

# Jian-li Ding

## List of Publications by Year in descending order

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63  
papers

1,979  
citations

279798

23  
h-index

265206

42  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Geoderma</i> , 2019, 353, 172-187.	5.1	193
2	Machine learning-based detection of soil salinity in an arid desert region, Northwest China: A comparison between Landsat-8 OLI and Sentinel-2 MSI. <i>Science of the Total Environment</i> , 2020, 707, 136092.	8.0	130
3	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. <i>Science of the Total Environment</i> , 2018, 615, 918-930.	8.0	127
4	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. <i>Geoderma</i> , 2014, 235-236, 316-322.	5.1	125
5	Combining UAV-based hyperspectral imagery and machine learning algorithms for soil moisture content monitoring. <i>PeerJ</i> , 2019, 7, e6926.	2.0	113
6	Prediction of soil organic matter in northwestern China using fractional-order derivative spectroscopy and modified normalized difference indices. <i>Catena</i> , 2020, 185, 104257.	5.0	77
7	Dynamic detection of water surface area of Ebinur Lake using multi-source satellite data (Landsat and Tj ETQq1 1 0.784314 rgBT /Overl 5.0 78	5.0	78
8	Quantitative estimation of soil salinity by means of different modeling methods and visible-near infrared (VISâ€“NIR) spectroscopy, Ebinur Lake Wetland, Northwest China. <i>PeerJ</i> , 2018, 6, e4703.	2.0	61
9	Strategies for the efficient estimation of soil organic matter in salt-affected soils through Vis-NIR spectroscopy: Optimal band combination algorithm and spectral degradation. <i>Geoderma</i> , 2021, 382, 114729.	5.1	53
10	Combination of efficient signal pre-processing and optimal band combination algorithm to predict soil organic matter through visible and near-infrared spectra. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118553.	3.9	52
11	Estimating Agricultural Soil Moisture Content through UAV-Based Hyperspectral Images in the Arid Region. <i>Remote Sensing</i> , 2021, 13, 1562.	4.0	51
12	Updated soil salinity with fine spatial resolution and high accuracy: The synergy of Sentinel-2 MSI, environmental covariates and hybrid machine learning approaches. <i>Catena</i> , 2022, 212, 106054.	5.0	51
13	The influence of natural and human factors in the shrinking of the Ebinur Lake, Xinjiang, China, during the 1972â€“2013 period. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 4128.	2.7	50
14	Effects of shallow groundwater table and salinity on soil salt dynamics in the Keriya Oasis, Northwestern China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	48
15	Monitoring Soil Salinization in Keriya River Basin, Northwestern China Using Passive Reflective and Active Microwave Remote Sensing Data. <i>Remote Sensing</i> , 2015, 7, 8803-8829.	4.0	47
16	Modeling variations in soil salinity in the oasis of Junggar Basin, China. <i>Land Degradation and Development</i> , 2018, 29, 551-562.	3.9	38
17	Soil Moisture Retrieval Based on Sentinel-1 Imagery under Sparse Vegetation Coverage. <i>Sensors</i> , 2019, 19, 589.	3.8	38
18	Machine-learning-based quantitative estimation of soil organic carbon content by VIS/NIR spectroscopy. <i>PeerJ</i> , 2018, 6, e5714.	2.0	37

