

# Greg Okin

## 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.

117  
papers

6,148  
citations

42  
h-index

76  
g-index

134  
ext. papers

6,990  
ext. citations

6  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
117	Where and How Often Does Rain Prevent Dust Emission?. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0
116	Parameterizing an aeolian erosion model for rangelands. <i>Aeolian Research</i> , <b>2022</b> , 54, 100769	3.9	2
115	Biological invasions and climate change amplify each other's effects on dryland degradation. <i>Global Change Biology</i> , <b>2022</b> , 28, 285-295	11.4	4
114	The season for large fires in Southern California is projected to lengthen in a changing climate. <i>Communications Earth &amp; Environment</i> , <b>2022</b> , 3,	6.1	1
113	UAV-derived imagery for vegetation structure estimation in rangelands: validation and application. <i>Ecosphere</i> , <b>2021</b> , 12, e03830	3.1	0
112	Characterizing spatial variability in coastal wetland biomass across multiple scales using UAV and satellite imagery. <i>Remote Sensing in Ecology and Conservation</i> , <b>2021</b> , 7, 411-429	5.3	7
111	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , <b>2021</b> , 12, e03433	3.1	1
110	Germination and early establishment of dryland grasses and shrubs on intact and wind-eroded soils under greenhouse conditions. <i>Plant and Soil</i> , <b>2021</b> , 465, 245-260	4.2	1
109	Vegetation Canopy Gap Size and Height: Critical Indicators for Wind Erosion Monitoring and Management. <i>Rangeland Ecology and Management</i> , <b>2021</b> , 76, 78-83	2.2	6
108	The EMIT mission information yield for mineral dust radiative forcing. <i>Remote Sensing of Environment</i> , <b>2021</b> , 258, 112380	13.2	4
107	Drone-Based Remote Sensing for Research on Wind Erosion in Drylands: Possible Applications. <i>Remote Sensing</i> , <b>2021</b> , 13, 283	5	6
106	A global analysis of diurnal variability in dust and dust mixture using CATS observations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1427-1447	6.8	5
105	Guiding principles for using satellite-derived maps in rangeland management. <i>Rangelands</i> , <b>2021</b> ,	1.1	6
104	Modeling the short-term fire effects on vegetation dynamics and surface energy in southern Africa using the improved SSiB4/TRIFFID-Fire model. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 7639-7657	6.3	1
103	Disproving the Bodley Depression as the Primary Source of Dust Fertilizing the Amazon Rainforest. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088020	4.9	13
102	Mapping Areas of the Southern Ocean Where Productivity Likely Depends on Dust-Delivered Iron. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD030926	4.4	3
101	Impact of water characteristics on the discrimination of benthic cover in and around coral reefs from imaging spectrometer data. <i>Remote Sensing of Environment</i> , <b>2020</b> , 239, 111631	13.2	2

100	Deciphering the past to inform the future: preparing for the next (really big) extreme event. <i>Frontiers in Ecology and the Environment</i> , <b>2020</b> , 18, 401-408	5.5	5
99	Leveraging Google Earth Engine (GEE) and machine learning algorithms to incorporate in situ measurement from different times for rangelands monitoring. <i>Remote Sensing of Environment</i> , <b>2020</b> , 236, 111521	13.2	31
98	Ecosystem dynamics and aeolian sediment transport in the southern Kalahari. <i>African Journal of Ecology</i> , <b>2020</b> , 58, 337-344	0.8	2
97	Modifying connectivity to promote state change reversal: the importance of geomorphic context and plant-soil feedbacks. <i>Ecology</i> , <b>2020</b> , 101, e03069	4.6	11
96	Assimilating optical satellite remote sensing images and field data to predict surface indicators in the Western U.S.: Assessing error in satellite predictions based on large geographical datasets with the use of machine learning. <i>Remote Sensing of Environment</i> , <b>2019</b> , 233, 111382	13.2	19
95	Vegetation Responses to 2012-2016 Drought in Northern and Southern California. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 3810-3821	4.9	35
94	On the effects of wildfires on precipitation in Southern Africa. <i>Climate Dynamics</i> , <b>2019</b> , 52, 951-967	4.2	14
93	Characterizing the Role of Wind and Dust in Traffic Accidents in California. <i>GeoHealth</i> , <b>2019</b> , 3, 328-336	5	19
92	An Assessment of Multiple Drivers Determining Woody Species Composition and Structure: A Case Study from the Kalahari, Botswana. <i>Land</i> , <b>2019</b> , 8, 122	3.5	8
91	Integrating Imaging Spectrometer and Synthetic Aperture Radar Data for Estimating Wetland Vegetation Aboveground Biomass in Coastal Louisiana. <i>Remote Sensing</i> , <b>2019</b> , 11, 2533	5	13
90	Desertification and Land Degradation <b>2019</b> , 573-602		5
89	Quantifying Drought Sensitivity of Mediterranean Climate Vegetation to Recent Warming: A Case Study in Southern California. <i>Remote Sensing</i> , <b>2019</b> , 11, 2902	5	6
88	A Mechanism of Land Degradation in Turf-Mantled Slopes of the Tibetan Plateau. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4041-4048	4.9	4
87	Monitoring changes of NDVI in protected areas of southern California. <i>Ecological Indicators</i> , <b>2018</b> , 88, 485-494	5.8	38
86	Impact of Agropastoral Management on Wind Erosion in Sahelian Croplands. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 800-811	4.4	18
85	Soil organic carbon in savannas decreases with anthropogenic climate change. <i>Geoderma</i> , <b>2018</b> , 309, 7-16	6.7	16
84	The Impact of Drought on Native Southern California Vegetation: Remote Sensing Analysis Using MODIS-Derived Time Series. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 1927-1939	3.7	23
83	An Integrated View of Complex Landscapes: A Big Data-Model Integration Approach to Transdisciplinary Science. <i>BioScience</i> , <b>2018</b> , 68, 653-669	5.7	22

