Francesco Marinello

List of Publications by Year
in descending order

132	3,302	147726	182361
papers	citations	31 h-index	51 g-index

133	133	133	3348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Simple Method for Near-Real-Time Monthly Nighttime Light Image Production. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
2	Instability of remote sensing based ecological index (RSEI) and its improvement for time series analysis. Science of the Total Environment, 2022, 814, 152595.	3.9	56
3	Automatic Bunch Detection in White Grape Varieties Using YOLOv3, YOLOv4, and YOLOv5 Deep Learning Algorithms. Agronomy, 2022, 12, 319.	1.3	114
4	Nanoscale characterization methods in plant disease management. , 2022, , 149-177.		0
5	A Deep Learning-Based Model to Reduce Costs and Increase Productivity in the Case of Small Datasets: A Case Study in Cotton Cultivation. Agriculture (Switzerland), 2022, 12, 267.	1.4	13
6	An Alternative Incoming Correction for Cosmicâ€Ray Neutron Sensing Observations Using Local Muon Measurement. Geophysical Research Letters, 2022, 49, .	1.5	3
7	A survey of few-shot learning in smart agriculture: developments, applications, and challenges. Plant Methods, 2022, 18, 28.	1.9	68
8	Where and how? A comprehensive review of multicriteria approaches for bioenergy plant siting. Journal of Cleaner Production, 2022, 346, 131238.	4.6	11
9	Radiative transfer model inversion using high-resolution hyperspectral airborne imagery â€“ Retrieving maize LAI to access biomass and grain yield. Field Crops Research, 2022, 282, 108449.	2.3	23
10	2-D/3-D fusion-based robust pose normalisation of 3-D livestock from multiple RGB-D cameras. Biosystems Engineering, 2022, 223, 129-141.	1.9	9
11	Automatic livestock body measurement based on keypoint detection with multiple depth cameras. Computers and Electronics in Agriculture, 2022, 198, 107059.	3.7	17
12	Structure from Linear Motion (SfLM): An On-the-Go Canopy Profiling System Based on Off-the-Shelf RGB Cameras for Effective Sprayers Control. Agronomy, 2022, 12, 1276.	1.3	2
13	How many gigabytes per hectare are available in the digital agriculture era? A digitization footprint estimation. Computers and Electronics in Agriculture, 2022, 198, 107080.	3.7	40
14	Bibliometric Analysis of Trends in Mulberry and Silkworm Research on the Production of Silk and Its By-Products. Insects, 2022, 13, 568.	1.0	7
15	Curve Skeleton Extraction from Incomplete Point Clouds of Livestock and Its Application in Posture Evaluation. Agriculture (Switzerland), 2022, 12, 998.	1.4	3
16	wGrapeUNIPD-DL: An open dataset for white grape bunch detection. Data in Brief, 2022, 43, 108466.	0.5	5
17	Challenges and Tendencies of Automatic Milking Systems (AMS): A 20-Years Systematic Review of Literature and Patents. Animals, 2021, 11, 356.	1.0	30
18	Definition of Reference Models for Power, Mass, Working Width, and Price for Tillage Implements. Agriculture (Switzerland), 2021, 11, 197.	1.4	8

