

# Xinbo Liu

## List of Publications by Year in descending order

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13  
papers

246  
citations

1040056

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h-index

1199594

12  
g-index

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all docs

13  
docs citations

13  
times ranked

229  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | An Automatic Processing Framework for <i>In Situ</i> Determination of Ecohydrological Root Water Content by Ground-Penetrating Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15. | 6.3 | 2         |
| 2  | GPR-Based Automatic Identification of Root Zones of Influence Using HDBSCAN. <i>Remote Sensing</i> , 2021, 13, 1227.  | 4.0 | 9         |
| 3  | The Root-Soil Water Relationship Is Spatially Anisotropic in Shrub-Encroached Grassland in North China: Evidence from GPR Investigation. <i>Remote Sensing</i> , 2021, 13, 1137.                                  | 4.0 | 7         |
| 4  | The genesis, development, and evolution of original vertical joints in loess. <i>Earth-Science Reviews</i> , 2021, 214, 103526.   | 9.1 | 38        |
| 5  | Pairing dual-frequency GPR in summer and winter enhances the detection and mapping of coarse roots in the semi-arid shrubland in China. <i>European Journal of Soil Science</i> , 2020, 71, 236-251.              | 3.9 | 14        |
| 6  | Development and evolution of Loess vertical joints on the Chinese Loess Plateau at different spatiotemporal scales. <i>Engineering Geology</i> , 2020, 265, 105372.   | 6.3 | 44        |
| 7  | Exploring the interplay between infiltration dynamics and Critical Zone structures with multiscale geophysical imaging: A review. <i>Geoderma</i> , 2020, 374, 114431.  | 5.1 | 24        |
| 8  | Noninvasive 2D and 3D Mapping of Root Zone Soil Moisture Through the Detection of Coarse Roots With Ground-Penetrating Radar. <i>Water Resources Research</i> , 2020, 56, e2019WR026930.                          | 4.2 | 12        |
| 9  | Non-invasive estimation of root zone soil moisture from coarse root reflections in ground-penetrating radar images. <i>Plant and Soil</i> , 2019, 436, 623-639.   | 3.7 | 26        |
| 10 | Measurement of soil water content using ground-penetrating radar: a review of current methods. <i>International Journal of Digital Earth</i> , 2019, 12, 95-118.  | 3.9 | 37        |
| 11 | Detection of Root Orientation Using Ground-Penetrating Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 93-104.   | 6.3 | 22        |
| 12 | Analysis for the spatial and temporal patterns of plasticulture in Shandong province, China with remotely sensed data. , 2016, , .  |     | 3         |
| 13 | LIDAR and Millimeter-Wave Cloud RADAR (MWCR) techniques for joint observations of cirrus in Shouxian (32.56°N, 116.78°E), China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 148, 64-73.  | 1.6 | 8         |