Maxim Shoshany

List of Publications by Year
in descending order

55	1,484	361296	330025
papers	citations	20	37
		h-index	g-index

55	55	55	1911
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of slope aspect on Mediterranean woody formations: Comparison of a semiarid and an arid site in Israel. Ecological Research, 2001, 16, 335-345.	0.7	183
2	Assessing fire risk using Monte Carlo simulations of fire spread. Forest Ecology and Management, 2009, 257, 370-377.	1.4	130
3	Combining leaf physiology, hyperspectral imaging and partial least squares-regression (PLS-R) for grapevine water status assessment. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 109, 88-97.	4.9	126
4	Vegetation establishment on the southern Israeli coastal sand dunes between the years 1965 and 1999. Landscape and Urban Planning, 2004, 67, 141-156.	3.4	89
5	Land-use and population density changes in Israelâ€"1950 to 1990: analysis of regional and local trends. Land Use Policy, 2002, 19, 123-133.	2.5	87
6	Satellite remote sensing of natural Mediterranean vegetation: a review within an ecological context. Progress in Physical Geography, 2000, 24, 153-178.	1.4	85
7	Multidate adaptive unmixing and its application to analysis of ecosystem transitions along a climatic gradient. Remote Sensing of Environment, 2002, 82, 5-20.	4.6	62
8	A national knowledge-based crop recognition in Mediterranean environment. International Journal of Applied Earth Observation and Geoinformation, 2002, 4, 75-87.	1.4	53
9	Monitoring of agricultural soil degradation by remote-sensing methods: a review. International Journal of Remote Sensing, 2013, 34, 6152-6181.	1.3	50
10	Title is missing!. Plant Ecology, 2001, 157, 173-181.	0.7	49
11	Polarimetric Radar Vegetation Index for Biomass Estimation in Desert Fringe Ecosystems. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7102-7108.	2.7	45
12	Post-fire analysis of pre-fire mapping of fire-risk: A recent case study from Mt. Carmel (Israel). Forest Ecology and Management, 2011, 262, 1184-1188.	1.4	43
13	Landscape fragmentation and soil cover changes on south- and north-facing slopes during ecosystems recovery: an analysis from multi-date air photographs. Geomorphology, 2002, 45, 3-20.	1.1	41
14	Invasion rate of the alien species Acacia saligna within coastal sand dune habitats in Israel. Israel Journal of Plant Sciences, 2004, 52, 115-124.	0.3	39
15	Roughnessâ€"Reflectance relationship of bare desert terrain: An empirical study. Remote Sensing of Environment, 1993, 45, 15-27.	4.6	33
16	Mediterranean shrublands biomass estimation using Sentinel-1 and Sentinel-2. , 2016, , .		31
17	Spatial and Temporal Monitoring of Pasture Ecological Quality: Sentinel-2-Based Estimation of Crude Protein and Neutral Detergent Fiber Contents. Remote Sensing, 2019, 11, 799.	1.8	31
18	Multi-scale analysis of intrinsic soil factors from SAR-based mapping of drying rates. Remote Sensing of Environment, 2004, 92, 233-246.	4.6	30