#	Article	IF	Citations
19	Novel Effects of Leonardite-Based Applications on Sugar Beet. Frontiers in Plant Science, 2021, 12, 646025.	1.7	11
20	Ten years of corn yield dynamics at field scale under digital agriculture solutions: A case study from North Italy. Computers and Electronics in Agriculture, 2021, 185, 106126.	3.7	39
21	Africa's protected areas are brightening at night: A long-term light pollution monitor based on nighttime light imagery. Global Environmental Change, 2021, 69, 102318.	3.6	18
22	Land-Use Change and Bioenergy Production: Soil Consumption and Characterization of Anaerobic Digestion Plants. Energies, 2021, 14, 4001.	1.6	9
23	Evaluating the Spectral and Physiological Responses of Grapevines (Vitis vinifera L.) to Heat and Water Stresses under Different Vineyard Cooling and Irrigation Strategies. Agronomy, 2021, 11, 1940.	1.3	19
24	An assessment of nitrogen loading and biogas production from Italian livestock: A multilevel and spatial analysis. Journal of Cleaner Production, 2021, 317, 128388.	4.6	16
25	Economic Comparison of Satellite, Plane and UAV-Acquired NDVI Images for Site-Specific Nitrogen Application: Observations from Italy. Agronomy, 2021, 11, 2098.	1.3	30
26	Preliminary study on the application of a commercial LAI ceptometer for estimation of leaf production on low vigour mulberry trees. , 2021, , .		0
27	Connectivity in rural areas: a case study on internet connection in the Italian agricultural areas. , 2021, , .		1
28	Assessing the Digitalization Footprint from Agricultural Fields on Required Data Storage Space. , 2021, , .		0
29	Digital Technologies and Automation in Livestock Production Systems: a Digital Footprint from Multisource Data. , 2021, , .		3
30	Analyzing the ecological environment and urbanization characteristics of the Yangtze River Delta Urban Agglomeration based on Google Earth Engine. Acta Ecologica Sinica, 2021, 41, .	0.0	5
31	Sustainability performance of hotel buildings in the Himalayan region. Journal of Cleaner Production, 2020, 250, 119538.	4.6	9
32	Use of multiple indicators to compare sustainability performance of organic vs conventional vineyard management. Science of the Total Environment, 2020, 711, 135081.	3.9	29
33	A GIS-Based Multicriteria Index to Evaluate the Mechanisability Potential of Italian Vineyard Area. Land, 2020, 9, 469.	1.2	16
34	Exploration of eco-environment and urbanization changes in coastal zones: A case study in China over the past 20Âyears. Ecological Indicators, 2020, 119, 106847.	2.6	110
35	Latest Advances in Sensor Applications in Agriculture. Agriculture (Switzerland), 2020, 10, 362.	1.4	23
36	Bibliometric Analysis of Trends in Biomass for Bioenergy Research. Energies, 2020, 13, 3714.	1.6	37

#	Article	IF	Citations
37	Towards the optimization of a scintillator-based neutron detector for large non-invasive soil moisture estimation. , 2020, , .		5
38	Analysis of performances of a commercial three-dimensional (3D) reconstruction camera. , 2020, , .		1
39	Detection of City Integration Processes in Rapidly Urbanizing Areas Based on Remote Sensing Imagery. Land, 2020, 9, 378.	1.2	3
40	Weak and Strong Sustainability of Irrigation: A Framework for Irrigation Practices Under Limited Water Availability. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	32
41	Modelling of Harvesting Machinesâ€™ Technical Parameters and Prices. Agriculture (Switzerland), 2020, 10, 194.	1.4	19
42	Medium-Resolution Multispectral Data from Sentinel-2 to Assess the Damage and the Recovery Time of Late Frost on Vineyards. Remote Sensing, 2020, 12, 1896.	1.8	19
43	A sample of Italian vineyards: Landscape and management parameters dataset. Data in Brief, 2020, 33, 106589.	0.5	7
44	Comparing vineyard imagery acquired from Sentinel-2 and Unmanned Aerial Vehicle (UAV) platform. Oeno One, 2020, 54, 189-197.	0.7	45
45	Modelling of Agricultural Machinery Trends for Power, Mass, Working Width and Price. Lecture Notes in Civil Engineering, 2020, , 481-489.	0.3	0
46	Sensors and Electronic Control Unit for Optimize Rotary Harrow Soil Tillage Operation. Lecture Notes in Civil Engineering, 2020, , 509-517.	0.3	0
47	Energy Monitoring of Fully Automated Dairy-Farm: A Case Study. Lecture Notes in Civil Engineering, 2020, , 611-618.	0.3	0
48	On-the-go variable rate fertilizer application on vineyard using a proximal spectral sensor. , 2020, , .		7
49	Non-contact feed weight estimation by RFID technology in cow-feed alley. , 2020, , .		7
50	Application of ISO 25178 standard for multiscale 3D parametric assessment of surface topographies. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012011.	0.2	13
51	Assessing Topsoil Movement in Rotary Harrowing Process by RFID (Radio-Frequency Identification) Technique. Agriculture (Switzerland), 2019, 9, 184.	1.4	6
52	Environmental and Economic Sustainability Assessment for Two Different Sprinkler and A Drip Irrigation Systems: A Case Study on Maize Cropping. Agriculture (Switzerland), 2019, 9, 187.	1.4	16
53	The Interannual Calibration and Global Nighttime Light Fluctuation Assessment Based on Pixel-Level Linear Regression Analysis. Remote Sensing, 2019, 11, 2185.	1.8	16
54	A comparison of low-cost techniques for three-dimensional animal body measurement in livestock buildings. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012015.	0.2	8

