Liping Di

List of Publications by Year
in descending order

152 papers	4,304 citations	126708 33 h-index	149479 56 g-index
159 all docs	159 docs citations	159 times ranked	3260 citing authors

#	Article	IF	Citations
1	Estimation of crop evapotranspiration from MODIS data by combining random forest and trapezoidal models. Agricultural Water Management, 2022, 259, 107249.	2.4	10
2	Influence of urban expansion on Lyme disease risk: A case study in the U.S. I-95 Northeastern corridor. Cities, 2022, 125, 103633.	2.7	5
3	Validation and refinement of cropland data layer using a spatial-temporal decision tree algorithm. Scientific Data, 2022, 9, 63.	2.4	34
4	Bibliometric Analysis of OGC Specifications between 1994 and 2020 Based on Web of Science (WoS). ISPRS International Journal of Geo-Information, 2022, 11, 251.	1.4	0
5	WaterSmart-GIS: A Web Application of a Data Assimilation Model to Support Irrigation Research and Decision Making. ISPRS International Journal of Geo-Information, 2022, 11, 271.	1.4	10
6	Crop-CASMA: A web geoprocessing and map service based architecture and implementation for serving soil moisture and crop vegetation condition data over U.S. Cropland. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102902.	0.9	10
7	Remote Sensing Based Rapid Assessment of Flood Crop Damage Using Novel Disaster Vegetation Damage Index (DVDI). International Journal of Disaster Risk Science, 2021, 12, 90-110.	1.3	33
8	Big Data and Its Applications in Agro-Geoinformatics. Springer Remote Sensing/photogrammetry, 2021, , 143-162.	0.4	1
9	Geoscience model service integrated workflow for rainstorm waterlogging analysis. International Journal of Digital Earth, 2021, 14, 851-873.	1.6	7
10	Remote-Sensing-Based Analysis of Spatiotemporal Variation of ET and Related Parameters in Xilingol Steppe, China. Polish Journal of Environmental Studies, 2021, 30, 2891-2904.	0.6	0
11	Disaster Information Dissemination During Emergency Event: An Experiment in OGC Disaster Resilience Pilot. , 2021, , .		1
12	Machine Learning-based Pre-season Crop Type Mapping: A Comparative Study. , 2021, , .		7
13	Intercomparison of Agricultural Drought Monitoring Products. , 2021, , .		2
14	Characteristics of vegetation response to drought in the CONUS based on long-term remote sensing and meteorological data. Ecological Indicators, 2021, 127, 107767.	2.6	27
15	Rapid in-season mapping of corn and soybeans using machine-learned trusted pixels from Cropland Data Layer. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102374.	1.4	20
16	Design and Implementation of Geospatial Data Services for Agriculture. Springer Remote Sensing/photogrammetry, 2021, , 385-403.	0.4	0
17	Applying Machine Learning to Cropland Data Layer for Agro-Geoinformation Discovery. , 2021, , .		1
18	Remote Sensing of Urban Poverty and Gentrification. Remote Sensing, 2021, 13, 4022.	1.8	14

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19	GeoFairy2: A Cross-Institution Mobile Gateway to Location-Linked Data for In-Situ Decision Making. ISPRS International Journal of Geo-Information, 2021, 10, 1.	1.4	14
20	Advanced cyberinfrastructure for intercomparison and validation of climate models. Environmental Modelling and Software, 2020, 123, 104559.	1.9	13
21	Community venue exposure risk estimator for the COVID-19 pandemic. Health and Place, 2020, 66, 102450.	1.5	25
22	Multilevel Deep Learning Network for County-Level Corn Yield Estimation in the U.S. Corn Belt. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5048-5060.	2.3	66
23	Estimating Crop LAI Using Spectral Feature Extraction and the Hybrid Inversion Method. Remote Sensing, 2020, 12, 3534.	1.8	20
24	Estimation of GDP Using Deep Learning With NPP-VIIRS Imagery and Land Cover Data at the County Level in CONUS. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1400-1415.	2.3	24
25	Deep Learning Classification for Crop Types in North Dakota. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2200-2213.	2.3	40
26	Toward a Standardized Encoding of Remote Sensing Geo-Positioning Sensor Models. Remote Sensing, 2020, 12, 1530.	1.8	3
27	AgKit4EE: A toolkit for agricultural land use modeling of the conterminous United States based on Google Earth Engine. Environmental Modelling and Software, 2020, 129, 104694.	1.9	34
28	Influence of Different Bandwidths on LAI Estimation Using Vegetation Indices. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1494-1502.	2.3	12
29	Exploring the Spatial Characteristics of Typhoon-Induced Vegetation Damages in the Southeast Coastal Area of China from 2000 to 2018. Remote Sensing, 2020, 12, 1692.	1.8	13
30	Geoweaver: Advanced Cyberinfrastructure for Managing Hybrid Geoscientific AI Workflows. ISPRS International Journal of Geo-Information, 2020, 9, 119.	1.4	25
31	Can Terrestrial Water Storage Dynamics be Estimated From Climate Anomalies?. Earth and Space Science, 2020, 7, e2019EA000959.	1.1	18
32	Trends in Global Vegetative Drought From Long-Term Satellite Remote Sensing Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 815-826.	2.3	18
33	Transfer Learning for Crop classification with Cropland Data Layer data (CDL) as training samples. Science of the Total Environment, 2020, 733, 138869.	3.9	69
34	A Systematic Review on Case Studies of Remote-Sensing-Based Flood Crop Loss Assessment. Agriculture (Switzerland), 2020, 10, 131.	1.4	29
35	Distributed Geoscience Algorithm Integration Based on OWS Specifications: A Case Study of the Extraction of a River Network. ISPRS International Journal of Geo-Information, 2019, 8, 12.	1.4	3
36	SUIS: Simplify the use of geospatial web services in environmental modelling. Environmental Modelling and Software, 2019, 119, 228-241.	1.9	19