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19	Validation and comparison of high-resolution MAIAC aerosol products over Central Asia. <i>Atmospheric Environment</i> , 2021, 251, 118273.	4.1	34
20	Detecting soil salinity with arid fraction integrated index and salinity index in feature space using Landsat TM imagery. <i>Journal of Arid Land</i> , 2013, 5, 340-353.	2.3	29
21	Using MODIS data to analyse the ecosystem water use efficiency spatial-temporal variations across Central Asia from 2000 to 2014. <i>Environmental Research</i> , 2020, 182, 108985.	7.5	28
22	A WFS-SVM Model for Soil Salinity Mapping in Keriya Oasis, Northwestern China Using Polarimetric Decomposition and Fully PolSAR Data. <i>Remote Sensing</i> , 2018, 10, 598.	4.0	25
23	AGA-SVR-based selection of feature subsets and optimization of parameter in regional soil salinization monitoring. <i>International Journal of Remote Sensing</i> , 2020, 41, 4470-4495.	2.9	25
24	Quantitative Estimating Salt Content of Saline Soil Using Laboratory Hyperspectral Data Treated by Fractional Derivative. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-11.	1.3	24
25	Digital mapping of soil salinization based on Sentinel-1 and Sentinel-2 data combined with machine learning algorithms. <i>Regional Sustainability</i> , 2021, 2, 177-188.	2.3	24
26	Characteristics of aerosol optical depth over land types in central Asia. <i>Science of the Total Environment</i> , 2020, 727, 138676.	8.0	23
27	Digital Mapping of Soil Organic Carbon Using Sentinel Series Data: A Case Study of the Ebinur Lake Watershed in Xinjiang. <i>Remote Sensing</i> , 2021, 13, 769.	4.0	22
28	Regional scale soil moisture content estimation based on multi-source remote sensing parameters. <i>International Journal of Remote Sensing</i> , 2020, 41, 3346-3367.	2.9	21
29	Updated information on soil salinity in a typical oasis agroecosystem and desert-oasis ecotone: Case study conducted along the Tarim River, China. <i>Science of the Total Environment</i> , 2020, 716, 135387.	8.0	21
30	Characteristics of dust aerosols and identification of dust sources in Xinjiang, China. <i>Atmospheric Environment</i> , 2021, 262, 118651.	4.1	21
31	Bivariate empirical mode decomposition of the spatial variation in the soil organic matter content: A case study from NW China. <i>Catena</i> , 2021, 206, 105572.	5.0	21
32	Exploring the potential of UAV hyperspectral image for estimating soil salinity: Effects of optimal band combination algorithm and random forest. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121416.	3.9	21
33	Impacts of topographic factors on regional snow cover characteristics. <i>Water Science and Engineering</i> , 2020, 13, 171-180.	3.2	18
34	Assessing arid Inland Lake Watershed Area and Vegetation Response to Multiple Temporal Scales of Drought Across the Ebinur Lake Watershed. <i>Scientific Reports</i> , 2020, 10, 1354.	3.3	18
35	Quantitative Estimation of Organic Matter Content in Arid Soil Using Vis-NIR Spectroscopy Preprocessed by Fractional Derivative. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-9.	1.3	16
36	Evaluation of Total Nitrogen in Water via Airborne Hyperspectral Data: Potential of Fractional Order Discretization Algorithm and Discrete Wavelet Transform Analysis. <i>Remote Sensing</i> , 2021, 13, 4643.	4.0	16

