

# John A Gamon

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Canopy spectral reflectance detects oak wilt at the landscape scale using phylogenetic discrimination. <i>Remote Sensing of Environment</i> , <b>2022</b> , 273, 112961	13.2	0
115	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 301-302, 108350	5.8	43
114	A unified vegetation index for quantifying the terrestrial biosphere. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	35
113	Coupling spectral and resource-use complementarity in experimental grassland and forest communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 288, 20211290	4.4	3
112	Errors associated with atmospheric correction methods for airborne imaging spectroscopy: Implications for vegetation indices and plant traits. <i>Remote Sensing of Environment</i> , <b>2021</b> , 265, 112663	13.2	1
111	Leaf reflectance spectra capture the evolutionary history of seed plants. <i>New Phytologist</i> , <b>2020</b> , 228, 485-493	9.8	34
110	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> , <b>2020</b> , 125, e2019JG005051	3.7	5
109	Multi-temporal assessment of grassland βand βdiversity using hyperspectral imaging. <i>Ecological Applications</i> , <b>2020</b> , 30, e02145	4.9	16
108	The Use of Remote Sensing to Enhance Biodiversity Monitoring and Detection: A Critical Challenge for the Twenty-First Century <b>2020</b> , 1-12		2
107	Consideration of Scale in Remote Sensing of Biodiversity <b>2020</b> , 425-447		5
106	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> , <b>2020</b> , 281, 107859	5.8	19
105	Remote sensing of terrestrial plant biodiversity. <i>Remote Sensing of Environment</i> , <b>2019</b> , 231, 111218	13.2	101
104	Monitoring Spatial and Temporal Variabilities of Gross Primary Production Using MAIAC MODIS Data. <i>Remote Sensing</i> , <b>2019</b> , 11, 874	5	4
103	Assessing Vegetation Function with Imaging Spectroscopy. <i>Surveys in Geophysics</i> , <b>2019</b> , 40, 489-513	7.6	63
102	Detecting prairie biodiversity with airborne remote sensing. <i>Remote Sensing of Environment</i> , <b>2019</b> , 221, 38-49	13.2	47
101	The spatial sensitivity of the spectral diversity-biodiversity relationship: an experimental test in a prairie grassland. <i>Ecological Applications</i> , <b>2018</b> , 28, 541-556	4.9	65
100	Remote sensing of biodiversity: Soil correction and data dimension reduction methods improve assessment of βdiversity (species richness) in prairie ecosystems. <i>Remote Sensing of Environment</i> , <b>2018</b> , 206, 240-253	13.2	46

99	Community-wide consequences of variation in photoprotective physiology among prairie plants. <i>Photosynthetica</i> , <b>2018</b> , 56, 455-467	2.2	10
98	Influence of species richness, evenness, and composition on optical diversity: A simulation study. <i>Remote Sensing of Environment</i> , <b>2018</b> , 211, 218-228	13.2	30
97	A MODIS Photochemical Reflectance Index (PRI) as an Estimator of Isoprene Emissions in a Temperate Deciduous Forest. <i>Remote Sensing</i> , <b>2018</b> , 10, 557	5	9
96	Integrating proximal broad-band vegetation indices and carbon fluxes to model gross primary productivity in a tropical dry forest. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 065017	6.2	7
95	Plant spectral diversity integrates functional and phylogenetic components of biodiversity and predicts ecosystem function. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 976-982	12.3	113
94	Spring warming in Yukon mountains is not amplified by the snow albedo feedback. <i>Scientific Reports</i> , <b>2018</b> , 8, 9000	4.9	5
93	Multiple drivers of seasonal change in PRI: Implications for photosynthesis 2. Stand level. <i>Remote Sensing of Environment</i> , <b>2017</b> , 190, 198-206	13.2	59
92	Multiple drivers of seasonal change in PRI: Implications for photosynthesis 1. Leaf level. <i>Remote Sensing of Environment</i> , <b>2017</b> , 191, 110-116	13.2	67
91	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> , <b>2017</b> , 189, 14-24	13.2	22
90	Parallel Seasonal Patterns of Photosynthesis, Fluorescence, and Reflectance Indices in Boreal Trees. <i>Remote Sensing</i> , <b>2017</b> , 9, 691	5	31
89	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> , <b>2016</b> , 113, 13087-13092	11.5	150
88	Net ecosystem exchange of CO <sub>2</sub> with rapidly changing high Arctic landscapes. <i>Global Change Biology</i> , <b>2016</b> , 22, 1185-200	11.4	26
87	Seasonal Variation in the NDVI Species Richness Relationship in a Prairie Grassland Experiment (Cedar Creek). <i>Remote Sensing</i> , <b>2016</b> , 8, 128	5	42
86	Integrated Analysis of Productivity and Biodiversity in a Southern Alberta Prairie. <i>Remote Sensing</i> , <b>2016</b> , 8, 214	5	25
85	Monitoring Grassland Seasonal Carbon Dynamics, by Integrating MODIS NDVI, Proximal Optical Sampling, and Eddy Covariance Measurements. <i>Remote Sensing</i> , <b>2016</b> , 8, 260	5	25
84	Interannual Variability in Dry Mixed-Grass Prairie Yield: A Comparison of MODIS, SPOT, and Field Measurements. <i>Remote Sensing</i> , <b>2016</b> , 8, 872	5	17
83	Phenology and species determine growing-season albedo increase at the altitudinal limit of shrub growth in the sub-Arctic. <i>Global Change Biology</i> , <b>2016</b> , 22, 3621-3631	11.4	25
82	Application of the photosynthetic light-use efficiency model in a northern Great Plains grassland. <i>Remote Sensing of Environment</i> , <b>2015</b> , 168, 239-251	13.2	22

