J M Chen

List of Publications by Year
in descending order

411 papers	30,733 citations	3919 88 h-index	6630 156 g-index
440 all docs	440 docs citations	440 times ranked	16251 citing authors

#	Article	IF	Citations
1	Spatial distribution of carbon sources and sinks in Canada's forests. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 622.	0.8	47
2	Spatially simulating changes of soil water content and their effects on carbon sequestration in Canada's forests and wetlands. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 140.	0.8	14
3	Comparison of big-leaf and two-leaf light use efficiency models for GPP simulation after considering a radiation scalar. Agricultural and Forest Meteorology, 2022, 313, 108761.	1.9	19
4	China's Terrestrial Carbon Sink Over 2010–2015 Constrained by Satellite Observations of Atmospheric CO_2 and Land Surface Variables. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	8
5	Global Terrestrial Ecosystem Carbon Flux Inferred from TanSat XCO_2 Retrievals. Journal of Remote Sensing, 2022, 2022, .	3.2	7
6	Estimating photosynthetic capacity from optimized Rubisco–chlorophyll relationships among vegetation types and under global change. Environmental Research Letters, 2022, 17, 014028.	2.2	7
7	Non-linearity between gross primary productivity and far-red solar-induced chlorophyll fluorescence emitted from canopies of major biomes. Remote Sensing of Environment, 2022, 271, 112896.	4.6	23
8	Application of a Hypergeometric Model in Simulating Canopy Gap Fraction and BRF for Forest Plantations on Sloping Terrains. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 2901-2913.	2.3	7
9	The status of carbon neutrality of the world's top 5 CO2 emitters as seen by carbon satellites. Fundamental Research, 2022, 2, 357-366.	1.6	16
10	Rising CO_2 and warming reduce global canopy demand for nitrogen. New Phytologist, 2022, 235, 1692-1700.	3.5	23
11	Seasonal Variations in Leaf Maximum Photosynthetic Capacity and Its Dependence on Climate Factors Across Global FLUXNET Sites. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	4
12	Optical vegetation indices for monitoring terrestrial ecosystems globally. Nature Reviews Earth & Environment, 2022, 3, 477-493.	12.2	191
13	Quantifying Scaling Effect on Gross Primary Productivity Estimation in the Upscaling Process of Surface Heterogeneity. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	8
14	Next Step in Vegetation Remote Sensing: Synergetic Retrievals of Canopy Structural and Leaf Biochemical Parameters. , 2022, , 207-220.		3
15	A 10-year global monthly averaged terrestrial net ecosystem exchange dataset inferred from the ACOS GOSAT v9 XCO_2 retrievals (GCAS2021). Earth System Science Data, 2022, 14, 3013-3037.	3.7	19
16	Sun-induced chlorophyll fluorescence is more strongly related to photosynthesis with hemispherical than nadir measurements: Evidence from field observations and model simulations. Remote Sensing of Environment, 2022, 279, 113118.	4.6	4
17	A model for estimating transpiration from remotely sensed solar-induced chlorophyll fluorescence. Remote Sensing of Environment, 2021, 252, 112134.	4.6	39
18	Deforestation and land use and land cover changes in protected areas of the Brazilian Cerrado: impacts on the fire-driven emissions of fine particulate aerosols pollutants. Remote Sensing Letters, 2021, 12, 79-92.	0.6	9

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19	Crop Biomass Mapping Based on Ecosystem Modeling at Regional Scale Using High Resolution Sentinel-2 Data. Remote Sensing, 2021, 13, 806.	1.8	11
20	Regional CO&lt;sub&gt;2&lt;/sub&gt; fluxes from 2010 to 2015 inferred from GOSAT XCO&lt;sub&gt;2&lt;/sub&gt; retrievals using a new version of the Global Carbon Assimilation System. Atmospheric Chemistry and Physics, 2021, 21, 1963-1985.	1.9	23
21	Relationship Between Leaf Maximum Carboxylation Rate and Chlorophyll Content Preserved Across 13 Species. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006076.	1.3	18
