# Jian-li Ding

List of Publications by Year
in descending order

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|---|---|---|---|
| **63**<br>papers | **1,979**<br>citations | 279798<br>**23**<br>h-index | 265206<br>**42**<br>g-index |
| **69**<br>all docs | **69**<br>docs citations | **69**<br>times ranked | **1334**<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Monitoring Oasis Cotton Fields Expansion in Arid Zones Using the Google Earth Engine: A Case Study in the Ogan-Kucha River Oasis, Xinjiang, China. Remote Sensing, 2022, 14, 225. | 4.0 | 10 |
| 2 | Estimation of Soil Organic Matter in Arid Zones with Coupled Environmental Variables and Spectral Features. Sensors, 2022, 22, 1194. | 3.8 | 2 |
| 3 | Research on Vegetation Coverage Dynamics and Prediction in the Taitema Lake Region. Water (Switzerland), 2022, 14, 725. | 2.7 | 2 |
| 4 | Machine learning driven by environmental covariates to estimate high-resolution PM2.5 in data-poor regions. PeerJ, 2022, 10, e13203. | 2.0 | 4 |
| 5 | Updated soil salinity with fine spatial resolution and high accuracy: The synergy of Sentinel-2 MSI, environmental covariates and hybrid machine learning approaches. Catena, 2022, 212, 106054. | 5.0 | 51 |
| 6 | Changes in soil organic carbon stocks from 1980â€"1990 and 2010â€"2020 in the northwest arid zone of China. Land Degradation and Development, 2022, 33, 2713-2727. | 3.9 | 7 |
| 7 | Exploring the potential of UAV hyperspectral image for estimating soil salinity: Effects of optimal band combination algorithm and random forest. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 279, 121416. | 3.9 | 21 |
| 8 | Using spatiotemporal fusion algorithms to fill in potentially absent satellite images for calculating soil salinity: A feasibility study. International Journal of Applied Earth Observation and Geoinformation, 2022, 111, 102839. | 1.9 | 2 |
| 9 | Revealing the scaleâ€•and locationâ€•specific variation and control factors of soil salinity using biâ€•dimensional empirical modal decomposition. Land Degradation and Development, 2022, 33, 3446-3460. | 3.9 | 1 |
| 10 | Multidimensional soil salinity data mining and evaluation from different satellites. Science of the Total Environment, 2022, 846, 157416. | 8.0 | 8 |
| 11 | Predicting land change trends and water consumption in typical arid regions using multi-models and multiple perspectives. Ecological Indicators, 2022, 141, 109110. | 6.3 | 7 |
| 12 | Strategies for the efficient estimation of soil organic matter in salt-affected soils through Vis-NIR spectroscopy: Optimal band combination algorithm and spectral degradation. Geoderma, 2021, 382, 114729. | 5.1 | 53 |
| 13 | Ebinur Lake wetland identification and its spatio-temporal dynamic changes. Journal of Natural Resources, 2021, 36, 1949. | 0.6 | 1 |
| 14 | Soil salinization monitoring in the Werigan-Kuqa Oasis, China, based on a Three-Dimensional Feature Space Model with Machine Learning Algorithm.. Remote Sensing Letters, 2021, 12, 269-277. | 1.4 | 7 |
| 15 | Radiative forcing of black carbon in seasonal snow of wintertime based on remote sensing over Xinjiang, China. Atmospheric Environment, 2021, 247, 118204. | 4.1 | 2 |
| 16 | Digital Mapping of Soil Organic Carbon Using Sentinel Series Data: A Case Study of the Ebinur Lake Watershed in Xinjiang. Remote Sensing, 2021, 13, 769. | 4.0 | 22 |
| 17 | Multi-U-Net: Residual Module under Multisensory Field and Attention Mechanism Based Optimized U-Net for VHR Image Semantic Segmentation. Sensors, 2021, 21, 1794. | 3.8 | 6 |
| 18 | Digital mapping of soil salinization based on Sentinel-1 and Sentinel-2 data combined with machine learning algorithms. Regional Sustainability, 2021, 2, 177-188. | 2.3 | 24 |

