Matthew F. McCabe

List of Publications by Year
in descending order

220 papers	15,130 citations	23567 58 h-index	21540 114 g-index
252 all docs	252 docs citations	252 times ranked	14986 citing authors

#	Article	IF	Citations
1	Sentinel-1 Backscatter Assimilation Using Support Vector Regression or the Water Cloud Model at European Soil Moisture Sites. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	13
2	Early season prediction of within-field crop yield variability by assimilating CubeSat data into a crop model. Agricultural and Forest Meteorology, 2022, 313, 108736.	4.8	40
3	Long-term changes in the Arabian Peninsula rainfall and their relationship with the ENSO signals in the tropical Indo-Pacific. Climate Dynamics, 2022, 59, 1715-1731.	3.8	6
4	Phenotyping a diversity panel of quinoa using UAV-retrieved leaf area index, SPAD-based chlorophyll and a random forest approach. Precision Agriculture, 2022, 23, 961-983.	6.0	27
5	Dye tracing and concentration mapping in coastal waters using unmanned aerial vehicles. Scientific Reports, 2022, 12, 1141.	3.3	10
6	Risk-Averse Stochastic Programming vs. Adaptive Robust Optimization: A Virtual Power Plant Application. INFORMS Journal on Computing, 2022, 34, 1795-1818.	1.7	3
7	Nature-Inspired Superhydrophobic Sand Mulches Increase Agricultural Productivity and Water-Use Efficiency in Arid Regions. ACS Agricultural Science and Technology, 2022, 2, 276-288.	2.3	12
8	Enhanced Simulation of the Indian Summer Monsoon Rainfall Using Regional Climate Modeling and Continuous Data Assimilation. Frontiers in Climate, 2022, 4, .	2.8	5
9	CubeSat constellations provide enhanced crop phenology and digital agricultural insights using daily leaf area index retrievals. Scientific Reports, 2022, 12, 5244.	3.3	11
10	Machine Learning Strategies for the Retrieval of Leaf-Chlorophyll Dynamics: Model Choice, Sequential Versus Retraining Learning, and Hyperspectral Predictors. Frontiers in Plant Science, 2022, 13, 722442.	3.6	13
11	Monitoring Irrigation Events and Crop Dynamics Using Sentinel-1 and Sentinel-2 Time Series. Remote Sensing, 2022, 14, 1205.	4.0	9
12	A machine learning approach for identifying and delineating agricultural fields and their multi-temporal dynamics using three decades of Landsat data. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 186, 83-101.	11.1	12
13	Multi-variable assimilation into a modified AquaCrop model for improved maize simulation without management or crop phenology information. Agricultural Water Management, 2022, 266, 107576.	5.6	10
14	Monitoring coastal water flow dynamics using sub-daily high-resolution SkySat satellite and UAV-based imagery. Water Research, 2022, 219, 118531.	11.3	4
15	Multi-sensor and multi-platform consistency and interoperability between UAV, Planet CubeSat, Sentinel-2, and Landsat reflectance data. GIScience and Remote Sensing, 2022, 59, 936-958.	5.9	26
16	Combining multi-indicators with machine-learning algorithms for maize yield early prediction at the county-level in China. Agricultural and Forest Meteorology, 2022, 323, 109057.	4.8	29
17	Exploring the use of synthetic aperture radar data for irrigation management in super high-density olive orchards. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102878.	1.9	1
18	Extreme water levels along the central Red Sea coast of Saudi Arabia: processes and frequency analysis. Natural Hazards, 2021, 105, 1797-1814.	3.4	6

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19	Combining Nadir, Oblique, and FaÃ§ade Imagery Enhances Reconstruction of Rock Formations Using Unmanned Aerial Vehicles. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9987-9999.	6.3	16
20	An Extended SEIR Model with Vaccination for Forecasting the COVID-19 Pandemic in Saudi Arabia Using an Ensemble Kalman Filter. Mathematics, 2021, 9, 636.	2.2	103
21	Downscaling Multispectral Satellite Images Without Colocated High-Resolution Data: A Stochastic Approach Based on Training Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3209-3225.	6.3	9
