Aditya Singh

List of Publications by Year
in descending order

52 papers	2,134 citations	279798 23 h-index	243625 44 g-index
55 all docs	55 docs citations	55 times ranked	3091 citing authors

#	Article	IF	Citations
1	Spectroscopic determination of leaf morphological and biochemical traits for northern temperate and boreal tree species. Ecological Applications, 2014, 24, 1651-1669.	3.8	273
2	Imaging spectroscopy algorithms for mapping canopy foliar chemical and morphological traits and their uncertainties. Ecological Applications, 2015, 25, 2180-2197.	3.8	195
3	Urban heat island impacts on plant phenology: intra-urban variability and response to land cover. Environmental Research Letters, 2016, 11, 054023.	5.2	148
4	Remotely estimating photosynthetic capacity, and its response to temperature, in vegetation canopies using imaging spectroscopy. Remote Sensing of Environment, 2015, 167, 78-87.	11.0	137
5	Associations of Leaf Spectra with Genetic and Phylogenetic Variation in Oaks: Prospects for Remote Detection of Biodiversity. Remote Sensing, 2016, 8, 221.	4.0	132
6	Foliar functional traits from imaging spectroscopy across biomes in eastern North America. New Phytologist, 2020, 228, 494-511.	7.3	109
7	A general Landsat model to predict canopy defoliation in broadleaf deciduous forests. Remote Sensing of Environment, 2012, 119, 255-265.	11.0	101
8	Mapping foliar functional traits and their uncertainties across three years in a grassland experiment. Remote Sensing of Environment, 2019, 221, 405-416.	11.0	89
9	Spectroscopic determination of ecologically relevant plant secondary metabolites. Methods in Ecology and Evolution, 2016, 7, 1402-1412.	5.2	88
10	Imaging spectroscopy links aspen genotype with below-ground processes at landscape scales. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130194.	4.0	73
11	Leaf reflectance spectra capture the evolutionary history of seed plants. New Phytologist, 2020, 228, 485-493.	7.3	72
12	Use of MODIS NDVI to evaluate changing latitudinal gradients of rangeland phenology in Sudano-Sahelian West Africa. Remote Sensing of Environment, 2011, 115, 3367-3376.	11.0	58
13	Mapping Species Composition of Forests and Tree Plantations in Northeastern Costa Rica with an Integration of Hyperspectral and Multitemporal Landsat Imagery. Remote Sensing, 2015, 7, 5660-5696.	4.0	57
14	Integrating Spectroscopy with Potato Disease Management. Plant Disease, 2018, 102, 2233-2240.	1.4	45
15	Leaf and Canopy Level Detection of Fusarium Virguliforme (Sudden Death Syndrome) in Soybean. Remote Sensing, 2018, 10, 426.	4.0	45
16	A MODIS approach to predicting stream water quality in Wisconsin. Remote Sensing of Environment, 2013, 128, 74-86.	11.0	44
17	Making inference with messy (citizen science) data: when are data accurate enough and how can they be improved?. Ecological Applications, 2019, 29, e01849.	3.8	42
18	A remote sensing derived data set of 100 million individual tree crowns for the National Ecological Observatory Network. ELife, 2021, 10, .	6.0	38

