

Nicola Falco

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

888
citations

687220

13
h-index

501076

28
g-index

49
all docs

49
docs citations

49
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	The East River, Colorado, Watershed: A Mountainous Community Testbed for Improving Predictive Understanding of Multiscale Hydrological and Biogeochemical Dynamics. <i>Vadose Zone Journal</i> , 2018, 17, 1-25.	1.3	115
2	Land Cover Change Detection Techniques: Very-high-resolution optical images: A review. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2022, 10, 44-63.	4.9	101
3	Hyperspectral Image Classification With Rotation Random Forest Via KPCA. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1601-1609.	2.3	93
4	Change Detection in VHR Images Based on Morphological Attribute Profiles. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 636-640.	1.4	92
5	Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 6223-6240.	2.7	81
6	A Study on the Effectiveness of Different Independent Component Analysis Algorithms for Hyperspectral Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2183-2199.	2.3	47
7	Automatic Attribute Profiles. <i>IEEE Transactions on Image Processing</i> , 2017, 26, 1859-1872.	6.0	35
8	Integrating airborne remote sensing and field campaigns for ecology and Earth system science. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1492-1508.	2.2	33
9	Investigating Microtopographic and Soil Controls on a Mountainous Meadow Plant Community Using High-Resolution Remote Sensing and Surface Geophysical Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1618-1636.	1.3	23
10	A toolbox for unsupervised change detection analysis. <i>International Journal of Remote Sensing</i> , 2016, 37, 1505-1526.	1.3	20
11	Class-Separation-Based Rotation Forest for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 584-588.	1.4	20
12	Satellite-derived foresummer drought sensitivity of plant productivity in Rocky Mountain headwater catchments: spatial heterogeneity and geological-geomorphological control. <i>Environmental Research Letters</i> , 2020, 15, 084018.	2.2	20
13	Watershed zonation through hillslope clustering for tractably quantifying above- and below-ground watershed heterogeneity and functions. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 429-444.	1.9	19
14	Influence of soil heterogeneity on soybean plant development and crop yield evaluated using time-series of UAV and ground-based geophysical imagery. <i>Scientific Reports</i> , 2021, 11, 7046.	1.6	18
15	Remote Sensing-Informed Zonation for Understanding Snow, Plant and Soil Moisture Dynamics within a Mountain Ecosystem. <i>Remote Sensing</i> , 2020, 12, 2733.	1.8	15
16	Estimation of soil classes and their relationship to grapevine vigor in a Bordeaux vineyard: advancing the practical joint use of electromagnetic induction (EMI) and NDVI datasets for precision viticulture. <i>Precision Agriculture</i> , 2021, 22, 1353-1376.	3.1	15
17	Surface parameters and bedrock properties covary across a mountainous watershed: Insights from machine learning and geophysics. <i>Science Advances</i> , 2022, 8, eabj2479.	4.7	12
18	An ICA based approach to hyperspectral image feature reduction. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
19	Diagnostic Analysis on Change Vector Analysis Methods for LCCD Using Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10199-10212.	2.3	11
20	Meanders as a scaling motif for understanding of floodplain soil microbiome and biogeochemical potential at the watershed scale. Microbiome, 2021, 9, 121.	4.9	11
21	From Patch to Catchment: A Statistical Framework to Identify and Map Soil Moisture Patterns Across Complex Alpine Terrain. Frontiers in Water, 2020, 2, .	1.0	10
22	A deep learning hybrid predictive modeling (HPM) approach for estimating evapotranspiration and ecosystem respiration. Hydrology and Earth System Sciences, 2021, 25, 6041-6066.	1.9	8
23	Unsupervised change detection analysis to multi-channel scenario based on morphological contextual analysis. , 2016, , .		7
24	Remote Sensing Data Fusion: Markov Models and Mathematical Morphology for Multisensor, Multiresolution, and Multiscale Image Classification. Signals and Communication Technology, 2018, , 277-323.	0.4	7
25	Simultaneous and Constrained Calibration of Multiple Hyperspectral Images Through a New Generalized Empirical Line Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2047-2058.	2.3	5
26	Supervised classification methods in hyperspectral imaging—recent advances. Data Handling in Science and Technology, 2019, 32, 247-279.	3.1	5
27	Study on the capabilities of morphological attribute profiles in change detection on VHR images. , 2010, , .		4
28	A comparative study of different ICA algorithms for hyperspectral image analysis. , 2013, , .		4
29	Machine-Learning Functional Zonation Approach for Characterizing Terrestrial–Aquatic Interfaces: Application to Lake Erie. Remote Sensing, 2022, 14, 3285.	1.8	4
30	Comparison of ITPCA and IRMAD for automatic change detection using initial change mask. , 2012, , .		3
31	Region-based classification of remote sensing images with the morphological tree of shapes. , 2016, , .		3
32	Of mosses and men: Plant succession, soil development and soil carbon accretion in the sub-Arctic volcanic landscape of Hekla, Iceland. Progress in Physical Geography, 2018, 42, 765-791.	1.4	3
33	Integrated imaging of above and below ground properties and their interactions: A case study in East River Watershed, Colorado. , 2018, , .		3
34	Three-Dimensional Surface Downwelling Longwave Radiation Clear-Sky Effects in the Upper Colorado River Basin. Geophysical Research Letters, 2022, 49, .	1.5	3
35	Extraction of spatial features in hyperspectral images based on the analysis of differential attribute profiles. Proceedings of SPIE, 2013, , .	0.8	2
36	Enabling intelligent copernicus services for carbon and water balance modeling of boreal forest ecosystems — North state. , 2015, , .		2

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37	A hybrid data-driven model approach to map soil thickness in mountain hillslopes. Earth Surface Dynamics, 2021, 9, 1347-1361.	1.0	2
38	Automatic morphological attribute profiles. , 2015, , .		1
39	An advanced classifier for the joint use of LiDAR and hyperspectral data: Case study in Queensland, Australia. , 2015, , .		0
40	Remote Sensing to Uav-Based Digital Farmland. , 2018, , .		0