

J M Chen

List of Publications by Year in descending order

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411
papers

30,733
citations

3968

88
h-index

6717

156
g-index

440
all docs

440
docs citations

440
times ranked

16251
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining leaf area index for non-flat leaves. <i>Plant, Cell and Environment</i> , 1992, 15, 421-429.	5.8	1,093
2	Modeling and measuring the effects of disturbance history and climate on carbon and water budgets in evergreen needleleaf forests. <i>Agricultural and Forest Meteorology</i> , 2002, 113, 185-222.	4.8	765
3	Leaf area index of boreal forests: Theory, techniques, and measurements. <i>Journal of Geophysical Research</i> , 1997, 102, 29429-29443.	3.3	763
4	Evaluation of Vegetation Indices and a Modified Simple Ratio for Boreal Applications. <i>Canadian Journal of Remote Sensing</i> , 1996, 22, 229-242.	2.3	717
5	Retrieving leaf area index of boreal conifer forests using Landsat TM images. <i>Remote Sensing of Environment</i> , 1996, 55, 153-162.	11.1	663
6	Daily canopy photosynthesis model through temporal and spatial scaling for remote sensing applications. <i>Ecological Modelling</i> , 1999, 124, 99-119.	2.5	626
7	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program Synthesis. <i>Global Change Biology</i> , 2012, 18, 566-584.	9.6	583
8	Optically-based methods for measuring seasonal variation of leaf area index in boreal conifer stands. <i>Agricultural and Forest Meteorology</i> , 1996, 80, 135-163.	4.8	494
9	A process-based boreal ecosystem productivity simulator using remote sensing inputs. <i>Remote Sensing of Environment</i> , 1997, 62, 158-175.	11.1	466
10	Derivation and validation of Canada-wide coarse-resolution leaf area index maps using high-resolution satellite imagery and ground measurements. <i>Remote Sensing of Environment</i> , 2002, 80, 165-184.	11.1	458
11	Leaf chlorophyll content as a proxy for leaf photosynthetic capacity. <i>Global Change Biology</i> , 2017, 23, 3513-3524.	9.6	404
12	A four-scale bidirectional reflectance model based on canopy architecture. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1997, 35, 1316-1337.	6.3	401
13	Global mapping of foliage clumping index using multi-angular satellite data. <i>Remote Sensing of Environment</i> , 2005, 97, 447-457.	11.1	386
14	Plant canopy gap-size analysis theory for improving optical measurements of leaf-area index. <i>Applied Optics</i> , 1995, 34, 6211.	2.1	383
15	Methodology comparison for canopy structure parameters extraction from digital hemispherical photography in boreal forests. <i>Agricultural and Forest Meteorology</i> , 2005, 129, 187-207.	4.8	371
16	The role of satellite remote sensing in climate change studies. <i>Nature Climate Change</i> , 2013, 3, 875-883.	19.0	350
17	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020, 370, 1295-1300.	12.9	317
18	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	9.3	306

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19	A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests An Image and Model Analysis. <i>Remote Sensing of Environment</i> , 2000, 71, 16-25.	11.1	285
20	The spatiotemporal dynamics of rapid urban growth in the Nanjing metropolitan region of China. <i>Landscape Ecology</i> , 2007, 22, 925-937.	4.2	279
21	Quantifying the effect of canopy architecture on optical measurements of leaf area index using two gap size analysis methods. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1995, 33, 777-787.	6.3	274
22	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	274
23	Effects of foliage clumping on the estimation of global terrestrial gross primary productivity. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.8	273
24	Determining digital hemispherical photograph exposure for leaf area index estimation. <i>Agricultural and Forest Meteorology</i> , 2005, 133, 166-181.	4.8	267
25	Measuring leaf area index of plant canopies with branch architecture. <i>Agricultural and Forest Meteorology</i> , 1991, 57, 1-12.	4.8	266
26	Algorithm for global leaf area index retrieval using satellite imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2219-2229.	6.3	263
27	Leaf area index measurements at Fluxnet-Canada forest sites. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 257-268.	4.8	261
28	Multi-angular optical remote sensing for assessing vegetation structure and carbon absorption. <i>Remote Sensing of Environment</i> , 2003, 84, 516-525.	11.1	244
29	Age structure and disturbance legacy of North American forests. <i>Biogeosciences</i> , 2011, 8, 715-732.	3.4	243
30	Net primary productivity of China's terrestrial ecosystems from a process model driven by remote sensing. <i>Journal of Environmental Management</i> , 2007, 85, 563-573.	7.9	234
31	Distributed hydrological model for mapping evapotranspiration using remote sensing inputs. <i>Journal of Hydrology</i> , 2005, 305, 15-39.	5.5	230
32	Retrospective retrieval of long-term consistent global leaf area index (1981-2011) from combined AVHRR and MODIS data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	224
33	Modelling multi-year coupled carbon and water fluxes in a boreal aspen forest. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 136-151.	4.8	213
34	Global clumping index map derived from the MODIS BRDF product. <i>Remote Sensing of Environment</i> , 2012, 119, 118-130.	11.1	211
35	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012, 232, 144-157.	2.5	207
36	Multitemporal, multichannel AVHRR data sets for land biosphere studies- Artifacts and corrections. <i>Remote Sensing of Environment</i> , 1997, 60, 35-57.	11.1	202