22	Modulation of Land Photosynthesis by the Indian Ocean Dipole: Satellite‐Based Observations and CMIP6 Future Projections. Earth's Future, 2021, 9, e2020EF001942.	2.4	18
23	Soil Moisture Active Passive Improves Global Soil Moisture Simulation in a Land Surface Scheme and Reveals Strong Irrigation Signals Over Farmlands. Geophysical Research Letters, 2021, 48, e2021GL092658.	1.5	6
24	Error Analysis of LAI Measurements with LAI-2000 Due to Discrete View Angular Range Angles for Continuous Canopies. Remote Sensing, 2021, 13, 1405.	1.8	5
25	Ground‐Based Multiangle Solar‐Induced Chlorophyll Fluorescence Observation and Angular Normalization for Assessing Crop Productivity. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006082.	1.3	4
26	Spatial Scaling of Gross Primary Productivity Over Sixteen Mountainous Watersheds Using Vegetation Heterogeneity and Surface Topography. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005848.	1.3	15
27	Legacy Effects Following Fire on Surface Energy, Water and Carbon Fluxes in Mature Amazonian Forests. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005833.	1.3	3
28	Evaluation of GOFP over four forest plots using RAMI and UAV measurements. International Journal of Digital Earth, 2021, 14, 1433-1451.	1.6	5
29	Historical and future carbon stocks in forests of northern Ontario, Canada. Carbon Balance and Management, 2021, 16, 21.	1.4	1
30	Daily leaf area index from photosynthetically active radiation for long term records of canopy structure and leaf phenology. Agricultural and Forest Meteorology, 2021, 304-305, 108407.	1.9	4
31	Constraining global terrestrial gross primary productivity in a global carbon assimilation system with OCO-2 chlorophyll fluorescence data. Agricultural and Forest Meteorology, 2021, 304-305, 108424.	1.9	10
32	Global variation in the fraction of leaf nitrogen allocated to photosynthesis. Nature Communications, 2021, 12, 4866.	5.8	60
33	Carbon neutrality: Toward a sustainable future. Innovation(China), 2021, 2, 100127.	5.2	107
34	Sensitivity of Estimated Total Canopy SIF Emission to Remotely Sensed LAI and BRDF Products. Journal of Remote Sensing, 2021, 2021, .	3.2	20
35	A modified two-leaf light use efficiency model for improving the simulation of GPP using a radiation scalar. Agricultural and Forest Meteorology, 2021, 307, 108546.	1.9	33
36	Response to Comments on "Recent global decline of CO_2 fertilization effects on vegetation photosynthesis". Science, 2021, 373, eabg7484.	6.0	15

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37	Fine-scale leaf chlorophyll distribution across a deciduous forest through two-step model inversion from Sentinel-2 data. Remote Sensing of Environment, 2021, 264, 112618.	4.6	18
38	Long time-series NDVI reconstruction in cloud-prone regions via spatio-temporal tensor completion. Remote Sensing of Environment, 2021, 264, 112632.	4.6	60
39	Evaluation of Clumping Effects on the Estimation of Global Terrestrial Evapotranspiration. Remote Sensing, 2021, 13, 4075.	1.8	7
40	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	5.2	306
41	Seamless Mosaicking of UAV-Based Push-Broom Hyperspectral Images for Environment Monitoring. Remote Sensing, 2021, 13, 4720.	1.8	15
42	Multi-angular instrument for tower-based observations of canopy sun-induced chlorophyll fluorescence. Instrumentation Science and Technology, 2020, 48, 146-161.	0.9	2
43	Estimation of leaf photosynthetic capacity from the photochemical reflectance index and leaf pigments. Ecological Indicators, 2020, 110, 105867.	2.6	28
44	Evolution of evapotranspiration models using thermal and shortwave remote sensing data. Remote Sensing of Environment, 2020, 237, 111594.	4.6	156
45	The global distribution of leaf chlorophyll content. Remote Sensing of Environment, 2020, 236, 111479.	4.6	122
46	Mapping within-field leaf chlorophyll content in agricultural crops for nitrogen management using Landsat-8 imagery. Precision Agriculture, 2020, 21, 856-880.	3.1	31
47	Importance of Shaded Leaf Contribution to the Total GPP of Canadian Terrestrial Ecosystems: Evaluation of MODIS GPP. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005917.	1.3	6
