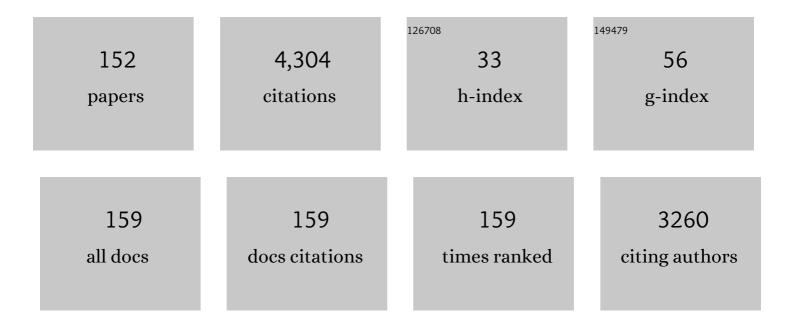
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. Remote Sensing of Environment, 2015, 165, 123-134.	4.6	269
3	Semantics-based automatic composition of geospatial Web service chains. Computers and Geosciences, 2007, 33, 649-665.	2.0	188
4	Modelling relationships between NDVI and precipitation during vegetative growth cycles. International Journal of Remote Sensing, 1994, 15, 2121-2136.	1.3	177
5	County-Level Soybean Yield Prediction Using Deep CNN-LSTM Model. Sensors, 2019, 19, 4363.	2.1	174
6	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
7	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
8	The state of the art of spaceborne remote sensing in flood management. Natural Hazards, 2017, 85, 1223-1248.	1.6	82
9	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
10	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
11	GeoPW: Laying Blocks for the Geospatial Processing Web. Transactions in GIS, 2010, 14, 755-772.	1.0	66
12	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
13	Integrating semantic web technologies and geospatial catalog services for geospatial information discovery and processing in cyberinfrastructure. GeoInformatica, 2011, 15, 273-303.	2.0	60
14	Cloud Computing Enabled Web Processing Service for Earth Observation Data Processing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1637-1649.	2.3	60
15	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
16	Geo-processing workflow driven wildfire hot pixel detection under sensor web environment. Computers and Geosciences, 2010, 36, 362-372.	2.0	56
17	Improvement and Validation of NASA/MODIS NRT Global Flood Mapping. Remote Sensing, 2019, 11, 205.	1.8	55
18	Augmenting geospatial data provenance through metadata tracking in geospatial service chaining. Computers and Geosciences, 2010, 36, 270-281.	2.0	54

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19	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
20	Sharing geoscience algorithms in a Web service-oriented environment (GRASS GIS example). Computers and Geosciences, 2010, 36, 1060-1068.	2.0	53
21	Web-service-based Monitoring and Analysis of Global Agricultural Drought. Photogrammetric Engineering and Remote Sensing, 2013, 79, 929-943.	0.3	50
22	Geospatial sensor web: A cyber-physical infrastructure for geoscience research and application. Earth-Science Reviews, 2018, 185, 684-703.	4.0	50
23	Classification of cities in Bangladesh based on remote sensing derived spatial characteristics. Journal of Urban Management, 2019, 8, 206-224.	2.3	49
24	Semantic Web Servicesâ€based process planning for earth science applications. International Journal of Geographical Information Science, 2009, 23, 1139-1163.	2.2	45
25	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
26	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
27	Rapid Flood Progress Monitoring in Cropland with NASA SMAP. Remote Sensing, 2019, 11, 191.	1.8	42
28	GeoPWTManager: a task-oriented web geoprocessing system. Computers and Geosciences, 2012, 47, 34-45.	2.0	40
29	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
30	Towards a Geospatial Catalogue Federation Service. Photogrammetric Engineering and Remote Sensing, 2007, 73, 699-708.	0.3	38
31	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
32	Use of grid computing for modeling virtual geospatial products. International Journal of Geographical Information Science, 2009, 23, 581-604.	2.2	35
33	Sharing geospatial provenance in a service-oriented environment. Computers, Environment and Urban Systems, 2011, 35, 333-343.	3.3	35
34	A review of remote sensing in flood assessment. , 2016, , .		34
35	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
36	Validation and refinement of cropland data layer using a spatial-temporal decision tree algorithm. Scientific Data, 2022, 9, 63.	2.4	34