#	Article	IF	Citations
55	Spatial Variation of NO2 and Its Impact Factors in China: An Application of Sentinel-5P Products. Remote Sensing, 2019, 11, 1939.	1.8	82
56	Analysis and impact of recent climate trends on grape composition in north-east Italy. BIO Web of Conferences, 2019, 13, 04014.	0.1	8
57	A Novel Cosmic-Ray Neutron Sensor for Soil Moisture Estimation over Large Areas. Agriculture (Switzerland), 2019, 9, 202.	1.4	33
58	Scanning Probe Microscopy for polymer film characterization in food packaging. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012009.	0.2	1
59	Extreme Weather Events in Agriculture: A Systematic Review. Sustainability, 2019, 11, 2547.	1.6	97
60	Comparison of Water-focused Life Cycle Assessment and Water Footprint Assessment: The case of an Italian wine. Science of the Total Environment, 2019, 666, 1220-1231.	3.9	36
61	A bilateral symmetry based pose normalization framework applied to livestock body measurement in point clouds. Computers and Electronics in Agriculture, 2019, 160, 59-70.	3.7	30
62	Evaluation of shadow effects in satellite images of vineyards with different row orientation. , 2019, , .		1
63	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	15
64	Assessing the Feasibility of Using Sentinel-2 Imagery to Quantify the Impact of Heatwaves on Irrigated Vineyards. Remote Sensing, 2019, 11, 2869.	1.8	29
65	Monitoring Within-Field Variability of Corn Yield using Sentinel-2 and Machine Learning Techniques. Remote Sensing, 2019, 11, 2873.	1.8	86
66	Atomic Force microscopy techniques to investigate activated food packaging materials. Trends in Food Science and Technology, 2019, 87, 84-93.	7.8	25
67	Atomic Force Microscopy. , 2019, , 93-96.		0
68	Monitoring and analysis of Chinaâ€™s integrated city development based on remote sensing: a case study of Guangfo city. , 2019, , .		0
69	On-barn pig weight estimation based on body measurements by a Kinect v1 depth camera. Computers and Electronics in Agriculture, 2018, 148, 29-36.	3.7	116
70	Sustainable patterns of main agricultural products combining different footprint parameters. Journal of Cleaner Production, 2018, 179, 357-367.	4.6	54
71	Evaluation of the energy and greenhouse gases impacts of grass harvested on riverbanks for feeding anaerobic digestion plants. Journal of Cleaner Production, 2018, 172, 4099-4109.	4.6	32
72	Field-scale electrical resistivity profiling mapping for delineating soil condition in a nitrate vulnerable zone. Applied Soil Ecology, 2018, 123, 780-786.	2.1	20