81	Three causes of variation in the photochemical reflectance index (PRI) in evergreen conifers. <i>New Phytologist</i> , <b>2015</b> , 206, 187-195	9.8	131
80	The photochemical reflectance index provides an optical indicator of spring photosynthetic activation in evergreen conifers. <i>New Phytologist</i> , <b>2015</b> , 206, 196-208	9.8	97
79	The need for a common basis for defining light-use efficiency: Implications for productivity estimation. <i>Remote Sensing of Environment</i> , <b>2015</b> , 156, 196-201	13.2	99
78	Monitoring seasonal and diurnal changes in photosynthetic pigments with automated PRI and NDVI sensors. <i>Biogeosciences</i> , <b>2015</b> , 12, 4149-4159	4.6	71
77	Reviews and Syntheses: optical sampling of the flux tower footprint. <i>Biogeosciences</i> , <b>2015</b> , 12, 4509-4523	4.6	63
76	Estimating Temperature Fields from MODIS Land Surface Temperature and Air Temperature Observations in a Sub-Arctic Alpine Environment. <i>Remote Sensing</i> , <b>2014</b> , 6, 946-963	5	52
75	Retrieval of the photochemical reflectance index for assessing xanthophyll cycle activity: a comparison of near-surface optical sensors. <i>Biogeosciences</i> , <b>2014</b> , 11, 6277-6292	4.6	25
74	Productivity and Carbon Dioxide Exchange of Leguminous Crops: Estimates from Flux Tower Measurements. <i>Agronomy Journal</i> , <b>2014</b> , 106, 545-559	2.2	31
73	Evaluating Cloud Contamination in Clear-Sky MODIS Terra Daytime Land Surface Temperatures Using Ground-Based Meteorology Station Observations. <i>Journal of Climate</i> , <b>2013</b> , 26, 1551-1560	4.4	45
72	Effects of irradiance and photosynthetic downregulation on the photochemical reflectance index in Douglas-fir and ponderosa pine. <i>Remote Sensing of Environment</i> , <b>2013</b> , 135, 141-149	13.2	43
71	Spatial and temporal variation in primary productivity (NDVI) of coastal Alaskan tundra: Decreased vegetation growth following earlier snowmelt. <i>Remote Sensing of Environment</i> , <b>2013</b> , 129, 144-153	13.2	104
70	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> , <b>2013</b> , 6, 265-275	4.7	36
69	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> , <b>2013</b> , 110, E1074	11.5	43
68	Facultative and constitutive pigment effects on the Photochemical Reflectance Index (PRI) in sun and shade conifer needles. <i>Israel Journal of Plant Sciences</i> , <b>2012</b> , 60, 85-95	0.6	113
67	Functional regeneration and spectral reflectance of trees during succession in a highly diverse tropical dry forest ecosystem. <i>American Journal of Botany</i> , <b>2012</b> , 99, 816-26	2.7	71
66	Relationships between endophyte diversity and leaf optical properties. <i>Trees - Structure and Function</i> , <b>2012</b> , 26, 291-299	2.6	60
65	Microtopographic patterns in an arctic baydjarakh field: do fine-grain patterns enforce landscape stability?. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 015502	6.2	34
64	SALSA: A Software System for Data Management and Analytics in Field Spectrometry. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 634-639	0.9	