82	The Grassland-Shrubland Regime Shift in the Southwestern United States: Misconceptions and Their Implications for Management. <i>BioScience</i> , <b>2018</b> , 68, 678-690	5.7	43
81	The Interactive Role of Wind and Water in Functioning of Drylands: What Does the Future Hold?. <i>BioScience</i> , <b>2018</b> , 68, 670-677	5.7	23
80	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 289	5.9	65
79	Abiotic processes are insufficient for fertile island development: A 10-year artificial shrub experiment in a desert grassland. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2245-2253	4.9	19
78	Albedo feedbacks to future climate via climate change impacts on dryland biocrusts. <i>Scientific Reports</i> , <b>2017</b> , 7, 44188	4.9	64
77	Environmental impacts of food consumption by dogs and cats. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181301	3.7	46
76	Observation- and Model-Based Estimates of Particulate Dry Nitrogen Deposition to the Oceans <b>2017</b> ,		2
75	A Toolkit for Ecosystem Ecologists in the Time of Big Science. <i>Ecosystems</i> , <b>2017</b> , 20, 259-266	3.9	10
74	A method to retrieve the spectral complex refractive index and single scattering optical properties of dust deposited in mountain snow. <i>Journal of Glaciology</i> , <b>2017</b> , 63, 133-147	3.4	30
73	Observation- and Model-Based Estimates of Particulate Dry Nitrogen Deposition to the Oceans. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 8189-8210	6.8	22
72	Fire-induced albedo change and surface radiative forcing in sub-Saharan Africa savanna ecosystems: Implications for the energy balance. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6186-6201	4.4	21
71	Impact of burned areas on the northern African seasonal climate from the perspective of regional modeling. <i>Climate Dynamics</i> , <b>2016</b> , 47, 3393-3413	4.2	16
70	The National Wind Erosion Research Network: Building a standardized long-term data resource for aeolian research, modeling and land management. <i>Aeolian Research</i> , <b>2016</b> , 22, 23-36	3.9	42
69	Potential of grass invasions in desert shrublands to create novel ecosystem states under variable climate. <i>Ecohydrology</i> , <b>2016</b> , 9, 1496-1506	2.5	23
68	Soil organic C and total N pools in the Kalahari: potential impacts of climate change on C sequestration in savannas. <i>Plant and Soil</i> , <b>2015</b> , 396, 27-44	4.2	16
67	Connectivity in dryland landscapes: shifting concepts of spatial interactions. <i>Frontiers in Ecology and the Environment</i> , <b>2015</b> , 13, 20-27	5.5	124
66	Desertification, land use, and the transformation of global drylands. <i>Frontiers in Ecology and the Environment</i> , <b>2015</b> , 13, 28-36	5.5	171
65	The impact of atmospheric conditions and instrument noise on atmospheric correction and spectral mixture analysis of multispectral imagery. <i>Remote Sensing of Environment</i> , <b>2015</b> , 164, 130-141	13.2	20