22	Digital insights: bridging the phenotype-to-genotype divide. Journal of Experimental Botany, 2021, 72, 2807-2810.	4.8	6
23	Representation of Arabian Peninsula summer climate in a regional atmospheric model using spectral nudging. Theoretical and Applied Climatology, 2021, 145, 13-30.	2.8	4
24	Multi-sensor remote sensing for drought characterization: current status, opportunities and a roadmap for the future. Remote Sensing of Environment, 2021, 256, 112313.	11.0	114
25	Center pivot field delineation and mapping: A satellite-driven object-based image analysis approach for national scale accounting. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 1-19.	11.1	11
26	Assimilation of soil moisture and canopy cover data improves maize simulation using an under-calibrated crop model. Agricultural Water Management, 2021, 252, 106884.	5.6	30
27	CubeSats deliver new insights into agricultural water use at daily and 3Âm resolutions. Scientific Reports, 2021, 11, 12131.	3.3	16
28	Global sensitivity analysis of crop yield and transpiration from the FAO-AquaCrop model for dryland environments. Field Crops Research, 2021, 269, 108182.	5.1	16
29	Hazard assessment of oil spills along the main shipping lane in the Red Sea. Scientific Reports, 2021, 11, 17078.	3.3	15
30	Overcoming the Challenges of Thermal Infrared Orthomosaics Using a Swath-Based Approach to Correct for Dynamic Temperature and Wind Effects. Remote Sensing, 2021, 13, 3255.	4.0	7
31	The impact of COVID-19 lockdowns on surface urban heat island changes and air-quality improvements across 21 major cities in the Middle East. Environmental Pollution, 2021, 288, 117802.	7.5	50
32	Revisiting the Spatial Scale Effects on Remotely Sensed Evaporation. , 2021, , .		1
33	Mathematical Modeling of Immune Responses against SARS-CoV-2 Using an Ensemble Kalman Filter. Mathematics, 2021, 9, 2427.	2.2	7
34	Thermal Sensor Calibration for Unmanned Aerial Systems Using an External Heated Shutter. Drones, 2021, 5, 119.	4.9	11
35	Detecting Plant Stress Using Thermal and Optical Imagery From an Unoccupied Aerial Vehicle. Frontiers in Plant Science, 2021, 12, 734944.	3.6	14
36	Monitoring water storage decline over the Middle East. Journal of Hydrology, 2021, 603, 127166.	5.4	7

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37	Semi-Universial Geo-Crack Detection By Machine-Learning. , 2021, , .		0
38	Variability of monsoon low‑level jet and associated rainfall over India. International Journal of Climatology, 2020, 40, 1067-1089.	3.5	42
39	Retrieval of High-Resolution Soil Moisture through Combination of Sentinel-1 and Sentinel-2 Data. Remote Sensing, 2020, 12, 2303.	4.0	49
40	Growth performance and hematological changes of weaned beef calves diagnosed with respiratory disease using respiratory scoring and thoracic ultrasonography. Journal of Animal Science, 2020, 98, .	0.5	18
41	Nocturnal Surface Urban Heat Island over Greater Cairo: Spatial Morphology, Temporal Trends and Links to Land-Atmosphere Influences. Remote Sensing, 2020, 12, 3889.	4.0	18
42	Predicting Biomass and Yield in a Tomato Phenotyping Experiment Using UAV Imagery and Random Forest. Frontiers in Artificial Intelligence, 2020, 3, 28.	3.4	55
43	Extreme precipitation events are becoming less frequent but more intense over Jeddah, Saudi Arabia. Are shifting weather regimes the cause?. Atmospheric Science Letters, 2020, 21, e981.	1.9	16
44	A Bayesian Structural Time Series Approach for Predicting Red Sea Temperatures. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1996-2009.	4.9	6
45	A Calibration Procedure for Field and UAV-Based Uncooled Thermal Infrared Instruments. Sensors, 2020, 20, 3316.	3.8	47
46	Evidence for intensification of meteorological droughts in Oman over the past four decades. Atmospheric Research, 2020, 246, 105126.	4.1	24
47	Automated Georectification and Mosaicking of UAV-Based Hyperspectral Imagery from Push-Broom Sensors. Remote Sensing, 2020, 12, 34.	4.0	29
48	The role of topography, soil, and remotely sensed vegetation condition towards predicting crop yield. Field Crops Research, 2020, 252, 107788.	5.1	30