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37	County-Level Soybean Yield Prediction Using Deep CNN-LSTM Model. Sensors, 2019, 19, 4363.	2.1	174
38	Extracting Trusted Pixels from Historical Cropland Data Layer Using Crop Rotation Patterns: A Case Study in Nebraska, USA. , 2019, , .		12
39	Machine-learned prediction of annual crop planting in the U.S. Corn Belt based on historical crop planting maps. Computers and Electronics in Agriculture, 2019, 166, 104989.	3.7	54
40	Advanced Cyberinfrastructure for Agricultural Drought Monitoring. , 2019, , .		6
41	Study on Temporal and Spatial Adaptability of Crop Classification Models. , 2019, , .		2
42	Crop Field Boundary Delineation using Historical Crop Rotation Pattern. , 2019, , .		5
43	Cloud Environment for Disseminating NASS Cropland Data Layer. , 2019, , .		7
44	Building Near-Real-Time MODIS Data Fusion Workflow to Support Agricultural Decision-making Applications. , 2019, , .		3
45	Detecting spatio-temporal changes of arable land and construction land in the Beijing-Tianjin corridor during 2000â€"2015. Journal of Chinese Geography, 2019, 29, 702-718.	1.5	18
46	In-Season Major Crop-Type Identification for US Cropland from Landsat Images Using Crop-Rotation Pattern and Progressive Data Classification. Agriculture (Switzerland), 2019, 9, 17.	1.4	19
47	Rapid Flood Progress Monitoring in Cropland with NASA SMAP. Remote Sensing, 2019, 11, 191.	1.8	42
48	Improvement and Validation of NASA/MODIS NRT Global Flood Mapping. Remote Sensing, 2019, 11, 205.	1.8	55
49	Advanced Cyberinfrastructure to Enable Search of Big Climate Datasets in THREDDS. ISPRS International Journal of Geo-Information, 2019, 8, 494.	1.4	7
50	Selection of Landsat 8 OLI Band Combinations for Land Use and Land Cover Classification. , 2019, , .		23
51	Exploring cloud-based Web Processing Service: A case study on the implementation of CMAQ as a Service. Environmental Modelling and Software, 2019, 113, 29-41.	1.9	30
52	Classification of cities in Bangladesh based on remote sensing derived spatial characteristics. Journal of Urban Management, 2019, 8, 206-224.	2.3	49
53	Using long short-term memory recurrent neural network in land cover classification on Landsat and Cropland data layer time series. International Journal of Remote Sensing, 2019, 40, 593-614.	1.3	100
54	CyberConnector: a service-oriented system for automatically tailoring multisource Earth observation data to feed Earth science models. Earth Science Informatics, 2018, 11, 1-17.	1.6	24