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37	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	5.3	199
38	Spatial Scaling of a Remotely Sensed Surface Parameter by Contexture. <i>Remote Sensing of Environment</i> , 1999, 69, 30-42.	11.1	196
39	Optical vegetation indices for monitoring terrestrial ecosystems globally. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 477-493.	29.8	191
40	Locally adjusted cubic-spline capping for reconstructing seasonal trajectories of a satellite-derived surface parameter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2230-2238.	6.3	181
41	Net primary productivity distribution in the BOREAS region from a process model using satellite and surface data. <i>Journal of Geophysical Research</i> , 1999, 104, 27735-27754.	3.3	176
42	Leaf chlorophyll content retrieval from airborne hyperspectral remote sensing imagery. <i>Remote Sensing of Environment</i> , 2008, 112, 3234-3247.	11.1	170
43	Vegetation structural change since 1981 significantly enhanced the terrestrial carbon sink. <i>Nature Communications</i> , 2019, 10, 4259.	13.1	170
44	Canopy architecture and remote sensing of the fraction of photosynthetically active radiation absorbed by boreal conifer forests. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1996, 34, 1353-1368.	6.3	165
45	E-? modelling of turbulent air flow downwind of a model forest edge. <i>Boundary-Layer Meteorology</i> , 1996, 77, 21-44.	2.3	162
46	A practical scheme for correcting multiple scattering effects on optical LAI measurements. <i>Agricultural and Forest Meteorology</i> , 2001, 110, 125-139.	4.8	162
47	Foliage area and architecture of plant canopies from sunfleck size distributions. <i>Agricultural and Forest Meteorology</i> , 1992, 60, 249-266.	4.8	160
48	Regional patterns of soil organic carbon stocks in China. <i>Journal of Environmental Management</i> , 2007, 85, 680-689.	7.9	158
49	Evolution of evapotranspiration models using thermal and shortwave remote sensing data. <i>Remote Sensing of Environment</i> , 2020, 237, 111594.	11.1	156
50	Improved estimate of global gross primary production for reproducing its long-term variation, 1982-2017. <i>Earth System Science Data</i> , 2020, 12, 2725-2746.	10.0	156
51	Annual carbon balance of Canada's forests during 1895-1996. <i>Global Biogeochemical Cycles</i> , 2000, 14, 839-849.	4.8	150
52	Characterization and intercomparison of global moderate resolution leaf area index (LAI) products: Analysis of climatologies and theoretical uncertainties. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 529-548.	3.0	149
53	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. <i>Nature Climate Change</i> , 2018, 8, 1092-1096.	19.0	145
54	Evaluation of fraction of absorbed photosynthetically active radiation products for different canopy radiation transfer regimes: Methodology and results using Joint Research Center products derived from SeaWiFS against ground-based estimations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	144