49	Current Practices in UAS-based Environmental Monitoring. Remote Sensing, 2020, 12, 1001.	4.0	135
50	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. Water Resources Research, 2020, 56, e2019WR026058.	4.2	220
51	Impact of Urbanization on the Simulation of Extreme Rainfall in the City of Jeddah, Saudi Arabia. Journal of Applied Meteorology and Climatology, 2020, 59, 953-971.	1.5	19
52	Mapping the condition of macadamia tree crops using multi-spectral UAV and WorldView-3 imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 165, 28-40.	11.1	39
53	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
54	Mapping groundwater abstractions from irrigated agriculture: big data, inverse modeling, and a satellite‑model fusion approach. Hydrology and Earth System Sciences, 2020, 24, 5251-5277.	4.9	19

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55	Enhanced flood forecasting through ensemble data assimilation and joint state-parameter estimation. Journal of Hydrology, 2019, 577, 123924.	5.4	24
56	Efficient dynamical downscaling of general circulation models using continuous data assimilation. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3175-3194.	2.7	29
57	Spatiotemporal monitoring of soil moisture from EMI data using DCT-based Bayesian inference and neural network. Journal of Applied Geophysics, 2019, 169, 226-238.	2.1	13
58	Advances in the Remote Sensing of Terrestrial Evaporation. Remote Sensing, 2019, 11, 1138.	4.0	21
59	High-resolution assessment of solar energy resources over the Arabian Peninsula. Applied Energy, 2019, 248, 354-371.	10.1	48
60	Reconstructing Cloud Contaminated Pixels Using Spatiotemporal Covariance Functions and Multitemporal Hyperspectral Imagery. Remote Sensing, 2019, 11, 1145.	4.0	4
61	A Random Forest Machine Learning Approach for the Retrieval of Leaf Chlorophyll Content in Wheat. Remote Sensing, 2019, 11, 920.	4.0	123
62	Daily temperature extremes over Egypt: Spatial patterns, temporal trends, and driving forces. Atmospheric Research, 2019, 226, 219-239.	4.1	39
63	Unmanned Aerial Vehicle-Based Phenotyping Using Morphometric and Spectral Analysis Can Quantify Responses of Wild Tomato Plants to Salinity Stress. Frontiers in Plant Science, 2019, 10, 370.	3.6	47
64	Surface air temperature variability over the Arabian Peninsula and its links to circulation patterns. International Journal of Climatology, 2019, 39, 445-464.	3.5	52
65	Radiometric Assessment of a UAV-Based Push-Broom Hyperspectral Camera. Sensors, 2019, 19, 4699.	3.8	27
66	The role of the Indian Summer Monsoon variability on Arabian Peninsula summer climate. Climate Dynamics, 2019, 52, 3389-3404.	3.8	37
67	Exploring the roles of and interactions among microbes in dry co-digestion of food waste and pig manure using high-throughput 16S rRNA gene amplicon sequencing. Biotechnology for Biofuels, 2019, 12, 5.	6.2	48
68	A variational approach for parameter estimation based on balanced proper orthogonal decomposition. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 694-710.	6.6	0
69	Using Unmanned Aerial Vehicles to assess the rehabilitation performance of open cut coal mines. Journal of Cleaner Production, 2019, 209, 819-833.	9.3	39
70	Spatial assessment of the performance of multiple highâ€resolution satelliteâ€based precipitation data sets over the Middle East. International Journal of Climatology, 2019, 39, 2522-2543.	3.5	12
71	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. Remote Sensing of Environment, 2018, 211, 26-37.	11.0	33
72	An Efficient Stateâ€"Parameter Filtering Scheme Combining Ensemble Kalman and Particle Filters. Monthly Weather Review, 2018, 146, 871-887.	1.4	9

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73	Identification of Tropical–Extratropical Interactions and Extreme Precipitation Events in the Middle East Based On Potential Vorticity and Moisture Transport. Journal of Geophysical Research D: Atmospheres, 2018, 123, 861-881.	3.3	48
74	Use of unmanned aerial vehicles for efficient beach litter monitoring. Marine Pollution Bulletin, 2018, 131, 662-673.	5.0	135
