Shawn C Kefauver

List of Publications by Year
in descending order

86	2,480	318942	242451
papers	citations	23 h-index	47 g-index

90	90	90	3192
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiscale assessment of ground, aerial and satellite spectral data for monitoring wheat grain nitrogen content. Information Processing in Agriculture, 2023, 10, 504-522.	2.9	3
2	Durum wheat ideotypes in Mediterranean environments differing in water and temperature conditions. Agricultural Water Management, 2022, 259, 107257.	2.4	22
3	Crop phenotyping in a context of global change: What to measure and how to do it. Journal of Integrative Plant Biology, 2022, 64, 592-618.	4.1	29
4	Dataset of above and below ground traits assessed in Durum wheat cultivars grown under Mediterranean environments differing in water and temperature conditions. Data in Brief, 2022, 40, 107754.	0.5	3
5	Preharvest phenotypic prediction of grain quality and yield of durum wheat using multispectral imaging. Plant Journal, 2022, 109, 1507-1518.	2.8	13
6	Farming and Earth Observation: Sentinel-2 data to estimate within-field wheat grain yield. International Journal of Applied Earth Observation and Geoinformation, 2022, 107, 102697.	1.4	14
7	Estimating peanut and soybean photosynthetic traits using leaf spectral reflectance and advance regression models. Planta, 2022, 255, 93.	1.6	13
8	Assessing Phytosanitary Application Efficiency of a Boom Sprayer Machine Using RGB Sensor in Grassy Fields. Sustainability, 2022, 14, 3666.	1.6	1
9	Comparison of Proximal Remote Sensing Devices of Vegetable Crops to Determine the Role of Grafting in Plant Resistance to Meloidogyne incognita. Agronomy, 2022, 12, 1098.	1.3	2
10	The Birth of the IEEE Geoscience and Remote Sensing Society in Cameroon: The Quest for a Chapter [Chapters]. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 350-352.	4.9	0
11	High Throughput Field Phenotyping. , 2022, , 495-512.		3
12	Bridging the genotypeâ€“phenotype gap for a Mediterranean pine by semiâ€automatic crown identification and multispectral imagery. New Phytologist, 2021, 229, 245-258.	3.5	14
13	The promising MultispeQ device for tracing the effect of seed coating with biostimulants on growth promotion, photosynthetic state and waterâ€“nutrient stress tolerance in durum wheat. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 1.	0.6	9
14	Women Who Inspire and Empower [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 283-286.	4.9	1
15	Root and canopy traits and adaptability genes explain drought tolerance responses in winter wheat. PLoS ONE, 2021, 16, e0242472.	1.1	14
16	Comparative Performance of High-Yielding European Wheat Cultivars Under Contrasting Mediterranean Conditions. Frontiers in Plant Science, 2021, 12, 687622.	1.7	8
17	Down to Earth Podcast With Stephanie Tumampos: Reflections on the First Season of the Series [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 171-173.	4.9	0
18	Machine Learning Matching of Sentinel-2 and GPS Combine Harvester Data to Estimate Within-Field Wheat Grain Yield. , 2021, , .		0

#	Article	IF	Citations
19	The Women in Engineering International Leadership Conference [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 271-282.	4.9	0
20	Remote sensing techniques and stable isotopes as phenotyping tools to assess wheat yield performance: Effects of growing temperature and vernalization. Plant Science, 2020, 295, 110281.	1.7	18
21	Assessing durum wheat ear and leaf metabolomes in the field through hyperspectral data. Plant Journal, 2020, 102, 615-630.	2.8	35
22	Women in GRSS Activities at IEEE M2GARSS 2020 [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 135-138.	4.9	0
23	Estimating Wheat Grain Yield Using Sentinel-2 Imagery and Exploring Topographic Features and Rainfall Effects on Wheat Performance in Navarre, Spain. Remote Sensing, 2020, 12, 2278.	1.8	14
24	Leaf versus whole-canopy remote sensing methodologies for crop monitoring under conservation agriculture: a case of study with maize in Zimbabwe. Scientific Reports, 2020, 10, 16008.	1.6	5
25	Development of novel technological approaches for a reliable crop characterization under changing environmental conditions. NIR News, 2020, 31, 14-19.	1.6	2
26	Automatic wheat ear counting using machine learning based on RGB UAV imagery. Plant Journal, 2020, 103, 1603-1613.	2.8	39
27	Remote Sensing for Precision Agriculture: Sentinel-2 Improved Features and Applications. Agronomy, 2020, 10, 641.	1.3	186
28	Sentinel-2 Responsiveness to Fertilization Gradients in Wheat at Field Level in CÃ³rdoba Province, Argentina. , 2020, , .		1
29	From WinGRSS to IDEA: Thinking More Broadly About Diversity and Inclusion [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 158-159.	4.9	0
30	Metabolome Profiling Supports the Key Role of the Spike in Wheat Yield Performance. Cells, 2020, 9, 1025.	1.8	20
31	Multi-Scale Remote Sensing for Fall Armyworm Monitoring and Early Warning Systems. , 2020, , .		2
32	Adapting to COVID-19 Challenges and Moving Forward With GRSS Diversity and Inclusion at IGARSS 2020 [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 104-104.	4.9	0
33	Open-Source Software for Crop Physiological Assessments Using High Resolution RGB Images. , 2020, , .		0
34	Implications of Very Deep Super-Resolution (VDSR) on RGB imagery for grain yield assessment in wheat. , 2020, , .		0
35	Recent GRSS WIE Activities [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 100-102.	4.9	0
36	Dr. Marta Yebra: Balancing a Thriving Career and a Rich Personal Life [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 182-184.	4.9	1

