Nengcheng Chen

List of Publications by Year
in descending order

139 papers	3,729 citations	136740 32 h-index	168136 53 g-index
140 all docs	140 docs citations	140 times ranked	3505 citing authors

#	Article	IF	Citations
1	Classifying diurnal changes of cyanobacterial blooms in Lake Taihu to identify hot patterns, seasons and hotspots based on hourly GOCI observations. Journal of Environmental Management, 2022, 310, 114782.	3.8	25
2	A spatiotemporal deep learning model ST-LSTM-SA for hourly rainfall forecasting using radar echo images. Journal of Hydrology, 2022, 609, 127748.	2.3	27
3	A Novel Fusion Method for Generating Surface Soil Moisture Data With High Accuracy, High Spatial Resolution, and High Spatio€Temporal Continuity. Water Resources Research, 2022, 58, .	1.7	15
4	Generating high-accuracy and cloud-free surface soil moisture at 1 km resolution by point-surface data fusion over the Southwestern U.S.. Agricultural and Forest Meteorology, 2022, 321, 108985.	1.9	11
5	Linear and nonlinear causal relationships between the dry/wet conditions and teleconnection indices in the Yangtze River basin. Atmospheric Research, 2022, 275, 106249.	1.8	6
6	Editorial: Geospatial Understanding of Sustainable Urban Analytics Using Remote Sensing. Remote Sensing, 2022, 14, 2748.	1.8	0
7	Quantifying the uncertainty of precipitation forecasting using probabilistic deep learning. Hydrology and Earth System Sciences, 2022, 26, 2923-2938.	1.9	10
8	Influence of Terrestrial Water Storage on Flood Potential Index in the Yangtze River Basin, China. Remote Sensing, 2022, 14, 3082.	1.8	5
9	Urbanization-induced drought modification: Example over the Yangtze River Basin, China. Urban Climate, 2022, 44, 101231.	2.4	13
10	City2vec: Urban knowledge discovery based on population mobile network. Sustainable Cities and Society, 2022, 85, 104000.	5.1	17
11	In-situ and triple-collocation based evaluations of eight global root zone soil moisture products. Remote Sensing of Environment, 2021, 254, 112248.	4.6	77
12	PM2.5 Estimation and Spatial-Temporal Pattern Analysis Based on the Modified Support Vector Regression Model and the 1 km Resolution MAIAC AOD in Hubei, China. ISPRS International Journal of Geo-Information, 2021, 10, 31.	1.4	9
13	An on-demand scheme driven by the knowledge of geospatial distribution for large-scale high-resolution impervious surface mapping. GIScience and Remote Sensing, 2021, 58, 562-586.	2.4	11
14	NDVI Variation and Yield Prediction in Growing Season: A Case Study with Tea in Tanuyen Vietnam. Atmosphere, 2021, 12, 962.	1.0	11
15	Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. IEEE Internet of Things Journal, 2021, 8, 13367-13383.	5.5	12
16	Evaluation of six satellite- and model-based surface soil temperature datasets using global ground-based observations. Remote Sensing of Environment, 2021, 264, 112605.	4.6	38
17	A parametric multivariate drought index for drought monitoring and assessment under climate change. Agricultural and Forest Meteorology, 2021, 310, 108657.	1.9	34
18	Assessment of Four Model-Based Surface Soil Temperature Products Unsing Global Dense in Situ Observations. , 2021, , .		0

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19	Spatiotemporal forecasting in earth system science: Methods, uncertainties, predictability and future directions. Earth-Science Reviews, 2021, 222, 103828.	4.0	46
20	A Genetic Algorithm–"Assisted Deep Neural Network Model for Merging Microwave and Infrared Daily Sea Surface Temperature Products. Frontiers in Environmental Science, 2021, 9, .	1.5	1
21	Research and Analysis of Ecological Environment Quality in the Middle Reaches of the Yangtze River Basin between 2000 and 2019. Remote Sensing, 2021, 13, 4475.	1.8	23
22	Drought propagation modification after the construction of the Three Gorges Dam in the Yangtze River Basin. Journal of Hydrology, 2021, 603, 127138.	2.3	39
