Minha Choi

List of Publications by Year
in descending order

102 papers	3,297 citations	156536 32 h-index	190340 53 g-index
102 all docs	102 docs citations	102 times ranked	4195 citing authors

#	Article	IF	Citations
1	Spatial soil moisture estimation in agro-pastoral transitional zone based on synergistic use of SAR and optical-thermal satellite images. Agricultural and Forest Meteorology, 2022, 312, 108719.	1.9	9
2	Quantification of the effect of hydrological drivers on actual evapotranspiration using the Bayesian model averaging approach for various landscapes over Northeast Asia. Journal of Hydrology, 2022, 607, 127543.	2.3	7
3	Advances in evapotranspiration prediction using gross primary productivity based on ecoâ€physiological constraints. Hydrological Processes, 2022, 36, .	1.1	2
4	A D-vine copula quantile regression approach for soil moisture retrieval from dual polarimetric SAR Sentinel-1 over vegetated terrains. Remote Sensing of Environment, 2021, 255, 112283.	4.6	24
5	An improved remote sensing based approach for predicting actual Evapotranspiration by integrating LiDAR. Advances in Space Research, 2021, 68, 1732-1753.	1.2	2
6	Urban Heat Island associated with Land Use/Land Cover and climate variations in Melbourne, Australia. Sustainable Cities and Society, 2021, 69, 102861.	5.1	37
7	Water use efficiency in terrestrial ecosystem over East Asia: Effects of climate regimes and land cover types. Science of the Total Environment, 2021, 773, 145519.	3.9	19
8	Correction efficiency and error characteristics for cosmic-ray soil moisture on mountainous terrain. Journal of Hydrology, 2021, 601, 126657.	2.3	6
9	Partitioning evapotranspiration based on the total ecosystem conductance fractions of soil, interception, and canopy in different biomes. Journal of Hydrology, 2021, 603, 126970.	2.3	10
10	A physical-based two-source evapotranspiration model with Moninâ€"Obukhov similarity theory. GIScience and Remote Sensing, 2021, 58, 88-119.	2.4	9
11	A national-scale drought assessment in Uganda based on evapotranspiration deficits from the Bouchet hypothesis. Journal of Hydrology, 2020, 580, 124348.	2.3	23
12	Impact of climate, rising atmospheric carbon dioxide, and other environmental factors on water-use efficiency at multiple land cover types. Scientific Reports, 2020, 10, 11644.	1.6	20
13	Evaluation of atmospheric and terrestrial effects in the carbon cycle for forest and grassland ecosystems using a remote sensing and modeling approach. Agricultural and Forest Meteorology, 2020, 295, 108187.	1.9	9
14	Inter-comparison of evapotranspiration datasets over heterogeneous landscapes across Australia. Advances in Space Research, 2020, 66, 533-545.	1.2	39
15	Satellite-based global-scale irrigation water use and its contemporary trends. Science of the Total Environment, 2020, 714, 136719.	3.9	39
16	Detection of land subsidence and its relationship with land cover types using ESA Sentinel satellite data: a case study of Quetta Valley, Pakistan. International Journal of Remote Sensing, 2019, 40, 9572-9603.	1.3	10
17	Hydrological Drought Assessment of Energy-Based Water Deficit Index (EWDI) at Different Geographical Regions. Advances in Meteorology, 2019, 2019, 1-11.	0.6	7
18	Developing a soil water index-based Priestleyâ€"Taylor algorithm for estimating evapotranspiration over East Asia and Australia. Agricultural and Forest Meteorology, 2019, 279, 107760.	1.9	16