#	Article	IF	Citations
73	On-Barn Pig Weight Estimation Based on Body Measurements by Structure-from-Motion (SfM). Sensors, 2018, 18, 3603.	2.1	49
74	Definition of Reference Models for Power, Weight, Working Width, and Price for Seeding Machines. Agriculture (Switzerland), 2018, 8, 186.	1.4	11
75	Evaluation of the Grey Water Footprint Comparing the Indirect Effects of Different Agricultural Practices. Sustainability, 2018, 10, 3992.	1.6	25
76	A Feasibility Study on the Use of a Structured Light Depth-Camera for Three-Dimensional Body Measurements of Dairy Cows in Free-Stall Barns. Sensors, 2018, 18, 673.	2.1	78
77	Modeling soil organic carbon and carbon dioxide emissions in different tillage systems supported by precision agriculture technologies under current climatic conditions. Soil and Tillage Research, 2018, 183, 51-59.	2.6	29
78	Evaluating the impact of soil conservation measures on soil organic carbon at the farm scale. Computers and Electronics in Agriculture, 2017, 135, 175-182.	3.7	41
79	Conservative Precision Agriculture: an assessment of technical feasibility and energy efficiency within the LIFE+ AGRICARE project. Advances in Animal Biosciences, 2017, 8, 439-443.	1.0	6
80	Application of the Kinect sensor for three dimensional characterization of vine canopy. Advances in Animal Biosciences, 2017, 8, 525-529.	1.0	7
81	Estimating efficiency in automatic milking systems. , 2017, , .		8
82	Traffic effects on soil compaction and sugar beet (Beta vulgaris L.) taproot quality parameters. Spanish Journal of Agricultural Research, 2017, 15, e0201.	0.3	22
83	Determination of local nitrogen loss for exploitation of sustainable precision agriculture: approach description. , 2017, , .		1
84	Characterization of vine canopy through two dimensional imaging. , 2017, , .		1
85	Energy parameters and feedstock management in farm-scale biogas plants: survey in the North-East of Italy. , 2017, , .		4
86	Metrics for quantifying anthropogenic impacts on geomorphology: road networks. Earth Surface Processes and Landforms, 2016, 41, 240-255.	1.2	26
87	Environmental and economic benefits of variable rate nitrogen fertilization in a nitrate vulnerable zone. Science of the Total Environment, 2016, 545-546, 227-235.	3.9	130
88	Atomic Force Microscopy. , 2016, , 1-5.		0
89	Elastic-properties measurement at high temperatures through contact resonance atomic force microscopy. AIP Conference Proceedings, 2015, , .	0.3	4
90	Preliminary analysis on mowing and harvesting grass along riverbanks for the supply of anaerobic digestion plants in north-eastern Italy. Journal of Agricultural Engineering, 2015, 46, 100.	0.7	28

#	Article	IF	Citations
91	Application of the Kinect sensor for dynamic soil surface characterization. Precision Agriculture, 2015, 16, 601-612.	3.1	39
92	Critical Factors in Cantilever Near-Field Scanning Optical Microscopy. IEEE Sensors Journal, 2014, 14, 3236-3244.	2.4	8
93	A new landscape metric for the identification of terraced sites: The Slope Local Length of Auto-Correlation (SLLAC). ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 96, 123-133.	4.9	55
94	Determination of forest road surface roughness by Kinect depth imaging. Annals of Forest Research, 2014, .	0.6	18
95	Acoustic Scanning Probe Microscopy: An Overview. Nanoscience and Technology, 2013, , 1-20.	1.5	0
96	Analysis of a double steering forest trailer for long wood log transportation. Journal of Agricultural Engineering, 2013, 44, .	0.7	2
97	Data Processing for Acoustic Probe Microscopy Techniques. Nanoscience and Technology, 2013, , 375-390.	1.5	0
98	Characterisation and analysis of microchannels and submicrometre surface roughness of injection moulded microfluidic systems using optical metrology. Plastics, Rubber and Composites, 2012, 41, 29-39.	0.9	18
99	A new experimental technique to study the flow in a porous layer via rheological tests. AIP Conference Proceedings, 2012, , .	0.3	21
100	Estimating efficiency in automatic milking systems. Journal of Dairy Science, 2012, 95, 929-936.	1.4	74
101	Atomic force microscopy analysis shows surface structure changes in carvacrol-treated bacterial cells. Research in Microbiology, 2011, 162, 164-172.	1.0	125
102	Surface topography analysis for dimensional quality control of replication at the micrometre scale. Journal of Physics: Conference Series, 2011, 311, 012018.	0.3	0
103	Control of AFM tip wear. International Journal of Precision Technology, 2011, 2, 289.	0.2	1
104	Long term thermal drift study on SPM scanners. Mechatronics, 2011, 21, 1272-1278.	2.0	5
105	Thermal drift study on different commercial scanning probe microscopes during the initial warming-up phase. Measurement Science and Technology, 2011, 22, 094016.	1.4	34
106	Modified StÃ¶ber synthesis of highly luminescent dye-doped silica nanoparticles. Journal of Nanoparticle Research, 2011, 13, 4349-4356.	0.8	41
107	Aluminum sheet surface roughness correlation with adhesion in polymer metal hybrid overmolding. CIRP Annals - Manufacturing Technology, 2011, 60, 559-562.	1.7	119
108	Fabrication of â€œnano-rocket-tipsâ€•for plasmonic nanofocusing. Microelectronic Engineering, 2011, 88, 2530-2532.	1.1	5

