Mihai A Tanase

List of Publications by Year
in descending order

59 papers	1,720 citations	218592 26 h-index	276775 41 g-index
60 all docs	60 docs citations	60 times ranked	2057 citing authors

#	Article	IF	Citations
1	The Soil Moisture Active Passive Experiments (SMAPEx): Toward Soil Moisture Retrieval From the SMAP Mission. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 490-507.	2.7	154
2	Burned area detection and mapping using Sentinel-1 backscatter coefficient and thermal anomalies. Remote Sensing of Environment, 2019, 233, 111345.	4.6	87
3	Sensitivity of X-, C-, and L-Band SAR Backscatter to Burn Severity in Mediterranean Pine Forests. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3663-3675.	2.7	86
4	Mortality and recruitment of fire-tolerant eucalypts as influenced by wildfire severity and recent prescribed fire. Forest Ecology and Management, 2016, 380, 107-117.	1.4	86
5	Sensitivity of SAR data to post-fire forest regrowth in Mediterranean and boreal forests. Remote Sensing of Environment, 2011, 115, 2075-2085.	4.6	77
6	Soil moisture limitations on monitoring boreal forest regrowth using spaceborne L-band SAR data. Remote Sensing of Environment, 2011, 115, 227-232.	4.6	76
7	Evaluation of Spectral Indices for Assessing Fire Severity in Australian Temperate Forests. Remote Sensing, 2018, 10, 1680.	1.8	64
8	Properties of X-, C- and L-band repeat-pass interferometric SAR coherence in Mediterranean pine forests affected by fires. Remote Sensing of Environment, 2010, 114, 2182-2194.	4.6	62
9	Evaluation of IEM, Dubois, and Oh Radar Backscatter Models Using Airborne L-Band SAR. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4966-4979.	2.7	62
10	Airborne multi-temporal L-band polarimetric SAR data for biomass estimation in semi-arid forests. Remote Sensing of Environment, 2014, 145, 93-104.	4.6	52
11	Radar Burn Ratio for fire severity estimation at canopy level: An example for temperate forests. Remote Sensing of Environment, 2015, 170, 14-31.	4.6	52
12	Detection of windthrows and insect outbreaks by L-band SAR: A case study in the Bavarian Forest National Park. Remote Sensing of Environment, 2018, 209, 700-711.	4.6	52
13	Forest Fire Severity Assessment Using ALS Data in a Mediterranean Environment. Remote Sensing, 2014, 6, 4240-4265.	1.8	46
14	CNN-based burned area mapping using radar and optical data. Remote Sensing of Environment, 2021, 260, 112468.	4.6	46
15	Structural diversity underpins carbon storage in Australian temperate forests. Global Ecology and Biogeography, 2020, 29, 789-802.	2.7	45
16	Estimating burn severity at the regional level using optically based indices. Canadian Journal of Forest Research, 2011, 41, 863-872.	0.8	42
17	Polarimetric Properties of Burned Forest Areas at C- and L-Band. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 267-276.	2.3	39
18	Estimation of soil surface roughness of agricultural soils using airborne LiDAR. Remote Sensing of Environment, 2014, 140, 107-117.	4.6	39