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55	DVDI: A New Remotely Sensed Index for Measuring Vegetation Damage Caused by Natural Disasters. , 2018, , .		16
56	Impact of Climate Change on Soil Salinity: A Remote Sensing Based Investigation in Coastal Bangladesh. , 2018, , .		15
57	Land Use and Land Cover Classification for Bangladesh 2005 on Google Earth Engine. , 2018, , .		8
58	Clustering Indian Ocean Tropical Cyclone Tracks by the Standard Deviational Ellipse. Climate, 2018, 6, 39.	1.2	17
59	Geospatial sensor web: A cyber-physical infrastructure for geoscience research and application. Earth-Science Reviews, 2018, 185, 684-703.	4.0	50
60	RF-CLASS: A remote-sensing-based flood crop loss assessment cyber-service system for supporting crop statistics and insurance decision-making. Journal of Integrative Agriculture, 2017, 16, 408-423.	1.7	42
61	Regression model to estimate flood impact on corn yield using MODIS NDVI and USDA cropland data layer. Journal of Integrative Agriculture, 2017, 16, 398-407.	1.7	81
62	GeoFairy: Towards a one-stop and location based Service for Geospatial Information Retrieval. Computers, Environment and Urban Systems, 2017, 62, 156-167.	3.3	24
63	Landslide initiation and runout susceptibility modeling in the context of hill cutting and rapid urbanization: a combined approach of weights of evidence and spatial multi-criteria. Journal of Mountain Science, 2017, 14, 1919-1937.	0.8	42
64	The state of the art of spaceborne remote sensing in flood management. Natural Hazards, 2017, 85, 1223-1248.	1.6	82
65	Developing geospatial Web service and system for SMAP soil moisture monitoring. , 2017, , .		4
66	Crop Fraction Layer (CFL) datasets derived through MODIS and LandSat for the continental US from year 2000â€"2016. , 2017, , .		3
67	Agriculture flood mapping with Soil Moisture Active Passive (SMAP) data: A case of 2016 Louisiana flood. , 2017, , .		12
68	Parallel Agent-as-a-Service (P-AaaS) Based Geospatial Service in the Cloud. Remote Sensing, 2017, 9, 382.	1.8	8
69	Regression based corn yield assessment using MODIS based daily NDVI in Iowa state. , 2016, , .		16
70	Comparison of selected noise reduction techniques for MODIS daily NDVI: An empirical analysis on corn and soybean. , 2016, , .		16
71	Developing a web-based system for supervised classification of remote sensing images. GeoInformatica, 2016, 20, 629-649.	2.0	3
72	A review of remote sensing in flood assessment. , 2016, , .		34

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73	Agent-as-a-service-based geospatial service aggregation in the cloud: A case study of flood response. Environmental Modelling and Software, 2016, 84, 210-225.	1.9	22
74	Study of the vegetation index-meteorological factor correlation adjusted by accumulated growing degree days. , 2016, , .		1
75	Coupling of Earth science models and earth observations through OGC interoperability specifications. , 2016, , .		1
76	Realizing parameterless automatic classification of remote sensing imagery using ontology engineering and cyberinfrastructure techniques. Computers and Geosciences, 2016, 94, 56-67.	2.0	10
77	Rapid building detection using machine learning. Applied Intelligence, 2016, 45, 443-457.	3.3	33
78	Building an Elastic Parallel OGC Web Processing Service on a Cloud-Based Cluster: A Case Study of Remote Sensing Data Processing Service. Sustainability, 2015, 7, 14245-14258.	1.6	17
79	Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3737-3748.	2.7	28
80	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. Remote Sensing of Environment, 2015, 165, 123-134.	4.6	269
81	GIS-based detection of land use transformation in the Loess Plateau: A case study in Baota District, Shaanxi Province, China. Journal of Chinese Geography, 2015, 25, 1467-1478.	1.5	13
82	Delivery of agricultural drought information via web services. Earth Science Informatics, 2015, 8, 527-538.	1.6	10
83	The effect of corn–soybean rotation on the NDVI-based drought indicators: a case study in Iowa, USA, using Vegetation Condition Index. GIScience and Remote Sensing, 2015, 52, 290-314.	2.4	29
84	A Decision-Tree Classifier for Extracting Transparent Plastic-Mulched Landcover from Landsat-5 TM Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4548-4558.	2.3	84
85	Use of Geographically Weighted Regression Model for Exploring Spatial Patterns and Local Factors Behind NDVI-Precipitation Correlation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4530-4538.	2.3	17
86	Enhancing Agricultural Geospatial Data Dissemination and Applications Using Geospatial Web Services. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4539-4547.	2.3	12
87	On crop rotation in calculating NDVI-based agricultural drought indicators. , 2014, , .		2
88	The influence of land cover-related changes on the NDVI-based satellite agricultural drought indices. , 2014, , .		8
89	Automation of Customized and Near-Real-Time Vegetation Condition Index Generation Through Cyberinfrastructure-Based Geoprocessing Workflows. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4512-4522.	2.3	20
90	A New Automatic Stratification Method for U.S. Agricultural Area Sampling Frame Construction Based on the Cropland Data Layer. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4317-4327.	2.3	21