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55	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. <i>Global Ecology and Biogeography</i> , 2013, 22, 994-1006.	5.8	144
56	Characteristics of shortwave and longwave irradiances under a Douglas-fir forest stand. <i>Canadian Journal of Forest Research</i> , 1991, 21, 1020-1028.	1.7	141
57	Net primary productivity mapped for Canada at 1-km resolution. <i>Global Ecology and Biogeography</i> , 2002, 11, 115-129.	5.8	140
58	The applicability of empirical vegetation indices for determining leaf chlorophyll content over different leaf and canopy structures. <i>Ecological Complexity</i> , 2014, 17, 119-130.	2.9	140
59	Boreal forest CO ₂ exchange and evapotranspiration predicted by nine ecosystem process models: Intermodel comparisons and relationships to field measurements. <i>Journal of Geophysical Research</i> , 2001, 106, 33623-33648.	3.3	139
60	Spatial distribution of carbon sources and sinks in Canada's forests. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 622-641.	1.6	133
61	Field characterization of olive (<i>Olea europaea</i> L.) tree crown architecture using terrestrial laser scanning data. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 204-214.	4.8	132
62	Simulating the impacts of disturbances on forest carbon cycling in North America: Processes, data, models, and challenges. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	129
63	The global distribution of leaf chlorophyll content. <i>Remote Sensing of Environment</i> , 2020, 236, 111479.	11.1	122
64	Relationships between net primary productivity and forest stand age in U.S. forests. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.8	121
65	Modeling growing season phenology in North American forests using seasonal mean vegetation indices from MODIS. <i>Remote Sensing of Environment</i> , 2014, 147, 79-88.	11.1	118
66	Modeling global atmospheric CO ₂ with improved emission inventories and CO ₂ production from the oxidation of other carbon species. <i>Geoscientific Model Development</i> , 2010, 3, 689-716.	3.7	117
67	An integrated terrestrial ecosystem carbon-budget model based on changes in disturbance, climate, and atmospheric chemistry. <i>Ecological Modelling</i> , 2000, 135, 55-79.	2.5	116
68	Assessing the impact of urbanization on regional net primary productivity in Jianguyin County, China. <i>Journal of Environmental Management</i> , 2007, 85, 597-606.	7.9	116
69	Mapping evapotranspiration based on remote sensing: An application to Canada's landmass. <i>Water Resources Research</i> , 2003, 39, .	4.2	114
70	Retrieval of vegetation clumping index using hot spot signatures measured by POLDER instrument. <i>Remote Sensing of Environment</i> , 2002, 79, 84-95.	11.1	113
71	LAI inversion algorithm based on directional reflectance kernels. <i>Journal of Environmental Management</i> , 2007, 85, 638-648.	7.9	112
72	Predicting gross primary production from the enhanced vegetation index and photosynthetically active radiation: Evaluation and calibration. <i>Remote Sensing of Environment</i> , 2011, 115, 3424-3435.	11.1	112

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73	Evaluating spatial and temporal patterns of MODIS GPP over the conterminous U.S. against flux measurements and a process model. <i>Remote Sensing of Environment</i> , 2012, 124, 717-729.	11.1	110
74	Multiple-scattering scheme useful for geometric optical modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 1061-1071.	6.3	108
75	Carbon neutrality: Toward a sustainable future. <i>Innovation(China)</i> , 2021, 2, 100127.	9.3	107
76	Land surface phenology from optical satellite measurement and CO ₂ eddy covariance technique. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	106
77	Combining remote sensing imagery and forest age inventory for biomass mapping. <i>Journal of Environmental Management</i> , 2007, 85, 616-623.	7.9	104
78	Effects of clumping on estimates of stand leaf area index using the LI-COR LAI-2000. <i>Canadian Journal of Forest Research</i> , 1993, 23, 1940-1943.	1.7	103
79	Mapping tree and shrub leaf area indices in an ombrotrophic peatland through multiple endmember spectral unmixing. <i>Remote Sensing of Environment</i> , 2007, 109, 342-360.	11.1	103
80	Optimization of ecosystem model parameters through assimilating eddy covariance flux data with an ensemble Kalman filter. <i>Ecological Modelling</i> , 2008, 217, 157-173.	2.5	103
81	Comparison and validation of MODIS and VEGETATION global LAI products over four BigFoot sites in North America. <i>Remote Sensing of Environment</i> , 2007, 109, 81-94.	11.1	102
82	Seasonal change in understory reflectance of boreal forests and influence on canopy vegetation indices. <i>Journal of Geophysical Research</i> , 1997, 102, 29475-29482.	3.3	98
83	Assessing land cover change resulting from large surface mining development. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2005, 7, 29-48.	2.8	98
84	Peak season plant activity shift towards spring is reflected by increasing carbon uptake by extratropical ecosystems. <i>Global Change Biology</i> , 2018, 24, 2117-2128.	9.6	97
85	Improved estimates of global terrestrial photosynthesis using information on leaf chlorophyll content. <i>Global Change Biology</i> , 2019, 25, 2499-2514.	9.6	95
86	A hotspot function in a simple bidirectional reflectance model for satellite applications. <i>Journal of Geophysical Research</i> , 1997, 102, 25907-25913.	3.3	94
87	Carbon sinks and sources in China's forests during 1901–2001. <i>Journal of Environmental Management</i> , 2007, 85, 524-537.	7.9	94
88	Inverse modeling of CO ₂ sources and sinks using satellite observations of CO ₂ from TES and surface flask measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6029-6047.	5.0	94
89	Retrieving leaf chlorophyll content using a matrix-based vegetation index combination approach. <i>Remote Sensing of Environment</i> , 2019, 224, 60-73.	11.1	94
90	Global parameterization and validation of a two-leaf light use efficiency model for predicting gross primary production across FLUXNET sites. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1045-1072.	3.0	93