75	A Cubesat enabled Spatio-Temporal Enhancement Method (CESTEM) utilizing Planet, Landsat and MODIS data. Remote Sensing of Environment, 2018, 209, 211-226.	11.0	186
76	A hybrid training approach for leaf area index estimation via Cubist and random forests machine-learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 135, 173-188.	11.1	165
77	ENSO influence on the interannual variability of the Red Sea convergence zone and associated rainfall. International Journal of Climatology, 2018, 38, 761-775.	3.5	41
78	Intra-Season Crop Height Variability at Commercial Farm Scales Using a Fixed-Wing UAV. Remote Sensing, 2018, 10, 2007.	4.0	52
79	CubeSats Enable High Spatiotemporal Retrievals of Crop-Water Use for Precision Agriculture. Remote Sensing, 2018, 10, 1867.	4.0	57
80	Capturing the Diurnal Cycle of Land Surface Temperature Using an Unmanned Aerial Vehicle. Remote Sensing, 2018, 10, 1407.	4.0	29
81	Prominent mode of summer surface air temperature variability and associated circulation anomalies over the Arabian Peninsula. Atmospheric Science Letters, 2018, 19, e860.	1.9	22
82	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
83	On the Use of Unmanned Aerial Systems for Environmental Monitoring. Remote Sensing, 2018, 10, 641.	4.0	433
84	Using Multi-Spectral UAV Imagery to Extract Tree Crop Structural Properties and Assess Pruning Effects. Remote Sensing, 2018, 10, 854.	4.0	93
85	Daily Retrieval of NDVI and LAI at 3 m Resolution via the Fusion of CubeSat, Landsat, and MODIS Data. Remote Sensing, 2018, 10, 890.	4.0	99
86	Surrogate-based parameter inference in debris flow model. Computational Geosciences, 2018, 22, 1447-1463.	2.4	16
87	Partitioning of evapotranspiration in remote sensing-based models. Agricultural and Forest Meteorology, 2018, 260-261, 131-143.	4.8	91
88	Downscaling the 2D Bénard convection equations using continuous data assimilation. Computational Geosciences, 2017, 21, 393-410.	2.4	48
89	Impacts of dust aerosol and adjacency effects on the accuracy of Landsat 8 and RapidEye surface reflectances. Remote Sensing of Environment, 2017, 194, 127-145.	11.0	33
90	Bayesian inference of earthquake parameters from buoy data using a polynomial chaos-based surrogate. Computational Geosciences, 2017, 21, 683-699.	2.4	24

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91	The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources. Water Resources Research, 2017, 53, 2618-2626.	4.2	552
92	Climatic features of the Red Sea from a regional assimilative model. International Journal of Climatology, 2017, 37, 2563-2581.	3.5	70
93	Spatiotemporal monitoring of soil water content profiles in an irrigated field using probabilistic inversion of time-lapse EMI data. Advances in Water Resources, 2017, 110, 238-248.	3.8	35
94	A comparison of gap-filling approaches for Landsat-7 satellite data. International Journal of Remote Sensing, 2017, 38, 6653-6679.	2.9	30
95	Analysis of a severe weather event over Mecca, Kingdom of Saudi Arabia, using observations and high-resolution modelling. Meteorological Applications, 2017, 24, 612-627.	2.1	7
96	CubeSats in Hydrology: Ultrahigh‐Resolution Insights Into Vegetation Dynamics and Terrestrial Evaporation. Water Resources Research, 2017, 53, 10017-10024.	4.2	60
97	Ensemble data assimilation in the Red Sea: sensitivity to ensemble selection and atmospheric forcing. Ocean Dynamics, 2017, 67, 915-933.	2.2	24
98	Efficient ensemble forecasting of marine ecology with clustered 1D models and statistical lateral exchange: application to the Red Sea. Ocean Dynamics, 2017, 67, 935-947.	2.2	6
99	Future projections of synoptic weather types over the Arabian Peninsula during the twenty-first century using an ensemble of CMIP5 models. Theoretical and Applied Climatology, 2017, 130, 173-189.	2.8	13
100	Partitioning of evapotranspiration using a stable isotope technique in an arid and high temperature agricultural production system. Agricultural Water Management, 2017, 179, 103-109.	5.6	55
