Yiyun Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5957049/publications.pdf

Version: 2024-02-01

91	4,050	101496 36	128225 60
papers	citations	h-index	g-index

92	92	92	2957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visible and near-infrared reflectance spectroscopyâ€"An alternative for monitoring soil contamination by heavy metals. Journal of Hazardous Materials, 2014, 265, 166-176.	6.5	265
2	On the spatial relationship between ecosystem services and urbanization: A case study in Wuhan, China. Science of the Total Environment, 2018, 637-638, 780-790.	3.9	224
3	Randomised controlled trial of WISENSE, a real-time quality improving system for monitoring blind spots during esophagogastroduodenoscopy. Gut, 2019, 68, 2161-2169.	6.1	221
4	Prediction of low heavy metal concentrations in agricultural soils using visible and near-infrared reflectance spectroscopy. Geoderma, 2014, 216, 1-9.	2.3	159
5	Volumeâ€Enhanced Raman Scattering Detection of Viruses. Small, 2019, 15, e1805516.	5.2	150
6	Application of fractional-order derivative in the quantitative estimation of soil organic matter content through visible and near-infrared spectroscopy. Geoderma, 2019, 337, 758-769.	2.3	120
7	Estimating Soil Organic Carbon Using VIS/NIR Spectroscopy with SVMR and SPA Methods. Remote Sensing, 2014, 6, 2699-2717.	1.8	119
8	Estimating heavy metal concentrations in suburban soils with reflectance spectroscopy. Geoderma, 2019, 336, 59-67.	2.3	102
9	Comparison of multivariate methods for estimating soil total nitrogen with visible/near-infrared spectroscopy. Plant and Soil, 2013, 366, 363-375.	1.8	100
10	Rapid identification of soil organic matter level via visible and near-infrared spectroscopy: Effects of two-dimensional correlation coefficient and extreme learning machine. Science of the Total Environment, 2018, 644, 1232-1243.	3.9	85
11	Estimation of arsenic in agricultural soils using hyperspectral vegetation indices of rice. Journal of Hazardous Materials, 2016, 308, 243-252.	6.5	84
12	Monitoring Arsenic Contamination in Agricultural Soils with Reflectance Spectroscopy of Rice Plants. Environmental Science & Technology, 2014, 48, 6264-6272.	4.6	83
13	Combination of fractional order derivative and memory-based learning algorithm to improve the estimation accuracy of soil organic matter by visible and near-infrared spectroscopy. Catena, 2019, 174, 104-116.	2.2	81
14	A density-based spatial clustering algorithm considering both spatial proximity and attribute similarity. Computers and Geosciences, 2012, 46, 296-309.	2.0	75
15	Geo-detection of factors controlling spatial patterns of heavy metals in urban topsoil using multi-source data. Science of the Total Environment, 2018, 643, 451-459.	3.9	72
16	Prediction of soil organic carbon stock by laboratory spectral data and airborne hyperspectral images. Geoderma, 2019, 337, 32-41.	2.3	71
17	Prediction of Soil Organic Carbon based on Landsat 8 Monthly NDVI Data for the Jianghan Plain in Hubei Province, China. Remote Sensing, 2019, 11, 1683.	1.8	70
18	Estimating lead and zinc concentrations in peri-urban agricultural soils through reflectance spectroscopy: Effects of fractional-order derivative and random forest. Science of the Total Environment, 2019, 651, 1969-1982.	3.9	67