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19	Combining generalized complementary relationship models with the Bayesian Model Averaging method to estimate actual evapotranspiration over China. Agricultural and Forest Meteorology, 2019, 279, 107759.	1.9	13
20	Detecting global irrigated areas by using satellite and reanalysis products. Science of the Total Environment, 2019, 677, 679-691.	3.9	30
21	Impacts of land use/land cover on runoff and energy budgets in an East Asia ecosystem from remotely sensed data in a community land model. Science of the Total Environment, 2019, 684, 641-656.	3.9	20
22	Agricultural drought assessment based on multiple soil moisture products. Journal of Arid Environments, 2019, 167, 43-55.	1.2	24
23	Estimation of health benefits from air quality improvement using the MODIS AOD dataset in Seoul, Korea. Environmental Research, 2019, 173, 452-461.	3.7	32
24	Development of a non-human primate model to support CNS translational research: Demonstration with D-amphetamine exposure and dopamine response. Journal of Neuroscience Methods, 2019, 317, 71-81.	1.3	1
25	Extension of cosmic-ray neutron probe measurement depth for improving field scale root-zone soil moisture estimation by coupling with representative in-situ sensors. Journal of Hydrology, 2019, 571, 679-696.	2.3	15
26	Advances in Remote Sensing to Understand Extreme Hydrological Events. Advances in Meteorology, 2019, 2019, 1-2.	0.6	1
27	Hydrological severity assessment of extreme climate conditions. International Journal of Climatology, 2019, 39, 2725-2736.	1.5	4
28	Stand-alone uncertainty characterization of GLEAM, GLDAS and MOD16 evapotranspiration products using an extended triple collocation approach. Agricultural and Forest Meteorology, 2018, 252, 256-268.	1.9	157
29	Estimating land surface variables and sensitivity analysis for CLM and VIC simulations using remote sensing products. Science of the Total Environment, 2018, 633, 470-483.	3.9	23
30	Impact of air pollution on cause-specific mortality in Korea: Results from Bayesian Model Averaging and Principle Component Regression approaches. Science of the Total Environment, 2018, 636, 1020-1031.	3.9	32
31	Global-scale assessment and combination of SMAP with ASCAT (active) and AMSR2 (passive) soil moisture products. Remote Sensing of Environment, 2018, 204, 260-275.	4.6	147
32	Spatial disaggregation of ASCAT soil moisture under all sky condition using support vector machine. Stochastic Environmental Research and Risk Assessment, 2018, 32, 3455-3473.	1.9	5
33	Intercomparison of Downscaling Techniques for Satellite Soil Moisture Products. Advances in Meteorology, 2018, 2018, 1-16.	0.6	7
34	Assessment of satellite- and reanalysis-based evapotranspiration products with two blending approaches over the complex landscapes and climates of Australia. Agricultural and Forest Meteorology, 2018, 263, 388-398.	1.9	34
35	A comparative assessment of SWAT-model-based evapotranspiration against regional-scale estimates. Ecological Engineering, 2018, 122, 1-9.	1.6	14
36	Coastal wetland change detection using high spatial resolution KOMPSAT-2 imagery. Terrestrial, Atmospheric and Oceanic Sciences, 2018, 29, 509-521.	0.3	1

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37	Let-It-Rain: a web application for stochastic point rainfall generation at ungaged basins and its applicability in runoff and flood modeling. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1023-1043.	1.9	36
38	Satellite-based crop coefficient and evapotranspiration using surface soil moisture and vegetation indices in Northeast Asia. Catena, 2017, 156, 305-314.	2.2	34
39	Does AMSR2 produce better soil moisture retrievals than AMSR-E over Australia?. Remote Sensing of Environment, 2017, 188, 95-105.	4.6	44
40	Evaluation of topographical and seasonal feature using GPM IMERG and TRMM 3B42 over Far-East Asia. Atmospheric Research, 2017, 187, 95-105.	1.8	171
41	Evaluation of the soil water content using cosmic-ray neutron probe in a heterogeneous monsoon climate-dominated region. Advances in Water Resources, 2017, 108, 125-138.	1.7	32
42	Simulations of energy balance components at snow-dominated montane watershed by land surface models. Environmental Earth Sciences, 2017, 76, 1.	1.3	11
43	Evaluating the patterns of spatiotemporal trends of root zone soil moisture in major climate regions in East Asia. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7705-7722.	1.2	41
44	Development and Assessment of the Sand Dust Prediction Model by Utilizing Microwave-Based Satellite Soil Moisture and Reanalysis Datasets in East Asian Desert Areas. Advances in Meteorology, 2017, 2017, 1-13.	0.6	21
45	Robust Initial Wetness Condition Framework of an Event-Based Rainfall–Runoff Model Using Remotely Sensed Soil Moisture. Water (Switzerland), 2017, 9, 77.	1.2	11
46	Ecosystem-dynamics link to hydrologic variations for different land-cover types. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 437-462.	0.3	2
47	A geo-informatics approach for estimating water resources management components and their interrelationships. Agricultural Water Management, 2016, 178, 89-105.	2.4	8
48	Downscaling of AMSR-E soil moisture with MODIS products using machine learning approaches. Environmental Earth Sciences, 2016, 75, 1.	1.3	125
49	Spatial composition of AMSR2 soil moisture products by conditional merging technique with ground soil moisture data. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2109-2126.	1.9	10
50	Hydrological modeling to simulate streamflow under changing climate in a scarcely gauged cryosphere catchment. Environmental Earth Sciences, 2016, 75, 1.	1.3	33
51	Land response to atmosphere at different resolutions in the common land model over East Asia. Advances in Atmospheric Sciences, 2016, 33, 391-408.	1.9	7
52	Land Surface Models Evaluation for Two Different Land-Cover Types: Cropland and Forest. Terrestrial, Atmospheric and Oceanic Sciences, 2016, 27, 153.	0.3	1
53	The Seasonal Difference in Soil Moisture Patterns Considering the Meteorological Variables Throughout the Korean Peninsula. Terrestrial, Atmospheric and Oceanic Sciences, 2016, 27, 907-920.	0.3	5
54	An Assessment and Analysis of the Gap-Filling Techniques for Revising Missing Data of Flux Tower based Evapotranspiration. Korean Society of Hazard Mitigation, 2016, 16, 95-107.	0.1	2