101	Time series from hyperion to track productivity in pivot agriculture in saudi arabia. , 2017, , .		3
102	Quantifying uncertainties in fault slip distribution during the Tōhoku tsunami using polynomial chaos. Ocean Dynamics, 2017, 67, 1535-1551.	2.2	7
103	Gap-Filling of Landsat 7 Imagery Using the Direct Sampling Method. Remote Sensing, 2017, 9, 12.	4.0	68
104	The future of Earth observation in hydrology. Hydrology and Earth System Sciences, 2017, 21, 3879-3914.	4.9	313
105	Response of Chlorophyll, Carotenoid and SPAD-502 Measurement to Salinity and Nutrient Stress in Wheat (Triticum aestivum L.). Agronomy, 2017, 7, 61.	3.0	164
106	Sensitivity of Landsat 8 Surface Temperature Estimates to Atmospheric Profile Data: A Study Using MODTRAN in Dryland Irrigated Systems. Remote Sensing, 2017, 9, 988.	4.0	33
107	Evaluating the hydrological consistency of evaporation products using satellite-based gravity and rainfall data. Hydrology and Earth System Sciences, 2017, 21, 323-343.	4.9	16
108	Land surface albedo and vegetation feedbacks enhanced the millennium drought in south-east Australia. Hydrology and Earth System Sciences, 2017, 21, 409-422.	4.9	27

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109	Inferring soil salinity in a drip irrigation system from multi-configuration EMI measurements using adaptive Markov chain Monte Carlo. Hydrology and Earth System Sciences, 2017, 21, 5375-5383.	4.9	16
110	Response of water vapour D-excess to land–atmosphere interactions in a semi-arid environment. Hydrology and Earth System Sciences, 2017, 21, 533-548.	4.9	19
111	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
112	A Bayesian consistent dual ensemble Kalman filter for state-parameter estimation in subsurface hydrology. Hydrology and Earth System Sciences, 2016, 20, 3289-3307.	4.9	32
113	Examining the relationship between intermediate-scale soil moisture and terrestrial evaporation within a semi-arid grassland. Hydrology and Earth System Sciences, 2016, 20, 3987-4004.	4.9	10
114	The WACMOS-ET project – Part 2: Evaluation of global terrestrial evaporation data sets. Hydrology and Earth System Sciences, 2016, 20, 823-842.	4.9	253
115	The GEWEX LandFlux project: evaluation of model evaporation using tower-based and globally gridded forcing data. Geoscientific Model Development, 2016, 9, 283-305.	3.6	119
116	The WACMOS-ET project – Part 1: Tower-scale evaluation of four remote-sensing-based evapotranspiration algorithms. Hydrology and Earth System Sciences, 2016, 20, 803-822.	4.9	164
117	High-Resolution NDVI from Planet's Constellation of Earth Observing Nano-Satellites: A New Data Source for Precision Agriculture. Remote Sensing, 2016, 8, 768.	4.0	131
118	A multi-decadal assessment of the performance of gauge- and model-based rainfall products over Saudi Arabia: climatology, anomalies and trends. International Journal of Climatology, 2016, 36, 656-674.	3.5	78
119	A study of reduced-order 4DVAR with a finite element shallow water model. International Journal for Numerical Methods in Fluids, 2016, 80, 631-647.	1.6	10
120	Single-site Lennard-Jones models via polynomial chaos surrogates of Monte Carlo molecular simulation. Journal of Chemical Physics, 2016, 144, 214301.	3.0	0
121	Reproducibility of crop surface maps extracted from Unmanned Aerial Vehicle (UAV) derived digital surface maps. Proceedings of SPIE, 2016, , .	0.8	0
122	Detection of chlorophyll and leaf area index dynamics from sub-weekly hyperspectral imagery. , 2016, , .		2
123	Elevated CO2 as a driver of global dryland greening. Scientific Reports, 2016, 6, 20716.	3.3	68
124	A geo-informatics approach for estimating water resources management components and their interrelationships. Agricultural Water Management, 2016, 178, 89-105.	5.6	8
125	Predicting extreme rainfall events over Jeddah, Saudi Arabia: impact of data assimilation with conventional and satellite observations. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 327-348.	2.7	34
126	A high-resolution assessment of wind and wave energy potentials in the Red Sea. Applied Energy, 2016, 181, 244-255.	10.1	79