23	SOCO-Field: observation capability representation for GeoTask-oriented multi-sensor planning cognition. International Journal of Geographical Information Science, 2020, 34, 205-228.	2.2	6
24	Quantitative analysis of agricultural drought propagation process in the Yangtze River Basin by using cross wavelet analysis and spatial autocorrelation. Agricultural and Forest Meteorology, 2020, 280, 107809.	1.9	98
25	An improved fusion crossover genetic algorithm for a time-weighted maximal covering location problem for sensor siting under satellite-borne monitoring. Computers and Geosciences, 2020, 136, 104406.	2.0	15
26	Annual large-scale urban land mapping based on Landsat time series in Google Earth Engine and OpenStreetMap data: A case study in the middle Yangtze River basin. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 159, 337-351.	4.9	67
27	Spatial Configuration and Extent Explains the Urban Heat Mitigation Potential due to Green Spaces: Analysis over Addis Ababa, Ethiopia. Remote Sensing, 2020, 12, 2876.	1.8	18
28	Integrating spatial nonstationarity into SLEUTH for urban growth modeling: A case study in the Wuhan metropolitan area. Computers, Environment and Urban Systems, 2020, 84, 101545.	3.3	19
29	Continental drought monitoring using satellite soil moisture, data assimilation and an integrated drought index. Remote Sensing of Environment, 2020, 250, 112028.	4.6	94
30	Mapping Paddy Rice Fields by Combining Multi-Temporal Vegetation Index and Synthetic Aperture Radar Remote Sensing Data Using Google Earth Engine Machine Learning Platform. Remote Sensing, 2020, 12, 2992.	1.8	20
31	Potential Precipitation Predictability Decreases Under Future Warming. Geophysical Research Letters, 2020, 47, e2020GL090798.	1.5	9
32	A New Geo-Propagation Model of Event Evolution Chain Based on Public Opinion and Epidemic Coupling. International Journal of Environmental Research and Public Health, 2020, 17, 9235.	1.2	13
33	An Ontology-Based Framework for Integrating Remote Sensing Imagery, Image Products, and In Situ Observations. Journal of Sensors, 2020, 2020, 1-12.	0.6	3
34	Construction and Evaluation of the Integrated Perception Ecological Environment Indicator (IPEEI) Based on the DPSIR Framework for Smart Sustainable Cities. Sustainability, 2020, 12, 7112.	1.6	10
35	Drought propagation in Northern China Plain: A comparative analysis of GLDAS and MERRA-2 datasets. Journal of Hydrology, 2020, 588, 125026.	2.3	56
36	Using Multi-Temporal MODIS NDVI Data to Monitor Tea Status and Forecast Yield: A Case Study at Tanuyen, Laichau, Vietnam. Remote Sensing, 2020, 12, 1814.	1.8	19

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37	Downscaling and Projection of Multi-CMIP5 Precipitation Using Machine Learning Methods in the Upper Han River Basin. Advances in Meteorology, 2020, 2020, 1-17.	0.6	31
38	An Observational Process Ontology-Based Modeling Approach for Water Quality Monitoring. Water (Switzerland), 2020, 12, 715.	1.2	12
39	A risk assessment method for remote sensing of cyanobacterial blooms in inland waters. Science of the Total Environment, 2020, 740, 140012.	3.9	17
40	Improving Global Monthly and Daily Precipitation Estimation by Fusing Gauge Observations, Remote Sensing, and Reanalysis Data Sets. Water Resources Research, 2020, 56, e2019WR026444.	1.7	64
41	A data-driven multi-model ensemble for deterministic and probabilistic precipitation forecasting at seasonal scale. Climate Dynamics, 2020, 54, 3355-3374.	1.7	26
42	Urbanization in Small Cities and Their Significant Implications on Landscape Structures: The Case in Ethiopia. Sustainability, 2020, 12, 1235.	1.6	24
43	Modeling the Relationship of Precipitation and Water Level Using Grid Precipitation Products with a Neural Network Model. Remote Sensing, 2020, 12, 1096.	1.8	8
