Yun Chen

List of Publications by Year
in descending order

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90 papers	4,146 citations	126907 33 h-index	118850 62 g-index
91 all docs	91 docs citations	91 times ranked	4320 citing authors

#	Article	IF	Citations
1	Spatial sensitivity analysis of multi-criteria weights in GIS-based land suitability evaluation. Environmental Modelling and Software, 2010, 25, 1582-1591.	4.5	493
2	Detecting, Extracting, and Monitoring Surface Water From Space Using Optical Sensors: A Review. Reviews of Geophysics, 2018, 56, 333-360.	23.0	402
3	Modeling spatiotemporal CO2 (carbon dioxide) emission dynamics in China from DMSP-OLS nighttime stable light data using panel data analysis. Applied Energy, 2016, 168, 523-533.	10.1	222
4	Soil nitrate accumulation, leaching and crop nitrogen use as influenced by fertilization and irrigation in an intensive wheatâ€maize double cropping system in the North China Plain. Plant and Soil, 2006, 284, 335-350.	3.7	199
5	An Evaluation of MODIS Daily and 8-day Composite Products for Floodplain and Wetland Inundation Mapping. Wetlands, 2013, 33, 823-835.	1.5	162
6	Detecting spatiotemporal dynamics of global electric power consumption using DMSP-OLS nighttime stable light data. Applied Energy, 2016, 184, 450-463.	10.1	159
7	The spatial framework for weight sensitivity analysis in AHP-based multi-criteria decision making. Environmental Modelling and Software, 2013, 48, 129-140.	4.5	134
8	A spatial assessment framework for evaluating flood risk under extreme climates. Science of the Total Environment, 2015, 538, 512-523.	8.0	127
9	Mapping spatio-temporal flood inundation dynamics at large river basin scale using time-series flow data and MODIS imagery. International Journal of Applied Earth Observation and Geoinformation, 2014, 26, 350-362.	2.8	126
10	Spatiotemporal variations of CO2 emissions and their impact factors in China: A comparative analysis between the provincial and prefectural levels. Applied Energy, 2019, 233-234, 170-181.	10.1	105
11	Super-resolution mapping of wetland inundation from remote sensing imagery based on integration of back-propagation neural network and genetic algorithm. Remote Sensing of Environment, 2015, 164, 142-154.	11.0	98
12	Spatiotemporal variations of urban CO2 emissions in China: A multiscale perspective. Applied Energy, 2018, 211, 218-229.	10.1	98
13	Cellular automata-based spatial multi-criteria land suitability simulation for irrigated agriculture. International Journal of Geographical Information Science, 2011, 25, 131-148.	4.8	94
14	Modeling and mapping total freight traffic in China using NPP-VIIRS nighttime light composite data. GIScience and Remote Sensing, 2015, 52, 274-289.	5.9	94
15	Urban Expansion and Agricultural Land Loss in China: A Multiscale Perspective. Sustainability, 2016, 8, 790.	3.2	83
16	Land subsidence and its relation with groundwater aquifers in Beijing Plain of China. Science of the Total Environment, 2020, 735, 139111.	8.0	80
17	Sub-pixel flood inundation mapping from multispectral remotely sensed images based on discrete particle swarm optimization. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 101, 10-21.	11.1	69
18	The Strengths and Limitations in Using the Daily MODIS Open Water Likelihood Algorithm for Identifying Flood Events. Remote Sensing, 2014, 6, 11791-11809.	4.0	67

