Peter North

List of Publications by Year
in descending order

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80 papers	5,740 citations	76326 40 h-index	79698 73 g-index
89 all docs	89 docs citations	89 times ranked	6222 citing authors

#	Article	IF	Citations
1	Uncertainty in Aerosol Optical Depth From Modern Aerosolâ€Climate Models, Reanalyses, and Satellite Products. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	15
2	AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. Atmospheric Chemistry and Physics, 2021, 21, 87-128.	4.9	96
3	Forest signal detection for photon counting LiDAR using Random Forest. Remote Sensing Letters, 2020, 11, 37-46.	1.4	6
4	Monitoring the incidence of Xylella fastidiosa infection in olive orchards using ground-based evaluations, airborne imaging spectroscopy and Sentinel-2 time series through 3-D radiative transfer modelling. Remote Sensing of Environment, 2020, 236, 111480.	11.0	49
5	Evaluating the potential of LiDAR data for fire damage assessment: A radiative transfer model approach. Remote Sensing of Environment, 2020, 247, 111893.	11.0	13
6	Merging regional and global aerosol optical depth records from major available satellite products. Atmospheric Chemistry and Physics, 2020, 20, 2031-2056.	4.9	98
7	An AeroComâ€“AeroSat study: intercomparison of satellite AOD datasets for aerosol model evaluation. Atmospheric Chemistry and Physics, 2020, 20, 12431-12457.	4.9	40
8	Quantifying Vegetation Biophysical Variables from Imaging Spectroscopy Data: A Review on Retrieval Methods. Surveys in Geophysics, 2019, 40, 589-629.	4.6	265
9	Potential of Forest Parameter Estimation Using Metrics from Photon Counting LiDAR Data in Howland Research Forest. Remote Sensing, 2019, 11, 856.	4.0	18
10	Ground and Top of Canopy Extraction From Photon-Counting LiDAR Data Using Local Outlier Factor With Ellipse Searching Area. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1447-1451.	3.1	29
11	Improving the Performance of 3-D Radiative Transfer Model FLIGHT to Simulate Optical Properties of a Tree-Grass Ecosystem. Remote Sensing, 2018, 10, 2061.	4.0	24
12	Validation of Aerosol Products from AATSR and MERIS/AATSR Synergy Algorithmsâ€”Part 1: Global Evaluation. Remote Sensing, 2018, 10, 1414.	4.0	5
13	Monitoring Forest Health with Sun-Induced Chlorophyll Fluorescence Observations and 3-D Radiative Transfer Modeling. , 2018, , .		0
14	Stratospheric aerosol radiative forcing simulated by the chemistry climate model EMAC using Aerosol CCI satellite data. Atmospheric Chemistry and Physics, 2018, 18, 12845-12857.	4.9	17
15	Previsual symptoms of Xylella fastidiosa infection revealed in spectral plant-trait alterations. Nature Plants, 2018, 4, 432-439.	9.3	212
16	Assessing the effects of forest health on sun-induced chlorophyll fluorescence using the FluorFLIGHT 3-D radiative transfer model to account for forest structure. Remote Sensing of Environment, 2017, 193, 165-179.	11.0	94
17	Estimating forest canopy parameters from satellite waveform LiDAR by inversion of the FLIGHT three-dimensional radiative transfer model. Remote Sensing of Environment, 2017, 188, 177-189.	11.0	25
18	Particulate emissions from large North American wildfires estimated using a new top-down method. Atmospheric Chemistry and Physics, 2017, 17, 6423-6438.	4.9	21