#	Article	IF	Citations
109	Atomic force acoustic microscopy for quantitative nanomechanical characterization. Wear, 2011, 271, 534-538.	1.5	27
110	Wear analysis through surface relocation. Journal of Physics: Conference Series, 2011, 311, 012020.	0.3	3
111	Effects of the cavity surface finishing on the polymer filling flow in micro injection moulding. Journal of Physics: Conference Series, 2011, 311, 012019.	0.3	1
112	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organicâ€Soluble Encapsulated Polyfluorenes. Advanced Functional Materials, 2010, 20, 272-280.	7.8	60
113	Investigation of luminescent dye-doped or rare-earth-doped monodisperse silica nanospheres for DNA microarray labelling. Optical Materials, 2010, 32, 1652-1658.	1.7	22
114	Replication and dimensional quality control of industrial nanoscale surfaces using calibrated AFM measurements and SEM image processing. CIRP Annals - Manufacturing Technology, 2010, 59, 563-568.	1.7	18
115	Critical factors in quantitative Atomic Force Acoustic Microscopy. CIRP Journal of Manufacturing Science and Technology, 2010, 3, 49-54.	2.3	12
116	Error Sources in Atomic Force Microscopy for Dimensional Measurements: Taxonomy and Modeling. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	1.3	27
117	Testing of x-ray microtomography systems using a traceable geometrical standard. Measurement Science and Technology, 2009, 20, 084021.	1.4	54
118	Coordinate metrology using scanning probe microscopes. Measurement Science and Technology, 2009, 20, 084002.	1.4	17
119	Geometrical modelling of scanning probe microscopes and characterization of errors. Measurement Science and Technology, 2009, 20, 084013.	1.4	29
120	Characterization and analysis of weld lines on micro-injection moulded parts using atomic force microscopy (AFM). Wear, 2009, 266, 534-538.	1.5	32
121	Luminescent dye-doped or rare-earth-doped monodisperse silica nanospheres as efficient labels in DNA microarrays. Proceedings of SPIE, 2009, , .	0.8	4
122	Calibration artefact for the microscale with high aspect ratio: The fiber gauge. CIRP Annals - Manufacturing Technology, 2008, 57, 497-500.	1.7	26
123	Critical factors in SEM 3D stereo microscopy. Measurement Science and Technology, 2008, 19, 065705.	1.4	98
124	Characterization of Bacteriocin-Coated Antimicrobial Polyethylene Films by Atomic Force Microscopy. Journal of Food Science, 2008, 73, T48-T54.	1.5	33
125	Increase of maximum detectable slope with optical profilers, through controlled tilting and image processing. Measurement Science and Technology, 2007, 18, 384-389.	1.4	25
126	Use of cylindrical artefacts for AFM vertical calibration. Measurement Science and Technology, 2007, 18, 462-468.	1.4	10

#	Article	IF	Citations
127	Fast technique for AFM vertical drift compensation. Measurement Science and Technology, 2007, 18, 689-696.	1.4	39
128	Development and analysis of a software tool for stitching three-dimensional surface topography data sets. Measurement Science and Technology, 2007, 18, 1404-1412.	1.4	34
129	Feature-Oriented Measurement Strategy in Atomic Force Microscopy. CIRP Annals - Manufacturing Technology, 2007, 56, 557-560.	1.7	16
130	Using SALUS model for medium and long term simulations of energy efficiency in different tillage systems. Applied Mathematical Sciences, 0, 8, 6433-6445.	0.0	18
131	Tractor cabin ergonomics analyses by means of kinect motion capture technology. Contemporary Engineering Sciences, 0, 8, 1339-1349.	0.2	6
132	A 20-YEAR ANALYSIS OF THE EVOLUTION OF AUTOMATIC MILKING SYSTEMS: PROCESSES, TECHNOLOGIES AND LIVESTOCK ENVIRONMENT. , 0, , .		0