44	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
45	An Observation Capability Information Association Model for Multisensor Observation Integration Management: A Flood Observation Use Case in the Yangtze River Basin. IEEE Sensors Journal, 2019, 19, 11510-11525.	2.4	9
46	RFim: A Real-Time Inundation Extent Model for Large Floodplains Based on Remote Sensing Big Data and Water Level Observations. Remote Sensing, 2019, 11, 1585.	1.8	9
47	Urban drought challenge to 2030 sustainable development goals. Science of the Total Environment, 2019, 693, 133536.	3.9	147
48	A spatiotemporal deep learning model for sea surface temperature field prediction using time-series satellite data. Environmental Modelling and Software, 2019, 120, 104502.	1.9	122
49	A Real-Time and Open Geographic Information System and Its Application for Smart Rivers: A Case Study of the Yangtze River. ISPRS International Journal of Geo-Information, 2019, 8, 114.	1.4	4
50	Short and mid-term sea surface temperature prediction using time-series satellite data and LSTM-AdaBoost combination approach. Remote Sensing of Environment, 2019, 233, 111358.	4.6	172
51	An Improved Genetic Algorithm Coupling a Back-Propagation Neural Network Model (IGA-BPNN) for Water-Level Predictions. Water (Switzerland), 2019, 11, 1795.	1.2	34
52	Urban Expansion in Ethiopia from 1987 to 2017: Characteristics, Spatial Patterns, and Driving Forces. Sustainability, 2019, 11, 2973.	1.6	69
53	Satellite surface soil moisture from SMAP, SMOS, AMSR2 and ESA CCI: A comprehensive assessment using global ground-based observations. Remote Sensing of Environment, 2019, 231, 111215.	4.6	186
54	A Method for Urban Flood Risk Assessment and Zoning Considering Road Environments and Terrain. Sustainability, 2019, 11, 2734.	1.6	14

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55	Sensor web - Enabled flood event process detection and instant service. Environmental Modelling and Software, 2019, 117, 29-42.	1.9	10
56	Spatiotemporal Changes in China's Terrestrial Water Storage From GRACE Satellites and Its Possible Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11976-11993.	1.2	44
57	Improving the North American multi-model ensemble (NMME) precipitation forecasts at local areas using wavelet and machine learning. Climate Dynamics, 2019, 53, 601-615.	1.7	42
58	Using reflected signal power from the BeiDou geostationary satellites to estimate soil moisture. Remote Sensing Letters, 2019, 10, 1-10.	0.6	4
59	Global drought trends under 1.5 and 2 Â°C warming. International Journal of Climatology, 2019, 39, 2375-2385.	1.5	100
60	WHU-SGCC: a novel approach for blending daily satellite (CHIRP) and precipitation observations over the Jinsha River basin. Earth System Science Data, 2019, 11, 1711-1744.	3.7	9
61	An active monitoring method for flood events. Computers and Geosciences, 2018, 116, 42-52.	2.0	9
62	A comparison of large-scale climate signals and the North American Multi-Model Ensemble (NMME) for drought prediction in China. Journal of Hydrology, 2018, 557, 378-390.	2.3	26
63	Feasibility of using signal strength indicator data to estimate soil moisture based on GNSS interference signal analysis. Remote Sensing Letters, 2018, 9, 61-70.	0.6	8
64	A Hydrological Sensor Web Ontology Based on the SSN Ontology: A Case Study for a Flood. ISPRS International Journal of Geo-Information, 2018, 7, 2.	1.4	27
65	SWRO-DDPM: A Sensor Web Resource Ontology for the Dynamic Disaster Process Monitoring. , 2018, , .		0
66	A DLM-LSTM Framework for North-South Land Deformation Trend Analysis from Low-Cost GPS Sensor Time Series. Journal of Sensors, 2018, 2018, 1-11.	0.6	4
67	Long-Term Surface Water Dynamics Analysis Based on Landsat Imagery and the Google Earth Engine Platform: A Case Study in the Middle Yangtze River Basin. Remote Sensing, 2018, 10, 1635.	1.8	101
