image analysis and deep learning. <i>Land Degradation and Development</i> , 2021, 32, 2303-2317. | 1.8 | 17 |
| 11 | Geomorphology-oriented digital terrain analysis: Progress and perspectives. <i>Journal of Chinese Geography</i> , 2021, 31, 456-476. | 1.5 | 65 |
| 12 | Quantifying the spatial distribution of sediment transport in an experimental gully system using the morphological method. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1188-1208. | 1.2 | 11 |
| 13 | Spatial-temporal variation of land use and land cover change in the glacial affected area of the Tianshan Mountains. <i>Catena</i> , 2021, 202, 105256. | 2.2 | 29 |
| 14 | Terraces mapping by using deep learning approach from remote sensing images and digital elevation models. <i>Transactions in GIS</i> , 2021, 25, 2438-2454. | 1.0 | 10 |
| 15 | Mining spatial patterns of food culture in China using restaurant POI data. <i>Transactions in GIS</i> , 2021, 25, 579-601. | 1.0 | 17 |
| 16 | Quantification of Loess Landforms from Three-Dimensional Landscape Pattern Perspective by Using DEMs. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 693. | 1.4 | 12 |
| 17 | Clustering gully profiles for investigating the spatial variation in landform formation on the Chinese Loess Plateau. <i>Journal of Mountain Science</i> , 2021, 18, 2742-2760. | 0.8 | 4 |
| 18 | Clustering stream profiles to understand the geomorphological features and evolution of the Yangtze River by using DEMs. <i>Journal of Chinese Geography</i> , 2021, 31, 1555-1574. | 1.5 | 1 |

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|----|---|-----|-----------|
| 19 | Integrated edge detection and terrain analysis for agricultural terrace delineation from remote sensing images. <i>International Journal of Geographical Information Science</i> , 2020, 34, 484-503. | 2.2 | 25 |
| 20 | Inference method for cultural diffusion patterns using a field model. <i>Transactions in GIS</i> , 2020, 24, 1578-1601. | 1.0 | 9 |
| 21 | A Vector Operation to Extract Second-Order Terrain Derivatives from Digital Elevation Models. <i>Remote Sensing</i> , 2020, 12, 3134. | 1.8 | 12 |
| 22 | Optimized Segmentation Based on the Weighted Aggregation Method for Loess Bank Gully Mapping. <i>Remote Sensing</i> , 2020, 12, 793. | 1.8 | 24 |
| 23 | UAV-Based Terrain Modeling under Vegetation in the Chinese Loess Plateau: A Deep Learning and Terrain Correction Ensemble Framework. <i>Remote Sensing</i> , 2020, 12, 3318. | 1.8 | 7 |
| 24 | Deep learning-based approach for landform classification from integrated data sources of digital elevation model and imagery. <i>Geomorphology</i> , 2020, 354, 107045. | 1.1 | 97 |
| 25 | Identifying ephemeral gullies from high-resolution images and DEMs using flow-directional detection. <i>Journal of Mountain Science</i> , 2020, 17, 3024-3038. | 0.8 | 10 |
| 26 | Computer-assisted terrain sketch mapping that considers the geomorphological features in a loess landform. <i>Geomorphology</i> , 2020, 364, 107169. | 1.1 | 3 |
| 27 | Evolution of the Physical and Social Spaces of "Village Resettlement Communities"™ from the Production of Space Perspective: A Case Study of Qunyi Community in Kunshan. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2980. | 1.2 | 10 |
| 28 | Multi-modal deep learning for landform recognition. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 158, 63-75. | 4.9 | 56 |
| 29 | Modeling the Spatial Formation Mechanism of Poverty-Stricken Counties in China by Using Geographical Detector. <i>Sustainability</i> , 2019, 11, 4752. | 1.6 | 11 |
| 30 | Classification of Karst Fenglin and Fengcong Landform Units Based on Spatial Relations of Terrain Feature Points from DEMs. <i>Remote Sensing</i> , 2019, 11, 1950. | 1.8 | 13 |
| 31 | Combined gully profiles for expressing surface morphology and evolution of gully landforms. <i>Frontiers of Earth Science</i> , 2019, 13, 551-562. | 0.9 | 13 |
| 32 | Significance of Loess Landform Inheritance. <i>Springer Geography</i> , 2019, , 1-31. | 0.3 | 0 |
| 33 | Effects of DEM resolution on the accuracy of gully maps in loess hilly areas. <i>Catena</i> , 2019, 177, 114-125. | 2.2 | 44 |
| 34 | Improved Priority-Flood method for depression filling by redundant calculation optimization in local micro-relief areas. <i>Transactions in GIS</i> , 2019, 23, 259-274. | 1.0 | 8 |
| 35 | Investigation of Loess Landform Inheritance by Using Quantitative Terrain Indexes. <i>Springer Geography</i> , 2019, , 135-168. | 0.3 | 1 |
| 36 | Conceptual Model of Loess Landform Inheritance. <i>Springer Geography</i> , 2019, , 47-74. | 0.3 | 0 |

