

John A Gamon

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116
papers

15,333
citations

56
h-index

123
g-index

124
ext. papers

17,464
ext. citations

8
avg, IF

6.7
L-index

#	Paper	IF	Citations
116	Relationships between leaf pigment content and spectral reflectance across a wide range of species, leaf structures and developmental stages. <i>Remote Sensing of Environment</i> , 2002 , 81, 337-354	13.2	1908
115	A narrow-waveband spectral index that tracks diurnal changes in photosynthetic efficiency. <i>Remote Sensing of Environment</i> , 1992 , 41, 35-44	13.2	1351
114	The photochemical reflectance index: an optical indicator of photosynthetic radiation use efficiency across species, functional types, and nutrient levels. <i>Oecologia</i> , 1997 , 112, 492-501	2.9	801
113	Relationships Between NDVI, Canopy Structure, and Photosynthesis in Three Californian Vegetation Types 1995 , 5, 28-41		642
112	Reflectance indices associated with physiological changes in nitrogen- and water-limited sunflower leaves. <i>Remote Sensing of Environment</i> , 1994 , 48, 135-146	13.2	625
111	Assessing leaf pigment content and activity with a reflectometer. <i>New Phytologist</i> , 1999 , 143, 105-117	9.8	599
110	Assessment of photosynthetic radiation-use efficiency with spectral reflectance. <i>New Phytologist</i> , 1995 , 131, 291-296	9.8	487
109	Retrieval of foliar information about plant pigment systems from high resolution spectroscopy. <i>Remote Sensing of Environment</i> , 2009 , 113, S67-S77	13.2	453
108	Remote sensing of vegetation and land-cover change in Arctic Tundra Ecosystems. <i>Remote Sensing of Environment</i> , 2004 , 89, 281-308	13.2	444
107	The photochemical reflectance index (PRI) and the remote sensing of leaf, canopy and ecosystem radiation use efficiencies: A review and meta-analysis. <i>Remote Sensing of Environment</i> , 2011 , 115, 281-297	13.2	409
106	Remote sensing of plant functional types. <i>New Phytologist</i> , 2010 , 186, 795-816	9.8	387
105	Using Imaging Spectroscopy to Study Ecosystem Processes and Properties. <i>BioScience</i> , 2004 , 54, 523	5.7	369
104	Estimation of vegetation water content and photosynthetic tissue area from spectral reflectance: a comparison of indices based on liquid water and chlorophyll absorption features. <i>Remote Sensing of Environment</i> , 2003 , 84, 526-537	13.2	353
103	Remote sensing of the xanthophyll cycle and chlorophyll fluorescence in sunflower leaves and canopies. <i>Oecologia</i> , 1990 , 85, 1-7	2.9	290
102	Site-level evaluation of satellite-based global terrestrial gross primary production and net primary production monitoring. <i>Global Change Biology</i> , 2005 , 11, 666-684	11.4	264
101	Seasonal patterns of reflectance indices, carotenoid pigments and photosynthesis of evergreen chaparral species. <i>Oecologia</i> , 2002 , 131, 366-374	2.9	237
100	Deriving Water Content of Chaparral Vegetation from AVIRIS Data. <i>Remote Sensing of Environment</i> , 2000 , 74, 570-581	13.2	204