68	An evaluation of statistical, NMME and hybrid models for drought prediction in China. Journal of Hydrology, 2018, 566, 235-249.	2.3	65
69	DMBLC: An Indirect Urban Impervious Surface Area Extraction Approach by Detecting and Masking Background Land Cover on Google Earth Image. Remote Sensing, 2018, 10, 766.	1.8	10
70	An Observation Capability Semantic-Associated Approach to the Selection of Remote Sensing Satellite Sensors: A Case Study of Flood Observations in the Jinsha River Basin. Sensors, 2018, 18, 1649.	2.1	8
71	Geospatial sensor web: A cyber-physical infrastructure for geoscience research and application. Earth-Science Reviews, 2018, 185, 684-703.	4.0	50
72	W-Shaped Selection for Light Field Super-Resolution. Lecture Notes in Computer Science, 2018, , 148-159.	1.0	0

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73	Droughts in India from 1981 to 2013 and Implications to Wheat Production. Scientific Reports, 2017, 7, 44552.	1.6	80
74	Optimizing the configuration of precipitation stations in a space-ground integrated sensor network based on spatial-temporal coverage maximization. Journal of Hydrology, 2017, 548, 625-640.	2.3	16
75	Environmental efficiency analysis of the Yangtze River Economic Zone using super efficiency data envelopment analysis (SEDEA) and tobit models. Energy, 2017, 134, 659-671.	4.5	108
76	An RFID and sensor web-enabled smart electric power equipment inspection system. , 2017, , .		0
77	Relationship between air quality and economic development in the provincial capital cities of China. Environmental Science and Pollution Research, 2017, 24, 2928-2935.	2.7	20
78	Multi-sensor integrated framework and index for agricultural drought monitoring. Remote Sensing of Environment, 2017, 188, 141-163.	4.6	116
79	NIR-Red Spectra-Based Disaggregation of SMAP Soil Moisture to 250 m Resolution Based on OzNet in Southeastern Australia. Remote Sensing, 2017, 9, 51.	1.8	21
80	Topology Adaptive Water Boundary Extraction Based on a Modified Balloon Snake: Using GF-1 Satellite Images as an Example. Remote Sensing, 2017, 9, 140.	1.8	5
81	A Machine Learning Based Reconstruction Method for Satellite Remote Sensing of Soil Moisture Images with In Situ Observations. Remote Sensing, 2017, 9, 484.	1.8	29
82	Gauging the Severity of the 2012 Midwestern U.S. Drought for Agriculture. Remote Sensing, 2017, 9, 767.	1.8	8
83	Satellite Monitoring of Urban Land Change in the Middle Yangtze River Basin Urban Agglomeration, China between 2000 and 2016. Remote Sensing, 2017, 9, 1086.	1.8	15
84	SCRMS: An RFID and Sensor Web-Enabled Smart Cultural Relics Management System. Sensors, 2017, 17, 60.	2.1	14
85	Efficient Streaming Mass Spatio-Temporal Vehicle Data Access in Urban Sensor Networks Based on Apache Storm. Sensors, 2017, 17, 815.	2.1	12
86	A Spatio-Temporal Enhanced Metadata Model for Interdisciplinary Instant Point Observations in Smart Cities. ISPRS International Journal of Geo-Information, 2017, 6, 50.	1.4	5
87	Event-Driven Distributed Information Resource-Focusing Service for Emergency Response in Smart City with Cyber-Physical Infrastructures. ISPRS International Journal of Geo-Information, 2017, 6, 251.	1.4	14
88	An Efficient Method of Sharing Mass Spatio-Temporal Trajectory Data Based on Cloudera Impala for Traffic Distribution Mapping in an Urban City. Sensors, 2016, 16, 1813.	2.1	7
89	A Cloud Computing-Enabled Spatio-Temporal Cyber-Physical Information Infrastructure for Efficient Soil Moisture Monitoring. ISPRS International Journal of Geo-Information, 2016, 5, 81.	1.4	11
90	Pull-Based Modeling and Algorithms for Real-Time Provision of High-Frequency Sensor Data from Sensor Observation Services. ISPRS International Journal of Geo-Information, 2016, 5, 51.	1.4	0