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55	Impact of soil moisture on dust outbreaks in East Asia: Using satellite and assimilation data. Geophysical Research Letters, 2015, 42, 2789-2796.	1.5	69
56	First Assessment of the Advanced Microwave Scanning Radiometer 2 (AMSR2) Soil Moisture Contents in Northeast Asia. Journal of the Meteorological Society of Japan, 2015, 93, 117-129.	0.7	38
57	Assessment of water quality based on Landsat 8 operational land imager associated with human activities in Korea. Environmental Monitoring and Assessment, 2015, 187, 384.	1.3	105
58	Evaluation of remotely sensed actual evapotranspiration products from COMS and MODIS at two different flux tower sites in Korea. International Journal of Remote Sensing, 2015, 36, 375-402.	1.3	17
59	An assessment of remotely sensed surface and root zone soil moisture through active and passive sensors in northeast Asia. Remote Sensing of Environment, 2015, 160, 166-179.	4.6	44
60	The relationships between El Niño Southern Oscillation and extreme storm events in Korea. Environmental Earth Sciences, 2015, 74, 351-362.	1.3	0
61	Estimation of evapotranspiration from ground-based meteorological data and global land data assimilation system (GLDAS). Stochastic Environmental Research and Risk Assessment, 2015, 29, 1963-1992.	1.9	24
62	Evaluation of geostationary satellite (COMS) based Priestley–Taylor evapotranspiration. Agricultural Water Management, 2015, 159, 77-91.	2.4	22
63	Evaluation of statistical gap fillings for continuous energy flux (evapotranspiration) measurements for two different land cover types. Stochastic Environmental Research and Risk Assessment, 2015, 29, 2021-2035.	1.9	11
64	Remote sensing-based evapotranspiration algorithm: a case study of all sky conditions on a regional scale. GIScience and Remote Sensing, 2015, 52, 627-642.	2.4	10
65	Surface energy fluxes in the Northeast Asia ecosystem: SEBS and METRIC models using Landsat satellite images. Agricultural and Forest Meteorology, 2015, 214-215, 60-79.	1.9	41
66	An evaluation of satellite-based drought indices on a regional scale. International Journal of Remote Sensing, 2015, 36, 5593-5612.	1.3	28
67	Spatio–temporal distribution of actual evapotranspiration in the Indus Basin Irrigation System. Hydrological Processes, 2015, 29, 2613-2627.	1.1	44
68	Rain-Gauge Network Evaluations Using Spatiotemporal Correlation Structure for Semi-Mountainous Regions. Terrestrial, Atmospheric and Oceanic Sciences, 2014, 25, 267.	0.3	13
69	Uncertainty of snow water equivalent retrieved from AMSR–E brightness temperature in northeast Asia. Hydrological Processes, 2014, 28, 3173-3184.	1.1	11
70	Dual-model approaches for evapotranspiration analyses over homo- and heterogeneous land surface conditions. Agricultural and Forest Meteorology, 2014, 197, 169-187.	1.9	47
71	Regional scale spatio-temporal variability of soil moisture and its relationship with meteorological factors over the Korean peninsula. Journal of Hydrology, 2014, 516, 317-329.	2.3	83
72	Vulnerability Resilience in the Major Watersheds of the Korean Peninsula. Terrestrial, Atmospheric and Oceanic Sciences, 2014, 25, 857.	0.3	8