#	Article	IF	Citations
37	Morpho-physiological variability of Pinus nigra populations reveals climate-driven local adaptation but weak water use differentiation. Environmental and Experimental Botany, 2019, 166, 103828.	2.0	15
38	Weather and trade-offs between growth and reproduction regulate fruit production in European forests. Agricultural and Forest Meteorology, 2019, 279, 107711.	1.9	17
39	Using unmanned aerial vehicleâ€based multispectral, RGB and thermal imagery for phenotyping of forest genetic trials: A case study in <scp>Pinus halepensis</scp>. Annals of Applied Biology, 2019, 174, 262-276.	1.3	29
40	UAV and Ground Image-Based Phenotyping: A Proof of Concept with Durum Wheat. Remote Sensing, 2019, 11, 1244.	1.8	76
41	Evaluating Maize Genotype Performance under Low Nitrogen Conditions Using RGB UAV Phenotyping Techniques. Sensors, 2019, 19, 1815.	2.1	54
42	Automatic Wheat Ear Counting Using Thermal Imagery. Remote Sensing, 2019, 11, 751.	1.8	33
43	Low-cost assessment of grain yield in durum wheat using RGB images. European Journal of Agronomy, 2019, 105, 146-156.	1.9	58
44	Phenotyping: New Crop Breeding Frontier. , 2019, , 493-503.		0
45	Cereal Crop Ear Counting in Field Conditions Using Zenithal RGB Images. Journal of Visualized Experiments, 2019, , .	0.2	3
46	Women in GRSS Activities at IEEE IGARSS 2019 in Yokohama, Japan [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 57-59.	4.9	0
47	Women Taking on Roles in Summer and Regional GRSS Activities [Women in GRSS]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 123-128.	4.9	1
48	Identification of traits associated with barley yield performance using contrasting nitrogen fertilizations and genotypes. Plant Science, 2019, 282, 83-94.	1.7	7
49	Wheat ear temperature estimation using a thermal radiometric camera. , 2019, , .		0
50	Wheat ear counting in-field conditions: high throughput and low-cost approach using RGB images. Plant Methods, 2018, 14, 22.	1.9	114
51	Translating High-Throughput Phenotyping into Genetic Gain. Trends in Plant Science, 2018, 23, 451-466.	4.3	525
52	Challenges and Bottlenecks in VAV Phenotyping. , 2018, , .		1
53	Phenotyping Conservation Agriculture Management Effects on Ground and Aerial Remote Sensing Assessments of Maize Hybrid Performance in Zimbabwe. Proceedings (mdpi), 2018, 2, 367.	0.2	1
54	Post-green revolution genetic advance in durum wheat: The case of Spain. Field Crops Research, 2018, 228, 158-169.	2.3	49