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91	A Semantic Registry Method Using Sensor Metadata Ontology to Manage Heterogeneous Sensor Information in the Geospatial Sensor Web. ISPRS International Journal of Geo-Information, 2016, 5, 63.	1.4	8
92	Spatio-Temporal Risk Assessment Process Modeling for Urban Hazard Events in Sensor Web Environment. ISPRS International Journal of Geo-Information, 2016, 5, 203.	1.4	3
93	Representing Geospatial Environment Observation Capability Information: A Case Study of Managing Flood Monitoring Sensors in the Jinsha River Basin. Sensors, 2016, 16, 2144.	2.1	4
94	ROSCC: An Efficient Remote Sensing Observation-Sharing Method Based on Cloud Computing for Soil Moisture Mapping in Precision Agriculture. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5588-5598.	2.3	42
95	Reconstruction of GF-1 Soil Moisture Observation Based on Satellite and <italic>In Situ</italic> Sensor Collaboration Under Full Cloud Contamination. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5185-5202.	2.7	19
96	Cloud computing driven efficient mapping on soil moisture under sensor web environment. , 2016, , .		5
97	Soil moisture estimation based on BeiDou B1 interference signal analysis. Science China Earth Sciences, 2016, 59, 2427-2440.	2.3	7
98	Optimizing precipitation station location: a case study of the Jinsha River Basin. International Journal of Geographical Information Science, 2016, 30, 1207-1227.	2.2	15
99	Earth observation metadata ontology model for spatiotemporal-spectral semantic-enhanced satellite observation discovery: a case study of soil moisture monitoring. GIScience and Remote Sensing, 2016, 53, 22-44.	2.4	11
100	Online soil moisture retrieval and sharing using geospatial web-enabled BDS-R service. Computers and Electronics in Agriculture, 2016, 121, 354-367.	3.7	10
101	Provenance Information Representation and Tracking for Remote Sensing Observations in a Sensor Web Enabled Environment. Remote Sensing, 2015, 7, 7646-7670.	1.8	3
102	FLCNDEMF: An Event Metamodel for Flood Process Information Management under the Sensor Web Environment. Remote Sensing, 2015, 7, 7231-7256.	1.8	15
103	A Sharable and Efficient Metadata Model for Heterogeneous Earth Observation Data Retrieval in Multi-Scale Flood Mapping. Remote Sensing, 2015, 7, 9610-9631.	1.8	8
104	Spatio-temporal enabled urban decision-making process modeling and visualization under the cyber-physical environment. Science China Information Sciences, 2015, 58, 1-17.	2.7	5
105	Integrated open geospatial web service enabled cyber-physical information infrastructure for precision agriculture monitoring. Computers and Electronics in Agriculture, 2015, 111, 78-91.	3.7	71
106	Early Warning of Abrupt Displacement Change at the Yemaomian Landslide of the Three Gorge Region, China. Natural Hazards Review, 2015, 16, 04015004.	0.8	8
107	Spaceborne Earth-Observing Optical Sensor Static Capability Index for Clustering. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5504-5518.	2.7	3
108	Cyber-Physical Geographical Information Service-Enabled Control of Diverse In-Situ Sensors. Sensors, 2015, 15, 2565-2592.	2.1	29

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109	Capability representation model for heterogeneous remote sensing sensors: Case study on soil moisture monitoring. Environmental Modelling and Software, 2015, 70, 65-79.	1.9	12
110	Quantitative evaluation of observation capability of GF-1 wide field of view sensors for soil moisture inversion. Journal of Applied Remote Sensing, 2015, 9, 097097.	0.6	18
111	Optimizing the configuration of streamflow stations based on coverage maximization: A case study of the Jinsha River Basin. Journal of Hydrology, 2015, 527, 172-183.	2.3	10
112	Integrated geosptial sensor web for agricultural soil moisture monitoring. , 2015, , .		2