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127	Adapting a regularized canopy reflectance model (REGFLEC) for the retrieval challenges of dryland agricultural systems. Remote Sensing of Environment, 2016, 186, 105-120.	11.0	32
128	Recent changes in continentality and aridity conditions over the Middle East and North Africa region, and their association with circulation patterns. Climate Research, 2016, 69, 25-43.	1.1	28
129	Continuous data assimilation for downscaling large-footprint soil moisture retrievals. Proceedings of SPIE, 2016, , .	0.8	0
130	High-resolution sensing for precision agriculture: from Earth-observing satellites to unmanned aerial vehicles. Proceedings of SPIE, 2016, , .	0.8	11
131	Removal of clouds, dust and shadow pixels from hyperspectral imagery using a non-separable and stationary spatio-temporal covariance model. Proceedings of SPIE, 2016, , .	0.8	1
132	Path planning in uncertain flow fields using ensemble method. Ocean Dynamics, 2016, 66, 1231-1251.	2.2	21
133	A Variational Bayesian Multiple Particle Filtering Scheme for Large-Dimensional Systems. IEEE Transactions on Signal Processing, 2016, 64, 5409-5422.	5.3	34
134	A Spatio-Temporal Enhancement Method for medium resolution LAI (STEM-LAI). International Journal of Applied Earth Observation and Geoinformation, 2016, 47, 15-29.	2.8	48
135	Changes in the frequency and severity of hydrological droughts over Ethiopia from 1960 to 2013. Cuadernos De Investigacion Geografica, 2016, 42, 145-166.	1.1	31
136	Evaluation of the TMPA-3B42 precipitation product using a high-density rain gauge network over complex terrain in northeastern Iberia. Global and Planetary Change, 2015, 133, 188-200.	3.5	54
137	Estimation of soil salinity in a drip irrigation system by using joint inversion of multicoil electromagnetic induction measurements. Water Resources Research, 2015, 51, 3490-3504.	4.2	42
138	A space and time scaleâ€dependent nonlinear geostatistical approach for downscaling daily precipitation and temperature. Water Resources Research, 2015, 51, 6244-6261.	4.2	32
139	Impacts of model initialization on an integrated surface waterâ€"groundwater model. Hydrological Processes, 2015, 29, 3790-3801.	2.6	17
140	Temporal Monitoring of the Soil Freeze-Thaw Cycles over a Snow-Covered Surface by Using Air-Launched Ground-Penetrating Radar. Remote Sensing, 2015, 7, 12041-12056.	4.0	15
141	Towards a satellite based system for monitoring agricultural water use: A case study for Saudi Arabia. , 2015, , .		0
142	Downscaling of coarse resolution LAI products to achieve both high spatial and temporal resolution for regions of interest. , 2015, , .		2
143	Application of a regularized model inversion system (REGFLEC) to multi-temporal RapidEye imagery for retrieving vegetation characteristics. Proceedings of SPIE, 2015, , .	0.8	1
144	Comparison between a coupled 1D-2D model and a fully 2D model for supercritical flow simulation in crossroads. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 274-281.	1.7	17

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145	Daily temperature changes and variability in ENSEMBLES regional models predictions: Evaluation and intercomparison for the Ebro Valley (NE Iberia). Atmospheric Research, 2015, 155, 141-157.	4.1	8
146	Stable water isotope and surface heat flux simulation using ISOLSM: Evaluation against in-situ measurements. Journal of Hydrology, 2015, 523, 67-78.	5.4	14
147	Simulation of Flash-Flood-Producing Storm Events in Saudi Arabia Using the Weather Research and Forecasting Model*. Journal of Hydrometeorology, 2015, 16, 615-630.	1.9	51
148	To what extent do long-duration high-volume dam releases influence river–aquifer interactions? A case study in New South Wales, Australia. Hydrogeology Journal, 2015, 23, 319-334.	2.1	16
149	Joint leaf chlorophyll content and leaf area index retrieval from Landsat data using a regularized model inversion system (REGFLEC). Remote Sensing of Environment, 2015, 159, 203-221.	11.0	114