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73	Satellite Based Downward Long Wave Radiation by Various Models in Northeast Asia. Terrestrial, Atmospheric and Oceanic Sciences, 2014, 25, 893.	0.3	1
74	Estimation of instantaneous and daily net radiation from MODIS data under clear sky conditions: a case study in East Asia. Irrigation Science, 2013, 31, 1173-1184.	1.3	23
75	Seasonal trends of satellite-based evapotranspiration algorithms over a complex ecosystem in East Asia. Remote Sensing of Environment, 2013, 137, 244-263.	4.6	35
76	Temporal stability and variability of field scale soil moisture on mountainous hillslopes in Northeast Asia. Geoderma, 2013, 207-208, 234-243.	2.3	33
77	Parameterizing daytime downward longwave radiation in two Korean regional flux monitoring network sites. Journal of Hydrology, 2013, 476, 257-264.	2.3	13
78	Evaluation of drought indices via remotely sensed data with hydrological variables. Journal of Hydrology, 2013, 476, 265-273.	2.3	125
79	Remote sensing imageries for land cover and water quality dynamics on the west coast of Korea. Environmental Monitoring and Assessment, 2013, 185, 9111-9124.	1.3	7
80	Evaluating Ecohydrological Impacts of Vegetation Activities on Climatological Perspectives Using MODIS Gross Primary Productivity and Evapotranspiration Products at Korean Regional Flux Network Site. Remote Sensing, 2013, 5, 2534-2553.	1.8	10
81	Evapotranspiration models of different complexity for multiple land cover types. Hydrological Processes, 2012, 26, 2962-2972.	1.1	10
82	A microwave-optical/infrared disaggregation for improving spatial representation of soil moisture using AMSR-E and MODIS products. Remote Sensing of Environment, 2012, 124, 259-269.	4.6	107
83	Survey‐Based Approach for Hydrological Vulnerability Indicators Due to Climate Change: Case Study of Small‐Scale Rivers[1]. Journal of the American Water Resources Association, 2012, 48, 256-265.	1.0	8
84	Evaluation of multiple surface soil moisture for Korean regional flux monitoring network sites: Advanced Microwave Scanning Radiometer E, land surface model, and ground measurements. Hydrological Processes, 2012, 26, 597-603.	1.1	11
85	Validation of MODIS 16 global terrestrial evapotranspiration products in various climates and land cover types in Asia. KSCE Journal of Civil Engineering, 2012, 16, 229-238.	0.9	168
86	Constructing rainfall depth-frequency curves considering a linear trend in rainfall observations. Stochastic Environmental Research and Risk Assessment, 2012, 26, 419-427.	1.9	8
87	Error assessment of climate variables for FAO-56 reference evapotranspiration. Meteorology and Atmospheric Physics, 2011, 112, 81-90.	0.9	36
88	The role of remotely sensed soil moisture to predict surface water elevation at the watershed scale in Korea. KSCE Journal of Civil Engineering, 2011, 15, 939-944.	0.9	2
89	Spatial soil moisture scaling structure during Soil Moisture Experiment 2005. Hydrological Processes, 2011, 25, 926-932.	1.1	47
90	Reliable estimation of evapotranspiration on agricultural fields predicted by the Priestley–Taylor model using soil moisture data from ground and remote sensing observations compared with the Common Land Model. International Journal of Remote Sensing, 2011, 32, 4571-4587.	1.3	9

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91	Evapotranspiration estimation using the Landsat-5 Thematic Mapper image over the Gyungan watershed in Korea. International Journal of Remote Sensing, 2011, 32, 4327-4341.	1.3	14
92	Runoff Losses of Suspended Sediment, Nitrogen, and Phosphorus from a Small Watershed in Korea. Journal of Environmental Quality, 2010, 39, 981-990.	1.0	19
93	Application of bivariate frequency analysis to the derivation of rainfall–frequency curves. Stochastic Environmental Research and Risk Assessment, 2010, 24, 389-397.	1.9	29
94	Understanding of the Common Land Model performance for water and energy fluxes in a farmland during the growing season in Korea. Hydrological Processes, 2010, 24, 1063-1071.	1.1	27
95	Time stability and variability of Electronically Scanned Thinned Array Radiometer soil moisture during Southern Great Plains hydrology experiments. Hydrological Processes, 2010, 24, 2807-2819.	1.1	19
96	GOES Solar Radiation for Evapotranspiration Estimation and Streamflow Prediction. Journal of Hydrologic Engineering - ASCE, 2009, 14, 293-300.	0.8	7
97	An intercomparison of three remote sensing-based surface energy balance algorithms over a corn and soybean production region (Iowa, U.S.) during SMACEX. Agricultural and Forest Meteorology, 2009, 149, 2082-2097.	1.9	151
98	Remote sensing observatory validation of surface soil moisture using Advanced Microwave Scanning Radiometer E, Common Land Model, and ground based data: Case study in SMEX03 Little River Region, Georgia, U.S.. Water Resources Research, 2008, 44, .	1.7	26
99	Assessment of clear and cloudy sky parameterizations for daily downwelling longwave radiation over different land surfaces in Florida, USA. Geophysical Research Letters, 2008, 35, .	1.5	56
100	Temporal Variability Corrections for Advanced Microwave Scanning Radiometer E (AMSR-E) Surface Soil Moisture: Case Study in Little River Region, Georgia, U.S.. Sensors, 2008, 8, 2617-2627.	2.1	24
101	Scaled spatial variability of soil moisture fields. Geophysical Research Letters, 2007, 34, .	1.5	55
102	Soil moisture variability of root zone profiles within SMEX02 remote sensing footprints. Advances in Water Resources, 2007, 30, 883-896.	1.7	160