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91	Evaluation of leaf-to-canopy upscaling methodologies against carbon flux data in North America. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	92
92	Carbon cycle uncertainty in the Alaskan Arctic. <i>Biogeosciences</i> , 2014, 11, 4271-4288.	3.4	92
93	Late-summer carbon fluxes from Canadian forests and peatlands along an east-west continental transect. <i>Canadian Journal of Forest Research</i> , 2006, 36, 783-800.	1.7	91
94	Global vegetation productivity response to climatic oscillations during the satellite era. <i>Global Change Biology</i> , 2016, 22, 3414-3426.	9.6	90
95	Net primary productivity following forest fire for Canadian ecoregions. <i>Canadian Journal of Forest Research</i> , 2000, 30, 939-947.	1.7	89
96	Angular normalization of GOME-2 Sun-induced chlorophyll fluorescence observation as a better proxy of vegetation productivity. <i>Geophysical Research Letters</i> , 2017, 44, 5691-5699.	4.0	89
97	Investigation of directional reflectance in boreal forests with an improved four-scale model and airborne POLDER data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 1396-1414.	6.3	88
98	Effects of stand age on net primary productivity of boreal black spruce forests in Ontario, Canada. <i>Canadian Journal of Forest Research</i> , 2002, 32, 833-842.	1.7	88
99	Recent advances in geometrical optical modelling and its applications. <i>International Journal of Remote Sensing</i> , 2000, 18, 227-262.	1.0	87
100	A method for improving hotspot directional signatures in BRDF models used for MODIS. <i>Remote Sensing of Environment</i> , 2016, 186, 135-151.	11.1	85
101	Improved modeling of land surface phenology using MODIS land surface reflectance and temperature at evergreen needleleaf forests of central North America. <i>Remote Sensing of Environment</i> , 2016, 176, 152-162.	11.1	85
102	Evaluating leaf chlorophyll content prediction from multispectral remote sensing data within a physically-based modelling framework. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 102, 85-95.	11.1	83
103	Prediction of summer grain crop yield with a process-based ecosystem model and remote sensing data for the northern area of the Jiangsu Province, China. <i>International Journal of Remote Sensing</i> , 2010, 31, 1573-1587.	3.0	82
104	Influence of stand age on the magnitude and seasonality of carbon fluxes in Canadian forests. <i>Agricultural and Forest Meteorology</i> , 2012, 165, 136-148.	4.8	82
105	An algorithm for the retrieval of the clumping index (CI) from the MODIS BRDF product using an adjusted version of the kernel-driven BRDF model. <i>Remote Sensing of Environment</i> , 2018, 209, 594-611.	11.1	82
106	Approaches for reducing uncertainties in regional forest carbon balance. <i>Global Biogeochemical Cycles</i> , 2000, 14, 827-838.	4.8	80
107	Future carbon balance of China's forests under climate change and increasing CO ₂ . <i>Journal of Environmental Management</i> , 2007, 85, 538-562.	7.9	78
108	Deriving land surface phenology indicators from CO ₂ eddy covariance measurements. <i>Ecological Indicators</i> , 2013, 29, 203-207.	6.4	78

