Andrea Luvisi

List of Publications by Year
in descending order

93 papers	2,011 citations	279487 23 h-index	315357 38 g-index
95 all docs	95 docs citations	95 times ranked	1880 citing authors

#	Article	IF	Citations
1	X-FIDO: An Effective Application for Detecting Olive Quick Decline Syndrome with Deep Learning and Data Fusion. Frontiers in Plant Science, 2017, 8, 1741.	1.7	125
2	Review. Elimination of viruses in plants: twenty years of progress. Spanish Journal of Agricultural Research, 2013, 11, 173.	0.3	116
3	Detection of grapevine yellows symptoms in Vitis vinifera L. with artificial intelligence. Computers and Electronics in Agriculture, 2019, 157, 63-76.	3.7	115
4	iPathology: Robotic Applications and Management of Plants and Plant Diseases. Sustainability, 2017, 9, 1010.	1.6	101
5	Xylella fastidiosa induces differential expression of lignification related-genes and lignin accumulation in tolerant olive trees cv. Leccino. Journal of Plant Physiology, 2018, 220, 60-68.	1.6	83
6	Advances in Plant Disease Detection and Monitoring: From Traditional Assays to In-Field Diagnostics. Sensors, 2021, 21, 2129.	2.1	76
7	Evaluation of Phytochemical and Antioxidant Properties of 15 Italian Olea europaea L. Cultivar Leaves. Molecules, 2019, 24, 1998.	1.7	53
8	Phenolic Profile and Antioxidant Activity of Italian Monovarietal Extra Virgin Olive Oils. Antioxidants, 2019, 8, 161.	2.2	51
9	Specific Fluorescence in Situ Hybridization (FISH) Test to Highlight Colonization of Xylem Vessels by Xylella fastidiosa in Naturally Infected Olive Trees (Olea europaea L.). Frontiers in Plant Science, 2018, 9, 431.	1.7	47
10	RFID-plants in the smart city: Applications and outlook for urban green management. Urban Forestry and Urban Greening, 2014, 13, 630-637.	2.3	45
11	Influence of Bagging on the Development and Quality of Fruits. Plants, 2021, 10, 358.	1.6	45
12	Xylem cavitation susceptibility and refilling mechanisms in olive trees infected by Xylella fastidiosa. Scientific Reports, 2019, 9, 9602.	1.6	42
13	Plant Pathology and Information Technology: Opportunity for Management of Disease Outbreak and Applications in Regulation Frameworks. Sustainability, 2016, 8, 831.	1.6	40
14	Cadmium Concentration in Grains of Durum Wheat (<i>Triticum turgidum</i> L. subsp. <i>durum</i>). Journal of Agricultural and Food Chemistry, 2017, 65, 6240-6246.	2.4	39
15	Sustainable Management of Plant Quarantine Pests: The Case of Olive Quick Decline Syndrome. Sustainability, 2017, 9, 659.	1.6	39
16	The Xylella fastidiosa-Resistant Olive Cultivar â€œLeccinoâ€•Has Stable Endophytic Microbiota during the Olive Quick Decline Syndrome (OQDS). Pathogens, 2020, 9, 35.	1.2	39
17	Development of a lab-on-a-chip method for rapid assay of Xylella fastidiosa subsp. pauca strain CoDiRO. Scientific Reports, 2018, 8, 7376.	1.6	34
18	Phytochemical Profiles and Antioxidant Activity of Salvia species from Southern Italy. Records of Natural Products, 2019, 13, 205-215.	1.3	34