#	Article	IF	Citations
19	Monitoring Land Subsidence in Wuhan City (China) using the SBAS-InSAR Method with Radarsat-2 Imagery Data. Sensors, 2019, 19, 743.	2.1	66
20	Comparing laboratory and airborne hyperspectral data for the estimation and mapping of topsoil organic carbon: Feature selection coupled with random forest. Soil and Tillage Research, 2020, 199, 104589.	2.6	66
21	Comparing geospatial techniques to predict SOC stocks. Soil and Tillage Research, 2015, 148, 46-58.	2.6	65
22	Combining Fractional Order Derivative and Spectral Variable Selection for Organic Matter Estimation of Homogeneous Soil Samples by VISâ€“NIR Spectroscopy. Remote Sensing, 2018, 10, 479.	1.8	65
23	Mapping soil organic carbon stock by hyperspectral and time-series multispectral remote sensing images in low-relief agricultural areas. Geoderma, 2021, 398, 115118.	2.3	59
24	Exploring the potential of airborne hyperspectral image for estimating topsoil organic carbon: Effects of fractional-order derivative and optimal band combination algorithm. Geoderma, 2020, 365, 114228.	2.3	58
25	Identifying the influencing factors controlling the spatial variation of heavy metals in suburban soil using spatial regression models. Science of the Total Environment, 2020, 717, 137212.	3.9	57
26	Soil Organic Carbon Content Estimation with Laboratory-Based Visibleâ€“Near-Infrared Reflectance Spectroscopy: Feature Selection. Applied Spectroscopy, 2014, 68, 831-837.	1.2	56
27	A deep learning-based system for identifying differentiation status and delineating the margins of early gastric cancer in magnifying narrow-band imaging endoscopy. Endoscopy, 2021, 53, 469-477.	1.0	56
28	Estimating Soil Organic Carbon of Cropland Soil at Different Levels of Soil Moisture Using VIS-NIR Spectroscopy. Remote Sensing, 2016, 8, 755.	1.8	55
29	Improving the prediction of arsenic contents in agricultural soils by combining the reflectance spectroscopy of soils and rice plants. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 95-103.	1.4	53
30	Proximal and remote sensing techniques for mapping of soil contamination with heavy metals. Applied Spectroscopy Reviews, 2018, 53, 783-805.	3.4	51
31	Mapping field-scale soil organic carbon with unmanned aircraft system-acquired time series multispectral images. Soil and Tillage Research, 2020, 196, 104477.	2.6	47
32	Cadmium concentration estimation in peri-urban agricultural soils: Using reflectance spectroscopy, soil auxiliary information, or a combination of both?. Geoderma, 2019, 354, 113875.	2.3	45
33	The Influence of Spectral Pretreatment on the Selection of Representative Calibration Samples for Soil Organic Matter Estimation Using Vis-NIR Reflectance Spectroscopy. Remote Sensing, 2019, 11, 450.	1.8	45
34	Comparisons of spatial and non-spatial models for predicting soil carbon content based on visible and near-infrared spectral technology. Geoderma, 2017, 285, 280-292.	2.3	44
35	Prediction of Soil Organic Matter by VISâ€“NIR Spectroscopy Using Normalized Soil Moisture Index as a Proxy of Soil Moisture. Remote Sensing, 2018, 10, 28.	1.8	41
36	Rural land use spatial allocation in the semiarid loess hilly area in China: Using a Particle Swarm Optimization model equipped with multi-objective optimization techniques. Science China Earth Sciences, 2012, 55, 1166-1177.	2.3	39

#	Article	IF	Citations
37	Spatial-temporal dynamics of grain yield and the potential driving factors at the county level in China. Journal of Cleaner Production, 2020, 255, 120312.	4.6	37
38	Estimating Soil Organic Carbon Content with Visibleâ€“Near-Infrared (Vis-NIR) Spectroscopy. Applied Spectroscopy, 2014, 68, 712-722.	1.2	36
39	Positive impacts of farmland fragmentation on agricultural production efficiency in Qilu Lake watershed: Implications for appropriate scale management. Land Use Policy, 2022, 117, 106108.	2.5	36
40	Estimating soil organic carbon density in plains using landscape metric-based regression Kriging model. Soil and Tillage Research, 2019, 195, 104381.	2.6	35
41	Transferability of a Visible and Near-Infrared Model for Soil Organic Matter Estimation in Riparian Landscapes. Remote Sensing, 2014, 6, 4305-4322.	1.8	34
42	Wavelet-based coupling of leaf and canopy reflectance spectra to improve the estimation accuracy of foliar nitrogen concentration. Agricultural and Forest Meteorology, 2018, 248, 306-315.	1.9	33
43	Diagnosing cropland's allowable range and spatial allocation in China's typical mountainous plateau area: An evaluation framework based on ecological carrying capacity. Science of the Total Environment, 2019, 685, 1255-1268.	3.9	32
44	Cropland use sustainability in Chengâ€“Yu Urban Agglomeration, China: Evaluation framework, driving factors and development paths. Journal of Cleaner Production, 2020, 256, 120692.	4.6	32
45	Application of Spectrally Derived Soil Type as Ancillary Data to Improve the Estimation of Soil Organic Carbon by Using the Chinese Soil Vis-NIR Spectral Library. Remote Sensing, 2018, 10, 1747.	1.8	31
46	Deep learning system compared with expert endoscopists in predicting early gastric cancer and its invasion depth and differentiation status (with videos). Gastrointestinal Endoscopy, 2022, 95, 92-104.e3.	0.5	31
47	A deep learning method for delineating early gastric cancer resection margin under chromoendoscopy and white light endoscopy. Gastric Cancer, 2020, 23, 884-892.	2.7	30
48	Exploring influence factors in mapping soil organic carbon on low-relief agricultural lands using time series of remote sensing data. Soil and Tillage Research, 2021, 210, 104982.	2.6	28
49	Geographical detector-based stratified regression kriging strategy for mapping soil organic carbon with high spatial heterogeneity. Catena, 2021, 196, 104953.	2.2	27
50	Accessibility of Park Green Space in Wuhan, China: Implications for Spatial Equity in the Post-COVID-19 Era. International Journal of Environmental Research and Public Health, 2022, 19, 5440.	1.2	27
51	Diagnosis of cadmium contamination in urban and suburban soils using visible-to-near-infrared spectroscopy. Environmental Pollution, 2021, 291, 118128.	3.7	26
52	Mapping of Cu and Pb Contaminations in Soil Using Combined Geochemistry, Topography, and Remote Sensing: A Case Study in the Leâ€™an River Floodplain, China. International Journal of Environmental Research and Public Health, 2012, 9, 1874-1886.	1.2	23
53	Improving Spectral Estimation of Soil Organic Carbon Content through Semi-Supervised Regression. Remote Sensing, 2017, 9, 29.	1.8	23
54	Transferability of Visâ€NIR models for Soil Organic Carbon Estimation between Two Study Areas by using Spiking. Soil Science Society of America Journal, 2018, 82, 1231-1242.	1.2	23