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91	Remote-sensing-based flood damage estimation using crop condition profiles. , 2013, , .		11
92	Detection of flood and its impact on crops using NDVI - Corn case. , 2013, , .		20
93	Study on generation and sharing of on-demand global seamless data—Taking MODIS NDVI as an example. Computers and Geosciences, 2013, 54, 66-74.	2.0	4
94	Intelligent services for discovery of complex geospatial features from remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 83, 151-164.	4.9	32
95	Implementation of Geospatial Data Provenance in a Web Service Workflow Environment With ISO 19115 and ISO 19115-2 Lineage Model. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 5082-5089.	2.7	23
96	Web-service-based Monitoring and Analysis of Global Agricultural Drought. Photogrammetric Engineering and Remote Sensing, 2013, 79, 929-943.	0.3	50
97	The effect of land-cover change on vegetation greenness-based satellite agricultural drought indicators: a case study in the southwest climate division of Indiana, USA. International Journal of Remote Sensing, 2013, 34, 6947-6968.	1.3	19
98	Semantic feature catalogue service. , 2012, , .		1
99	Deriving 2011 cultivated land cover data sets using usda National Agricultural Statistics Service historic Cropland Data Layers. , 2012, , .		31
100	Aggregating distributed geo-processing workflows and web services as processing model web. , 2012, , .		1
101	Global agricultural drought mapping: Results for the year 2011. , 2012, , .		5
102	Building a Web-Services Based Geospatial Online Analysis System. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1780-1792.	2.3	12
103	Building an on-demand web service system for Global Agricultural Drought Monitoring and Forecasting. , 2012, , .		21
104	Towards Data and Sensor Planning Service for Coupling Earth Science Models and Earth Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1628-1636.	2.3	4
105	RESTFul based heterogeneous Geoprocessing workflow interoperation for Sensor Web Service. Computers and Geosciences, 2012, 47, 102-110.	2.0	24
106	BPELPower—A BPEL execution engine for geospatial web services. Computers and Geosciences, 2012, 47, 87-101.	2.0	30
107	GeoPWTManager: a task-oriented web geoprocessing system. Computers and Geosciences, 2012, 47, 34-45.	2.0	40
108	GWASS: GRASS web application software system based on the GeoBrain web service. Computers and Geosciences, 2012, 47, 143-150.	2.0	13

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110	DEM Explorer: An online interoperable DEM data sharing and analysis system. Environmental Modelling and Software, 2012, 38, 101-107.	1.9	15
111	Service-oriented approach for geospatial feature discovery. Earth Science Informatics, 2012, 5, 153-165.	1.6	3
112	Building asynchronous geospatial processing workflows with web services. Computers and Geosciences, 2012, 39, 34-41.	2.0	16
113	CropScape: A Web service based application for exploring and disseminating US conterminous geospatial cropland data products for decision support. Computers and Electronics in Agriculture, 2012, 84, 111-123.	3.7	297
114	Automatic geospatial metadata generation for earth science virtual data products. GeoInformatica, 2012, 16, 1-29.	2.0	19
115	A Flexible Data and Sensor Planning Service for Virtual Sensors Based on Web Service. IEEE Sensors Journal, 2011, 11, 1429-1439.	2.4	27
116	Vegetation index based technique for global agricultural drought monitoring. , 2011, , .		9
117	An Efficient Method for Near-Real-Time On-Demand Retrieval of Remote Sensing Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 615-625.	2.3	17
118	Integrating semantic web technologies and geospatial catalog services for geospatial information discovery and processing in cyberinfrastructure. GeoInformatica, 2011, 15, 273-303.	2.0	60
119	Sharing geospatial provenance in a service-oriented environment. Computers, Environment and Urban Systems, 2011, 35, 333-343.	3.3	35
120	GIS in the Cloud: Implementing a Web Coverage Service on Amazon Cloud Computing Platform. Lecture Notes in Electrical Engineering, 2011, , 289-295.	0.3	4
121	Semantic Web Enabled Intelligent Geoprocessing Service Chaining. Advances in Geospatial Technologies Book Series, 2011, , 310-331.	0.1	0
122	Geo-processing workflow driven wildfire hot pixel detection under sensor web environment. Computers and Geosciences, 2010, 36, 362-372.	2.0	56
123	Augmenting geospatial data provenance through metadata tracking in geospatial service chaining. Computers and Geosciences, 2010, 36, 270-281.	2.0	54
124	Grid computing enhances standards-compatible geospatial catalogue service. Computers and Geosciences, 2010, 36, 411-421.	2.0	10
125	Sharing geoscience algorithms in a Web service-oriented environment (GRASS GIS example). Computers and Geosciences, 2010, 36, 1060-1068.	2.0	53
126	GeoPW: Laying Blocks for the Geospatial Processing Web. Transactions in GIS, 2010, 14, 755-772.	1.0	66