99	Succession and management of tropical dry forests in the Americas: Review and new perspectives. <i>Forest Ecology and Management</i> , 2009 , 258, 1014-1024	3.9	196
98	Assessing community type, plant biomass, pigment composition, and photosynthetic efficiency of aquatic vegetation from spectral reflectance. <i>Remote Sensing of Environment</i> , 1993 , 46, 110-118	13.2	184
97	Research Priorities for Neotropical Dry Forests1. <i>Biotropica</i> , 2005 , 37, 477-485	2.3	182
96	Response of NDVI, biomass, and ecosystem gas exchange to long-term warming and fertilization in wet sedge tundra. <i>Oecologia</i> , 2003 , 135, 414-21	2.9	167
95	Parallel adjustments in vegetation greenness and ecosystem CO2 exchange in response to drought in a Southern California chaparral ecosystem. <i>Remote Sensing of Environment</i> , 2006 , 103, 289-303	13.2	166
94	A remotely sensed pigment index reveals photosynthetic phenology in evergreen conifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13087-13092	11.5	150
93	Three causes of variation in the photochemical reflectance index (PRI) in evergreen conifers. <i>New Phytologist</i> , 2015 , 206, 187-195	9.8	131
92	Leaf movement, stress avoidance and photosynthesis in <i>Vitis californica</i> . <i>Oecologia</i> , 1989 , 79, 475-481	2.9	115
91	Facultative and constitutive pigment effects on the Photochemical Reflectance Index (PRI) in sun and shade conifer needles. <i>Israel Journal of Plant Sciences</i> , 2012 , 60, 85-95	0.6	113
90	Plant spectral diversity integrates functional and phylogenetic components of biodiversity and predicts ecosystem function. <i>Nature Ecology and Evolution</i> , 2018 , 2, 976-982	12.3	113
89	Assessing the carbon balance of circumpolar Arctic tundra using remote sensing and process modeling 2007 , 17, 213-34		111
88	Spectral Network (SpecNet) What is it and why do we need it?. <i>Remote Sensing of Environment</i> , 2006 , 103, 227-235	13.2	105
87	Spatial and temporal variation in primary productivity (NDVI) of coastal Alaskan tundra: Decreased vegetation growth following earlier snowmelt. <i>Remote Sensing of Environment</i> , 2013 , 129, 144-153	13.2	104
86	Responses of photosynthesis and carbohydrate-partitioning to limitations in nitrogen and water availability in field-grown sunflower*. <i>Plant, Cell and Environment</i> , 1991 , 14, 963-970	8.4	103
85	Remote sensing of terrestrial plant biodiversity. <i>Remote Sensing of Environment</i> , 2019 , 231, 111218	13.2	101
84	The need for a common basis for defining light-use efficiency: Implications for productivity estimation. <i>Remote Sensing of Environment</i> , 2015 , 156, 196-201	13.2	99
83	Modeling spatially distributed ecosystem flux of boreal forest using hyperspectral indices from AVIRIS imagery. <i>Journal of Geophysical Research</i> , 2001 , 106, 33579-33591		99
82	Assessing photosynthetic downregulation in sunflower stands with an optically-based model. <i>Photosynthesis Research</i> , 2001 , 67, 113-25	3.7	98

81	The photochemical reflectance index provides an optical indicator of spring photosynthetic activation in evergreen conifers. <i>New Phytologist</i> , 2015 , 206, 196-208	9.8	97
80	Differences in leaf traits, leaf internal structure, and spectral reflectance between two communities of lianas and trees: Implications for remote sensing in tropical environments. <i>Remote Sensing of Environment</i> , 2009 , 113, 2076-2088	13.2	97
79	Monitoring drought effects on vegetation water content and fluxes in chaparral with the 970nm water band index. <i>Remote Sensing of Environment</i> , 2006 , 103, 304-311	13.2	88
78	Photoinhibition in <i>Vitis californica</i> : interactive effects of sunlight, temperature and water status. <i>Plant, Cell and Environment</i> , 1990 , 13, 267-275	8.4	87
77	A mobile tram system for systematic sampling of ecosystem optical properties. <i>Remote Sensing of Environment</i> , 2006 , 103, 246-254	13.2	84
76	Potential of MODIS ocean bands for estimating CO2 flux from terrestrial vegetation: A novel approach. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	79
75	Ecosystem Gas Exchange in a California Grassland: Seasonal Patterns and Implications for Scaling. <i>Ecology</i> , 1995 , 76, 1940-1952	4.6	77
74	Optimum pixel size for hyperspectral studies of ecosystem function in southern California chaparral and grassland. <i>Remote Sensing of Environment</i> , 2003 , 84, 192-207	13.2	75
73	Monitoring seasonal and diurnal changes in photosynthetic pigments with automated PRI and NDVI sensors. <i>Biogeosciences</i> , 2015 , 12, 4149-4159	4.6	71
72	Functional regeneration and spectral reflectance of trees during succession in a highly diverse tropical dry forest ecosystem. <i>American Journal of Botany</i> , 2012 , 99, 816-26	2.7	71
71	Remote sensing of tundra gross ecosystem productivity and light use efficiency under varying temperature and moisture conditions. <i>Remote Sensing of Environment</i> , 2010 , 114, 481-489	13.2	68
70	Multiple drivers of seasonal change in PRI: Implications for photosynthesis 1. Leaf level. <i>Remote Sensing of Environment</i> , 2017 , 191, 110-116	13.2	67
69	Functional patterns in an annual grassland during an AVIRIS overflight. <i>Remote Sensing of Environment</i> , 1993 , 44, 239-253	13.2	67
68	The spatial sensitivity of the spectral diversity-biodiversity relationship: an experimental test in a prairie grassland. <i>Ecological Applications</i> , 2018 , 28, 541-556	4.9	65
67	Effects of lifelong [CO2] enrichment on carboxylation and light utilization of <i>Quercus pubescens</i> Willd. examined with gas exchange, biochemistry and optical techniques. <i>Plant, Cell and Environment</i> , 2000 , 23, 1353-1362	8.4	64
66	Assessing Vegetation Function with Imaging Spectroscopy. <i>Surveys in Geophysics</i> , 2019 , 40, 489-513	7.6	63
65	Reviews and Syntheses: optical sampling of the flux tower footprint. <i>Biogeosciences</i> , 2015 , 12, 4509-4523	4.6	63
64	Relationships between endophyte diversity and leaf optical properties. <i>Trees - Structure and Function</i> , 2012 , 26, 291-299	2.6	60

