Robert E Wolfe

List of Publications by Year
in descending order

89 papers	9,244 citations	201674 27 h-index	233421 45 g-index
93 all docs	93 docs citations	93 times ranked	9633 citing authors

#	Article	IF	Citations
1	A Landsat Surface Reflectance Dataset for North America, 1990â€"2000. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 68-72.	3.1	1,279
2	The Moderate Resolution Imaging Spectroradiometer (MODIS): land remote sensing for global change research. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1228-1249.	6.3	1,178
3	Remote sensing of the urban heat island effect across biomes in the continental USA. Remote Sensing of Environment, 2010, 114, 504-513.	11.0	1,072
4	An overview of MODIS Land data processing and product status. Remote Sensing of Environment, 2002, 83, 3-15.	11.0	978
5	Achieving sub-pixel geolocation accuracy in support of MODIS land science. Remote Sensing of Environment, 2002, 83, 31-49.	11.0	477
6	Early On-Orbit Performance of the Visible Infrared Imaging Radiometer Suite Onboard the Suomi National Polar-Orbiting Partnership (S-NPP) Satellite. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1142-1156.	6.3	403
7	North American forest disturbance mapped from a decadal Landsat record. Remote Sensing of Environment, 2008, 112, 2914-2926.	11.0	380
8	Large seasonal swings in leaf area of Amazon rainforests. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4820-4823.	7.1	376
9	MODIS land data storage, gridding, and compositing methodology: Level 2 grid. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1324-1338.	6.3	341
10	NASA's Black Marble nighttime lights product suite. Remote Sensing of Environment, 2018, 210, 113-143.	11.0	312
11	Global characterization and monitoring of forest cover using Landsat data: opportunities and challenges. International Journal of Digital Earth, 2012, 5, 373-397.	3.9	252
12	The MODIS Land product quality assessment approach. Remote Sensing of Environment, 2002, 83, 62-76.	11.0	236
13	An Algorithm to Produce Temporally and Spatially Continuous MODIS-LAI Time Series. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 60-64.	3.1	189
14	An Enhanced TIMESAT Algorithm for Estimating Vegetation Phenology Metrics From MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 361-371.	4.9	181
15	Impact of sensor degradation on the MODIS NDVI time series. Remote Sensing of Environment, 2012, 119, 55-61.	11.0	171
16	Land and cryosphere products from Suomi NPP VIIRS: Overview and status. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9753-9765.	3.3	159
17	Suomi NPP VIIRS prelaunch and onâ€orbit geometric calibration and characterization. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,508.	3.3	142
18	Characterizing urban heat islands of global settlements using MODIS and nighttime lights products. Canadian Journal of Remote Sensing, 2010, 36, 185-196.	2.4	131

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19	Impact of urbanization on US surface climate. Environmental Research Letters, 2015, 10, 084010.	5.2	116
20	Key characteristics of MODIS data products. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1313-1323.	6.3	99
21	Global surface reflectance products from Landsat: Assessment using coincident MODIS observations. Remote Sensing of Environment, 2013, 134, 276-293.	11.0	92
22	Improved forest change detection with terrain illumination corrected Landsat images. Remote Sensing of Environment, 2013, 136, 469-483.	11.0	83
23	Automated registration and orthorectification package for Landsat and Landsat-like data processing. Journal of Applied Remote Sensing, 2009, 3, 033515.	1.3	74
24	A 30+ Year AVHRR Land Surface Reflectance Climate Data Record and Its Application to Wheat Yield Monitoring. Remote Sensing, 2017, 9, 296.	4.0	49
25	Analysis of MODISâ€"MISR calibration differences using surface albedo around AERONET sites and cloud reflectance. Remote Sensing of Environment, 2007, 107, 12-21.	11.0	43
26	Building a consistent medium resolution satellite data set using moderate resolution imaging spectroradiometer products as reference. Journal of Applied Remote Sensing, 2010, 4, 043526.	1.3	31
27	Evapotranspiration Trends Over the Eastern United States During the 20th Century. Hydrology, 2015, 2, 93-111.	3.0	29
28	NPP VIIRS early on-orbit geometric performance. Proceedings of SPIE, 2012, , .	0.8	23
29	Temporally smoothed and gapâ€filled MODIS land products for carbon modelling: application of the fPAR product. International Journal of Remote Sensing, 2009, 30, 1083-1090.	2.9	19
30	NPP VIIRS geometric performance status. Proceedings of SPIE, 2011, , .	0.8	19
31	Regional distribution models with lack of proximate predictors: <scp>A</scp>fricanized honeybees expanding north. Diversity and Distributions, 2014, 20, 193-201.	4.1	19
32	Vegetation Phenology Metrics Derived from Temporally Smoothed and Gap-Filled MODIS Data. , 2008, , .		15
33	Joint 3D-Wind Retrievals with Stereoscopic Views from MODIS and GOES. Remote Sensing, 2019, 11, 2100.	4.0	15
34	GOES-R series image navigation and registration performance assessment tool set. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	14
35	Mapping Biophysical Parameters for Land Surface Modeling over the Continental US Using MODIS and Landsat. Dataset Papers in Science, 2015, 2015, 1-11.	1.0	13
36	Trends in MODIS geolocation error analysis. Proceedings of SPIE, 2009, , .	0.8	12