63	Surface hydrology of an arctic ecosystem: Multiscale analysis of a flooding and draining experiment using spectral reflectance. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		29
62	Integrating and scaling carbon, water, and energy fluxes with optical measurements. <i>Eos</i> , <b>2011</b> , 92, 377-377		
61	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> , <b>2011</b> , 115, 281-297	13.2	409
60	Remote sensing of plant functional types. <i>New Phytologist</i> , <b>2010</b> , 186, 795-816	9.8	387
59	Tundra carbon balance under varying temperature and moisture regimes. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		45
58	SpecNet revisited: bridging flux and remote sensing communities. <i>Canadian Journal of Remote Sensing</i> , <b>2010</b> , 36, S376-S390	1.8	49
57	Remote sensing of tundra gross ecosystem productivity and light use efficiency under varying temperature and moisture conditions. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 481-489	13.2	68
56	Retrieval of foliar information about plant pigment systems from high resolution spectroscopy. <i>Remote Sensing of Environment</i> , <b>2009</b> , 113, S67-S77	13.2	453
55	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> , <b>2009</b> , 113, 2076-2088	13.2	97
54	Succession and management of tropical dry forests in the Americas: Review and new perspectives. <i>Forest Ecology and Management</i> , <b>2009</b> , 258, 1014-1024	3.9	196
53	Tropical Remote Sensing Opportunities and Challenges <b>2008</b> , 297-304		7
52	Assessing the carbon balance of circumpolar Arctic tundra using remote sensing and process modeling <b>2007</b> , 17, 213-34		111
51	Ecological Applications of Remote Sensing at Multiple Scales. <i>Books in Soils, Plants, and the Environment</i> , <b>2007</b> ,		4
50	Parallel adjustments in vegetation greenness and ecosystem CO <sub>2</sub> exchange in response to drought in a Southern California chaparral ecosystem. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 289-303	13.2	166
49	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> , <b>2006</b> , 103, 369-378	13.2	48
48	Monitoring drought effects on vegetation water content and fluxes in chaparral with the 970 nm water band index. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 304-311	13.2	88
47	Mapping carbon and water vapor fluxes in a chaparral ecosystem using vegetation indices derived from AVIRIS. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 312-323	13.2	45
46	Spectral Network (SpecNet) What is it and why do we need it?. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 227-235	13.2	105

45	A mobile tram system for systematic sampling of ecosystem optical properties. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 246-254	13.2	84
44	Restoration of Native Perennials in a California Annual Grassland after Prescribed Spring Burning and Solarization. <i>Restoration Ecology</i> , <b>2005</b> , 13, 659-666	3.1	52
43	Site-level evaluation of satellite-based global terrestrial gross primary production and net primary production monitoring. <i>Global Change Biology</i> , <b>2005</b> , 11, 666-684	11.4	264
42	Diverse Optical and Photosynthetic Properties in a Neotropical Dry Forest during the Dry Season: Implications for Remote Estimation of Photosynthesis <sup>1</sup> . <i>Biotropica</i> , <b>2005</b> , 37, 547-560	2.3	31
41	Research Priorities for Neotropical Dry Forests <sup>1</sup> . <i>Biotropica</i> , <b>2005</b> , 37, 477-485	2.3	182
40	Using Imaging Spectroscopy to Study Ecosystem Processes and Properties. <i>BioScience</i> , <b>2004</b> , 54, 523	5.7	369
39	Remote sensing in BOREAS: Lessons learned. <i>Remote Sensing of Environment</i> , <b>2004</b> , 89, 139-162	13.2	54
38	Remote sensing of vegetation and land-cover change in Arctic Tundra Ecosystems. <i>Remote Sensing of Environment</i> , <b>2004</b> , 89, 281-308	13.2	444
37	Potential of MODIS ocean bands for estimating CO <sub>2</sub> flux from terrestrial vegetation: A novel approach. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	79
36	Detecting biophysical properties of a semi-arid grassland and distinguishing burned from unburned areas with hyperspectral reflectance. <i>Journal of Arid Environments</i> , <b>2004</b> , 58, 597-610	2.5	19
35	Response of NDVI, biomass, and ecosystem gas exchange to long-term warming and fertilization in wet sedge tundra. <i>Oecologia</i> , <b>2003</b> , 135, 414-21	2.9	167
34	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> , <b>2003</b> , 84, 526-537	13.2	353
33	Optimum pixel size for hyperspectral studies of ecosystem function in southern California chaparral and grassland. <i>Remote Sensing of Environment</i> , <b>2003</b> , 84, 192-207	13.2	75
32	Seasonal patterns of reflectance indices, carotenoid pigments and photosynthesis of evergreen chaparral species. <i>Oecologia</i> , <b>2002</b> , 131, 366-374	2.9	237
31	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> , <b>2002</b> , 81, 337-354	13.2	1908
30	Differences in above- and below-ground responses to ozone between two populations of a perennial grass. <i>Plant and Soil</i> , <b>2001</b> , 233, 203-211	4.2	21
29	Assessing photosynthetic downregulation in sunflower stands with an optically-based model. <i>Photosynthesis Research</i> , <b>2001</b> , 67, 113-25	3.7	98
28	Mapping Canadian boreal forest vegetation using pigment and water absorption features derived from the AVIRIS sensor. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 33565-33577		44