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19	Quantitative global mapping of terrestrial vegetation photosynthesis: The Fluorescence Explorer (FLEX) mission. , 2017, , .		1
20	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). Remote Sensing, 2016, 8, 421.	4.0	131
21	Synergistic use of MERIS and AATSR as a proxy for estimating Land Surface Temperature from Sentinel-3 data. Remote Sensing of Environment, 2016, 179, 149-161.	11.0	49
22	Morton et al. reply. Nature, 2016, 531, E6-E6.	27.8	2
23	Smoke aerosol properties and ageing effects for northern temperate and boreal regions derived from AERONET source and age attribution. Atmospheric Chemistry and Physics, 2015, 15, 7929-7943.	4.9	24
24	Synergistic angular and spectral estimation of aerosol properties using CHRIS/PROBA-1 and simulated Sentinel-3 data. Atmospheric Measurement Techniques, 2015, 8, 1719-1731.	3.1	8
25	The uncertainty of biomass estimates from modeled ICESat-2 returns across a boreal forest gradient. Remote Sensing of Environment, 2015, 158, 95-109.	11.0	47
26	Evaluation of seven European aerosol optical depth retrieval algorithms for climate analysis. Remote Sensing of Environment, 2015, 162, 295-315.	11.0	112
27	Slope Estimation from ICESat/GLAS. Remote Sensing, 2014, 6, 10051-10069.	4.0	23
28	Response of vegetation to the 2003 European drought was mitigated by height. Biogeosciences, 2014, 11, 2897-2908.	3.3	17
29	Amazon forests maintain consistent canopy structure and greenness during the dry season. Nature, 2014, 506, 221-224.	27.8	354
30	Retrieval of leaf area index from MODIS surface reflectance by model inversion using different minimization criteria. Remote Sensing of Environment, 2013, 139, 257-270.	11.0	15
31	Evaluating Prospects for Improved Forest Parameter Retrieval From Satellite LiDAR Using a Physically-Based Radiative Transfer Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 45-53.	4.9	13
32	Statistical Distances and Their Applications to Biophysical Parameter Estimation: Information Measures, M-Estimates, and Minimum Contrast Methods. Remote Sensing, 2013, 5, 1355-1388.	4.0	27
33	Aerosol retrieval experiments in the ESA Aerosol_cci project. Atmospheric Measurement Techniques, 2013, 6, 1919-1957.	3.1	76
34	The ESA globAlbedo project: Algorithm. , 2012, , .		11
35	Control of atmospheric particles on diffuse radiation and terrestrial plant productivity. Progress in Physical Geography, 2012, 36, 209-237.	3.2	177
36	Intercomparison of desert dust optical depth from satellite measurements. Atmospheric Measurement Techniques, 2012, 5, 1973-2002.	3.1	37

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37	Vegetation height and cover fraction between 60Â° S and 60Â° N from ICESat GLAS data. Geoscientific Model Development, 2012, 5, 413-432.	3.6	94
38	A global dataset of atmospheric aerosol optical depth and surface reflectance from AATSR. Remote Sensing of Environment, 2012, 116, 199-210.	11.0	66
39	Mapping radiation interception in row-structured orchards using 3D simulation and high-resolution airborne imagery acquired from a UAV. Precision Agriculture, 2012, 13, 473-500.	6.0	62
40	Forestry Applications for Satellite Lidar Remote Sensing. Photogrammetric Engineering and Remote Sensing, 2011, 77, 271-279.	0.6	7
41	The inter-comparison of major satellite aerosol retrieval algorithms using simulated intensity and polarization characteristics of reflected light. Atmospheric Measurement Techniques, 2010, 3, 909-932.	3.1	136
42	Uncertainty within satellite LiDAR estimations of vegetation and topography. International Journal of Remote Sensing, 2010, 31, 1325-1342.	2.9	40
43	A Monte Carlo radiative transfer model of satellite waveform LiDAR. International Journal of Remote Sensing, 2010, 31, 1343-1358.	2.9	73
44	Improvements in Aerosol Optical Depth Estimation Using Multiangle CHRIS/PROBA Images. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 18-24.	6.3	18
45	Global atmospheric aerosol optical depth retrievals over land and ocean from AATSR. , 2009, , .		1
46	The inter-comparison of AATSR dual-view aerosol optical thickness retrievals with results from various algorithms and instruments. International Journal of Remote Sensing, 2009, 30, 4525-4537.	2.9	19
47	New Vegetation Albedo Parameters and Global Fields of Soil Background Albedo Derived from MODIS for Use in a Climate Model. Journal of Hydrometeorology, 2009, 10, 183-198.	1.9	87
48	Satellite-driven modelling of Net Primary Productivity (NPP): Theoretical analysis. Remote Sensing of Environment, 2009, 113, 137-147.	11.0	39
49	A comparison of biophysical parameter retrieval for forestry using airborne and satellite LiDAR. International Journal of Remote Sensing, 2009, 30, 5229-5237.	2.9	18
50	Impact of atmospheric aerosol from biomass burning on Amazon dryâ€season drought. Journal of Geophysical Research, 2009, 114, .	3.3	71
51	The RAMI On-line Model Checker (ROMC): A web-based benchmarking facility for canopy reflectance models. Remote Sensing of Environment, 2008, 112, 1144-1150.	11.0	85
52	Vegetation height estimates for a mixed temperate forest using satellite laser altimetry. International Journal of Remote Sensing, 2008, 29, 1475-1493.	2.9	124
53	Model inversion for chlorophyll estimation in open canopies from hyperspectral imagery. International Journal of Remote Sensing, 2008, 29, 5093-5111.	2.9	30
54	Stemwood Volume Estimates for a Mixed Temperate Forest using Satellite LiDAR(<Special) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (	0.1	1