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19	Estimating effects of plantation expansion and climate variability on streamflow for catchments in Australia. Water Resources Research, 2011, 47, .	4.2	64
20	Assessing spatial likelihood of flooding hazard using naÃ¯ve Bayes and GIS: a case study in Bowen Basin, Australia. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1575-1590.	4.0	60
21	DEM-based modification of pixel-swapping algorithm for enhancing floodplain inundation mapping. International Journal of Remote Sensing, 2014, 35, 365-381.	2.9	58
22	Remote sensing for vegetation monitoring in carbon capture storage regions: A review. Applied Energy, 2019, 240, 312-326.	10.1	55
23	Evaluation of potential irrigation expansion using a spatial fuzzy multi-criteria decision framework. Environmental Modelling and Software, 2012, 38, 147-157.	4.5	47
24	Estimating Pasture Biomass Using Sentinel-2 Imagery and Machine Learning. Remote Sensing, 2021, 13, 603.	4.0	47
25	Integrating Entropyâ€Based NaÃ¯ve Bayes and GIS for Spatial Evaluation of Flood Hazard. Risk Analysis, 2017, 37, 756-773.	2.7	45
26	To retire or expand? A fuzzy GISâ€based spatial multiâ€criteria evaluation framework for irrigated agriculture. Irrigation and Drainage, 2010, 59, 174-188.	1.7	42
27	An evaluation of Suomi NPP-VIIRS data for surface water detection. Remote Sensing Letters, 2015, 6, 155-164.	1.4	41
28	Mapping spatial accessibility of public transportation network in an urban area â€“ A case study of Shanghai Hongqiao Transportation Hub. Transportation Research, Part D: Transport and Environment, 2018, 59, 478-495.	6.8	40
29	Effect of reclamation of abandoned salinized farmland on soil bacterial communities in arid northwest China. Science of the Total Environment, 2018, 630, 799-808.	8.0	40
30	Estimate of flood inundation and retention on wetlands using remote sensing and GIS. Ecohydrology, 2014, 7, 1412-1420.	2.4	38
31	Effect of cropping systems after abandoned salinized farmland reclamation on soil bacterial communities in arid northwest China. Soil and Tillage Research, 2019, 187, 204-213.	5.6	38
32	Evaluation of Landsat TM vegetation indices for estimating vegetation cover on semi-arid rangelands: a case study from Australia. Canadian Journal of Remote Sensing, 2009, 35, 435-446.	2.4	36
33	Modeling and implementation of classification rule discovery by ant colony optimisation for spatial land-use suitability assessment. Computers, Environment and Urban Systems, 2011, 35, 308-319.	7.1	34
34	Surface Water Mapping from Suomi NPP-VIIRS Imagery at 30 m Resolution via Blending with Landsat Data. Remote Sensing, 2016, 8, 631.	4.0	33
35	Improved Urban Flooding Mapping from Remote Sensing Images Using Generalized Regression Neural Network-Based Super-Resolution Algorithm. Remote Sensing, 2016, 8, 625.	4.0	32
36	Emergency Evacuation Simulation and Management Optimization in Urban Residential Communities. Sustainability, 2019, 11, 795.	3.2	32