27	Modeling spatially distributed ecosystem flux of boreal forest using hyperspectral indices from AVIRIS imagery. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 33579-33591		99
26	ESTIMATION OF CANOPY PHOTOSYNTHETIC AND NONPHOTOSYNTHETIC COMPONENTS FROM SPECTRAL TRANSMITTANCE. <i>Ecology</i> , <b>2000</b> , 81, 3149-3162	4.6	32
25	Effects of lifelong [CO <sub>2</sub> ] 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> , <b>2000</b> , 23, 1353-1362	8.4	64
24	Deriving Water Content of Chaparral Vegetation from AVIRIS Data. <i>Remote Sensing of Environment</i> , <b>2000</b> , 74, 570-581	13.2	204
23	Assessing leaf pigment content and activity with a reflectometer. <i>New Phytologist</i> , <b>1999</b> , 143, 105-117	9.8	599
22	Assessing photosynthetic radiation-use efficiency of emergent aquatic vegetation from spectral reflectance. <i>Aquatic Botany</i> , <b>1997</b> , 58, 307-315	1.8	35
21	Production efficiency in sunflower: The role of water and nitrogen stress. <i>Remote Sensing of Environment</i> , <b>1997</b> , 62, 176-188	13.2	33
20	The photochemical reflectance index: an optical indicator of photosynthetic radiation use efficiency across species, functional types, and nutrient levels. <i>Oecologia</i> , <b>1997</b> , 112, 492-501	2.9	801
19	Assessment of photosynthetic radiation-use efficiency with spectral reflectance. <i>New Phytologist</i> , <b>1995</b> , 131, 291-296	9.8	487
18	Relationships Between NDVI, Canopy Structure, and Photosynthesis in Three Californian Vegetation Types <b>1995</b> , 5, 28-41		642
17	Ecosystem Gas Exchange in a California Grassland: Seasonal Patterns and Implications for Scaling. <i>Ecology</i> , <b>1995</b> , 76, 1940-1952	4.6	77
16	Remote Sensing of Terrestrial Photosynthesis <b>1995</b> , 511-527		5
15	Reflectance indices associated with physiological changes in nitrogen- and water-limited sunflower leaves. <i>Remote Sensing of Environment</i> , <b>1994</b> , 48, 135-146	13.2	625
14	Functional patterns in an annual grassland during an AVIRIS overflight. <i>Remote Sensing of Environment</i> , <b>1993</b> , 44, 239-253	13.2	67
13	Assessing community type, plant biomass, pigment composition, and photosynthetic efficiency of aquatic vegetation from spectral reflectance. <i>Remote Sensing of Environment</i> , <b>1993</b> , 46, 110-118	13.2	184
12	A narrow-waveband spectral index that tracks diurnal changes in photosynthetic efficiency. <i>Remote Sensing of Environment</i> , <b>1992</b> , 41, 35-44	13.2	1351
11	Responses of photosynthesis and carbohydrate-partitioning to limitations in nitrogen and water availability in field-grown sunflower*. <i>Plant, Cell and Environment</i> , <b>1991</b> , 14, 963-970	8.4	103
10	Photoinhibition in <i>Vitis californica</i> : interactive effects of sunlight, temperature and water status. <i>Plant, Cell and Environment</i> , <b>1990</b> , 13, 267-275	8.4	87

9	Remote sensing of the xanthophyll cycle and chlorophyll fluorescence in sunflower leaves and canopies. <i>Oecologia</i> , <b>1990</b> , 85, 1-7	2.9	290
8	Photoinhibition in <i>Vitis californica</i> : The Role of Temperature during High-Light Treatment. <i>Plant Physiology</i> , <b>1990</b> , 92, 487-94	6.6	50
7	Sunfleck dynamics in relation to canopy structure in a soybean ( <i>Glycine max</i> (L.) Merr.) canopy. <i>Agricultural and Forest Meteorology</i> , <b>1990</b> , 52, 359-372	5.8	60
6	Leaf movement, stress avoidance and photosynthesis in <i>Vitis californica</i> . <i>Oecologia</i> , <b>1989</b> , 79, 475-481	2.9	115
5	Monitoring seasonal and diurnal changes in photosynthetic pigments with automated PRI and NDVI sensors		9
4	Optical sampling of the flux tower footprint		3
3	Remotely detected aboveground plant function predicts belowground processes in two prairie diversity experiments. <i>Ecological Monographs</i> , e1488	9	3
2	Coupling spectral and resource-use complementarity in experimental grassland and forest communities		3
1	Canopy spectral reflectance detects oak wilt at the landscape scale using phylogenetic discrimination		2