

Robert E Wolfe

List of Publications by Year in descending order

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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	GOES-R series image navigation and registration performance assessment tool set. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	14
2	SNPP and NOAA-20 VIIRS on-orbit geolocation trending and improvements. , 2020, , .		5
3	Seasonal Variation in the Measurement of GOES-16 ABI Channel-to-Channel Registration. , 2020, , .		0
4	Joint 3D-Wind Retrievals with Stereoscopic Views from MODIS and GOES. Remote Sensing, 2019, 11, 2100.	4.0	15
5	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
6	GOES-16 and GOES-17 ABI INR assessment. , 2019, , .		4
7	Thirty-six combined years of MODIS geolocation trending. , 2019, , .		7
8	NASA's Black Marble nighttime lights product suite. Remote Sensing of Environment, 2018, 210, 113-143.	11.0	312
9	GOES-16 ABI navigation assessment. , 2018, , .		3
10	JPSS-1/NOAA-20 VIIRS early on-orbit geometric performance. , 2018, , .		11
11	Impact of Spatial Sampling on Continuity of MODIS's VIIRS Land Surface Reflectance Products: A Simulation Approach. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 183-196.	6.3	9
12	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
13	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
14	On-orbit measurement of the focal length of the SNPP VIIRS instrument. , 2017, , .		4
15	Modeling impact of urbanization in us cities using simple biosphere model SiB2. , 2016, , .		1
16	Trending of SNPP ephemeris and its implications on VIIRS geometric performance. , 2016, , .		5
17	JPSS-1 VIIRS at-launch geometric performance. Proceedings of SPIE, 2016, , .	0.8	9
18	Evapotranspiration Trends Over the Eastern United States During the 20th Century. Hydrology, 2015, 2, 93-111.	3.0	29

#	ARTICLE	IF	CITATIONS
19	Linking from observations to data to actionable science in the climate data initiative. , 2015, , .		1
20	Providing provenance to instruments through the US global change information system. , 2015, , .		2
21	Modeling Surface Climate in U.S. Cities Using Simple Biosphere Model SiB2. Canadian Journal of Remote Sensing, 2015, 41, 525-535.	2.4	6
22	Impact of urbanization on US surface climate. Environmental Research Letters, 2015, 10, 084010.	5.2	116
23	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
24	Regional distribution models with lack of proximate predictors: Africanized honeybees expanding north. Diversity and Distributions, 2014, 20, 193-201.	4.1	19
25	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
26	SNPP VIIRS spectral bands co-registration and spatial response characterization. Proceedings of SPIE, 2013, , .	0.8	8
27	Global surface reflectance products from Landsat: Assessment using coincident MODIS observations. Remote Sensing of Environment, 2013, 134, 276-293.	11.0	92
28	Improved forest change detection with terrain illumination corrected Landsat images. Remote Sensing of Environment, 2013, 136, 469-483.	11.0	83
29	Suomi NPP VIIRS prelaunch and on-orbit geometric calibration and characterization. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,508.	3.3	142
30	Land and cryosphere products from Suomi NPP VIIRS: Overview and status. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9753-9765.	3.3	159
31	MODIS and VIIRS geometric performance comparison. , 2012, , .		3
32	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
33	Generating ground reference data for a global impervious surface survey. , 2012, , .		2
34	Impact of sensor degradation on the MODIS NDVI time series. Remote Sensing of Environment, 2012, 119, 55-61.	11.0	171
35	NPP VIIRS early on-orbit geometric performance. Proceedings of SPIE, 2012, , .	0.8	23
36	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