63	Sunfleck dynamics in relation to canopy structure in a soybean (<i>Glycine max</i> (L.) Merr.) canopy. <i>Agricultural and Forest Meteorology</i> , 1990 , 52, 359-372	5.8	60
62	Multiple drivers of seasonal change in PRI: Implications for photosynthesis 2. Stand level. <i>Remote Sensing of Environment</i> , 2017 , 190, 198-206	13.2	59
61	Remote sensing in BOREAS: Lessons learned. <i>Remote Sensing of Environment</i> , 2004 , 89, 139-162	13.2	54
60	Estimating Temperature Fields from MODIS Land Surface Temperature and Air Temperature Observations in a Sub-Arctic Alpine Environment. <i>Remote Sensing</i> , 2014 , 6, 946-963	5	52
59	Restoration of Native Perennials in a California Annual Grassland after Prescribed Spring Burning and Solarization. <i>Restoration Ecology</i> , 2005 , 13, 659-666	3.1	52
58	Photoinhibition in <i>Vitis californica</i> : The Role of Temperature during High-Light Treatment. <i>Plant Physiology</i> , 1990 , 92, 487-94	6.6	50
57	SpecNet revisited: bridging flux and remote sensing communities. <i>Canadian Journal of Remote Sensing</i> , 2010 , 36, S376-S390	1.8	49
56	A multi-scale analysis of dynamic optical signals in a Southern California chaparral ecosystem: A comparison of field, AVIRIS and MODIS data. <i>Remote Sensing of Environment</i> , 2006 , 103, 369-378	13.2	48
55	Detecting prairie biodiversity with airborne remote sensing. <i>Remote Sensing of Environment</i> , 2019 , 221, 38-49	13.2	47
54	Remote sensing of biodiversity: Soil correction and data dimension reduction methods improve assessment of biodiversity (species richness) in prairie ecosystems. <i>Remote Sensing of Environment</i> , 2018 , 206, 240-253	13.2	46
53	Evaluating Cloud Contamination in Clear-Sky MODIS Terra Daytime Land Surface Temperatures Using Ground-Based Meteorology Station Observations. <i>Journal of Climate</i> , 2013 , 26, 1551-1560	4.4	45
52	Tundra carbon balance under varying temperature and moisture regimes. <i>Journal of Geophysical Research</i> , 2010 , 115,		45
51	Mapping carbon and water vapor fluxes in a chaparral ecosystem using vegetation indices derived from AVIRIS. <i>Remote Sensing of Environment</i> , 2006 , 103, 312-323	13.2	45
50	Mapping Canadian boreal forest vegetation using pigment and water absorption features derived from the AVIRIS sensor. <i>Journal of Geophysical Research</i> , 2001 , 106, 33565-33577		44
49	Effects of irradiance and photosynthetic downregulation on the photochemical reflectance index in Douglas-fir and ponderosa pine. <i>Remote Sensing of Environment</i> , 2013 , 135, 141-149	13.2	43
48	Disentangling the contribution of biological and physical properties of leaves and canopies in imaging spectroscopy data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1074	11.5	43
47	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021 , 301-302, 108350	5.8	43
46	Seasonal Variation in the NDVI Species Richness Relationship in a Prairie Grassland Experiment (Cedar Creek). <i>Remote Sensing</i> , 2016 , 8, 128	5	42