48	Reconstructing the Seasonality and Trend in Global Leaf Area Index During 2001â€"2017 for Prognostic Modeling. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005698.	1.3	6
49	Improved estimation of leaf chlorophyll content of row crops from canopy reflectance spectra through minimizing canopy structural effects and optimizing off-noon observation time. Remote Sensing of Environment, 2020, 248, 111985.	4.6	70
50	Smoke pollution's impacts in Amazonia. Science, 2020, 369, 634-635.	6.0	28
51	Assessing bi-directional effects on the diurnal cycle of measured solar-induced chlorophyll fluorescence in crop canopies. Agricultural and Forest Meteorology, 2020, 295, 108147.	1.9	43
52	The Response of Spectral Vegetation Indices and Solarâ€Induced Fluorescence to Changes in Illumination Intensity and Geometry in the Days Surrounding the 2017 North American Solar Eclipse. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005774.	1.3	3
53	Estimating crop biomass using leaf area index derived from Landsat 8 and Sentinel-2 data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 168, 236-250.	4.9	64
54	Evapotranspiration and Precipitation over Pasture and Soybean Areas in the Xingu River Basin, an Expanding Amazonian Agricultural Frontier. Agronomy, 2020, 10, 1112.	1.3	7

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55	Rapid Recent Deforestation Incursion in a Vulnerable Indigenous Land in the Brazilian Amazon and Fire-Driven Emissions of Fine Particulate Aerosol Pollutants. Forests, 2020, 11, 829.	0.9	40
56	Correcting Clear‐Sky Bias in Gross Primary Production Modeling From Satellite Solar‐Induced Chlorophyll Fluorescence Data. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005822.	1.3	15
57	Recent global decline of CO_2 fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	6.0	317
58	Critical land change information enhances the understanding of carbon balance in the United States. Global Change Biology, 2020, 26, 3920-3929.	4.2	24
59	Maximum Carboxylation Rate Estimation With Chlorophyll Content as a Proxy of Rubisco Content. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005748.	1.3	19
60	Photochemical reflectance index (PRI) can be used to improve the relationship between gross primary productivity (GPP) and sun-induced chlorophyll fluorescence (SIF). Remote Sensing of Environment, 2020, 246, 111888.	4.6	57
61	Improved estimate of global gross primary production for reproducing its long-term variation, 1982–2017. Earth System Science Data, 2020, 12, 2725-2746.	3.7	156
62	Effectiveness Evaluation of China's Air Pollution Control Action Plan Using Satellite Aerosol Product. , 2020, , .		0
63	Redefining the Directional-Hemispherical Reflectance and Transmittance of Needle-Shaped Leaves to Address Issues in Their Existing Measurement Methods. Photogrammetric Engineering and Remote Sensing, 2020, 86, 627-641.	0.3	2
64	Retrieving Leaf Chlorophyll Content by Incorporating Variable Leaf Surface Reflectance in the PROSPECT Model. Remote Sensing, 2019, 11, 1572.	1.8	10
65	Exploring SMAP and OCO-2 observations to monitor soil moisture control on photosynthetic activity of global drylands and croplands. Remote Sensing of Environment, 2019, 232, 111314.	4.6	21
66	Diverse photosynthetic capacity of global ecosystems mapped by satellite chlorophyll fluorescence measurements. Remote Sensing of Environment, 2019, 232, 111344.	4.6	59
67	Field-Scale Crop Seeding Date Estimation from MODIS Data and Growing Degree Days in Manitoba, Canada. Remote Sensing, 2019, 11, 1760.	1.8	11
68	Including soil water stress in process-based ecosystem models by scaling down maximum carboxylation rate using accumulated soil water deficit. Agricultural and Forest Meteorology, 2019, 276-277, 107649.	1.9	9
69	From Canopy‐Leaving to Total Canopy Far‐Red Fluorescence Emission for Remote Sensing of Photosynthesis: First Results From TROPOMI. Geophysical Research Letters, 2019, 46, 12030-12040.	1.5	59
70	Underestimation of Global Photosynthesis in Earth System Models Due to Representation of Vegetation Structure. Global Biogeochemical Cycles, 2019, 33, 1358-1369.	1.9	34