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|---|---------|----|-----------|
| 19 | Validation and comparison of high-resolution MAIAC aerosol products over Central Asia. Atmospheric Environment, 2021, 251, 118273. | 4.1 | 34 |
| 20 | Estimating Agricultural Soil Moisture Content through UAV-Based Hyperspectral Images in the Arid Region. Remote Sensing, 2021, 13, 1562. | 4.0 | 51 |
| 21 | Characteristics of dust aerosols and identification of dust sources in Xinjiang, China. Atmospheric Environment, 2021, 262, 118651. | 4.1 | 21 |
| 22 | Bivariate empirical mode decomposition of the spatial variation in the soil organic matter content: A case study from NW China. Catena, 2021, 206, 105572. | 5.0 | 21 |
| 23 | Precipitation events determine the spatiotemporal distribution of playa surface salinity in arid regions: evidence from satellite data fused via the enhanced spatial and temporal adaptive reflectance fusion model. Catena, 2021, 206, 105546. | 5.0 | 12 |
| 24 | Comparisons of random forest and stochastic gradient treeboost algorithms for mapping soil electrical conductivity with multiple subsets using Landsat OLI and DEM/GIS-based data at a type oasis in Xinjiang, China. European Journal of Remote Sensing, 2021, 54, 158-181. | 3.5 | 6 |
| 25 | Machine learning method for quick identification of water quality index (WQI) based on Sentinel-2 MSI data: Ebinur Lake case study. Water Science and Technology: Water Supply, 2021, 21, 1291-1312. | 2.1 | 11 |
| 26 | Analysis on the Spatio-Temporal Changes of LST and Its Influencing Factors Based on VIC Model in the Arid Region from 1960 to 2017: An Example of the Ebinur Lake Watershed, Xinjiang, China. Remote Sensing, 2021, 13, 4867. | 4.0 | 9 |
| 27 | Evaluation of Total Nitrogen in Water via Airborne Hyperspectral Data: Potential of Fractional Order Discretization Algorithm and Discrete Wavelet Transform Analysis. Remote Sensing, 2021, 13, 4643. | 4.0 | 16 |
| 28 | Prediction of soil organic matter in northwestern China using fractional-order derivative spectroscopy and modified normalized difference indices. Catena, 2020, 185, 104257. | 5.0 | 77 |
| 29 | Machine learning-based detection of soil salinity in an arid desert region, Northwest China: A comparison between Landsat-8 OLI and Sentinel-2 MSI. Science of the Total Environment, 2020, 707, 136092. | 8.0 | 130 |
| 30 | Regional scale soil moisture content estimation based on multi-source remote sensing parameters. International Journal of Remote Sensing, 2020, 41, 3346-3367. | 2.9 | 21 |
| 31 | Using MODIS data to analyse the ecosystem water use efficiency spatial-temporal variations across Central Asia from 2000 to 2014. Environmental Research, 2020, 182, 108985. | 7.5 | 28 |
| 32 | Updated information on soil salinity in a typical oasis agroecosystem and desert-oasis ecotone: Case study conducted along the Tarim River, China. Science of the Total Environment, 2020, 716, 135387. | 8.0 | 21 |
| 33 | Impacts of topographic factors on regional snow cover characteristics. Water Science and Engineering, 2020, 13, 171-180. | 3.2 | 18 |
| 34 | Combination of efficient signal pre-processing and optimal band combination algorithm to predict soil organic matter through visible and near-infrared spectra. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118553. | 3.9 | 52 |
| 35 | Deep learning-based rapid recognition of oasis-desert ecotone plant communities using UAV low-altitude remote-sensing data. Environmental Earth Sciences, 2020, 79, 1. | 2.7 | 12 |
| 36 | Characteristics of aerosol optical depth over land types in central Asia. Science of the Total Environment, 2020, 727, 138676. | 8.0 | 23 |