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19	Electronic identification technology for agriculture, plant, and food. A review. Agronomy for Sustainable Development, 2016, 36, 1.	2.2	32
20	Activation of a gene network in durum wheat roots exposed to cadmium. BMC Plant Biology, 2018, 18, 238.	1.6	30
21	Impact of Climate Change on Durum Wheat Yield. Agronomy, 2020, 10, 793.	1.3	29
22	Modelling fuzzy combination of remote sensing vegetation index for durum wheat crop analysis. Computers and Electronics in Agriculture, 2019, 156, 684-692.	3.7	26
23	Molecular Typing of Bois Noir Phytoplasma Strains in the Chianti Classico Area (Tuscany, Central) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Phytopathology, 2018, 108, 362-373.	1.1	25
24	GIS Analysis of Land-Use Change in Threatened Landscapes by Xylella fastidiosa. Sustainability, 2019, 11, 253.	1.6	25
25	Accumulation of Azelaic Acid in <i>Xylella fastidiosa</i>-Infected Olive Trees: A Mobile Metabolite for Health Screening. Phytopathology, 2019, 109, 318-325.	1.1	24
26	<i>Vision-Based Plant Disease Detection System Using Transfer and Deep Learning</i>. , 2017, , .		23
27	Antioxidant Activity and Anthocyanin Contents in Olives (cv Cellina di NardÃ²) during Ripening and after Fermentation. Antioxidants, 2019, 8, 138.	2.2	23
28	Molecular Effects of Xylella fastidiosa and Drought Combined Stress in Olive Trees. Plants, 2019, 8, 437.	1.6	22
29	Radiofrequency applications in grapevine: From vineyard to web. Computers and Electronics in Agriculture, 2010, 70, 256-259.	3.7	21
30	RFID temperature sensors for monitoring soil solarization with biodegradable films. Computers and Electronics in Agriculture, 2016, 123, 135-141.	3.7	21
31	Combined Effect of Cadmium and Lead on Durum Wheat. International Journal of Molecular Sciences, 2019, 20, 5891.	1.8	21
32	Screening of Olive Biodiversity Defines Genotypes Potentially Resistant to Xylella fastidiosa. Frontiers in Plant Science, 2021, 12, 723879.	1.7	20
33	Antioxidant Activity and Polyphenols Characterization of Four Monovarietal Grape Pomaces from Salento (Apulia, Italy). Antioxidants, 2021, 10, 1406.	2.2	20
34	Changes in Olive Urban Forests Infected by Xylella fastidiosa: Impact on Microclimate and Social Health. International Journal of Environmental Research and Public Health, 2019, 16, 2642.	1.2	19
35	Steam and exothermic reactions as alternative techniques to control soil-borne diseases in basil. Agronomy for Sustainable Development, 2006, 26, 201-207.	2.2	19
36	RFID microchip internal implants: Effects on grapevine histology. Scientia Horticulturae, 2010, 124, 349-353.	1.7	17

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37	Phylogenetic analysis of viruses in Tuscan Vitis vinifera sylvestris (Gmeli) Hegi. PLoS ONE, 2018, 13, e0200875.	1.1	17
38	Biochemical Changes in Leaves of Vitis vinifera cv. Sangiovese Infected by Bois Noir Phytoplasma. Pathogens, 2020, 9, 269.	1.2	17
39	The Role of Soil Solarization in India: How an Unnoticed Practice Could Support Pest Control. Frontiers in Plant Science, 2017, 8, 1515.	1.7	16
40	Prevalence of a â€˜<i>Candidatus</i> Phytoplasma solaniâ€™ strain, so far associated only with other hosts, in Bois Noirâ€affected grapevines within Tuscan vineyards. Annals of Applied Biology, 2018, 173, 202-212.	1.3	16
41	Diseases Caused by Xylella fastidiosa in Prunus Genus: An Overview of the Research on an Increasingly Widespread Pathogen. Frontiers in Plant Science, 2021, 12, 712452.	1.7	16
42	Ultra-High Frequency transponders in grapevine: A tool for traceability of plants and treatments in viticulture. Biosystems Engineering, 2012, 113, 129-139.	1.9	15
43	Heat treatments for sustainable control of soil viruses. Agronomy for Sustainable Development, 2015, 35, 657-666.	2.2	15
44	The Distribution of Phytoplasmas in South and East Asia: An Emerging Threat to Grapevine Cultivation. Frontiers in Plant Science, 2019, 10, 1108.	1.7	15
45	Implanting RFIDs into Prunus to facilitate electronic identification in support of sanitary certification. Biosystems Engineering, 2011, 109, 167-173.	1.9	14
46	Volatile Compounds and Total Phenolic Content of Perilla frutescens at Microgreens and Mature Stages. Horticulturae, 2022, 8, 71.	1.2	14
47	Virtual vineyard for grapevine management purposes: A RFID/GPS application. Computers and Electronics in Agriculture, 2011, 75, 368-371.	3.7	13
48	Selective chemotherapy on Grapevine leafroll-associated virus-1 and -3. Phytoparasitica, 2011, 39, 503-508.	0.6	13
49	Electronic identification-based Web 2.0 application for plant pathology purposes. Computers and Electronics in Agriculture, 2012, 84, 7-15.	3.7	13
50	Proposal of A New Bois Noir Epidemiological Pattern Related to â€˜Candidatus Phytoplasma Solaniâ€™ Strains Characterized by A Possible Moderate Virulence in Tuscany. Pathogens, 2020, 9, 268.	1.2	13
51	Recurrence Analysis of Vegetation Indices for Highlighting the Ecosystem Response to Drought Events: An Application to the Amazon Forest. Remote Sensing, 2020, 12, 907.	1.8	12
52	Increase in ring width, vessel number and Î´18O in olive trees infected with <i>Xylella fastidiosa</i>. Tree Physiology, 2020, 40, 1583-1594.	1.4	10
53	Molecular Responses to Cadmium Exposure in Two Contrasting Durum Wheat Genotypes. International Journal of Molecular Sciences, 2021, 22, 7343.	1.8	10
54	Chemical Outbreak for Tobacco Mosaic Virus Control. International Journal of Agriculture and Biology, 2017, 19, 792-800.	0.2	10