71	Global 500‐m clumping index product derived from MODIS BRDF data (2001–2017). Remote Sensing of Environment, 2019, 232, 111296.	4.6	49
72	Seasonality of leaf area index and photosynthetic capacity for better estimation of carbon and water fluxes in evergreen conifer forests. Agricultural and Forest Meteorology, 2019, 279, 107708.	1.9	20

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73	Vegetation structural change since 1981 significantly enhanced the terrestrial carbon sink. Nature Communications, 2019, 10, 4259.	5.8	170
74	Effects of the Temporal Aggregation and Meteorological Conditions on the Parameter Robustness of OCO-2 SIF-Based and LUE-Based GPP Models for Croplands. Remote Sensing, 2019, 11, 1328.	1.8	6
75	Terrestrial ecosystem carbon flux estimated using GOSAT and OCO-2 XCO&lt;sub&gt;2&lt;/sub&gt; retrievals. Atmospheric Chemistry and Physics, 2019, 19, 12067-12082.	1.9	31
76	Does Earlier and Increased Spring Plant Growth Lead to Reduced Summer Soil Moisture and Plant Growth on Landscapes Typical of Tundra-Taiga Interface?. Remote Sensing, 2019, 11, 1989.	1.8	17
77	Simulating emission and scattering of solar-induced chlorophyll fluorescence at far-red band in global vegetation with different canopy structures. Remote Sensing of Environment, 2019, 233, 111373.	4.6	36
78	Modeling canopy conductance and transpiration from solar-induced chlorophyll fluorescence. Agricultural and Forest Meteorology, 2019, 268, 189-201.	1.9	60
79	A UAV-Based Sensor System for Measuring Land Surface Albedo: Tested over a Boreal Peatland Ecosystem. Drones, 2019, 3, 27.	2.7	19
80	Improved estimates of global terrestrial photosynthesis using information on leaf chlorophyll content. Global Change Biology, 2019, 25, 2499-2514.	4.2	95
81	Retrieving leaf chlorophyll content using a matrix-based vegetation index combination approach. Remote Sensing of Environment, 2019, 224, 60-73.	4.6	94
82	Assessment of Portable Chlorophyll Meters for Measuring Crop Leaf Chlorophyll Concentration. Remote Sensing, 2019, 11, 2706.	1.8	55
83	Improving the PROSPECT Model to Consider Anisotropic Scattering of Leaf Internal Materials and Its Use for Retrieving Leaf Biomass in Fresh Leaves. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3119-3136.	2.7	20
84	Comparative Performances of Airborne LiDAR Height and Intensity Data for Leaf Area Index Estimation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 300-310.	2.3	38
85	Comparison of Bigâ€Leaf, Twoâ€Bigâ€Leaf, and Twoâ€Leaf Upscaling Schemes for Evapotranspiration Estimation Using Coupled Carbonâ€Water Modeling. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 207-225.	1.3	64
86	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. Remote Sensing of Environment, 2018, 209, 594-611.	4.6	82
87	Incorporating leaf chlorophyll content into a two-leaf terrestrial biosphere model for estimating carbon and water fluxes at a forest site. Agricultural and Forest Meteorology, 2018, 248, 156-168.	1.9	40
88	A robust leaf area index algorithm accounting for the expected errors in gap fraction observations. Agricultural and Forest Meteorology, 2018, 248, 197-204.	1.9	23
89	Peak season plant activity shift towards spring is reflected by increasing carbon uptake by extratropical ecosystems. Global Change Biology, 2018, 24, 2117-2128.	4.2	97
90	Sustained Biomass Carbon Sequestration by Chinaâ€™s Forests from 2010 to 2050. Forests, 2018, 9, 689.	0.9	12

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91	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. Nature Climate Change, 2018, 8, 1092-1096.	8.1	145
92	Preliminary Validation of Mixed-Pixel Clumping Index in the Arid and Semi-Arid Region, Western China. , 2018, , .		0
93	The impact of the 2015/2016 El Niño on global photosynthesis using satellite remote sensing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170409.	1.8	28
94	A recent project shows that the microbial carbon pump is a primary mechanism driving ocean carbon uptake. National Science Review, 2018, 5, 458-458.	4.6	4