#	Article	IF	Citations
55	Simulating the Conversion of Rural Settlements to Town Land Based on Multi-Agent Systems and Cellular Automata. PLoS ONE, 2013, 8, e79300.	1.1	22
56	Spectroscopic Diagnosis of Arsenic Contamination in Agricultural Soils. Sensors, 2017, 17, 1036.	2.1	20
57	Estimation of Organic Carbon in Anthropogenic Soil by VIS-NIR Spectroscopy: Effect of Variable Selection. Remote Sensing, 2020, 12, 3394.	1.8	20
58	Establishment of an integrated decision-making method for planning the ecological restoration of terrestrial ecosystems. Science of the Total Environment, 2020, 741, 139852.	3.9	19
59	Spatiotemporal dynamics of riceâ€“crayfish field in Mid-China and its socioeconomic benefits on rural revitalisation. Applied Geography, 2022, 139, 102636.	1.7	19
60	Exploring the Sensitivity of Sampling Density in Digital Mapping of Soil Organic Carbon and Its Application in Soil Sampling. Remote Sensing, 2018, 10, 888.	1.8	18
61	A spatial bayesian-network approach as a decision-making tool for ecological-risk prevention in land ecosystems. Ecological Modelling, 2020, 419, 108929.	1.2	18
62	Exploring the Influence of Spatial Resolution on the Digital Mapping of Soil Organic Carbon by Airborne Hyperspectral VNIR Imaging. Remote Sensing, 2019, 11, 1032.	1.8	16
63	Regional Land Eco-Security Evaluation for the Mining City of Daye in China Using the GIS-Based Grey TOPSIS Method. Land, 2021, 10, 118.	1.2	16
64	Risk assessment of land ecology on a regional scale: Application of the relative risk model to the mining city of Daye, China. Human and Ecological Risk Assessment (HERA), 2017, 23, 550-574.	1.7	15
65	Feasibility of Estimating Cu Contamination in Floodplain Soils using VNIR Spectroscopyâ€”A Case Study in the Leâ€™an River Floodplain, China. Soil and Sediment Contamination, 2012, 21, 951-969.	1.1	14
66	Estimation of total iron content in floodplain soils using VNIR spectroscopy â€“ a case study in the Le'an River floodplain, China. International Journal of Remote Sensing, 2012, 33, 5954-5972.	1.3	14
67	Adaptive spatial clustering in the presence of obstacles and facilitators. Computers and Geosciences, 2013, 56, 104-118.	2.0	14
68	How Leisure Venues Are and Why? A Geospatial Perspective in Wuhan, Central China. Sustainability, 2017, 9, 1865.	1.6	14
69	Multi-Structure Joint Decision-Making Approach for Land Use Classification of High-Resolution Remote Sensing Images Based on CNNs. IEEE Access, 2020, 8, 42848-42863.	2.6	14
70	Automated and real-time validation of gastroesophageal varices under esophagogastroduodenoscopy using a deep convolutional neural network: a multicenter retrospective study (with video). Gastrointestinal Endoscopy, 2021, 93, 422-432.e3.	0.5	14
71	Thematic maps for land consolidation planning in Hubei Province, China. Journal of Maps, 2014, 10, 26-34.	1.0	11
72	Prediction of the spatial distribution of high-rise residential buildings by the use of a geographic field based autologistic regression model. Journal of Housing and the Built Environment, 2015, 30, 487-508.	0.9	11