#	Article	IF	Citations
19	Mapping shrubland biomass along Mediterranean climatic gradients: The synergy of rainfall-based and NDVI-based models. International Journal of Remote Sensing, 2011, 32, 9497-9508.	1.3	24
20	A Stepwise Analytical Projected Gradient Descent Search for Hyperspectral Unmixing and Its Code Vectorization. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4925-4943.	2.7	22
21	Satellite remote sensing of natural Mediterranean vegetation: a review within an ecological context. Progress in Physical Geography, 2000, 24, 153-178.	1.4	21
22	Application of spectral features' ratios for improving classification in partially calibrated hyperspectral imagery: a case study of separating Mediterranean vegetation species. Journal of Real-Time Image Processing, 2006, 1, 143-152.	2.2	17
23	Combining Analytical Hierarchy Process and Agglomerative Hierarchical Clustering in Search of Expert Consensus in Green Corridors Development Management. Environmental Management, 2013, 52, 123-135.	1.2	17
24	Spectral indicators for salinity effects in crops: a comparison of a new green indigo ratio with existing indices. Remote Sensing Letters, 2011, 2, 289-298.	0.6	15
25	An Iterative Search in End-Member Fraction Space for Spectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 706-709.	1.4	14
26	Remote Sensing of Shrubland Drying in the South-East Mediterranean, 1995–2010: Water-Use-Efficiency-Based Mapping of Biomass Change. Remote Sensing, 2015, 7, 2283-2301.	1.8	14
27	Assessing mutuality of change in soil and vegetation patch pattern characteristics by means of Cellular Automata simulation. Geomorphology, 2006, 77, 35-46.	1.1	12
28	Assessment of plant species distribution and diversity along a climatic gradient from Mediterranean woodlands to semi-arid shrublands. GIScience and Remote Sensing, 2021, 58, 929-953.	2.4	12
29	Spatial–spectral processing strategies for detection of salinity effects in cauliflower, aubergine and kohlrabi. Biosystems Engineering, 2013, 114, 384-396.	1.9	11
30	Radar polarization and ecological pattern properties across Mediterranean-to-arid transition zone. Remote Sensing of Environment, 2017, 200, 368-377.	4.6	10
31	Generalising urban runoff and street network density relationship: A hydrological and remote-sensing case study in Israel. Urban Water Journal, 2012, 9, 189-197.	1.0	9
32	Two Phase Temporal-Spatial Autocorrelation of Urban Patterns: Revealing Focal Areas of Re-Urbanization in Tel Aviv-Yafo. Applied Spatial Analysis and Policy, 2012, 5, 137-155.	1.0	8
33	Residential and Nonresidential Construction Initiations in Tel Aviv-Yafo: Autocorrelation Analysis of Urban Structure Evolution. Environment and Planning B: Planning and Design, 2008, 35, 535-551.	1.7	7
34	Can spatial patterns along climatic gradients predict ecosystem responses to climate change? Experimenting with reaction-diffusion simulations. PLoS ONE, 2017, 12, e0174942.	1.1	7
35	Mean shift-based clustering of remotely sensed data with agricultural and land-cover applications. International Journal of Remote Sensing, 2013, 34, 6037-6053.	1.3	6
36	Relationships between soil spectral and chemical properties along a climatic gradient in the Judean desert. Arid Land Research and Management, 2016, 30, 123-137.	0.6	6

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37	Red-edge ratio Normalized Vegetation Index for remote estimation of green biomass. , 2016, , .		5
38	The response of shrubland patterns' properties to rainfall changes and to the catastrophic removal of plants in semi-arid regions predicted by Reaction–Diffusion simulations. Ecological Informatics, 2016, 32, 156-166.	2.3	5
39	Spatially adaptive hyperspectral unmixing through endmembers analytical localization based on sums of anisotropic 2D Gaussians. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 185-207.	4.9	5
40	Evolution of clusters in dynamic point patterns: with a case study of Ants' simulation. International Journal of Geographical Information Science, 2007, 21, 777-797.	2.2	4
41	An evolutionary patch pattern approach for texture discrimination. Pattern Recognition, 2008, 41, 2327-2336.	5.1	4
42	Night-Time Ground Hyperspectral Imaging for Urban-Scale Remote Sensing of Ambient PM. I. Aerosol Optical Thickness Acquisition. Aerosol Science and Technology, 2012, 46, 1119-1128.	1.5	4
43	Biomass estimation of crops and natural shrubs by combining red-edge ratio with normalized difference vegetation index. Journal of Applied Remote Sensing, 2022, 16, .	0.6	4
44	Wavelet Decomposition for Reducing Flux Density Effects on Hyperspectral Classification. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 38-41.	1.4	3
45	Overcast versus clear-sky remote sensing: comparing surface reflectance estimates. International Journal of Remote Sensing, 2019, 40, 6737-6751.	1.3	3
46	Night-Time Ground Hyperspectral Imaging for Urban-Scale Remote Sensing of Ambient PM—Modal Concentrations Retrieval. Environmental Science & Technology, 2014, 48, 1787-1794.	4.6	2
47	An Improved Radiative Transfer Model for Polarimetric Backscattering from Agricultural Fields at C- and X-Bands. Journal of Electromagnetic Engineering and Science, 2021, 21, 104-110.	0.7	2
48	Man-Landscape Relationships in Mediterranean Areas: A Study of Landscape Changes in the Mount Carmel. , 2005, , 95-104.		1
49	A step ahead of time: design, allocation and preservation of private open space in the 1920s––the case of a garden suburb in Israel. Geo Journal, 2006, 67, 57-69.	1.7	1
50	Remote Sensing for sustainable agriculture. International Journal of Remote Sensing, 2013, 34, 6021-6023.	1.3	1
51	Ground Truth Simulation for Deep Learning Classification of Mid-Resolution Venus Images Via Unmixing of High-Resolution Hyperspectral Fenix Data. , 2019, , .		1
52	Improving hyperspectral classification based on wavelet decomposition 1Ophir Almog. , 2007, , .		0
53	Spatially adaptive hyperspectral unmixing based on sums of 2D Gaussians for modelling endmember fraction surfaces. , 2015, , .		0
54	Wavelet decomposition for reducing flux density effect on hyperspectral classification. , 2009, , .		0

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55	Multi Seasonal Deep Learning Classification of Venus Images. , 2020, , .		0