95	Changes in the Shadow: The Shifting Role of Shaded Leaves in Global Carbon and Water Cycles Under Climate Change. Geophysical Research Letters, 2018, 45, 5052-5061.	1.5	57
96	Relationship between Net Primary Productivity and Forest Stand Age under Different Site Conditions and Its Implications for Regional Carbon Cycle Study. Forests, 2018, 9, 5.	0.9	15
97	Weather Condition Dominates Regional PM2.5 Pollutions in the Eastern Coastal Provinces of China during Winter. Aerosol and Air Quality Research, 2018, 18, 969-980.	0.9	18
98	Seasonal fluctuations of photosynthetic parameters for light use efficiency models and the impacts on gross primary production estimation. Agricultural and Forest Meteorology, 2017, 236, 22-35.	1.9	25
99	Inverting the maximum carboxylation rate (V cmax) from the sunlit leaf photosynthesis rate derived from measured light response curves at tower flux sites. Agricultural and Forest Meteorology, 2017, 236, 48-66.	1.9	31
100	Changes in vegetation phenology are not reflected in atmospheric CO_2 and $^{13}C/^{12}C$ seasonality. Global Change Biology, 2017, 23, 4029-4044.	4.2	15
101	Simulation and SMAP Observation of Sun-Glint Over the Land Surface at the L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2589-2604.	2.7	19
102	Modeling Gross Primary Production for Sunlit and Shaded Canopies Across an Evergreen and a Deciduous Site in Canada. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1859-1873.	2.7	5
103	Long Temporal Analysis of 3-km MODIS Aerosol Product Over East China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2478-2490.	2.3	8
104	Modeling Evapotranspiration over China's Landmass from 1979 to 2012 Using Multiple Land Surface Models: Evaluations and Analyses. Journal of Hydrometeorology, 2017, 18, 1185-1203.	0.7	31
105	Interannual variation in methane emissions from tropical wetlands triggered by repeated El Niño Southern Oscillation. Global Change Biology, 2017, 23, 4706-4716.	4.2	28
106	Photochemical reflectance ratio for tracking light use efficiency for sunlit leaves in two forest types. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 123, 47-61.	4.9	15
107	Evaluation of seasonal variations of remotely sensed leaf area index over five evergreen coniferous forests. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 130, 187-201.	4.9	33
108	Angular normalization of GOME‑2 Sun‑induced chlorophyll fluorescence observation as a better proxy of vegetation productivity. Geophysical Research Letters, 2017, 44, 5691-5699.	1.5	89

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109	Global change induced biomass growth offsets carbon released via increased forest fire and respiration of the central Canadian boreal forest. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1275-1293.	1.3	18
110	Improving the ability of the photochemical reflectance index to track canopy light use efficiency through differentiating sunlit and shaded leaves. Remote Sensing of Environment, 2017, 194, 1-15.	4.6	42
111	Leaf chlorophyll content as a proxy for leaf photosynthetic capacity. Global Change Biology, 2017, 23, 3513-3524.	4.2	404
112	Optimization of Terrestrial Ecosystem Model Parameters Using Atmospheric CO_2 Concentration Data With the Global Carbon Assimilation System (GCAS). Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3218-3237.	1.3	6
113	Assessment of SMAP soil moisture for global simulation of gross primary production. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1549-1563.	1.3	44
114	Forest sector carbon analyses support land management planning and projects: assessing the influence of anthropogenic and natural factors. Climatic Change, 2017, 144, 207-220.	1.7	14
115	Seeking potential contributions to future carbon budget in conterminous US forests considering disturbances. Theoretical and Applied Climatology, 2017, 130, 971-978.	1.3	0
116	Positive or Negative? Urbanizationâ€Induced Variations in Diurnal Skinâ€Surface Temperature Range Detected Using Satellite Data. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,229.	1.2	11