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19	Biophysical Variability and Pastoral Rights to Resources: West African Transhumance Revisited. Human Ecology, 2014, 42, 351-365.	1.4	37
20	Detection of gradients of forest composition in an urban area using imaging spectroscopy. Remote Sensing of Environment, 2015, 167, 168-180.	11.0	34
21	Using imaging spectroscopy to detect variation in terrestrial ecosystem productivity across a waterâ€stressed landscape. Ecological Applications, 2018, 28, 1313-1324.	3.8	32
22	Evaluation of suitable tiger habitat in Chandoli National Park, India, using spatial modelling of environmental variables. Ecological Modelling, 2009, 220, 3621-3629.	2.5	29
23	Exploiting tree shadows on snow for estimating forest basal area using Landsat data. Remote Sensing of Environment, 2012, 121, 69-79.	11.0	27
24	Refining logistic regression models for wildlife habitat suitability modelingâ€"A case study with muntjak and goral in the Central Himalayas, India. Ecological Modelling, 2011, 222, 1354-1366.	2.5	23
25	Emissions of forest floor and mineral soil carbon, nitrogen and mercury pools and relationships with fire severity for the Pagami Creek Fire in the Boreal Forest of northern Minnesota. International Journal of Wildland Fire, 2017, 26, 296.	2.4	19
26	A benchmark dataset for canopy crown detection and delineation in co-registered airborne RGB, LiDAR and hyperspectral imagery from the National Ecological Observation Network. PLoS Computational Biology, 2021, 17, e1009180.	3.2	19
27	Patterns of space and habitat use by northern bobwhites in South Florida, USA. European Journal of Wildlife Research, 2011, 57, 15-26.	1.4	16
28	Relationship of a Landsat cumulative disturbance index to canopy nitrogen and forest structure. Remote Sensing of Environment, 2012, 118, 40-49.	11.0	16
29	Evidence for Compensatory Photosynthetic and Yield Response of Soybeans to Aphid Herbivory. Journal of Economic Entomology, 2016, 109, 1177-1187.	1.8	13
30	Testing the efficacy of hyperspectral (AVIRIS-NG), multispectral (Sentinel-2) and radar (Sentinel-1) remote sensing images to detect native and invasive non-native trees. Biological Invasions, 2021, 23, 2863-2879.	2.4	13
31	From pest data to abundanceâ€based risk maps combining ecoâ€physiological knowledge, weather, and habitat variability. Ecological Applications, 2017, 27, 575-588.	3.8	12
32	A low-cost and open-source platform for automated imaging. Plant Methods, 2019, 15, 6.	4.3	12
33	Effects of conversion harvests on light regimes in a southern pine ecosystem in transition from intensively managed plantations to uneven-aged stands. Forest Ecology and Management, 2019, 432, 140-149.	3.2	11
34	Snapshot Wisconsin: networking community scientists and remote sensing to improve ecological monitoring and management. Ecological Applications, 2021, 31, e02436.	3.8	11
35	Variation in vegetation cover and livestock mobility needs in Sahelian West Africa. Journal of Land Use Science, 2016, 11, 76-95.	2.2	10
36	Phenomics-Assisted Selection for Herbage Accumulation in Alfalfa (Medicago sativa L.). Frontiers in Plant Science, 2021, 12, 756768.	3.6	10

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37	Differences in space use and habitat selection between captiveâ€bred and wildâ€born houbara bustards in <scp>S</scp>audi <scp>A</scp>rabia: results from a longâ€term reintroduction program. Journal of Zoology, 2013, 289, 251-261.	1.7	8
38	Use of insect exclusion cages in soybean creates an altered microclimate and differential crop response. Agricultural and Forest Meteorology, 2015, 208, 50-61.	4.8	7
39	Inferring Species Diversity and Variability over Climatic Gradient with Spectral Diversity Metrics. Remote Sensing, 2020, 12, 2130.	4.0	7
40	Trail camera networks provide insights into satellite-derived phenology for ecological studies. International Journal of Applied Earth Observation and Geoinformation, 2021, 97, 102291.	2.8	7
41	Does nest-site selection influence bobwhite nesting success in south Florida?. Wildlife Research, 2010, 37, 489.	1.4	3
42	Cost Estimates of Producing Pink Guava in South Florida. Edis, 2018, 2018, .	0.1	3
43	Artificial Intelligence (AI) for Crop Yield Forecasting. Edis, 2022, 2022, .	0.1	2
44	Remote sensing spectroscopy to discriminate plant functional types and physiological function. , 2017, , .		1
45	RandCrowns: A Quantitative Metric for Imprecisely Labeled Tree Crown Delineation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11229-11239.	4.9	1
46	Applications of Unmanned Aerial Systems in Agricultural Operation Management: Part III: Best Practices for Efficient Aerial Surveying. Edis, 2021, 2021, .	0.1	0
47	Applications of Unmanned Aerial Systems in Agricultural Operation Management: Part II: Platforms and Payloads. Edis, 2021, 2021, .	0.1	0
48	Finger Lime: An Alternative Crop with Great Potential in South Florida. Edis, 2018, 2018, .	0.1	0
49	Cost and Return Estimates of a Mamey Sapote Grove in South Florida, 2017. Edis, 2018, 2018, .	0.1	0
50	Sample Productivity and Cost Estimates of Producing Longan (Dimocarpus longan Lour.) in South Florida.. Edis, 2019, 2019, .	0.1	0
51	Cost Estimates of Producing Sugar Apple (Annona squamosa L.) in South Florida. Edis, 2019, 2019, .	0.1	0
52	Applications of Unmanned Aerial Systems in Agricultural Operation Management: Part I: Overview. Edis, 2020, 2020, .	0.1	0