64	A tribute to Michael R. Raupach for contributions to aeolian fluid dynamics. <i>Aeolian Research</i> , <b>2015</b> , 19, 37-54	3.9	23
63	A quantitative description of the interspecies diversity of belowground structure in savanna woody plants. <i>Ecosphere</i> , <b>2015</b> , 6, art154	3.1	12
62	Dust-rainfall feedback in West African Sahel. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 7563-7571	4.9	9
61	On the prediction of threshold friction velocity of wind erosion using soil reflectance spectroscopy. <i>Aeolian Research</i> , <b>2015</b> , 19, 129-136	3.9	7
60	The effect of roughness elements on wind erosion: The importance of surface shear stress distribution. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6066-6084	4.4	32
59	Consistency of wind erosion assessments across land use and land cover types: A critical analysis. <i>Aeolian Research</i> , <b>2014</b> , 15, 253-260	3.9	21
58	Relating spatial patterns of fractional land cover to savanna vegetation morphology using multi-scale remote sensing in the Central Kalahari. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 2082-2104	3.1	12
57	Resilience and recovery potential of duneland vegetation in the southern Kalahari. <i>Ecosphere</i> , <b>2014</b> , 5, art2	3.1	26
56	Comparison of methods for estimation of absolute vegetation and soil fractional cover using MODIS normalized BRDF-adjusted reflectance data. <i>Remote Sensing of Environment</i> , <b>2013</b> , 130, 266-279	13.2	46
55	Ecosystem-scale spatial heterogeneity of stable isotopes of soil nitrogen in African savannas. <i>Landscape Ecology</i> , <b>2013</b> , 28, 685-698	4.3	20
54	Evaluation of a new model of aeolian transport in the presence of vegetation. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 288-306	3.8	45
53	Soil Litter Mixing Accelerates Decomposition in a Chihuahuan Desert Grassland. <i>Ecosystems</i> , <b>2013</b> , 16, 183-195	3.9	45
52	Estimating total horizontal aeolian flux within shrub-invaded groundwater-dependent meadows using empirical and mechanistic models. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 1132-1146	3.8	11
51	Relating variation of dust on snow to bare soil dynamics in the western United States. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 044054	6.2	10
50	Potential dust emissions from the southern Kalahari's dunelands. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 307-314	3.8	22
49	The interactive nutrient and water effects on vegetation biomass at two African savannah sites with different mean annual precipitation. <i>African Journal of Ecology</i> , <b>2012</b> , 50, 446-454	0.8	10
48	Atmospheric fluxes of organic N and P to the global ocean. <i>Global Biogeochemical Cycles</i> , <b>2012</b> , 26,	5.9	152
47	Evaluating ecohydrological theories of woody root distribution in the Kalahari. <i>PLoS ONE</i> , <b>2012</b> , 7, e33996	3.7	31

46	Aeolian process effects on vegetation communities in an arid grassland ecosystem. <i>Ecology and Evolution</i> , <b>2012</b> , 2, 809-21	2.8	27
45	A synthetic review of feedbacks and drivers of shrub encroachment in arid grasslands. <i>Ecohydrology</i> , <b>2012</b> , 5, 520-530	2.5	247
44	Understanding the role of ecohydrological feedbacks in ecosystem state change in drylands. <i>Ecohydrology</i> , <b>2012</b> , 5, 174-183	2.5	93
43	The Southern Kalahari: a potential new dust source in the Southern Hemisphere?. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 024001	6.2	50
42	Impacts of atmospheric nutrient deposition on marine productivity: Roles of nitrogen, phosphorus, and iron. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a	5.9	148
41	AEOLIAN PROCESSES AND THE BIOSPHERE. <i>Reviews of Geophysics</i> , <b>2011</b> , 49,	23.1	182
40	Dust: Small-scale processes with global consequences. <i>Eos</i> , <b>2011</b> , 92, 241-242	1.5	48
39	Beryllium-7 in soils and vegetation along an arid precipitation gradient in Owens Valley, California. <i>Geophysical Research Letters</i> , <b>2011</b> , 38,	4.9	28
38	Impacts of anthropogenic SO <sub>x</sub> , NO <sub>x</sub> and NH <sub>3</sub> on acidification of coastal waters and shipping lanes. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	37
37	Responses of wind erosion to climate-induced vegetation changes on the Colorado Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3854-9	11.5	193
36	Asynchronous response of tropical forest leaf phenology to seasonal and el Niño-driven drought. <i>PLoS ONE</i> , <b>2010</b> , 5, e11325	3.7	18
35	The contribution of brown vegetation to vegetation dynamics. <i>Ecology</i> , <b>2010</b> , 91, 743-55	4.6	26
34	The ecology of dust. <i>Frontiers in Ecology and the Environment</i> , <b>2010</b> , 8, 423-430	5.5	210
33	A simple method to estimate threshold friction velocity of wind erosion in the field. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	35
32	Combined Effects of Impervious Surface and Vegetation Cover on Air Temperature Variations in a Rapidly Expanding Desert City. <i>GIScience and Remote Sensing</i> , <b>2010</b> , 47, 301-320	4.8	66
31	Remote Sensing of Nitrogen and Carbon Isotope Compositions in Terrestrial Ecosystems <b>2010</b> , 51-70		1
30	Post-Fire Resource Redistribution in Desert Grasslands: A Possible Negative Feedback on Land Degradation. <i>Ecosystems</i> , <b>2009</b> , 12, 434-444	3.9	94
29	Sediment deposition and soil nutrient heterogeneity in two desert grassland ecosystems, southern New Mexico. <i>Plant and Soil</i> , <b>2009</b> , 319, 67-84	4.2	30