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37	Rapid building detection using machine learning. Applied Intelligence, 2016, 45, 443-457.	3.3	33
38	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
39	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
40	Deriving 2011 cultivated land cover data sets using usda National Agricultural Statistics Service historic Cropland Data Layers. , 2012, , .		31
41	Semantic Web-based geospatial knowledge transformation. Computers and Geosciences, 2009, 35, 798-808.	2.0	30
42	BPELPower—A BPEL execution engine for geospatial web services. Computers and Geosciences, 2012, 47, 87-101.	2.0	30
43	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
44	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
45	A Systematic Review on Case Studies of Remote-Sensing-Based Flood Crop Loss Assessment. Agriculture (Switzerland), 2020, 10, 131.	1.4	29
46	A taxonomy of geospatial services for global service discovery and interoperability. Computers and Geosciences, 2009, 35, 783-790.	2.0	28
47	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
48	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
49	A Flexible Data and Sensor Planning Service for Virtual Sensors Based on Web Service. IEEE Sensors Journal, 2011, 11, 1429-1439.	2.4	27
50	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
51	Community venue exposure risk estimator for the COVID-19 pandemic. Health and Place, 2020, 66, 102450.	1.5	25
52	Geoweaver: Advanced Cyberinfrastructure for Managing Hybrid Geoscientific Al Workflows. ISPRS International Journal of Geo-Information, 2020, 9, 119.	1.4	25
53	RESTFul based heterogeneous Geoprocessing workflow interoperation for Sensor Web Service. Computers and Geosciences, 2012, 47, 102-110.	2.0	24
54	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

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55	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
56	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
57	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
58	Selection of Landsat 8 OLI Band Combinations for Land Use and Land Cover Classification. , 2019, , .		23
59	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
60	Metadata requirements analysis for the emerging Sensor Web This was orally presented at the European Geosciences Union General Assembly 2008, Vienna, Austria, 13–18 April 2008 International Journal of Digital Earth, 2009, 2, 3-17.	1.6	21
61	Building an on-demand web service system for Global Agricultural Drought Monitoring and Forecasting. , 2012, , .		21
62	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
63	Detection of flood and its impact on crops using NDVI - Corn case. , 2013, , .		20
64	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
65	Estimating Crop LAI Using Spectral Feature Extraction and the Hybrid Inversion Method. Remote Sensing, 2020, 12, 3534.	1.8	20
66	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
67	Automatic geospatial metadata generation for earth science virtual data products. GeoInformatica, 2012, 16, 1-29.	2.0	19
68	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
69	SUIS: Simplify the use of geospatial web services in environmental modelling. Environmental Modelling and Software, 2019, 119, 228-241.	1.9	19
70	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
71	Detecting spatio-temporal changes of arable land and construction land in the Beijing-Tianjin corridor during 2000–2015. Journal of Chinese Geography, 2019, 29, 702-718.	1.5	18
72	Can Terrestrial Water Storage Dynamics be Estimated From Climate Anomalies?. Earth and Space Science, 2020, 7, e2019EA000959.	1.1	18

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73	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
74	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
75	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
76	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
77	Clustering Indian Ocean Tropical Cyclone Tracks by the Standard Deviational Ellipse. Climate, 2018, 6, 39.	1.2	17
78	An Optimized Grid-Based, OGC Standards-Compliant Collaborative Software System for Serving NASA Geospatial Data. , 2006, , .		16
79	Building asynchronous geospatial processing workflows with web services. Computers and Geosciences, 2012, 39, 34-41.	2.0	16
80	Regression based corn yield assessment using MODIS based daily NDVI in Iowa state. , 2016, , .		16
81	Comparison of selected noise reduction techniques for MODIS daily NDVI: An empirical analysis on corn and soybean. , 2016, , .		16
82	DVDI: A New Remotely Sensed Index for Measuring Vegetation Damage Caused by Natural Disasters. , 2018, , .		16
83	DEM Explorer: An online interoperable DEM data sharing and analysis system. Environmental Modelling and Software, 2012, 38, 101-107.	1.9	15
84	Impact of Climate Change on Soil Salinity: A Remote Sensing Based Investigation in Coastal Bangladesh. , 2018, , .		15
85	Remote Sensing of Urban Poverty and Gentrification. Remote Sensing, 2021, 13, 4022.	1.8	14
86	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
87	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
88	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
89	GWASS: GRASS web application software system based on the GeoBrain web service. Computers and Geosciences, 2012, 47, 143-150.	2.0	13
90	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

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91	Advanced cyberinfrastructure for intercomparison and validation of climate models. Environmental Modelling and Software, 2020, 123, 104559.	1.9	13
92	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
93	An Accurate and Automated Approach to Georectification of HDF-EOS Swath Data. Photogrammetric Engineering and Remote Sensing, 2004, 70, 397-404.	0.3	12
94	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
95	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
96	Agriculture flood mapping with Soil Moisture Active Passive (SMAP) data: A case of 2016 Louisiana flood. , 2017, , .		12
97	Extracting Trusted Pixels from Historical Cropland Data Layer Using Crop Rotation Patterns: A Case Study in Nebraska, USA. , 2019, , .		12
98	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
99	Remote-sensing-based flood damage estimation using crop condition profiles. , 2013, , .		11
100	GeoPW: Towards the Geospatial Processing Web. Lecture Notes in Computer Science, 2009, , 25-38.	1.0	11
101	Grid computing enhances standards-compatible geospatial catalogue service. Computers and Geosciences, 2010, 36, 411-421.	2.0	10
102	Delivery of agricultural drought information via web services. Earth Science Informatics, 2015, 8, 527-538.	1.6	10
103	Realizing parameterless automatic classification of remote sensing imagery using ontology engineering and cyberinfrastructure techniques. Computers and Geosciences, 2016, 94, 56-67.	2.0	10
104	Design and Implementation of GeoBrain Online Analysis System (GeOnAS). Lecture Notes in Computer Science, 2008, , 27-36.	1.0	10
105	Estimation of crop evapotranspiration from MODIS data by combining random forest and trapezoidal models. Agricultural Water Management, 2022, 259, 107249.	2.4	10
106	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
107	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
108	Vegetation index based technique for global agricultural drought monitoring. , 2011, , .		9