45	Arctic Tundra Vegetation Functional Types Based on Photosynthetic Physiology and Optical Properties. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013 , 6, 265-275	4.7	36
44	Assessing photosynthetic radiation-use efficiency of emergent aquatic vegetation from spectral reflectance. <i>Aquatic Botany</i> , 1997 , 58, 307-315	1.8	35
43	A unified vegetation index for quantifying the terrestrial biosphere. <i>Science Advances</i> , 2021 , 7,	14.3	35
42	Leaf reflectance spectra capture the evolutionary history of seed plants. <i>New Phytologist</i> , 2020 , 228, 485-493	9.8	34
41	Microtopographic patterns in an arctic baydjarakh field: do fine-grain patterns enforce landscape stability?. <i>Environmental Research Letters</i> , 2012 , 7, 015502	6.2	34
40	Production efficiency in sunflower: The role of water and nitrogen stress. <i>Remote Sensing of Environment</i> , 1997 , 62, 176-188	13.2	33
39	ESTIMATION OF CANOPY PHOTOSYNTHETIC AND NONPHOTOSYNTHETIC COMPONENTS FROM SPECTRAL TRANSMITTANCE. <i>Ecology</i> , 2000 , 81, 3149-3162	4.6	32
38	Parallel Seasonal Patterns of Photosynthesis, Fluorescence, and Reflectance Indices in Boreal Trees. <i>Remote Sensing</i> , 2017 , 9, 691	5	31
37	Productivity and Carbon Dioxide Exchange of Leguminous Crops: Estimates from Flux Tower Measurements. <i>Agronomy Journal</i> , 2014 , 106, 545-559	2.2	31
36	Diverse Optical and Photosynthetic Properties in a Neotropical Dry Forest during the Dry Season: Implications for Remote Estimation of Photosynthesis ¹ . <i>Biotropica</i> , 2005 , 37, 547-560	2.3	31
35	Influence of species richness, evenness, and composition on optical diversity: A simulation study. <i>Remote Sensing of Environment</i> , 2018 , 211, 218-228	13.2	30
34	Surface hydrology of an arctic ecosystem: Multiscale analysis of a flooding and draining experiment using spectral reflectance. <i>Journal of Geophysical Research</i> , 2011 , 116,		29
33	Net ecosystem exchange of CO ₂ with rapidly changing high Arctic landscapes. <i>Global Change Biology</i> , 2016 , 22, 1185-200	11.4	26
32	Retrieval of the photochemical reflectance index for assessing xanthophyll cycle activity: a comparison of near-surface optical sensors. <i>Biogeosciences</i> , 2014 , 11, 6277-6292	4.6	25
31	Integrated Analysis of Productivity and Biodiversity in a Southern Alberta Prairie. <i>Remote Sensing</i> , 2016 , 8, 214	5	25
30	Monitoring Grassland Seasonal Carbon Dynamics, by Integrating MODIS NDVI, Proximal Optical Sampling, and Eddy Covariance Measurements. <i>Remote Sensing</i> , 2016 , 8, 260	5	25
29	Phenology and species determine growing-season albedo increase at the altitudinal limit of shrub growth in the sub-Arctic. <i>Global Change Biology</i> , 2016 , 22, 3621-3631	11.4	25
28	Application of the photosynthetic light-use efficiency model in a northern Great Plains grassland. <i>Remote Sensing of Environment</i> , 2015 , 168, 239-251	13.2	22