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55	Xylella fastidiosa and Drought Stress in Olive Trees: A Complex Relationship Mediated by Soluble Sugars. Biology, 2022, 11, 112.	1.3	10
56	Membrane transport of antiviral drugs in plants: an electrophysiological study in grapevine explants infected by Grapevine leafroll associated virus 1. Acta Physiologiae Plantarum, 2012, 34, 2115-2123.	1.0	9
57	Td4IN2: A drought-responsive durum wheat (Triticum durum Desf.) gene coding for a resistance like protein with serine/threonine protein kinase, nucleotide binding site and leucine rich domains. Plant Physiology and Biochemistry, 2017, 120, 223-231.	2.8	9
58	Secondary Metabolites in Xylella fastidiosaâ€“Plant Interaction. Pathogens, 2020, 9, 675.	1.2	9
59	Phytochemicals and Volatiles in Developing Pelargonium â€˜Endsleighâ€™ Flowers. Horticulturae, 2021, 7, 419.	1.2	9
60	Effects of Cadmium on Root Morpho-Physiology of Durum Wheat. Frontiers in Plant Science, 0, 13, .	1.7	9
61	Thiopurine Prodrugs for Plant Chemotherapy Purposes. Journal of Phytopathology, 2011, 159, 390-392.	0.5	8
62	Eradication trials of tobacco mosaic virus using chemical drugs. Acta Virologica, 2012, 56, 159-162.	0.3	8
63	How Ecosystem Services Can Strengthen the Regeneration Policies for Monumental Olive Groves Destroyed by Xylella fastidiosa Bacterium in a Peri-Urban Area. Sustainability, 2021, 13, 8778.	1.6	8
64	Radiofrequency Identification Tagging in Ornamental Shrubs: An Application in Rose. HortTechnology, 2010, 20, 1037-1042.	0.5	8
65	Effect of mycophenolic acid on trans-plasma membrane electron transport andÂelectric potential in virus-infected plant tissue. Plant Physiology and Biochemistry, 2012, 60, 137-140.	2.8	7
66	Aconitase: To Be or not to Be Inside Plant Glyoxysomes, That Is the Question. Biology, 2020, 9, 162.	1.3	7
67	Detection of Ampelovirus and Nepovirus by Lab-on-a-Chip: A Promising Alternative to ELISA Test for Large Scale Health Screening of Grapevine. Biosensors, 2022, 12, 147.	2.3	7
68	Bibliometric Mapping of Research on Life Cycle Assessment of Olive Oil Supply Chain. Sustainability, 2022, 14, 3747.	1.6	7
69	Bacterial Communities in the Fruiting Bodies and Background Soils of the White Truffle Tuber magnatum. Frontiers in Microbiology, 2022, 13, .	1.5	7
70	The occurrence of viruses and viroids in ornamental citrus mother plants in Tuscany (Central Italy). Crop Protection, 2017, 102, 137-140.	1.0	6
71	Dendrochemistry: Ecosystem Services Perspectives for Urban Biomonitoring. Frontiers in Environmental Science, 2020, 8, .	1.5	6
72	Radio-frequency identification could help reduce the spread of plant pathogens. California Agriculture, 2012, 66, 97-101.	0.5	5

