

Tarek S El-Madany

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2742779/publications.pdf>

Version: 2024-02-01

43
papers

1,454
citations

331538

21
h-index

330025

37
g-index

56
all docs

56
docs citations

56
times ranked

1966
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant functional traits and canopy structure control the relationship between photosynthetic CO_2 uptake and far-red sun-induced fluorescence in a Mediterranean grassland under different nutrient availability. <i>New Phytologist</i> , 2017, 214, 1078-1091.	3.5	158
2	Reviews and syntheses: Turning the challenges of partitioning ecosystem evaporation and transpiration into opportunities. <i>Biogeosciences</i> , 2019, 16, 3747-3775.	1.3	150
3	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	13.7	99
4	Sensitivity of gross primary productivity to climatic drivers during the summer drought of 2018 in Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190747.	1.8	71
5	Bigleaf: An R package for the calculation of physical and physiological ecosystem properties from eddy covariance data. <i>PLoS ONE</i> , 2018, 13, e0201114.	1.1	67
6	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	3.7	65
7	Using Near-Infrared-Enabled Digital Repeat Photography to Track Structural and Physiological Phenology in Mediterranean Tree-Grass Ecosystems. <i>Remote Sensing</i> , 2018, 10, 1293.	1.8	64
8	Evaluation of eddy covariance latent heat fluxes with independent lysimeter and sapflow estimates in a Mediterranean savannah ecosystem. <i>Agricultural and Forest Meteorology</i> , 2017, 236, 87-99.	1.9	60
9	Heatwave breaks down the linearity between sun-induced fluorescence and gross primary production. <i>New Phytologist</i> , 2022, 233, 2415-2428.	3.5	51
10	Partitioning Eddy Covariance Water Flux Components Using Physiological and Micrometeorological Approaches. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3353-3370.	1.3	50
11	Drivers of spatio-temporal variability of carbon dioxide and energy fluxes in a Mediterranean savanna ecosystem. <i>Agricultural and Forest Meteorology</i> , 2018, 262, 258-278.	1.9	50
12	Gross Primary Productivity of Four European Ecosystems Constrained by Joint CO_2 and COS Flux Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 5284-5293.	1.5	38
13	Multiple-constraint inversion of SCOPE. Evaluating the potential of GPP and SIF for the retrieval of plant functional traits. <i>Remote Sensing of Environment</i> , 2019, 234, 111362.	4.6	35
14	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190524.	1.8	35
15	Estimating causal networks in biosphere-atmosphere interaction with the PCMC1 approach. <i>Biogeosciences</i> , 2020, 17, 1033-1061.	1.3	34
16	Chemical Composition of Fog Water at Four Sites in Taiwan. <i>Aerosol and Air Quality Research</i> , 2016, 16, 618-631.	0.9	28
17	Drought and heatwave impacts on semi-arid ecosystems' carbon fluxes along a precipitation gradient. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190519.	1.8	27
18	The effect of pixel heterogeneity for remote sensing based retrievals of evapotranspiration in a semi-arid tree-grass ecosystem. <i>Remote Sensing of Environment</i> , 2021, 260, 112440.	4.6	27

#	ARTICLE	IF	CITATIONS
19	Using terrestrial laser scanning for characterizing tree structural parameters and their changes under different management in a Mediterranean open woodland. <i>Forest Ecology and Management</i> , 2021, 486, 118945.	1.4	25
20	Fog chemical composition and its feedback to fog water fluxes, water vapor fluxes, and microphysical evolution of two events near Paris. <i>Atmospheric Research</i> , 2015, 164-165, 328-338.	1.8	23
21	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems. <i>Global Change Biology</i> , 2022, 28, 2111-2123.	4.2	23
22	Size-resolved eddy covariance fluxes of nucleation to accumulation mode aerosol particles over a coniferous forest. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 328-340.	1.9	22
23	Comparison of sonic anemometer performance under foggy conditions. <i>Agricultural and Forest Meteorology</i> , 2013, 173, 63-73.	1.9	20
24	Seasonal Adaptation of the Thermal-Based Two-Source Energy Balance Model for Estimating Evapotranspiration in a Semiarid Tree-Grass Ecosystem. <i>Remote Sensing</i> , 2020, 12, 904.	1.8	20
25	Sensitivity of Estimated Total Canopy SIF Emission to Remotely Sensed LAI and BRDF Products. <i>Journal of Remote Sensing</i> , 2021, 2021, .	3.2	20
26	Microphysics and energy and water fluxes of various fog types at SIRT, France. <i>Atmospheric Research</i> , 2015, 151, 162-175.	1.8	19
27	Nitrogen and Phosphorus effect on Sun-Induced Fluorescence and Gross Primary Productivity in Mediterranean Grassland. <i>Remote Sensing</i> , 2019, 11, 2562.	1.8	19
28	Spatio-Temporal Relationships between Optical Information and Carbon Fluxes in a Mediterranean Tree-Grass Ecosystem. <i>Remote Sensing</i> , 2017, 9, 608.	1.8	15
29	senSCOPE: Modeling mixed canopies combining green and brown senesced leaves. Evaluation in a Mediterranean Grassland. <i>Remote Sensing of Environment</i> , 2021, 257, 112352.	4.6	15
30	A remote sensing-based three-source energy balance model to improve global estimations of evapotranspiration in semi-arid tree-grass ecosystems. <i>Global Change Biology</i> , 2022, 28, 1493-1515.	4.2	15
31	How Nitrogen and Phosphorus Availability Change Water Use Efficiency in a Mediterranean Savanna Ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006005.	1.3	13
32	Stomatal and Non-Stomatal Turbulent Deposition Flux of Ozone to a Managed Peatland. <i>Atmosphere</i> , 2017, 8, 175.	1.0	12
33	Canopy-atmosphere interactions under foggy condition: Size-resolved fog droplet fluxes and their implications. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 796-808.	1.3	11
34	Understanding the controls over forest carbon use efficiency on small spatial scales: Effects of forest disturbance and tree diversity. <i>Agricultural and Forest Meteorology</i> , 2019, 269-270, 136-144.	1.9	11
35	Low-level jets and above-canopy drainage as causes of turbulent exchange in the nocturnal boundary layer. <i>Biogeosciences</i> , 2014, 11, 4507-4519.	1.3	8
36	UAS-based high resolution mapping of evapotranspiration in a Mediterranean tree-grass ecosystem. <i>Agricultural and Forest Meteorology</i> , 2022, 321, 108981.	1.9	8

#	ARTICLE	IF	CITATIONS
37	Warm Winter, Wet Spring, and an Extreme Response in Ecosystem Functioning on the Iberian Peninsula. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S80-S85.	1.7	7
38	Functional convergence of biosphere-atmosphere interactions in response to meteorological conditions. <i>Biogeosciences</i> , 2021, 18, 2379-2404.	1.3	5
39	Soil CO ₂ efflux errors are lognormally distributed – implications and guidance. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020, 9, 239-254.	0.6	3
40	A comparative study of ecohydrologies of a tropical mangrove and a broadleaf deciduous forest using eddy covariance measurement. <i>Meteorology and Atmospheric Physics</i> , 2022, 134, 1.	0.9	3
41	Carbon allocation and tree diversity: shifts in autotrophic respiration in tree mixtures compared to monocultures. , 2022, 77, 3385-3396.		3
42	Evergreen broadleaf greenness and its relationship with leaf flushing, aging, and water fluxes. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109060.	1.9	3
43	Assessing the Use of Multiple Constraints and Ancillary Data to Support Scope Model Inversion in a Experimental Grassland. , 2018, , .		0