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55	Interpreting shallow, vertical nitrogen profiles in tree crowns: A three-dimensional, radiative-transfer simulation accounting for diffuse sunlight. Agricultural and Forest Meteorology, 2007, 145, 110-124.	4.8	19
56	Aerosol remote sensing over land: A comparison of satellite retrievals using different algorithms and instruments. Atmospheric Research, 2007, 85, 372-394.	4.1	196
57	Third Radiation Transfer Model Intercomparison (RAMI) exercise: Documenting progress in canopy reflectance models. Journal of Geophysical Research, 2007, 112, .	3.3	193
58	Improved global simulations of gross primary product based on a separate and explicit treatment of diffuse and direct sunlight. Journal of Geophysical Research, 2007, 112, .	3.3	51
59	The impact of diffuse sunlight on canopy lightâ€use efficiency, gross photosynthetic product and net ecosystem exchange in three forest biomes. Global Change Biology, 2007, 13, 776-787.	9.5	222
60	A sensitivity analysis of the land-surface scheme JULES conducted for three forest biomes: Biophysical parameters, model processes, and meteorological driving data. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	32
61	An observation-based estimate of the strength of rainfall-vegetation interactions in the Sahel. Geophysical Research Letters, 2006, 33, .	4.0	63
62	Computationally efficient method for retrieving aerosol optical depth from ATSR-2 and AATSR data. Applied Optics, 2006, 45, 2786.	2.1	42
63	Aerosol optical depth and land surface reflectance from multiangle AATSR measurements: global validation and intersensor comparisons. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 2184-2197.	6.3	90
64	A method to convert AVHRR Normalized Difference Vegetation Index time series to a standard viewing and illumination geometry. Remote Sensing of Environment, 2005, 99, 400-411.	11.0	84
65	Radiative transfer modeling of direct and diffuse sunlight in a Siberian pine forest. Journal of Geophysical Research, 2005, 110, .	3.3	36
66	Simulation and assessment of hyperspectral imagery. , 2004, , .		0
67	Radiation Transfer Model Intercomparison (RAMI) exercise: Results from the second phase. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	131
68	Forest ecosystem chlorophyll content: Implications for remotely sensed estimates of net primary productivity. International Journal of Remote Sensing, 2003, 24, 611-617.	2.9	74
69	NATURAL RESOURCE IN SOUTHERN AFRICAN DRYLANDS: DETERMINING SPATIAL AVAILABILITY AND VARIABILITY USING ATSR2 TIME SERIES. , 2002, , .		0
70	Estimation of aerosol opacity and land surface bidirectional reflectance from ATSR-2 dual-angle imagery: Operational method and validation. Journal of Geophysical Research, 2002, 107, AAC 4-1.	3.3	75
71	Estimation of fAPAR, LAI, and vegetation fractional cover from ATSR-2 imagery. Remote Sensing of Environment, 2002, 80, 114-121.	11.0	96
72	Radiation transfer model intercomparison (RAMI) exercise. Journal of Geophysical Research, 2001, 106, 11937-11956.	3.3	138

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73	Remote sensing of canopy light use efficiency using the photochemical reflectance index. Remote Sensing of Environment, 2001, 78, 264-273.	11.0	278
74	Monte Carlo ray tracing in optical canopy reflectance modelling. International Journal of Remote Sensing, 2000, 18, 163-196.	1.0	117
75	Retrieval of land surface bidirectional reflectance and aerosol opacity from ATSR-2 multiangle imagery. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 526-537.	6.3	109
76	The Propagation of Foliar Biochemical Absorption Features in Forest Canopy Reflectance. Remote Sensing of Environment, 1999, 67, 147-159.	11.0	144
77	New data sets for climate change and land use studies are on track. Eos, 1999, 80, 589.	0.1	6
78	Dual-view operational atmospheric correction for ATSR-2 imagery. , 1998, , .		1
79	Analyzing the effect of structural variability and canopy gaps on forest BRDF using a geometric-optical model. Remote Sensing of Environment, 1997, 62, 46-62.	11.0	137
80	Three-dimensional forest light interaction model using a Monte Carlo method. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 946-956.	6.3	261