150	A comparison of optical and microwave scintillometers with eddy covariance derived surface heat fluxes. Agricultural and Forest Meteorology, 2015, 213, 226-239.	4.8	32
151	Impact of model structure and parameterization on Penman–Monteith type evaporation models. Journal of Hydrology, 2015, 525, 521-535.	5.4	87
152	Leaf chlorophyll constraint on model simulated gross primary productivity in agricultural systems. International Journal of Applied Earth Observation and Geoinformation, 2015, 43, 160-176.	2.8	48
153	Recent reversal in loss of global terrestrialÂbiomass. Nature Climate Change, 2015, 5, 470-474.	18.8	447
154	Regional Ocean Data Assimilation. Annual Review of Marine Science, 2015, 7, 21-42.	11.6	114
155	Application of Electromagnetic Induction to Monitor Changes in Soil Electrical Conductivity Profiles in Arid Agriculture. , 2015, , .		2
156	Multi-decadal classification of synoptic weather types, observed trends and links to rainfall characteristics over Saudi Arabia. Frontiers in Environmental Science, 2014, 2, .	3.3	28
157	Technical Note: Reducing the spin-up time of integrated surface water–groundwater models. Hydrology and Earth System Sciences, 2014, 18, 5169-5179.	4.9	18
158	The Red Sea: A Natural Laboratory for Wind and Wave Modeling. Journal of Physical Oceanography, 2014, 44, 3139-3159.	1.7	71
159	Data assimilation within the Advanced Circulation (ADCIRC) modeling framework for the estimation of Manning's friction coefficient. Ocean Modelling, 2014, 76, 43-58.	2.4	53
160	The influence of inter-annually varying albedo on regional climate and drought. Climate Dynamics, 2014, 42, 787-803.	3.8	33
161	Multi-site evaluation of terrestrial evaporation models using FLUXNET data. Agricultural and Forest Meteorology, 2014, 187, 46-61.	4.8	237
162	Constraining snowmelt in a temperature-index model using simulated snow densities. Journal of Hydrology, 2014, 517, 652-667.	5.4	25

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163	Uncertainty quantification and inference of Manning's friction coefficients using DART buoy data during the Tōhoku tsunami. Ocean Modelling, 2014, 83, 82-97.	2.4	42
164	The Impact of Observed Vegetation Changes on Land–Atmosphere Feedbacks During Drought. Journal of Hydrometeorology, 2014, 15, 759-776.	1.9	45
165	Assessing the impact of model spin-up on surface water-groundwater interactions using an integrated hydrologic model. Water Resources Research, 2014, 50, 2636-2656.	4.2	80
166	The effect of warming on grassland evapotranspiration partitioning using laser-based isotope monitoring techniques. Geochimica Et Cosmochimica Acta, 2013, 111, 28-38.	3.9	67
167	Spatial and temporal variability in seasonal snow density. Journal of Hydrology, 2013, 484, 63-73.	5.4	94
168	An iterative stochastic ensemble method for parameter estimation of subsurface flow models. Journal of Computational Physics, 2013, 242, 696-714.	3.8	23
169	Global vegetation biomass change (1988-2008) and attribution to environmental and human drivers. Global Ecology and Biogeography, 2013, 22, 692-705.	5.8	149
170	Effects of spatial aggregation on the multi-scale estimation of evapotranspiration. Remote Sensing of Environment, 2013, 131, 51-62.	11.0	164
171	Atmospheric Forcing of the Winter Air–Sea Heat Fluxes over the Northern Red Sea. Journal of Climate, 2013, 26, 1685-1701.	3.2	40
172	Improved mixing height monitoring through a combination of lidar and radon measurements. Atmospheric Measurement Techniques, 2013, 6, 207-218.	3.1	46
173	A Bayesian analysis of sensible heat flux estimation: Quantifying uncertainty in meteorological forcing to improve model prediction. Water Resources Research, 2013, 49, 2343-2358.	4.2	16
174	Global-Scale Estimation of Land Surface Heat Fluxes from Space. , 2013, , 249-282.		5
175	Global-Scale Estimation of Land Surface Heat Fluxes from Space. , 2013, , 447-462.		1
176	Large eddy simulation of atypical wildland fire spread on leeward slopes. International Journal of Wildland Fire, 2013, 22, 599.	2.4	41
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