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109	Remote sensing in BOREAS: Lessons learned. <i>Remote Sensing of Environment</i> , 2004, 89, 139-162.	11.1	76
110	Nitrogen controls on ecosystem carbon sequestration: a model implementation and application to Saskatchewan, Canada. <i>Ecological Modelling</i> , 2005, 186, 178-195.	2.5	76
111	Retrieving seasonal variation in chlorophyll content of overstory and understory sugar maple leaves from leaf-level hyperspectral data. <i>Canadian Journal of Remote Sensing</i> , 2007, 33, 406-415.	2.3	75
112	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	72
113	Improved estimation of leaf chlorophyll content of row crops from canopy reflectance spectra through minimizing canopy structural effects and optimizing off-noon observation time. <i>Remote Sensing of Environment</i> , 2020, 248, 111985.	11.1	70
114	Maintaining the role of Canada's forests and peatlands in climate regulation. <i>Forestry Chronicle</i> , 2010, 86, 434-443.	0.6	69
115	Spatial scaling of evapotranspiration as affected by heterogeneities in vegetation, topography, and soil texture. <i>Remote Sensing of Environment</i> , 2006, 102, 33-51.	11.1	67
116	Remote sensing-based ecosystem-atmosphere simulation scheme (EASS) Model formulation and test with multiple-year data. <i>Ecological Modelling</i> , 2007, 209, 277-300.	2.5	67
117	On the relationship between water table depth and water vapor and carbon dioxide fluxes in a minerotrophic fen. <i>Global Change Biology</i> , 2010, 16, 1762-1776.	9.6	67
118	A combined GLAS and MODIS estimation of the global distribution of mean forest canopy height. <i>Remote Sensing of Environment</i> , 2016, 174, 24-43.	11.1	67
119	A spatially explicit hydro-ecological modeling framework (BEPS-TerrainLab V2.0): Model description and test in a boreal ecosystem in Eastern North America. <i>Journal of Hydrology</i> , 2009, 367, 200-216.	5.5	64
120	Expanding global mapping of the foliage clumping index with multi-angular POLDER three measurements: Evaluation and topographic compensation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010, 65, 341-346.	11.1	64
121	Interannual and spatial impacts of phenological transitions, growing season length, and spring and autumn temperatures on carbon sequestration: A North America flux data synthesis. <i>Global and Planetary Change</i> , 2012, 92-93, 179-190.	3.6	64
122	Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems. <i>Agricultural and Forest Meteorology</i> , 2016, 216, 82-92.	4.8	64
123	Comparison of Big-Leaf, Two-Big-Leaf, and Two-Leaf Upscaling Schemes for Evapotranspiration Estimation Using Coupled Carbon-Water Modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 207-225.	3.0	64
124	Estimating crop biomass using leaf area index derived from Landsat 8 and Sentinel-2 data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 168, 236-250.	11.1	64
125	Intercomparison of techniques to model high temperature effects on CO ₂ and energy exchange in temperate and boreal coniferous forests. <i>Ecological Modelling</i> , 2005, 188, 217-252.	2.5	63
126	Retrieving forest background reflectance in a boreal region from Multi-angle Imaging SpectroRadiometer (MISR) data. <i>Remote Sensing of Environment</i> , 2007, 107, 312-321.	11.1	63

