

# Xiangyu Ge

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1367829/publications.pdf>

Version: 2024-02-01

27  
papers

1,001  
citations

567144

15  
h-index

526166

27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of Soil Organic Carbon Content in the Ebinur Lake Wetland, Xinjiang, China, Based on Multisource Remote Sensing Data and Ensemble Learning Algorithms. <i>Sensors</i> , 2022, 22, 2685.	2.1	15
2	Machine learning driven by environmental covariates to estimate high-resolution PM2.5 in data-poor regions. <i>PeerJ</i> , 2022, 10, e13203.	0.9	4
3	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.	2.2	51
4	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.	0.9	2
5	Multidimensional soil salinity data mining and evaluation from different satellites. <i>Science of the Total Environment</i> , 2022, 846, 157416.	3.9	8
6	Predicting land change trends and water consumption in typical arid regions using multi-models and multiple perspectives. <i>Ecological Indicators</i> , 2022, 141, 109110.	2.6	7
7	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.	2.3	53
8	Aerosol optical depth (AOD): spatial and temporal variations and association with meteorological covariates in Taklimakan desert, China. <i>PeerJ</i> , 2021, 9, e10542.	0.9	18
9	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.	1.8	22
10	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.	2.1	6
11	Validation and comparison of high-resolution MAIAC aerosol products over Central Asia. <i>Atmospheric Environment</i> , 2021, 251, 118273.	1.9	34
12	Estimating Agricultural Soil Moisture Content through UAV-Based Hyperspectral Images in the Arid Region. <i>Remote Sensing</i> , 2021, 13, 1562.	1.8	51
13	Spatio-temporal changes of AOD in Xinjiang of China from 2000 to 2019: Which factor is more influential, natural factor or human factor?. <i>PLoS ONE</i> , 2021, 16, e0253942.	1.1	8
14	Characteristics of dust aerosols and identification of dust sources in Xinjiang, China. <i>Atmospheric Environment</i> , 2021, 262, 118651.	1.9	21
15	Mapping flood by the object-based method using backscattering coefficient and interference coherence of Sentinel-1 time series. <i>Science of the Total Environment</i> , 2021, 794, 148388.	3.9	29
16	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.	2.2	12
17	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.	1.8	16
18	Prediction of soil organic matter in northwestern China using fractional-order derivative spectroscopy and modified normalized difference indices. <i>Catena</i> , 2020, 185, 104257.	2.2	77

#	ARTICLE	IF	CITATIONS
19	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.	3.9	130
20	Ensemble machine-learning-based framework for estimating total nitrogen concentration in water using drone-borne hyperspectral imagery of emergent plants: A case study in an arid oasis, NW China. <i>Environmental Pollution</i> , 2020, 266, 115412.	3.7	67
21	Measurement of Total Nitrogen Concentration in Surface Water Using Hyperspectral Band Observation Method. <i>Water (Switzerland)</i> , 2020, 12, 1842.	1.2	11
22	Characteristics of aerosol optical depth over land types in central Asia. <i>Science of the Total Environment</i> , 2020, 727, 138676.	3.9	23
23	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.	1.8	15
24	The Capability of Integrating Optical and Microwave Data for Detecting Soil Moisture in an Oasis Region. <i>Remote Sensing</i> , 2020, 12, 1358.	1.8	7
25	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.	2.3	193
26	Combining UAV-based hyperspectral imagery and machine learning algorithms for soil moisture content monitoring. <i>PeerJ</i> , 2019, 7, e6926.	0.9	113
27	Estimation of Soil Moisture Content Based on Competitive Adaptive Reweighted Sampling Algorithm Coupled with Machine Learning. <i>Guangxue Xuebao/Acta Optica Sinica</i> , 2018, 38, 1030001.	0.2	3