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37	MODIS Land Data Products: Generation, Quality Assurance and Validation. Remote Sensing and Digital Image Processing, 2010, , 509-531.	0.7	12
38	MODIS Geolocation. , 2006, , 50-73.		11
39	JPSS-1/NOAA-20 VIIRS early on-orbit geometric performance. , 2018, , .		11
40	Dervation of a Fast Algorithm to Account for Distortions Due to Terrain in Earth-Viewing Satellite Sensor Images. IEEE Transactions on Geoscience and Remote Sensing, 1987, GE-25, 244-251.	6.3	10
41	Assessing Honey Bee Equilibrium Range and Forage Supply using Satelite-Derived Phenology. , 2008, , .		10
42	Impact of Spatial Sampling on Continuity of MODISâ€"VIIRS Land Surface Reflectance Products: A Simulation Approach. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 183-196.	6.3	9
43	JPSS-1 VIIRS at-launch geometric performance. Proceedings of SPIE, 2016, , .	0.8	9
44	SNPP VIIRS spectral bands co-registration and spatial response characterization. Proceedings of SPIE, 2013, , .	0.8	8
45	Software Reuse Within the Earth Science Community. , 2006, , .		7
46	An illumination correction algorithm on Landsat-TM data. , 2010, , .		7
47	On-Orbit Measurement of the Effective Focal Length and Band-to-Band Registration of Satellite-Borne Whiskbroom Imaging Sensors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4622-4633.	4.9	7
48	Thirty-six combined years of MODIS geolocation trending. , 2019, , .		7
49	MODIS solar diffuser Earthshine modeling and analysis. , 2006, 6296, 44.		6
50	An overview of NASA NPP SDS-NICSE activities on VIIRS SDR assessment. , 2010, , .		6
51	Modeling Surface Climate in U.S. Cities Using Simple Biosphere Model SiB2. Canadian Journal of Remote Sensing, 2015, 41, 525-535.	2.4	6
52	Accurate MODIS global geolocation through automated ground control image matching. , 0, , 437-455.		5
53	The Software Reuse Working Group: A Case Study in Fostering Reuse. , 2007, , .		5
54	Trending of SNPP ephemeris and its implications on VIIRS geometric performance. , 2016, , .		5

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55	Terra and Aqua MODIS Design, Radiometry, and Geometry in Support of Land Remote Sensing. Remote Sensing and Digital Image Processing, 2010, , 133-164.	0.7	5
56	SNPP and NOAA-20 VIIRS on-orbit geolocation trending and improvements. , 2020, , .		5
57	MODIS geolocation approach, results and the future. , 0, , .		4
58	Improving Satellite Moderate Resolution Instrument Geolocation Accuracy in Rough Terrain. , 2006, , .		4
59	A disk-based system for producing and distributing science products from MODIS. , 2007, , .		4
60	Pre-launch evaluation of the NPP VIIRS Land and Cryosphere EDRs to meet NASA's science requirements. , 2011, , .		4
61	On-orbit measurement of the focal length of the SNPP VIIRS instrument. , 2017, , .		4
62	GOES-16 and GOES-17 ABI INR assessment. , 2019, , .		4
63	A quality screening service for remote sensing data. , 2010, , .		3
64	Evaluation of the VIIRS Land algorithms at Land PEATE. , 2010, , .		3
65	MODIS and VIIRS geometric performance comparison. , 2012, , .		3
66	GOES-16 ABI navigation assessment. , 2018, , .		3
67	Improvement of MODIS RSB calibration by minimizing the earthshine impact on solar diffuser observations. , 2006, , .		2
68	Reusing Software to Build Data Processing Systems: NPP Science Data Segment Case Study. , 2007, , .		2
69	Status of the Suomi NPP visible/infrared imager radiometer suite's (VIIRS) land environmental data records (EDRs) after early evaluation of on-orbit performance. , 2012, , .		2
70	Generating ground reference data for a global impervious surface survey. , 2012, , .		2
71	Providing provenance to instruments through the US global change information system. , 2015, , .		2
72	A Study of Earth Science Software Reuse Enablement Systems. , 2006, , .		1

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73	Assessing North American forest disturbance from the landsat archive. , 2007, , .		1
74	MODIS science algorithms and data systems lessons learned. , 2009, , .		1
75	An Overview of Terra Mission Results Related to the Carbon Cycle. Geography Compass, 2009, 3, 536-559.	2.7	1
76	Urban heat island effect across biomes in the continental USA. , 2010, , .		1
77	Normalizing Landsat and ASTER data using MODIS data products for forest change detection. , 2010, , .		1
78	MODIS and VIIRS geolocation error and long-term trend analysis with automated correction techniques using Kalman filtering. , 2011, , .		1
79	Linking from observations to data to actionable science in the climate data initiative. , 2015, , .		1
80	Modeling impact of urbanization in us cities using simple biosphere model SiB2. , 2016, , .		1
81	On-Orbit Line Spread Function Estimation of the SNPP VIIRS Imaging System From Lake Pontchartrain Causeway Bridge Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5056-5072.	4.9	1
82	The MODIS land data storage methodology: level 2 grid. , 1998, , .		0
83	Earth Observing System snow and ice products for observation and modeling. Eos, 2005, 86, 67.	0.1	0
84	Analysis of calibration difference between MODIS and MISR. , 2006, 6298, 229.		0
85	Improving access to MODIS biophysical science products for NACP investigators. , 2007, , .		0
86	NASA&#x2019;s NPP Land Earth Science data records evaluation facility. , 2007, , .		0
87	Monitoring vegetation phenology using improved MODIS products. , 2007, , .		0
88	Scaling the pipe: NASA EOS Terra data systems at 10. , 2010, , .		0
89	Seasonal Variation in the Measurement of GOES-16 ABI Channel-to-Channel Registration. , 2020, , .		0