27	Spring and summer monthly MODIS LST is inherently biased compared to air temperature in snow covered sub-Arctic mountains. <i>Remote Sensing of Environment</i> , 2017 , 189, 14-24	13.2	22
26	Differences in above- and below-ground responses to ozone between two populations of a perennial grass. <i>Plant and Soil</i> , 2001 , 233, 203-211	4.2	21
25	Detecting biophysical properties of a semi-arid grassland and distinguishing burned from unburned areas with hyperspectral reflectance. <i>Journal of Arid Environments</i> , 2004 , 58, 597-610	2.5	19
24	Detecting intra- and inter-annual variability in gross primary productivity of a North American grassland using MODIS MAIAC data. <i>Agricultural and Forest Meteorology</i> , 2020 , 281, 107859	5.8	19
23	Interannual Variability in Dry Mixed-Grass Prairie Yield: A Comparison of MODIS, SPOT, and Field Measurements. <i>Remote Sensing</i> , 2016 , 8, 872	5	17
22	Multi-temporal assessment of grassland βand βdiversity using hyperspectral imaging. <i>Ecological Applications</i> , 2020 , 30, e02145	4.9	16
21	Community-wide consequences of variation in photoprotective physiology among prairie plants. <i>Photosynthetica</i> , 2018 , 56, 455-467	2.2	10
20	A MODIS Photochemical Reflectance Index (PRI) as an Estimator of Isoprene Emissions in a Temperate Deciduous Forest. <i>Remote Sensing</i> , 2018 , 10, 557	5	9
19	Monitoring seasonal and diurnal changes in photosynthetic pigments with automated PRI and NDVI sensors		9
18	Tropical Remote Sensing Opportunities and Challenges 2008 , 297-304		7
17	Integrating proximal broad-band vegetation indices and carbon fluxes to model gross primary productivity in a tropical dry forest. <i>Environmental Research Letters</i> , 2018 , 13, 065017	6.2	7
16	Varying Contributions of Drivers to the Relationship Between Canopy Photosynthesis and Far-Red Sun-Induced Fluorescence for Two Maize Sites at Different Temporal Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005051	3.7	5
15	Consideration of Scale in Remote Sensing of Biodiversity 2020 , 425-447		5
14	Remote Sensing of Terrestrial Photosynthesis1 1995 , 511-527		5
13	Spring warming in Yukon mountains is not amplified by the snow albedo feedback. <i>Scientific Reports</i> , 2018 , 8, 9000	4.9	5
12	Monitoring Spatial and Temporal Variabilities of Gross Primary Production Using MAIAC MODIS Data. <i>Remote Sensing</i> , 2019 , 11, 874	5	4
11	Ecological Applications of Remote Sensing at Multiple Scales. <i>Books in Soils, Plants, and the Environment</i> , 2007 ,		4
10	Optical sampling of the flux tower footprint		3

9	Remotely detected aboveground plant function predicts belowground processes in two prairie diversity experiments. <i>Ecological Monographs</i> , e1488	9	3
8	Coupling spectral and resource-use complementarity in experimental grassland and forest communities		3
7	Coupling spectral and resource-use complementarity in experimental grassland and forest communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211290	4.4	3
6	The Use of Remote Sensing to Enhance Biodiversity Monitoring and Detection: A Critical Challenge for the Twenty-First Century 2020 , 1-12		2
5	Canopy spectral reflectance detects oak wilt at the landscape scale using phylogenetic discrimination		2
4	Errors associated with atmospheric correction methods for airborne imaging spectroscopy: Implications for vegetation indices and plant traits. <i>Remote Sensing of Environment</i> , 2021 , 265, 112663	13.2	1
3	Canopy spectral reflectance detects oak wilt at the landscape scale using phylogenetic discrimination. <i>Remote Sensing of Environment</i> , 2022 , 273, 112961	13.2	0
2	Integrating and scaling carbon, water, and energy fluxes with optical measurements. <i>Eos</i> , 2011 , 92, 377-377		
1	SALSA: A Software System for Data Management and Analytics in Field Spectrometry. <i>Lecture Notes in Computer Science</i> , 2012 , 634-639		0.9