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| 37 | AGA-SVR-based selection of feature subsets and optimization of parameter in regional soil salinization monitoring. International Journal of Remote Sensing, 2020, 41, 4470-4495. | 2.9 | 25 |
| 38 | Retrieval of Fine-Resolution Aerosol Optical Depth (AOD) in Semiarid Urban Areas Using Landsat Data: A Case Study in Urumqi, NW China. Remote Sensing, 2020, 12, 467. | 4.0 | 15 |
| 39 | Assessing arid Inland Lake Watershed Area and Vegetation Response to Multiple Temporal Scales of Drought Across the Ebinur Lake Watershed. Scientific Reports, 2020, 10, 1354. | 3.3 | 18 |
| 40 | The Capability of Integrating Optical and Microwave Data for Detecting Soil Moisture in an Oasis Region. Remote Sensing, 2020, 12, 1358. | 4.0 | 7 |
| 41 | Temporal and spatial variability in snow cover over the Xinjiang Uygur Autonomous Region, China, from 2001 to 2015. PeerJ, 2020, 8, e8861. | 2.0 | 9 |
| 42 | Snowmelt modeling using two melt-rate models in the Urumqi River watershed, Xinjiang Uyghur Autonomous Region, China. Journal of Mountain Science, 2019, 16, 2271-2284. | 2.0 | 10 |
| 43 | Capability of Sentinel-2 MSI data for monitoring and mapping of soil salinity in dry and wet seasons in the Ebinur Lake region, Xinjiang, China. Geoderma, 2019, 353, 172-187. | 5.1 | 193 |
| 44 | Soil Moisture Retrival Based on Sentinel-1 Imagery under Sparse Vegetation Coverage. Sensors, 2019, 19, 589. | 3.8 | 38 |
| 45 | Dynamic detection of water surface area of Ebinur Lake using multi-source satellite data (Landsat and) Tj ETQq1 1 0.784314 rgBT /Ov | 5.0 | 76 |
| 46 | Combining UAV-based hyperspectral imagery and machine learning algorithms for soil moisture content monitoring. PeerJ, 2019, 7, e6926. | 2.0 | 113 |
| 47 | Modeling variations in soil salinity in the oasis of Junggar Basin, China. Land Degradation and Development, 2018, 29, 551-562. | 3.9 | 38 |
| 48 | Estimation of soil salt content (SSC) in the Ebinur Lake Wetland National Nature Reserve (ELWNNR), Northwest China, based on a Bootstrap-BP neural network model and optimal spectral indices. Science of the Total Environment, 2018, 615, 918-930. | 8.0 | 127 |
| 49 | Quantitative estimation of soil salinity by means of different modeling methods and visible-near infrared (VIS–NIR) spectroscopy, Ebinur Lake Wetland, Northwest China. PeerJ, 2018, 6, e4703. | 2.0 | 61 |
| 50 | A WFS-SVM Model for Soil Salinity Mapping in Keriya Oasis, Northwestern China Using Polarimetric Decomposition and Fully PolSAR Data. Remote Sensing, 2018, 10, 598. | 4.0 | 25 |
| 51 | Machine-learning-based quantitative estimation of soil organic carbon content by VIS/NIR spectroscopy. PeerJ, 2018, 6, e5714. | 2.0 | 37 |
| 52 | Characterizing urban expansion of Korla City and its spatial-temporal patterns using remote sensing and GIS methods. Journal of Arid Land, 2017, 9, 458-470. | 2.3 | 15 |
| 53 | Quantitative Estimation of Organic Matter Content in Arid Soil Using Vis-NIR Spectroscopy Preprocessed by Fractional Derivative. Journal of Spectroscopy, 2017, 2017, 1-9. | 1.3 | 16 |
| 54 | Quantitative Estimating Salt Content of Saline Soil Using Laboratory Hyperspectral Data Treated by Fractional Derivative. Journal of Spectroscopy, 2016, 2016, 1-11. | 1.3 | 24 |

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| 55 | Effects of shallow groundwater table and salinity on soil salt dynamics in the Keriya Oasis, Northwestern China. Environmental Earth Sciences, 2016, 75, 1. | 2.7 | 48 |
| 56 | Monitoring Soil Salinization in Keriya River Basin, Northwestern China Using Passive Reflective and Active Microwave Remote Sensing Data. Remote Sensing, 2015, 7, 8803-8829. | 4.0 | 47 |
| 57 | Urban Land Use Classification Using LiDAR Geometric, Spatial Autocorrelation and Lacunarity Features Combined with Postclassification Processing Method. Canadian Journal of Remote Sensing, 2015, 41, 334-345. | 2.4 | 2 |
| 58 | Dielectric properties of saline soil based on a modified Dobson dielectric model. Journal of Arid Land, 2015, 7, 696-705. | 2.3 | 13 |
| 59 | The influence of natural and human factors in the shrinking of the Ebinur Lake, Xinjiang, China, during the 1972â€"2013 period. Environmental Monitoring and Assessment, 2015, 187, 4128. | 2.7 | 50 |
| 60 | Stand structure and height-diameter relationship of a degraded Populus euphratica forest in the lower reaches of the Tarim River, Northwest China. Journal of Arid Land, 2015, 7, 544-554. | 2.3 | 15 |
| 61 | Monitoring and evaluating spatial variability of soil salinity in dry and wet seasons in the Weriganâ€"Kuqa Oasis, China, using remote sensing and electromagnetic induction instruments. Geoderma, 2014, 235-236, 316-322. | 5.1 | 125 |
| 62 | Detecting soil salinity with arid fraction integrated index and salinity index in feature space using Landsat TM imagery. Journal of Arid Land, 2013, 5, 340-353. | 2.3 | 29 |
| 63 | Spectral reflectance properties of major objects in desert oasis: a case study of the Weiganâ€"Kuqa river delta oasis in Xinjiang, China. Environmental Monitoring and Assessment, 2012, 184, 5105-5119. | 2.7 | 8 |