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37	Managing too little and too much water: Robust mine-water management strategies under variable climate and mine conditions. Journal of Cleaner Production, 2017, 162, 1009-1020.	9.3	31
38	How does the urban form-PM2.5 concentration relationship change seasonally in Chinese cities? A comparative analysis between national and urban agglomeration scales. Journal of Cleaner Production, 2019, 239, 118088.	9.3	30
39	Impact of land-use/land-cover and landscape pattern on seasonal in-stream water quality in small watersheds. Journal of Cleaner Production, 2022, 357, 131907.	9.3	27
40	Remotely sensed nighttime lights reveal increasing human activities in protected areas of China mainland. Remote Sensing Letters, 2018, 9, 467-476.	1.4	24
41	Effects of Water Diversion Project on groundwater system and land subsidence in Beijing, China. Engineering Geology, 2020, 276, 105763.	6.3	22
42	Evaluating Water Management Practice for Sustainable Mining. Water (Switzerland), 2014, 6, 414-433.	2.7	20
43	Estimating actual evapotranspiration at field-to-continent scales by calibrating the CMRSET algorithm with MODIS, VIIRS, Landsat and Sentinel-2 data. Journal of Hydrology, 2022, 605, 127318.	5.4	20
44	Assessment of Reclamation Treatments of Abandoned Farmland in an Arid Region of China. Sustainability, 2016, 8, 1183.	3.2	19
45	A GIS Framework for Changing Cropping Pattern Under Different Climate Conditions and Irrigation Availability Scenarios. Water Resources Management, 2011, 25, 3073-3090.	3.9	18
46	Supplyâ€“Demand Analysis of Urban Emergency Shelters Based on Spatiotemporal Population Estimation. International Journal of Disaster Risk Science, 2020, 11, 519-537.	2.9	18
47	Investigating land subsidence and its causes along Beijing high-speed railway using multi-platform InSAR and a maximum entropy model. International Journal of Applied Earth Observation and Geoinformation, 2021, 96, 102284.	2.8	16
48	Estimation of Urban Land-Use Efficiency for Sustainable Development by Integrating over 30-Year Landsat Imagery with Population Data: A Case Study of Ha Long, Vietnam. Sustainability, 2021, 13, 8848.	3.2	16
49	A systems model combining process-based simulation and multi-objective optimisation for strategic management of mine water. Environmental Modelling and Software, 2014, 60, 250-264.	4.5	15
50	Estimation of regional irrigation water requirements and water balance in Xinjiang, China during 1995â€“2017. PeerJ, 2020, 8, e8243.	2.0	15
51	Analysis of low-flow characteristics for catchments in Dongjiang Basin, China. Hydrogeology Journal, 2009, 17, 631-640.	2.1	14
52	Discharge Estimation Using Harmonized Landsat and Sentinel-2 Product: Case Studies in the Murray Darling Basin. Remote Sensing, 2020, 12, 2810.	4.0	14
53	Detecting floodplain inundation frequency using MODIS time-series imagery. , 2012, , .		13
54	Improved estimation of hydraulic conductivity by combining stochastically simulated hydrofacies with geophysical data. Scientific Reports, 2016, 6, 22224.	3.3	13

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55	Large hydropower and legitimacy: A policy regime analysis, applied to Myanmar. Energy Policy, 2017, 110, 619-630.	8.8	13
56	Changes in Glacial Meltwater Runoff and Its Response to Climate Change in the Tianshan Region Detected Using Unmanned Aerial Vehicles (UAVs) and Satellite Remote Sensing. Water (Switzerland), 2021, 13, 1753.	2.7	13
57	Potential for mine water sharing to reduce unregulated discharge. Journal of Cleaner Production, 2016, 131, 133-144.	9.3	12
58	A methodology for up-scaling irrigation losses. Irrigation Science, 2009, 27, 347-356.	2.8	11
59	Economic value evaluation of wetland service in Yeyahu Wetland Nature Reserve, Beijing. Chinese Geographical Science, 2011, 21, 744-752.	3.0	11
60	Evaluating flood inundation impact on wetland vegetation FPAR of the Macquarie Marshes, Australia. Environmental Earth Sciences, 2015, 74, 4989-5000.	2.7	11
61	Spatial Attraction Models Coupled with Elman Neural Networks for Enhancing Sub-Pixel Urban Inundation Mapping. Remote Sensing, 2020, 12, 2068.	4.0	11
62	Integration of Bayesian regulation back-propagation neural network and particle swarm optimization for enhancing sub-pixel mapping of flood inundation in river basins. Remote Sensing Letters, 2016, 7, 631-640.	1.4	10
63	Prediction of salt transport in different soil textures under drip irrigation in an arid zone using the SWAGMAN Destiny model. Soil Research, 2016, 54, 869.	1.1	9
64	Spatial Downscaling of Suomi NPPâ€“VIIRS Image for Lake Mapping. Water (Switzerland), 2017, 9, 834.	2.7	9
65	Climatic regionalization mapping of the Murrumbidgee Irrigation Area, Australia. Progress in Natural Science: Materials International, 2009, 19, 1773-1779.	4.4	8
66	Integration of remotely sensed inundation extent and high-precision topographic data for mapping inundation depth. , 2014, , .		8
67	Downscaling of passive microwave soil moisture retrievals based on spectral analysis. International Journal of Remote Sensing, 2018, 39, 50-67.	2.9	8
68	Enhanced Super-Resolution Mapping of Urban Floods Based on the Fusion of Support Vector Machine and General Regression Neural Network. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1269-1273.	3.1	8
69	Remote Sensing of Wetland Flooding at a Sub-Pixel Scale Based on Random Forests and Spatial Attraction Models. Remote Sensing, 2019, 11, 1231.	4.0	7
70	Evaluation of comprehensive improvement for mild and moderate soil salinization in arid zone. PLoS ONE, 2019, 14, e0224790.	2.5	7
71	Lake water volume fluctuations in response to climate change in Xinjiang, China from 2002 to 2018. PeerJ, 2020, 8, e9683.	2.0	7
72	Inorganic Phosphorus Distribution in Soil Aggregates Under Different Cropping Patterns in Northwest China. Journal of Soil Science and Plant Nutrition, 2019, 19, 157-165.	3.4	6