#	Article	IF	Citations
55	Breeding to adapt agriculture to climate change: affordable phenotyping solutions. Current Opinion in Plant Biology, 2018, 45, 237-247.	3.5	100
56	Measuring the dynamic photosynthome. Annals of Botany, 2018, 122, 207-220.	1.4	81
57	Evaluating the Performance of Different Commercial and Pre-Commercial Maize Varieties under Low Nitrogen Conditions Using Affordable Phenotyping Tools. Proceedings (mdpi), 2018, 2, .	0.2	2
58	Phenotyping Conservation Agriculture Management Effects on Ground and Aerial Remote Sensing Assessments of Maize Hybrids Performance in Zimbabwe. Remote Sensing, 2018, 10, 349.	1.8	37
59	Leaf dorsoventrality as a paramount factor determining spectral performance in field-grown wheat under contrasting water regimes. Journal of Experimental Botany, 2018, 69, 3081-3094.	2.4	9
60	Durum wheat ears perform better than the flag leaves under water stress: Gene expression and physiological evidence. Environmental and Experimental Botany, 2018, 153, 271-285.	2.0	52
61	Phenotyping: New Crop Breeding Frontier. , 2018, , 1-11.		3
62	Automatic wheat ear counting in-field conditions: simulation and implication of lower resolution images. , 2018, , .		3
63	Comparative canopy cover estimation using RGB images from UAV and ground. , 2018, , .		6
64	Effect of observation scale on remote sensing based estimates of evapotranspiration in a semi-arid row cropped orchard environment. Precision Agriculture, 2017, 18, 762-778.	3.1	12
65	Comparative UAV and Field Phenotyping to Assess Yield and Nitrogen Use Efficiency in Hybrid and Conventional Barley. Frontiers in Plant Science, 2017, 8, 1733.	1.7	136
66	Comparative Performance of Ground vs. Aerially Assessed RGB and Multispectral Indices for Early-Growth Evaluation of Maize Performance under Phosphorus Fertilization. Frontiers in Plant Science, 2017, 8, 2004.	1.7	80
67	Visible ozone-like injury, defoliation, and mortality in two Pinus uncinata stands in the Catalan Pyrenees (NE Spain). European Journal of Forest Research, 2016, 135, 687-696.	1.1	8
68	Linking OMI HCHO and MODIS PRI satellite data with BVOCS emissions in NE Spain. , 2015, , .		0
69	Grain yield losses in yellow-rusted durum wheat estimated using digital and conventional parameters under field conditions. Crop Journal, 2015, 3, 200-210.	2.3	56
70	RGB picture vegetation indexes for High-Throughput Phenotyping Platforms (HTPPs). Proceedings of SPIE, 2015, , .	0.8	13
71	Remote sensing of atmospheric biogenic volatile organic compounds (BVOCs) via satellite-based formaldehyde vertical column assessments. International Journal of Remote Sensing, 2014, 35, 7519-7542.	1.3	15
72	Using Pinus uncinata to monitor tropospheric ozone in the Pyrenees. Ecological Indicators, 2014, 36, 262-271.	2.6	11

#	Article	IF	Citations
73	Human Migration, Protected Areas, and Conservation Outreach in Tanzania. Conservation Biology, 2014, 28, 841-850.	2.4	25
74	The Synergy of the 0.05^circ ($sim5bsphbox{km}$) AVHRR Long-Term Data Record (LTDR) and Landsat TM Archive to Map Large Fires in the North American Boreal Region From 1984 to 1998. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1157-1166.	2.3	6
75	Emixustat hydrochloride. Drugs of the Future, 2014, 39, 615.	0.0	1
76	Cadazolid. Drugs of the Future, 2014, 39, 325.	0.0	0
77	Using topographic and remotely sensed variables to assess ozone injury to conifers in the Sierra Nevada (USA) and Catalonia (Spain). Remote Sensing of Environment, 2013, 139, 138-148.	4.6	9
78	Applications of hyperspectral remote sensing and GIS for assessing forest health and air pollution. , 2012, , .		7
79	Improving assessments of tropospheric ozone injury to Mediterranean montane conifer forests in California (USA) and Catalonia (Spain) with GIS models related to plant water relations. Atmospheric Environment, 2012, 62, 41-49.	1.9	4
80	Remote sensing of biological soil crust under simulated climate change manipulations in the Mojave Desert. Remote Sensing of Environment, 2009, 113, 317-328.	4.6	66
81	Remote Sensing of Tropospheric Ozone Impacts on Bio-Indicator Species Using Imaging Spectroscopy. , 2006, , .		0
82	Mapping Invasive Aquatic Vegetation in the Sacramento-San Joaquin Delta using Hyperspectral Imagery. Environmental Monitoring and Assessment, 2006, 121, 47-64.	1.3	74
83	Survival analysis of a neotropical rainforest using multitemporal satellite imagery. Remote Sensing of Environment, 2005, 96, 202-211.	4.6	28
84	Spectral sensing of foliar water conditions in two co-occurring conifer species: Pinus edulis and Juniperus monosperma. Remote Sensing of Environment, 2005, 96, 108-118.	4.6	166
85	Remotely sensed estimates of crop water demand. , 2004, 5544, 230.		12
86	Quantification of Pinus pinea L. Pinecone Productivity Using Machine Learning of UAV and Field Images. , 0, , .		2