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73	Application of tracking implants in grape hybrids: Adjustments to production practices and new health-compliant methodologies. Computers and Electronics in Agriculture, 2014, 108, 130-134.	3.7	5
74	Multilocus Genotyping Reveals New Molecular Markers for Differentiating Distinct Genetic Lineages among â€œCandidatus Phytoplasma Solaniâ€•Strains Associated with Grapevine Bois Noir. Pathogens, 2020, 9, 970.	1.2	5
75	Analysis of Olive Grove Destruction by Xylella fastidiosa Bacterium on the Land Surface Temperature in Salento Detected Using Satellite Images. Forests, 2021, 12, 1266.	0.9	5
76	Phenolic characterization of olive genotypes potentially resistant to <i>Xylella</i>. Journal of Plant Interactions, 2022, 17, 462-474.	1.0	5
77	In Vivo Inhibition of Trans-Plasma Membrane Electron Transport by Antiviral Drugs in Grapevine. Journal of Membrane Biology, 2013, 246, 513-518.	1.0	4
78	Salvia clandestina L.: unexploited source of danshensu. Natural Product Research, 2019, 33, 439-442.	1.0	4
79	Microchip-based system for supporting a certification scheme for olive trees. Journal of Horticultural Science and Biotechnology, 2012, 87, 551-556.	0.9	3
80	Antiviral activity of mycophenolic acid derivatives in plants. Acta Virologica, 2014, 58, 99-102.	0.3	3
81	Virus interference with trans-plasma membrane activity in infected grapevine leaves. Acta Physiologiae Plantarum, 2014, 36, 3345-3349.	1.0	3
82	Synthesis of PAMAM Dendrimers Loaded with Mycophenolic Acid to Be Studied as New Potential Immunosuppressants. Journal of Chemistry, 2015, 2015, 1-6.	0.9	3
83	Effects of modulation of potassium channels in tobacco mosaic virus elimination. Physiological and Molecular Plant Pathology, 2018, 102, 180-184.	1.3	3
84	New insights on â€œbois noirâ€•epidemiology in the Chianti Classico area, Tuscany. Phytopathogenic Mollicutes, 2019, 9, 39.	0.1	3
85	UAV Inspection of Olive Trees for the Detection of Xylella Fastidiosa Disease Using Neural Networks. , 2021, , .		3
86	Clonal Selection of cv. Aleatico (Vitis vinifera L.) Along Tuscan Coastal Area. , 2006, , .		2
87	Biosecurity of kiwifruit plants: effects of internal microchip implants on vines for monitoring plant health status. New Zealand Journal of Crop and Horticultural Science, 2012, 40, 281-291.	0.7	2
88	Modulation of viral infection in plants by exogenous guanosine. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	2
89	Early trans-plasma membrane responses to Tobacco mosaic virus infection. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	2
90	Electronic identification systems for reducing diagnostic workloads after disease outbreak. Plant Pathology, 2018, 67, 750-756.	1.2	2

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91	Automatic Diagnosis of Olive Quick Decline Syndrome and Grapevine Yellows for the Agriculture Industry. , 2019, , .		2
92	In Silico Three-Dimensional (3D) Modeling of the SecY Protein of â€˜Candidatus Phytoplasma Solaniâ€™ Strains Associated with Grapevine â€œBois Noirâ€•and Its Possible Relationship with Strain Virulence. International Journal of Plant Biology, 2022, 13, 15-30.	1.1	1
93	Lab-on-chip platform for on-field analysis of Grapevine leafroll-associated virus 3. , 0, , .		0