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37	Pre-launch evaluation of the NPP VIIRS Land and Cryosphere EDRs to meet NASA's science requirements. , 2011, , .		4
38	NPP VIIRS geometric performance status. Proceedings of SPIE, 2011, , .	0.8	19
39	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
40	MODIS and VIIRS geolocation error and long-term trend analysis with automated correction techniques using Kalman filtering. , 2011, , .		1
41	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
42	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
43	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
44	Urban heat island effect across biomes in the continental USA. , 2010, , .		1
45	An illumination correction algorithm on Landsat-TM data. , 2010, , .		7
46	Scaling the pipe: NASA EOS Terra data systems at 10. , 2010, , .		0
47	A quality screening service for remote sensing data. , 2010, , .		3
48	Normalizing Landsat and ASTER data using MODIS data products for forest change detection. , 2010, , .		1
49	An overview of NASA NPP SDS-NICSE activities on VIIRS SDR assessment. , 2010, , .		6
50	Evaluation of the VIIRS Land algorithms at Land PEATE. , 2010, , .		3
51	MODIS Land Data Products: Generation, Quality Assurance and Validation. Remote Sensing and Digital Image Processing, 2010, , 509-531.	0.7	12
52	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
53	MODIS science algorithms and data systems lessons learned. , 2009, , .		1
54	Trends in MODIS geolocation error analysis. Proceedings of SPIE, 2009, , .	0.8	12

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55	Automated registration and orthorectification package for Landsat and Landsat-like data processing. Journal of Applied Remote Sensing, 2009, 3, 033515.	1.3	74
56	An Overview of Terra Mission Results Related to the Carbon Cycle. Geography Compass, 2009, 3, 536-559.	2.7	1
57	Temporally smoothed and gap-filled MODIS land products for carbon modelling: application of the fPAR product. International Journal of Remote Sensing, 2009, 30, 1083-1090.	2.9	19
58	North American forest disturbance mapped from a decadal Landsat record. Remote Sensing of Environment, 2008, 112, 2914-2926.	11.0	380
59	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
60	Vegetation Phenology Metrics Derived from Temporally Smoothed and Gap-Filled MODIS Data. , 2008, , .		15
61	Assessing Honey Bee Equilibrium Range and Forage Supply using Satellite-Derived Phenology. , 2008, , .		10
62	A disk-based system for producing and distributing science products from MODIS. , 2007, , .		4
63	Improving access to MODIS biophysical science products for NACP investigators. , 2007, , .		0
64	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
65	Assessing North American forest disturbance from the landsat archive. , 2007, , .		1
66	NASA’s NPP Land Earth Science data records evaluation facility. , 2007, , .		0
67	Monitoring vegetation phenology using improved MODIS products. , 2007, , .		0
68	The Software Reuse Working Group: A Case Study in Fostering Reuse. , 2007, , .		5
69	Reusing Software to Build Data Processing Systems: NPP Science Data Segment Case Study. , 2007, , .		2
70	Analysis of MODIS–MISR calibration differences using surface albedo around AERONET sites and cloud reflectance. Remote Sensing of Environment, 2007, 107, 12-21.	11.0	43
71	A Landsat Surface Reflectance Dataset for North America, 1990–2000. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 68-72.	3.1	1,279
72	Improvement of MODIS RSB calibration by minimizing the earthshine impact on solar diffuser observations. , 2006, , .		2

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73	MODIS solar diffuser Earthshine modeling and analysis. , 2006, 6296, 44.		6
74	Analysis of calibration difference between MODIS and MISR. , 2006, 6298, 229.		0
75	A Study of Earth Science Software Reuse Enablement Systems. , 2006, , .		1
76	Software Reuse Within the Earth Science Community. , 2006, , .		7
77	Improving Satellite Moderate Resolution Instrument Geolocation Accuracy in Rough Terrain. , 2006, , .		4
78	MODIS Geolocation. , 2006, , 50-73.		11
79	Earth Observing System snow and ice products for observation and modeling. Eos, 2005, 86, 67.	0.1	0
80	Achieving sub-pixel geolocation accuracy in support of MODIS land science. Remote Sensing of Environment, 2002, 83, 31-49.	11.0	477
81	The MODIS Land product quality assessment approach. Remote Sensing of Environment, 2002, 83, 62-76.	11.0	236
82	An overview of MODIS Land data processing and product status. Remote Sensing of Environment, 2002, 83, 3-15.	11.0	978
83	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
84	Key characteristics of MODIS data products. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1313-1323.	6.3	99
85	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
86	The MODIS land data storage methodology: level 2 grid. , 1998, , .		0
87	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
88	Accurate MODIS global geolocation through automated ground control image matching. , 0, , 437-455.		5
89	MODIS geolocation approach, results and the future. , 0, , .		4