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127	Asynchronous sensor planning service chain driven dynamical satellite sensor information retrieval. , 2010, , .		1
128	An automatic SWILC classification and extraction for the AntSDI under a Sensor Web environment. Canadian Journal of Remote Sensing, 2010, 36, S1-S12.	1.1	13
129	Automatic On-Demand Data Feed Service for AutoChem Based on Reusable Geo-Processing Workflow. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 418-426.	2.3	13
130	Toward Autonomous Mining of the Sensor Web. Annals of Information Systems, 2010, , 289-307.	0.5	1
131	Use of grid computing for modeling virtual geospatial products. International Journal of Geographical Information Science, 2009, 23, 581-604.	2.2	35
132	Metadata requirements analysis for the emerging Sensor Web This was orally presented at the European Geosciences Union General Assembly 2008, Vienna, Austria, 13â€"18 April 2008.. International Journal of Digital Earth, 2009, 2, 3-17.	1.6	21
133	A taxonomy of geospatial services for global service discovery and interoperability. Computers and Geosciences, 2009, 35, 783-790.	2.0	28
134	Semantic Web-based geospatial knowledge transformation. Computers and Geosciences, 2009, 35, 798-808.	2.0	30
135	Use of ebRIM-based CSW with sensor observation services for registry and discovery of remote-sensing observations. Computers and Geosciences, 2009, 35, 360-372.	2.0	37
136	A flexible geospatial sensor observation service for diverse sensor data based on Web service. ISPRS Journal of Photogrammetry and Remote Sensing, 2009, 64, 234-242.	4.9	57
137	Semantic Web Servicesâ€"based process planning for earth science applications. International Journal of Geographical Information Science, 2009, 23, 1139-1163.	2.2	45
138	Building an On-line Geospatial Analysis System with AJAX and Web Services. , 2009, , .		1
139	Creating web service interfaces and scientific workflows using command line tools: A GRASS example. , 2009, , .		5
140	GeoPW: Towards the Geospatial Processing Web. Lecture Notes in Computer Science, 2009, , 25-38.	1.0	11
141	The development of a geospatial data Grid by integrating OGC Web services with Globus-based Grid technology. Concurrency Computation Practice and Experience, 2008, 20, 1617-1635.	1.4	27
142	Design and Implementation of GeoBrain Online Analysis System (GeOnAS). Lecture Notes in Computer Science, 2008, , 27-36.	1.0	10
143	Automatic Transformation from Semantic Description to Syntactic Specification for Geo-Processing Service Chains. Lecture Notes in Computer Science, 2008, , 50-62.	1.0	4
144	Towards a Geospatial Catalogue Federation Service. Photogrammetric Engineering and Remote Sensing, 2007, 73, 699-708.	0.3	38

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145	Semantics-based automatic composition of geospatial Web service chains. Computers and Geosciences, 2007, 33, 649-665.	2.0	188
146	An Optimized Grid-Based, OGC Standards-Compliant Collaborative Software System for Serving NASA Geospatial Data. , 2006, , .		16
147	Path Planning for Chaining Geospatial Web Services. Lecture Notes in Computer Science, 2006, , 214-226.	1.0	8
148	Geospatial Grid. , 2006, , 121-137.		6
149	A Framework for Developing Web-Service-Based Intelligent Geospatial Knowledge Systems. Annals of GIS, 2005, 11, 24-28.	1.4	8
150	An Accurate and Automated Approach to Georectification of HDF-EOS Swath Data. Photogrammetric Engineering and Remote Sensing, 2004, 70, 397-404.	0.3	12
151	Modelling relationships between NDVI and precipitation during vegetative growth cycles. International Journal of Remote Sensing, 1994, 15, 2121-2136.	1.3	177
152	REFINEMENT OF CROPLAND DATA LAYER USING MACHINE LEARNING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W11, 161-164.	0.2	7