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127	Mapping forest stand age in China using remotely sensed forest height and observation data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1163-1179.	3.0	63
128	China's forest biomass carbon sink based on seven inventories from 1973 to 2008. <i>Climatic Change</i> , 2013, 118, 933-948.	3.7	62
129	Can interannual land surface signal be discerned in composite AVHRR data?. <i>Journal of Geophysical Research</i> , 1998, 103, 23163-23172.	3.3	61
130	Post-fire carbon dioxide fluxes in the western Canadian boreal forest: evidence from towers, aircraft and remote sensing. <i>Agricultural and Forest Meteorology</i> , 2003, 115, 91-107.	4.8	61
131	Using direct and indirect measurements of leaf area index to characterize the shrub canopy in an ombrotrophic peatland. <i>Agricultural and Forest Meteorology</i> , 2007, 144, 200-212.	4.8	60
132	Estimating seasonal variations of leaf area index using litterfall collection and optical methods in four mixed evergreen-deciduous forests. <i>Agricultural and Forest Meteorology</i> , 2015, 209-210, 36-48.	4.8	60
133	Modeling canopy conductance and transpiration from solar-induced chlorophyll fluorescence. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 189-201.	4.8	60
134	Global variation in the fraction of leaf nitrogen allocated to photosynthesis. <i>Nature Communications</i> , 2021, 12, 4866.	13.1	60
135	Long time-series NDVI reconstruction in cloud-prone regions via spatio-temporal tensor completion. <i>Remote Sensing of Environment</i> , 2021, 264, 112632.	11.1	60
136	Distribution of soil carbon stocks in Canada's forests and wetlands simulated based on drainage class, topography and remotely sensed vegetation parameters. <i>Hydrological Processes</i> , 2005, 19, 77-94.	2.6	59
137	Mapping forest background reflectivity over North America with Multi-angle Imaging SpectroRadiometer (MISR) data. <i>Remote Sensing of Environment</i> , 2009, 113, 2412-2423.	11.1	59
138	Interannual variability of net carbon exchange is related to the lag between the end-dates of net carbon uptake and photosynthesis: Evidence from long records at two contrasting forest stands. <i>Agricultural and Forest Meteorology</i> , 2012, 164, 29-38.	4.8	59
139	Diverse photosynthetic capacity of global ecosystems mapped by satellite chlorophyll fluorescence measurements. <i>Remote Sensing of Environment</i> , 2019, 232, 111344.	11.1	59
140	From Canopy Leaving to Total Canopy Far-Red Fluorescence Emission for Remote Sensing of Photosynthesis: First Results From TROPOMI. <i>Geophysical Research Letters</i> , 2019, 46, 12030-12040.	4.0	59
141	Comparison of boreal ecosystem model sensitivity to variability in climate and forest site parameters. <i>Journal of Geophysical Research</i> , 2001, 106, 33671-33687.	3.3	58
142	Predicting deciduous forest carbon uptake phenology by upscaling FLUXNET measurements using remote sensing data. <i>Agricultural and Forest Meteorology</i> , 2012, 165, 127-135.	4.8	58
143	A comparison of BRDF models for the normalization of satellite optical data to a standard sun-target-sensor geometry. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 1889-1898.	6.3	57
144	Systematic corrections of AVHRR image composites for temporal studies. <i>Remote Sensing of Environment</i> , 2004, 89, 217-233.	11.1	57

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145	Intercomparison of techniques to model water stress effects on CO ₂ and energy exchange in temperate and boreal deciduous forests. <i>Ecological Modelling</i> , 2006, 196, 289-312.	2.5	57
146	Effects of topography on simulated net primary productivity at landscape scale. <i>Journal of Environmental Management</i> , 2007, 85, 585-596.	7.9	57
147	Changes in the Shadow: The Shifting Role of Shaded Leaves in Global Carbon and Water Cycles Under Climate Change. <i>Geophysical Research Letters</i> , 2018, 45, 5052-5061.	4.0	57
148	Photochemical reflectance index (PRI) can be used to improve the relationship between gross primary productivity (GPP) and sun-induced chlorophyll fluorescence (SIF). <i>Remote Sensing of Environment</i> , 2020, 246, 111888.	11.1	57
149	Improved LAI Algorithm Implementation to MODIS Data by Incorporating Background, Topography, and Foliage Clumping Information. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1076-1088.	6.3	56
150	GOST: A Geometric-Optical Model for Sloping Terrains. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 5469-5482.	6.3	56
151	Global monthly CO ₂ flux inversion with a focus over North America. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 179-190.	1.6	55
152	Seasonal controls of canopy chlorophyll content on forest carbon uptake: Implications for GPP modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1576-1586.	3.0	55
153	A comprehensive estimate of recent carbon sinks in China using both top-down and bottom-up approaches. <i>Scientific Reports</i> , 2016, 6, 22130.	3.4	55
154	Assessment of Portable Chlorophyll Meters for Measuring Crop Leaf Chlorophyll Concentration. <i>Remote Sensing</i> , 2019, 11, 2706.	4.0	55
155	Circumpolar vegetation dynamics product for global change study. <i>Remote Sensing of Environment</i> , 2016, 182, 13-26.	11.1	54
156	Canada-wide foliage clumping index mapping from multiangular POLDER measurements. <i>Canadian Journal of Remote Sensing</i> , 2005, 31, 364-376.	2.3	53
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