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73	The Role of Water Temperature Modelling in the Development of a Release Strategy for Cyprinid Herpesvirus 3 (CyHV-3) for Common Carp Control in Southeastern Australia. Water (Switzerland), 2020, 12, 3217.	2.7	6
74	Estimation of Long-Term River Discharge and Its Changes in Ungauged Watersheds in Pamir Plateau. Remote Sensing, 2021, 13, 4043.	4.0	6
75	Fuzzy Classification of High Resolution Remote Sensing Scenes Using Visual Attention Features. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.7	4
76	A dem-based modified pixel swapping algorithm for floodplain inundation mapping at subpixel scale. , 2013, , .		3
77	Estimation of surface water quality parameters based on hyper-spectral and 3D-EEM fluorescence technologies in the Ebinur Lake Watershed, China. Physics and Chemistry of the Earth, 2020, 118-119, 102895.	2.9	3
78	Three Dimensional Conceptualisation of Hydrogeological Environment to Underpin Groundwater Management in Irrigation Area. Water Resources Management, 2012, 26, 3077-3093.	3.9	2
79	Soil chemical properties drive the structure of bacterial communities in the cotton soil of arid Northwest China. Ecological Research, 2021, 36, 663-672.	1.5	2
80	Impact of Abandoned Salinized Farmland Reclamation on Distribution of Inorganic Phosphorus in Soil Aggregates in Northwest China. Journal of Soil Science and Plant Nutrition, 2022, 22, 706-718.	3.4	2
81	Assessing the impact of shallow subsurface pipe drainage on soil salinity and crop yield in arid zone. PeerJ, 2021, 9, e12622.	2.0	2
82	Ant Colony Optimisation based land use suitability classification. , 2012, , .		1
83	Particle swarm optimization based spatial location allocation of urban parks — A case study in Baoshan District, Shanghai, China. , 2014, , .		1
84	Integrating Water Observation from Space Product and Time-Series Flow Data for Modeling Spatio-Temporal Flood Inundation Dynamics. Remote Sensing, 2019, 11, 2535.	4.0	1
85	Growth characteristics of Suaeda salsa under different soil salinity gradients in controlled experiments. International Journal of Agricultural and Biological Engineering, 2021, 14, 142-148.	0.6	1
86	Characteristics of three dimensional fluorescence spectra and its correlation with water quality in Jinghe and Bortala River from Lake Ebinur's major inflow tributaries,Xinjiang. Hupo Kexue/Journal of Lake Sciences, 2017, 29, 1112-1120.	0.8	1
87	Characterising spatiotemporal variability of South Asiaâ€™s climate extremes in past decades. Climate Research, 2019, 77, 249-265.	1.1	1
88	Evaluating social service value of wetlands in Beijing based on remote sensing and GIS. , 2010, , .		0
89	Integration of fuzzy theory and particle swarm optimization for high-resolution satellite scene recognition. Progress in Artificial Intelligence, 2018, 7, 147-154.	2.4	0
90	Water Cycle and Irrigation Expansion: An Application of Multi-Criteria Evaluation in the Limestone Coast (Australia). Journal of Water Resource and Protection, 2014, 06, 655-668.	0.8	0