117	GOFP: A Geometric-Optical Model for Forest Plantations. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5230-5241.	2.7	16
118	Comparison of hourly and daily Penman-Monteith grass- and alfalfa-reference evapotranspiration equations and crop coefficients for maize under arid climatic conditions. Agricultural Water Management, 2017, 192, 1-11.	2.4	19
119	Nitrogen Availability Dampens the Positive Impacts of CO_2 Fertilization on Terrestrial Ecosystem Carbon and Water Cycles. Geophysical Research Letters, 2017, 44, 11,590.	1.5	45
120	Limited Effects of Water Absorption on Reducing the Accuracy of Leaf Nitrogen Estimation. Remote Sensing, 2017, 9, 291.	1.8	12
121	Canopy-Level Photochemical Reflectance Index from Hyperspectral Remote Sensing and Leaf-Level Non-Photochemical Quenching as Early Indicators of Water Stress in Maize. Remote Sensing, 2017, 9, 794.	1.8	27
122	A joint global carbon inversion system using both CO&lt;sub&gt;2&lt;/sub&gt; and &lt;sup&gt;13&lt;/sup&gt;CO&lt;sub&gt;2&lt;/sub&gt; atmospheric concentration data. Geoscientific Model Development, 2017, 10, 1131-1156.	1.3	11
123	Separating overstory and understory leaf area indices for global needleleaf and deciduous broadleaf forests by fusion of MODIS and MISR data. Biogeosciences, 2017, 14, 1093-1110.	1.3	36
124	Leaf chlorophyll content estimation from sentinel-2 MSI data. , 2017, , .		2
125	Influence of site index on the relationship between forest net primary productivity and stand age. PLoS ONE, 2017, 12, e0177084.	1.1	19
126	Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era. Earth System Dynamics, 2016, 7, 717-734.	2.7	9

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127	Towards a paradigm for open and free sharing of scientific data on global change science in china. Ecosystem Health and Sustainability, 2016, 2, .	1.5	13
128	A comprehensive estimate of recent carbon sinks in China using both top-down and bottom-up approaches. Scientific Reports, 2016, 6, 22130.	1.6	55
129	Application of the photochemical reflectance index to track light use efficiency with a two-leaf model. , 2016, , .		0
130	Circumpolar vegetation dynamics product for global change study. Remote Sensing of Environment, 2016, 182, 13-26.	4.6	54
131	Effects of LiDAR point density, sampling size and height threshold on estimation accuracy of crop biophysical parameters. Optics Express, 2016, 24, 11578.	1.7	44
132	A conjunct near-surface spectroscopy system for fix-angle and multi-angle continuous measurements of canopy reflectance and sun-induced chlorophyll fluorescence. , 2016, , .		0
133	Retrieval of seasonal dynamics of forest understory reflectance from semiarid to boreal forests using MODIS BRDF data. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 855-863.	1.3	16
134	A method for improving hotspot directional signatures in BRDF models used for MODIS. Remote Sensing of Environment, 2016, 186, 135-151.	4.6	85
135	Exploring the feasibility of global mapping of the leaf carboxylation rate. , 2016, , .		0
136	Influence of the exclusion distance among trees on gap fraction and foliage clumping index of forest plantations. Trees - Structure and Function, 2016, 30, 1683-1693.	0.9	11
137	Improving winter leaf area index estimation in coniferous forests and its significance in estimating the land surface albedo. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 32-48.	4.9	14
138	Carbon and energy fluxes in cropland ecosystems: a model-data comparison. Biogeochemistry, 2016, 129, 53-76.	1.7	24
139	Global vegetation productivity response to climatic oscillations during the satellite era. Global Change Biology, 2016, 22, 3414-3426.	4.2	90
140	A combined GLAS and MODIS estimation of the global distribution of mean forest canopy height. Remote Sensing of Environment, 2016, 174, 24-43.	4.6	67
141	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. Environmental Research Letters, 2016, 11, 034014.	2.2	199