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37	Stand structure and height-diameter relationship of a degraded <i>Populus euphratica</i> forest in the lower reaches of the Tarim River, Northwest China. <i>Journal of Arid Land</i> , 2015, 7, 544-554.	2.3	15
38	Characterizing urban expansion of Korla City and its spatial-temporal patterns using remote sensing and GIS methods. <i>Journal of Arid Land</i> , 2017, 9, 458-470.	2.3	15
39	Retrieval of Fine-Resolution Aerosol Optical Depth (AOD) in Semiarid Urban Areas Using Landsat Data: A Case Study in Urumqi, NW China. <i>Remote Sensing</i> , 2020, 12, 467.	4.0	15
40	Dielectric properties of saline soil based on a modified Dobson dielectric model. <i>Journal of Arid Land</i> , 2015, 7, 696-705.	2.3	13
41	Deep learning-based rapid recognition of oasis-desert ecotone plant communities using UAV low-altitude remote-sensing data. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	2.7	12
42	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. <i>Catena</i> , 2021, 206, 105546.	5.0	12
43	Machine learning method for quick identification of water quality index (WQI) based on Sentinel-2 MSI data: Ebinur Lake case study. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 1291-1312.	2.1	11
44	Snowmelt modeling using two melt-rate models in the Urumqi River watershed, Xinjiang Uyghur Autonomous Region, China. <i>Journal of Mountain Science</i> , 2019, 16, 2271-2284.	2.0	10
45	Monitoring Oasis Cotton Fields Expansion in Arid Zones Using the Google Earth Engine: A Case Study in the Ogan-Kucha River Oasis, Xinjiang, China. <i>Remote Sensing</i> , 2022, 14, 225.	4.0	10
46	Temporal and spatial variability in snow cover over the Xinjiang Uygur Autonomous Region, China, from 2001 to 2015. <i>PeerJ</i> , 2020, 8, e8861.	2.0	9
47	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. <i>Remote Sensing</i> , 2021, 13, 4867.	4.0	9
48	Spectral reflectance properties of major objects in desert oasis: a case study of the Weigan-Kuqa river delta oasis in Xinjiang, China. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 5105-5119.	2.7	8
49	Multidimensional soil salinity data mining and evaluation from different satellites. <i>Science of the Total Environment</i> , 2022, 846, 157416.	8.0	8
50	The Capability of Integrating Optical and Microwave Data for Detecting Soil Moisture in an Oasis Region. <i>Remote Sensing</i> , 2020, 12, 1358.	4.0	7
51	Soil salinization monitoring in the Werigan-Kuqa Oasis, China, based on a Three-Dimensional Feature Space Model with Machine Learning Algorithm.. <i>Remote Sensing Letters</i> , 2021, 12, 269-277.	1.4	7
52	Changes in soil organic carbon stocks from 1980s-1990 and 2010s-2020 in the northwest arid zone of China. <i>Land Degradation and Development</i> , 2022, 33, 2713-2727.	3.9	7
53	Predicting land change trends and water consumption in typical arid regions using multi-models and multiple perspectives. <i>Ecological Indicators</i> , 2022, 141, 109110.	6.3	7
54	Multi-U-Net: Residual Module under Multisensory Field and Attention Mechanism Based Optimized U-Net for VHR Image Semantic Segmentation. <i>Sensors</i> , 2021, 21, 1794.	3.8	6

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55	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. <i>European Journal of Remote Sensing</i> , 2021, 54, 158-181.	3.5	6
56	Machine learning driven by environmental covariates to estimate high-resolution PM2.5 in data-poor regions. <i>PeerJ</i> , 2022, 10, e13203.	2.0	4
57	Urban Land Use Classification Using LiDAR Geometric, Spatial Autocorrelation and Lacunarity Features Combined with Postclassification Processing Method. <i>Canadian Journal of Remote Sensing</i> , 2015, 41, 334-345.	2.4	2
58	Radiative forcing of black carbon in seasonal snow of wintertime based on remote sensing over Xinjiang, China. <i>Atmospheric Environment</i> , 2021, 247, 118204.	4.1	2
59	Estimation of Soil Organic Matter in Arid Zones with Coupled Environmental Variables and Spectral Features. <i>Sensors</i> , 2022, 22, 1194.	3.8	2
60	Research on Vegetation Coverage Dynamics and Prediction in the Taitema Lake Region. <i>Water (Switzerland)</i> , 2022, 14, 725.	2.7	2
61	Using spatiotemporal fusion algorithms to fill in potentially absent satellite images for calculating soil salinity: A feasibility study. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 111, 102839.	1.9	2
62	Ebinur Lake wetland identification and its spatio-temporal dynamic changes. <i>Journal of Natural Resources</i> , 2021, 36, 1949.	0.6	1
63	Revealing the scale- and location-specific variation and control factors of soil salinity using bi-dimensional empirical modal decomposition. <i>Land Degradation and Development</i> , 2022, 33, 3446-3460.	3.9	1