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19	Validation of Canopy Height Profile methodology for small-footprint full-waveform airborne LiDAR data in a discontinuous canopy environment. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 104, 144-157.	4.9	39
20	Fire severity estimation from space: a comparison of active and passive sensors and their synergy for different forest types. International Journal of Wildland Fire, 2015, 24, 1062.	1.0	37
21	Soil Moisture Retrieval in Agricultural Fields Using Adaptive Model-Based Polarimetric Decomposition of SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4445-4460.	2.7	35
22	Burned Area Detection and Mapping: Intercomparison of Sentinel-1 and Sentinel-2 Based Algorithms over Tropical Africa. Remote Sensing, 2020, 12, 334.	1.8	35
23	Remote sensing for the Spanish forests in the 21st century: a review of advances, needs, and opportunities. Forest Systems, 2019, 28, eR001.	0.1	34
24	High-severity wildfires in temperate Australian forests have increased in extent and aggregation in recent decades. PLoS ONE, 2020, 15, e0242484.	1.1	32
25	TerraSAR-X Data for Burn Severity Evaluation in Mediterranean Forests on Sloped Terrain. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 917-929.	2.7	30
26	Synthetic aperture radar sensitivity to forest changes: A simulations-based study for the Romanian forests. Science of the Total Environment, 2019, 689, 1104-1114.	3.9	28
27	Remote sensing of Î²â€diversity: Evidence from plant communities in a semiâ€natural system. Applied Vegetation Science, 2019, 22, 13-26.	0.9	23
28	Sensitivity of L-Band Radar Backscatter to Forest Biomass in Semiarid Environments: A Comparative Analysis of Parametric and Nonparametric Models. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4671-4685.	2.7	22
29	Estimating prescribed fire impacts and post-fire tree survival in eucalyptus forests of Western Australia with L-band SAR data. Remote Sensing of Environment, 2019, 224, 133-144.	4.6	21
30	Detecting and Quantifying Forest Change: The Potential of Existing C- and X-Band Radar Datasets. PLoS ONE, 2015, 10, e0131079.	1.1	20
31	An Extension of the Alpha Approximation Method for Soil Moisture Estimation Using Time-Series SAR Data Over Bare Soil Surfaces. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1328-1332.	1.4	20
32	Monitoring live fuel moisture in semiarid environments using L-band radar data. International Journal of Wildland Fire, 2015, 24, 560.	1.0	19
33	An Examination of the Effects of Spatial Resolution and Image Analysis Technique on Indirect Fuel Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2008, 1, 220-229.	2.3	15
34	Forest Biomass Estimation at High Spatial Resolution: Radar Versus Lidar Sensors. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 711-715.	1.4	15
35	The Polarimetric L-Band Imaging Synthetic Aperture Radar (PLIS): Description, Calibration, and Cross-Validation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4513-4525.	2.3	15
36	Shifts in Forest Species Composition and Abundance under Climate Change Scenarios in Southern Carpathian Romanian Temperate Forests. Forests, 2021, 12, 1434.	0.9	15

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37	Fire, drought and productivity as drivers of dead wood biomass in eucalypt forests of south-eastern Australia. Forest Ecology and Management, 2021, 482, 118859.	1.4	14
38	Effective LAI and CHP of a Single Tree From Small-Footprint Full-Waveform LiDAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1634-1638.	1.4	13
39	Estimating forest stand structure attributes from terrestrial laser scans. Science of the Total Environment, 2019, 691, 205-215.	3.9	12
40	Investigating the Impact of Digital Elevation Models on Sentinel-1 Backscatter and Coherence Observations. Remote Sensing, 2020, 12, 3016.	1.8	11
41	Temporal Decorrelation of C-Band Backscatter Coefficient in Mediterranean Burned Areas. Remote Sensing, 2019, 11, 2661.	1.8	8
42	Retrieval of Forest Structural Parameters From Terrestrial Laser Scanning: A Romanian Case Study. Forests, 2020, 11, 392.	0.9	6
43	Methods for tree cover extraction from high resolution orthophotos and airborne LiDAR scanning in Spanish dehesas. Revista De Teledeteccion, 2019, , 17.	0.6	6
44	Fire-severity classification across temperate Australian forests: random forests versus spectral index thresholding. , 2019, , .		6
45	Estimation of forest biomass from L-band polarimetric decomposition components. , 2013, , .		4
46	Growing Stock Volume Retrieval from Single and Multi-Frequency Radar Backscatter. Forests, 2021, 12, 944.	0.9	4
47	Preliminary leaf area index estimates from airborne small footprint full-waveform LiDAR data. , 2013, , .		3
48	Forest biomass estimation using radar and lidar synergies. , 2013, , .		3
49	Deep Neural Networks for Forest Growing Stock Volume Retrieval: A Comparative Analysis for L-band SAR data. , 2020, , .		3
50	L-band SAR sensitivity to prescribed burning effects in eucalypt forests of Western Australia. , 2018, , .		2
51	Insights into burned areas detection from Sentinel-1 data and locally adaptive algorithms. , 2018, , .		2
52	Are High Severity Fires Increasing in Southern Australia?. , 2020, , .		1
53	Temporal backscattering coefficient decorrelation in burned areas. , 2018, , .		0
54	Optimum Sentinel-1 Pixel Spacing for Burned Area Mapping. , 2020, , .		0

#	Article	IF	Citations
55	Evaluation of backscatter coefficient temporal indices for burned area mapping. , 2019, , .		0
56	Title is missing!. , 2020, 15, e0242484.		0
57	Title is missing!. , 2020, 15, e0242484.		0
58	Title is missing!. , 2020, 15, e0242484.		0
59	Title is missing!. , 2020, 15, e0242484.		0