28	Spatial heterogeneity and sources of soil carbon in southern African savannas. <i>Geoderma</i> , <b>2009</b> , 149, 402-408	6.7	50
27	Satellite prediction of soil $\delta^{13}C$ distributions in a southern African savanna. <i>Journal of Geochemical Exploration</i> , <b>2009</b> , 102, 137-141	3.8	4
26	Do Changes in Connectivity Explain Desertification?. <i>BioScience</i> , <b>2009</b> , 59, 237-244	5.7	174
25	Impact of feedbacks on Chihuahuan desert grasslands: Transience and metastability. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		53
24	Effects of enhanced wind erosion on surface soil texture and characteristics of windblown sediments. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		49
23	Indices for estimating fractional snow cover in the western Tibetan Plateau. <i>Journal of Glaciology</i> , <b>2009</b> , 55, 737-745	3.4	25
22	A new model of wind erosion in the presence of vegetation. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		179
21	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	504
20	Predicting and understanding ecosystem responses to climate change at continental scales. <i>Frontiers in Ecology and the Environment</i> , <b>2008</b> , 6, 273-280	5.5	41
19	Effects of wind erosion on the spatial heterogeneity of soil nutrients in two desert grassland communities. <i>Biogeochemistry</i> , <b>2008</b> , 88, 73-88	3.8	124
18	On soil moisture-vegetation feedbacks and their possible effects on the dynamics of dryland ecosystems. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		162
17	Hydrologic and aeolian controls on vegetation patterns in arid landscapes. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	83
16	Relative spectral mixture analysis I: A multitemporal index of total vegetation cover. <i>Remote Sensing of Environment</i> , <b>2007</b> , 106, 467-479	13.2	63
15	Changes in the spatial variation of soil properties following shifting cultivation in a Mexican tropical dry forest. <i>Biogeochemistry</i> , <b>2007</b> , 84, 99-113	3.8	23
14	Quantitative effects of vegetation cover on wind erosion and soil nutrient loss in a desert grassland of southern New Mexico, USA. <i>Biogeochemistry</i> , <b>2007</b> , 85, 317-332	3.8	249
13	Dryland Ecosystems <b>2007</b> , 271-307		24
12	Characterization of shrub distribution using high spatial resolution remote sensing: Ecosystem implications for a former Chihuahuan Desert grassland. <i>Remote Sensing of Environment</i> , <b>2006</b> , 101, 554-566	13.2	57
11	On the effect of moisture bonding forces in air-dry soils on threshold friction velocity of wind erosion. <i>Sedimentology</i> , <b>2006</b> , 53, 597-609	3.3	88

10	Dependence of wind erosion and dust emission on surface heterogeneity: Stochastic modeling. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		49
9	Impacts of biomass burning emissions and land use change on Amazonian atmospheric phosphorus cycling and deposition. <i>Global Biogeochemical Cycles</i> , <b>2005</b> , 19, n/a-n/a	5.9	114
8	Modelling Wind Erosion and Dust Emission on Vegetated Surfaces <b>2005</b> , 137-156		
7	Mapping North African landforms using continental scale unmixing of MODIS imagery. <i>Remote Sensing of Environment</i> , <b>2005</b> , 97, 470-483	13.2	64
6	Effect of grain size on remotely sensed spectral reflectance of sandy desert surfaces. <i>Remote Sensing of Environment</i> , <b>2004</b> , 89, 272-280	13.2	59
5	Impact of desert dust on the biogeochemistry of phosphorus in terrestrial ecosystems. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	295
4	An ENSO predictor of dust emission in the southwestern United States. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 46-1-46-3	4.9	42
3	Practical limits on hyperspectral vegetation discrimination in arid and semiarid environments. <i>Remote Sensing of Environment</i> , <b>2001</b> , 77, 212-225	13.2	250
2	Degradation of sandy arid shrubland environments: observations, process modelling, and management implications. <i>Journal of Arid Environments</i> , <b>2001</b> , 47, 123-144	2.5	140
1	Desertification in an Arid Shrubland in the Southwestern United States. <i>Geospatial Technology and the Role of Location in Science</i> , <b>2001</b> , 53-70	0.5	6