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109	A Framework for Developing Web-Service-Based Intelligent Geospatial Knowledge Systems. Annals of GIS, 2005, 11, 24-28.	1.4	8
110	Path Planning for Chaining Geospatial Web Services. Lecture Notes in Computer Science, 2006, , 214-226.	1.0	8
111	The influence of land cover-related changes on the NDVI-based satellite agricultural drought indices. , 2014, , .		8
112	Parallel Agent-as-a-Service (P-AaaS) Based Geospatial Service in the Cloud. Remote Sensing, 2017, 9, 382.	1.8	8
113	Land Use and Land Cover Classification for Bangladesh 2005 on Google Earth Engine. , 2018, , .		8
114	Cloud Environment for Disseminating NASS Cropland Data Layer. , 2019, , .		7
115	Advanced Cyberinfrastructure to Enable Search of Big Climate Datasets in THREDDS. ISPRS International Journal of Geo-Information, 2019, 8, 494.	1.4	7
116	Geoscience model service integrated workflow for rainstorm waterlogging analysis. International Journal of Digital Earth, 2021, 14, 851-873.	1.6	7
117	Machine Learning-based Pre-season Crop Type Mapping: A Comparative Study. , 2021, , .		7
118	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
119	Advanced Cyberinfrastructure for Agricultural Drought Monitoring. , 2019, , .		6
120	Geospatial Grid. , 2006, , 121-137.		6
121	Creating web service interfaces and scientific workflows using command line tools: A GRASS example. , 2009, , .		5
122	Global agricultural drought mapping: Results for the year 2011. , 2012, , .		5
123	Crop Field Boundary Delineation using Historical Crop Rotation Pattern. , 2019, , .		5
124	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
125	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
126	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

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127	Developing geospatial Web service and system for SMAP soil moisture monitoring. , 2017, , .		4
128	Automatic Transformation from Semantic Description to Syntactic Specification for Geo-Processing Service Chains. Lecture Notes in Computer Science, 2008, , 50-62.	1.0	4
129	CIS in the Cloud: Implementing a Web Coverage Service on Amazon Cloud Computing Platform. Lecture Notes in Electrical Engineering, 2011, , 289-295.	0.3	4
130	Service-oriented approach for geospatial feature discovery. Earth Science Informatics, 2012, 5, 153-165.	1.6	3
131	Developing a web-based system for supervised classification of remote sensing images. GeoInformatica, 2016, 20, 629-649.	2.0	3
132	Crop Fraction Layer (CFL) datasets derived through MODIS and LandSat for the continental US from year 2000–2016. , 2017, , .		3
133	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
134	Building Near-Real-Time MODIS Data Fusion Workflow to Support Agricultural Decision-making Applications. , 2019, , .		3
135	Toward a Standardized Encoding of Remote Sensing Geo-Positioning Sensor Models. Remote Sensing, 2020, 12, 1530.	1.8	3
136	On crop rotation in calculating NDVI-based agricultural drought indicators. , 2014, , .		2
137	Study on Temporal and Spatial Adaptability of Crop Classification Models. , 2019, , .		2
138	Intercomparison of Agricultural Drought Monitoring Products. , 2021, , .		2
139	Building an On-line Geospatial Analysis System with AJAX and Web Services. , 2009, , .		1
140	Asynchronous sensor planning service chain driven dynamical satellite sensor information retrieval. , 2010, , .		1
141	Semantic feature catalogue service. , 2012, , .		1
142	Aggregating distributed geo-processing workflows and web services as processing model web. , 2012, ,		1
143	Study of the vegetation index-meteorological factor correlation adjusted by accumulated growing degree days. , 2016, , .		1
144	Coupling of Earth science models and earth observations through OGC interoperability specifications. , 2016, , .		1

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145	Big Data and Its Applications in Agro-Geoinformatics. Springer Remote Sensing/photogrammetry, 2021, , 143-162.	0.4	1
146	Disaster Information Dissemination During Emergency Event: An Experiment in OGC Disaster Resilience Pilot. , 2021, , .		1
147	Applying Machine Learning to Cropland Data Layer for Agro-Geoinformation Discovery. , 2021, , .		1
148	Toward Autonomous Mining of the Sensor Web. Annals of Information Systems, 2010, , 289-307.	0.5	1
149	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
150	Design and Implementation of Geospatial Data Services for Agriculture. Springer Remote Sensing/photogrammetry, 2021, , 385-403.	0.4	0
151	Semantic Web Enabled Intelligent Geoprocessing Service Chaining. Advances in Geospatial Technologies Book Series, 2011, , 310-331.	0.1	0
152	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