142	Global parameterization and validation of a two‐leaf light use efficiency model for predicting gross primary production across FLUXNET sites. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1045-1072.	1.3	93
143	Evaluating the impacts of climate variability and cutting and insect defoliation on the historical carbon dynamics of a boreal black spruce forest landscape in eastern Canada. Ecological Modelling, 2016, 321, 98-109.	1.2	2
144	Improved modeling of land surface phenology using MODIS land surface reflectance and temperature at evergreen needleleaf forests of central North America. Remote Sensing of Environment, 2016, 176, 152-162.	4.6	85

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145	Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems. Agricultural and Forest Meteorology, 2016, 216, 82-92.	1.9	64
146	Inter- and intra-annual variations of clumping index derived from the MODIS BRDF product. International Journal of Applied Earth Observation and Geoinformation, 2016, 44, 53-60.	1.4	42
147	Accelerating Forest Growth Enhancement due to Climate and Atmospheric Changes in British Colombia, Canada over 1956-2001. Scientific Reports, 2015, 4, 4461.	1.6	27
148	Optimizing photosynthetic and respiratory parameters based on the seasonal variation pattern in regional net ecosystem productivity obtained from atmospheric inversion. Science Bulletin, 2015, 60, 1954-1961.	4.3	4
149	Disturbance-induced reduction of biomass carbon sinks of China's forests in recent years. Environmental Research Letters, 2015, 10, 114021.	2.2	43
150	Impacts of inadequate historical disturbance data in the early twentieth century on modeling recent carbon dynamics (1951–2010) in conterminous U.S. forests. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 549-569.	1.3	13
151	A global carbon assimilation system based on a dual optimization method. Biogeosciences, 2015, 12, 1131-1150.	1.3	4
152	Ability of the Photochemical Reflectance Index to Track Light Use Efficiency for a Sub-Tropical Planted Coniferous Forest. Remote Sensing, 2015, 7, 16938-16962.	1.8	24
153	Estimating seasonal variations of leaf area index using litterfall collection and optical methods in four mixed evergreen–deciduous forests. Agricultural and Forest Meteorology, 2015, 209-210, 36-48.	1.9	60
154	Winter teleconnections can predict the ensuing summer European crop productivity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2265-6.	3.3	14
155	A global carbon assimilation system using a modified ensemble Kalman filter. Geoscientific Model Development, 2015, 8, 805-816.	1.3	17
156	Evaluating leaf chlorophyll content prediction from multispectral remote sensing data within a physically-based modelling framework. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 102, 85-95.	4.9	83
157	Underestimated role of East Atlantic-West Russia pattern on Amazon vegetation productivity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1054-5.	3.3	7
158	Comparing simulated atmospheric carbon dioxide concentration with GOSAT retrievals. Science Bulletin, 2015, 60, 380-386.	4.3	8
159	On improving the accuracy of digital hemispherical photography measurements of seasonal leaf area index variation in deciduous broadleaf forests. Canadian Journal of Forest Research, 2015, 45, 721-731.	0.8	9
160	Trends of carbon fluxes and climate over a mixed temperate–boreal transition forest in southern Ontario, Canada. Agricultural and Forest Meteorology, 2015, 211-212, 72-84.	1.9	47
161	Evaluating optical measurements of leaf area index against litter collection in a mixed broadleaved-Korean pine forest in China. Trees - Structure and Function, 2015, 29, 59-73.	0.9	21
162	Seasonal controls of canopy chlorophyll content on forest carbon uptake: Implications for GPP modeling. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1576-1586.	1.3	55

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163	Empirical models for tracing seasonal changes in leaf area index in deciduous broadleaf forests by digital hemispherical photography. Forest Ecology and Management, 2015, 351, 67-77.	1.4	19
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