113	An Observation Capability Metadata Model for EO Sensor Discovery in Sensor Web Enablement Environments. Remote Sensing, 2014, 6, 10546-10570.	1.8	18
114	Spatial Pattern and Temporal Variation Law-Based Multi-Sensor Collaboration Method for Improving Regional Soil Moisture Monitoring Capabilities. Remote Sensing, 2014, 6, 12309-12333.	1.8	7
115	An Object Model for Integrating Diverse Remote Sensing Satellite Sensors: A Case Study of Union Operation. Remote Sensing, 2014, 6, 677-699.	1.8	7
116	Progress and challenges in the architecture and service pattern of Earth Observation Sensor Web for Digital Earth. International Journal of Digital Earth, 2014, 7, 935-951.	1.6	16
117	A framework design for the Chinese National Disaster Reduction System of Systems (CNDRSS). International Journal of Digital Earth, 2014, 7, 68-87.	1.6	12
118	Modeling and management of Baoxie sensor web resources based on the node meta-model. , 2014, , .		0
119	A Dynamic Observation Capability Index for Quantitatively Pre-Evaluating Diverse Optical Imaging Satellite Sensors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 515-530.	2.3	13
120	A heterogeneous sensor web node meta-model for the management of a flood monitoring system. Environmental Modelling and Software, 2014, 54, 222-237.	1.9	38
121	A direct registry service method for sensors and algorithms based on the process model. Computers and Geosciences, 2013, 56, 45-55.	2.0	11
122	Active on-demand service method based on event-driven architecture for geospatial data retrieval. Computers and Geosciences, 2013, 56, 1-11.	2.0	16
123	Geospatial Web-based Sensor Information Model for Integrating Satellite Observation. Photogrammetric Engineering and Remote Sensing, 2013, 79, 915-927.	0.3	10
124	Design and Implementation of Geospatial Sensor Web Information Public Service Platform. Geo-information Science, 2013, 15, 887.	0.1	10
125	The cloud computing for a dynamic agro-geoinformation processing. , 2012, , .		2
126	A node semantic similarity schema-matching method for multi-version Web Coverage Service retrieval. International Journal of Geographical Information Science, 2012, 26, 1051-1072.	2.2	11

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127	Flood detection and mapping of the Thailand Central plain using RADARSAT and MODIS under a sensor web environment. International Journal of Applied Earth Observation and Geoinformation, 2012, 14, 245-255.	1.4	56
128	RESTFul based heterogeneous Geoprocessing workflow interoperation for Sensor Web Service. Computers and Geosciences, 2012, 47, 102-110.	2.0	24
129	Using SensorML to construct a geoprocessing e-Science workflow model under a sensor web environment. Computers and Geosciences, 2012, 47, 119-129.	2.0	25
130	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
131	A Sharable and Interoperable Meta-Model for Atmospheric Satellite Sensors and Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1519-1530.	2.3	27
132	A Flexible Data and Sensor Planning Service for Virtual Sensors Based on Web Service. IEEE Sensors Journal, 2011, 11, 1429-1439.	2.4	27
133	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
134	A capability matching and ontology reasoning method for high precision OGC web service discovery. International Journal of Digital Earth, 2011, 4, 449-470.	1.6	18
135	Extended FRAG-BASE schema-matching method for multi-version open GIS Web services retrieval. International Journal of Geographical Information Science, 2011, 25, 1045-1068.	2.2	6
136	Geo-processing workflow driven wildfire hot pixel detection under sensor web environment. Computers and Geosciences, 2010, 36, 362-372.	2.0	56
137	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
138	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
139	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