

Thomas Astor

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

797
citations

567281

15
h-index

501196

28
g-index

37
all docs

37
docs citations

37
times ranked

999
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote sensing as a tool to assess botanical composition, structure, quantity and quality of temperate grasslands. <i>Grass and Forage Science</i> , 2018, 73, 1-14.	2.9	97
2	Biomass Prediction of Heterogeneous Temperate Grasslands Using an SfM Approach Based on UAV Imaging. <i>Agronomy</i> , 2019, 9, 54.	3.0	68
3	Estimation of Vegetable Crop Parameter by Multi-temporal UAV-Borne Images. <i>Remote Sensing</i> , 2018, 10, 805.	4.0	60
4	Evaluation of 3D point cloud-based models for the prediction of grassland biomass. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 352-359.	2.8	56
5	Predicting Forage Quality of Grasslands Using UAV-Borne Imaging Spectroscopy. <i>Remote Sensing</i> , 2020, 12, 126.	4.0	56
6	Construction and Use of a Simple Index of Urbanisation in the Rural-Urban Interface of Bangalore, India. <i>Sustainability</i> , 2017, 9, 2146.	3.2	55
7	Fusion of Ultrasonic and Spectral Sensor Data for Improving the Estimation of Biomass in Grasslands with Heterogeneous Sward Structure. <i>Remote Sensing</i> , 2017, 9, 98.	4.0	54
8	The potential of UAV-borne spectral and textural information for predicting aboveground biomass and N fixation in legume-grass mixtures. <i>PLoS ONE</i> , 2020, 15, e0234703.	2.5	39
9	Airborne Hyperspectral Data Predict Fine-Scale Plant Species Diversity in Grazed Dry Grasslands. <i>Remote Sensing</i> , 2016, 8, 133.	4.0	38
10	Methods for LiDAR-based estimation of extensive grassland biomass. <i>Computers and Electronics in Agriculture</i> , 2019, 156, 693-699.	7.7	37
11	Classification of Grassland Successional Stages Using Airborne Hyperspectral Imagery. <i>Remote Sensing</i> , 2014, 6, 7732-7761.	4.0	29
12	Assessment of fine-scale plant species beta diversity using WorldView-2 satellite spectral dissimilarity. <i>Ecological Informatics</i> , 2013, 18, 1-9.	5.2	19
13	Agricultural crop discrimination in a heterogeneous low-mountain range region based on multi-temporal and multi-sensor satellite data. <i>Computers and Electronics in Agriculture</i> , 2020, 179, 105864.	7.7	19
14	Prediction of Biomass and N Fixation of Legume-Grass Mixtures Using Sensor Fusion. <i>Frontiers in Plant Science</i> , 2020, 11, 603921.	3.6	18
15	Remote sensing data fusion as a tool for biomass prediction in extensive grasslands invaded by <i>L. polyphyllus</i> . <i>Remote Sensing in Ecology and Conservation</i> , 2021, 7, 198-213.	4.3	17
16	Assessing Spatial Variability of Barley Whole Crop Biomass Yield and Leaf Area Index in Silvoarable Agroforestry Systems Using UAV-Borne Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 2751.	4.0	17
17	Vegetable Crop Biomass Estimation Using Hyperspectral and RGB 3D UAV Data. <i>Agronomy</i> , 2020, 10, 1600.	3.0	16
18	Comparing mobile and static assessment of biomass in heterogeneous grassland with a multi-sensor system. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 301-312.	0.9	15

#	ARTICLE	IF	CITATIONS
19	Multi-Temporal Monsoon Crop Biomass Estimation Using Hyperspectral Imaging. Remote Sensing, 2019, 11, 1771.	4.0	13
20	Mapping Invasive Lupinus polyphyllus Lindl. in Semi-natural Grasslands Using Object-Based Image Analysis of UAV-borne Images. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2020, 88, 391-406.	1.1	13
21	Global application of an unoccupied aerial vehicle photogrammetry protocol for predicting aboveground biomass in non-forest ecosystems. Remote Sensing in Ecology and Conservation, 2022, 8, 57-71.	4.3	13
22	Multi-Temporal Agricultural Land-Cover Mapping Using Single-Year and Multi-Year Models Based on Landsat Imagery and IACS Data. Agronomy, 2019, 9, 309.	3.0	10
23	Airborne hyperspectral data predict Ellenberg indicator values for nutrient and moisture availability in dry grazed grasslands within a local agricultural landscape. Ecological Indicators, 2016, 66, 503-516.	6.3	9
24	Comparison of Spaceborne and UAV-Borne Remote Sensing Spectral Data for Estimating Monsoon Crop Vegetation Parameters. Sensors, 2021, 21, 2886.	3.8	7
25	Multisite and Multitemporal Grassland Yield Estimation Using UAV-Borne Hyperspectral Data. Remote Sensing, 2022, 14, 2068.	4.0	7
26	Landscape history confounds the ability of the NDVI to detect fine-scale variation in grassland communities. Methods in Ecology and Evolution, 2018, 9, 2009-2018.	5.2	5
27	Multi-temporal estimation of vegetable crop biophysical parameters with varied nitrogen fertilization using terrestrial laser scanning. Computers and Electronics in Agriculture, 2021, 184, 106051.	7.7	5
28	Potentials and Limitations of WorldView-3 Data for the Detection of Invasive Lupinus polyphyllus Lindl. in Semi-Natural Grasslands. Remote Sensing, 2021, 13, 4333.	4.0	3
29	Spatio-temporal analysis of the effects of biogas production on agricultural lands. Land Use Policy, 2021, 102, 105240.	5.6	1
30	Biomass Estimation of Vegetables—Can Remote Sensing Be a Tool for It?. Urban Book Series, 2021, , 95-102.	0.6	0
31	Title is missing!. , 2020, 15, e0234703.		0
32	Title is missing!. , 2020, 15, e0234703.		0
33	Title is missing!. , 2020, 15, e0234703.		0
34	Title is missing!. , 2020, 15, e0234703.		0
35	Title is missing!. , 2020, 15, e0234703.		0
36	Title is missing!. , 2020, 15, e0234703.		0