#	Article	IF	Citations
73	Prediction of total nitrogen in cropland soil at different levels of soil moisture with Vis/NIR spectroscopy. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2014, 64, 267-281.	0.3	10
74	Construction of the Calibration Set through Multivariate Analysis in Visible and Near-Infrared Prediction Model for Estimating Soil Organic Matter. Remote Sensing, 2017, 9, 201.	1.8	10
75	Rapid Identification and Prediction of Cadmium-Lead Cross-Stress of Different Stress Levels in Rice Canopy Based on Visible and Near-Infrared Spectroscopy. Remote Sensing, 2020, 12, 469.	1.8	10
76	Exploring the Role of the Spatial Characteristics of Visible and Near-Infrared Reflectance in Predicting Soil Organic Carbon Density. ISPRS International Journal of Geo-Information, 2017, 6, 308.	1.4	8
77	Influences of Environmental Variables and Their Interactions on Chinese Farmland Soil Organic Carbon Density and Its Dynamics. Land, 2022, 11, 208.	1.2	8
78	Multi-Crop Classification Using Feature Selection-Coupled Machine Learning Classifiers Based on Spectral, Textural and Environmental Features. Remote Sensing, 2022, 14, 3153.	1.8	8
79	Combining Environmental Factors and Lab VNIR Spectral Data to Predict SOM by Geospatial Techniques. Chinese Geographical Science, 2019, 29, 258-269.	1.2	7
80	A Tale of North and South: Balanced and Sustainable Development of Primary Education in Ningxia, China. Sustainability, 2018, 10, 559.	1.6	6
81	Comparing Two Different Development Methods of External Parameter Orthogonalization for Estimating Organic Carbon from Field-Moist Intact Soils by Reflectance Spectroscopy. Remote Sensing, 2022, 14, 1303.	1.8	6
82	Estimating cadmium-lead concentrations in rice blades through fractional order derivatives of foliar spectra. Biosystems Engineering, 2022, 219, 177-188.	1.9	6
83	Use of Visible and Near-Infrared Reflectance Spectroscopy Models to Determine Soil Erodibility Factor (K) in an Ecologically Restored Watershed. Remote Sensing, 2020, 12, 3103.	1.8	5
84	Decoding the Street-Based Spatiality of Urban Gyms: Implications for Healthy City Planning. Land, 2021, 10, 175.	1.2	4
85	Causal Analysis of Ecological Impairment in Land Ecosystem on a Regional Scale: Applied to a Mining City Daye, China. Land, 2021, 10, 530.	1.2	4
86	An Adaptive Density-Based Time Series Clustering Algorithm: A Case Study on Rainfall Patterns. ISPRS International Journal of Geo-Information, 2016, 5, 205.	1.4	2
87	Potential Supply of Cultivated Land under the Land Consolidation of Rural Residential Areas Based on GIS. , 2010, , .		1
88	A knowledge-based approach for assessing the quality of Landsat water body mapping product. , 2012, , .		1
89	Response to â€œVisible and near-infrared reflectance spectroscopy is of limited practical use to monitor soil contamination by heavy metalsâ€•by Philippe C. Baveye. Journal of Hazardous Materials, 2015, 285, 207.	6.5	1
90	An Improved Density-Based Time Series Clustering Method Based on Image Resampling: A Case Study of Surface Deformation Pattern Analysis. ISPRS International Journal of Geo-Information, 2017, 6, 118.	1.4	1

#	Article	IF	Citations
91	Feasibility of estimating heavy metal concentrations in water column using hyperspectral data and partial least squares regression. , 2009, , .		0