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|----|--|-----|-----------|
| 37 | Spatial Variations in Loess Landform Inheritance. Springer Geography, 2019, , 169-204. | 0.3 | 0 |
| 38 | Reconstruction of the Loess Underlying Paleotopography for Loess Landform Inheritance. Springer Geography, 2019, , 75-133. | 0.3 | 0 |
| 39 | General Background of the Study Area and Materials. Springer Geography, 2019, , 33-46. | 0.3 | 0 |
| 40 | A terrain openness index for the extraction of karst Fenglin and Fengcong landform units from DEMs. Journal of Mountain Science, 2018, 15, 752-764. | 0.8 | 15 |
| 41 | Natural topographic controls on the spatial distribution of poverty-stricken counties in China. Applied Geography, 2018, 90, 282-292. | 1.7 | 45 |
| 42 | Saddle Position-Based Method for Extraction of Depressions in Fengcong Areas by Using Digital Elevation Models. ISPRS International Journal of Geo-Information, 2018, 7, 136. | 1.4 | 6 |
| 43 | Bidirectional DEM relief shading method for extraction of gully shoulder line in loess tableland area. Physical Geography, 2018, 39, 368-386. | 0.6 | 24 |
| 44 | A peak-cluster assessment method for the identification of upland planation surfaces. International Journal of Geographical Information Science, 2017, 31, 387-404. | 2.2 | 16 |
| 45 | Paleotopographic controls on modern gully evolution in the loess landforms of China. Science China Earth Sciences, 2017, 60, 438-451. | 2.3 | 19 |
| 46 | Automatic recognition of loess landforms using Random Forest method. Journal of Mountain Science, 2017, 14, 885-897. | 0.8 | 35 |
| 47 | Regional topographic classification in the North Shaanxi Loess Plateau based on catchment boundary profiles. Progress in Physical Geography, 2017, 41, 302-324. | 1.4 | 11 |
| 48 | Chinese progress in geomorphometry. Journal of Chinese Geography, 2017, 27, 1389-1412. | 1.5 | 44 |
| 49 | Topographic Spatial Variation Analysis of Loess Shoulder Lines in the Loess Plateau of China Based on MF-DFA. ISPRS International Journal of Geo-Information, 2017, 6, 141. | 1.4 | 16 |
| 50 | Extraction of Terraces on the Loess Plateau from High-Resolution DEMs and Imagery Utilizing Object-Based Image Analysis. ISPRS International Journal of Geo-Information, 2017, 6, 157. | 1.4 | 38 |
| 51 | Ownership reform and the changing manufacturing landscape in Chinese cities: The case of Wuxi. PLoS ONE, 2017, 12, e0173607. | 1.1 | 2 |
| 52 | Paleotopographic controls on loess deposition in the Loess Plateau of <sc>China</sc>. Earth Surface Processes and Landforms, 2016, 41, 1155-1168. | 1.2 | 41 |
| 53 | Landform planation index extracted from DEMs: A case study in ordos platform of China. Chinese Geographical Science, 2016, 26, 314-324. | 1.2 | 6 |
| 54 | Landform-derived placement of electrical resistivity prospecting for paleotopography reconstruction in the loess landforms of China. Journal of Applied Geophysics, 2016, 131, 1-13. | 0.9 | 8 |

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|----|---|-----|-----------|
| 55 | A new algorithm based on Region Partitioning for Filtering candidate viewpoints of a multiple viewshed. <i>International Journal of Geographical Information Science</i> , 2016, 30, 2171-2187. | 2.2 | 17 |
| 56 | Slope spectrum critical area and its spatial variation in the Loess Plateau of China. <i>Journal of Chinese Geography</i> , 2015, 25, 1452-1466. | 1.5 | 33 |
| 57 | Geomorphological divisions of the Tibet Plateau based on topographical feature point groups from DEMs. <i>Annals of GIS</i> , 2014, 20, 245-253. | 1.4 | 4 |
| 58 | Uncertainty of slope length derived from digital elevation models of the Loess Plateau, China. <i>Journal of Mountain Science</i> , 2014, 11, 1169-1181. | 0.8 | 11 |
| 59 | Geomorphological inheritance for loess landform evolution in a severe soil erosion region of Loess Plateau of China based on digital elevation models. <i>Science China Earth Sciences</i> , 2014, 57, 1944-1952. | 2.3 | 26 |
| 60 | Modeling the evolution of loess-covered landforms in the Loess Plateau of China using a DEM of underground bedrock surface. <i>Geomorphology</i> , 2014, 209, 18-26. | 1.1 | 85 |
| 61 | Landform-oriented flow-routing algorithm for the dual-structure loess terrain based on digital elevation models. <i>Hydrological Processes</i> , 2014, 28, 1756-1766. | 1.1 | 46 |
| 62 | Drainage basin object-based method for regional-scale landform classification: a case study of loess area in China. <i>Physical Geography</i> , 0, , 1-19. | 0.6 | 16 |
| 63 | A view-tree method to compute viewsheds from digital elevation models. <i>International Journal of Geographical Information Science</i> , 0, , 1-20. | 2.2 | 1 |