Qiaozhen Mu

List of Publications by Citations

39 papers	6,819 citations	25 h-index	41 g-index
41 ext. papers	7,716 ext. citations	8.7 avg, IF	5.77 L-index

#	Paper	IF	Citations
39	Improvements to a MODIS global terrestrial evapotranspiration algorithm. *Remote Sensing of Environment*, **2011**, 115, 1781-1800	13.2	1581
38	Recent decline in the global land evapotranspiration trend due to limited moisture supply. *Nature*, **2010**, 467, 951-4	50.4	1382
37	Development of a global evapotranspiration algorithm based on MODIS and global meteorology data. *Remote Sensing of Environment*, **2007**, 111, 519-536	13.2	1112
36	Regional evaporation estimates from flux tower and MODIS satellite data. *Remote Sensing of Environment*, **2007**, 106, 285-304	13.2	528
35	A Remotely Sensed Global Terrestrial Drought Severity Index. *Bulletin of the American Meteorological Society*, **2013**, 94, 83-98	6.1	281
34	Local cooling and warming effects of forests based on satellite observations. *Nature Communications*, **2015**, 6, 6603	17.4	249
33	Satellite based analysis of northern ET trends and associated changes in the regional water balance from 1983 to 2005. *Journal of Hydrology*, **2009**, 379, 92-110	6	189
32	Direct impacts on local climate of sugar-cane expansion in Brazil. *Nature Climate Change*, **2011**, 1, 105-109	21.4	176
31	Comparison of satellite-based evapotranspiration models over terrestrial ecosystems in China. *Remote Sensing of Environment*, **2014**, 140, 279-293	13.2	166
30	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	1.9	133
29	Upscaling key ecosystem functions across the conterminous United States by a water-centric ecosystem model. *Journal of Geophysical Research*, **2011**, 116,		119
28	Evaluating water stress controls on primary production in biogeochemical and remote sensing based models. *Journal of Geophysical Research*, **2007**, 112,		94
27	Bayesian multimodel estimation of global terrestrial latent heat flux from eddy covariance, meteorological, and satellite observations. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 4521-4545	4.4	93
26	A satellite-based hybrid algorithm to determine the Priestley–Taylor parameter for global terrestrial latent heat flux estimation across multiple biomes. *Remote Sensing of Environment*, **2015**, 165, 216-233	13.2	71
25	Assessing the remotely sensed Drought Severity Index for agricultural drought monitoring and impact analysis in North China. *Ecological Indicators*, **2016**, 63, 296-309	5.8	71
24	Satellite assessment of land surface evapotranspiration for the pan-Arctic domain. *Water Resources Research*, **2009**, 45,	5.4	70
23	Potential and Actual impacts of deforestation and afforestation on land surface temperature. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 14,372-14,386	4.4	69

22	Improving global terrestrial evapotranspiration estimation using support vector machine by integrating three process-based algorithms. *Agricultural and Forest Meteorology*, **2017**, 242, 55-74	5.8	64
21	Comparing Evapotranspiration from Eddy Covariance Measurements, Water Budgets, Remote Sensing, and Land Surface Models over Canadaa,b. *Journal of Hydrometeorology*, **2015**, 16, 1540-1560	3.7	59
20	The net carbon drawdown of small scale afforestation from satellite observations. *Global and Planetary Change*, **2009**, 69, 195-204	4.2	51
19	Multi-sensor model-data fusion for estimation of hydrologic and energy flux parameters. *Remote Sensing of Environment*, **2008**, 112, 1306-1319	13.2	42
18	Contribution of increasing CO2 and climate change to the carbon cycle in Chinab ecosystems. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		40
17	Evaluation of NLDAS-2 evapotranspiration against tower flux site observations. *Hydrological Processes*, **2015**, 29, 1757-1771	3.3	39
16	Satellite-derived estimates of forest leaf area index in southwest Western Australia are not tightly coupled to interannual variations in rainfall: implications for groundwater decline in a drying climate. *Global Change Biology*, **2013**, 19, 2401-12	11.4	35
15	Evolution of hydrological and carbon cycles under a changing climate. *Hydrological Processes*, **2011**, 25, 4093-4102	3.3	29
14	MODIS Reflective Solar Bands On-Orbit Calibration and Performance. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 6355-6371	8.1	15
13	Optimization of a Deep Convective Cloud Technique in Evaluating the Long-Term Radiometric Stability of MODIS Reflective Solar Bands. *Remote Sensing*, **2017**, 9, 535	5	13
12	VIIRS Reflective Solar Band Radiometric and Stability Evaluation Using Deep Convective Clouds. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 7009-7017	8.1	10
11	Assessment of MODIS RSB detector uniformity using deep convective clouds. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 4783-4796	4.4	9
10	Global-Scale Estimation of Land Surface Heat Fluxes from Space **2013**, 249-282		5
9	Exploring the stability and residual response versus scan angle effects in SNPP VIIRS sensor data record reflectance products using deep convective clouds. *Journal of Applied Remote Sensing*, **2018**, 12, 1	1.4	5
8	Using MODIS weekly evapotranspiration to monitor drought **2016**,		5
7	Results From the Deep Convective Clouds-Based Response Versus Scan-Angle Characterization for the MODIS Reflective Solar Bands. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 1115-1128	8.1	4
6	Assessment of MODIS on-orbit calibration using a deep convective cloud technique **2016**,		2
5	Assessment of Terra MODIS thermal emissive band calibration using cold targets and measurements in lunar roll events **2018**,		2

4	Assessment of SNPP VIIRS RSB detector-to-detector differences using deep convective clouds and deserts. *Journal of Applied Remote Sensing*, **2020**, 14, 1	1.4	2
3	Positional Dependence of SNPP VIIRS Solar Diffuser BRDF Change Factor: An Empirical Approach. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 8056-8061	8.1	2
2	Remote Sensing and Modeling of Global Evapotranspiration **2012**, 443-480		1
1	Evaluating the long-term stability and response versus scan angle effect in the SNPP VIIRS SDR reflectance product using a deep convective cloud technique **2018**,		1