

Luigi Ledda

List of Publications by Year in descending order

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68
papers

1,869
citations

236925

25
h-index

276875

41
g-index

69
all docs

69
docs citations

69
times ranked

2350
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar radiation distribution inside a greenhouse with south-oriented photovoltaic roofs and effects on crop productivity. <i>Applied Energy</i> , 2014, 133, 89-100.	10.1	191
2	Soil organic C variability and microbial functions in a Mediterranean agro-forest ecosystem. <i>Biology and Fertility of Soils</i> , 2011, 47, 283-291.	4.3	100
3	Soil Bacterial Community Response to Differences in Agricultural Management along with Seasonal Changes in a Mediterranean Region. <i>PLoS ONE</i> , 2014, 9, e105515.	2.5	89
4	Soil organic matter content and composition as influenced by soil management in a semi-arid Mediterranean agro-silvo-pastoral system. <i>Agriculture, Ecosystems and Environment</i> , 2013, 167, 1-11.	5.3	88
5	Changes in soil organic carbon and climate change " Application of the RothC model in agro-silvo-pastoral Mediterranean systems. <i>Agricultural Systems</i> , 2012, 112, 48-54.	6.1	66
6	Agricultural sustainability estimation of the European photovoltaic greenhouses. <i>European Journal of Agronomy</i> , 2020, 118, 126074.	4.1	65
7	Biomass supply for energetic purposes from some <i>Cardueae</i> species grown in Mediterranean farming systems. <i>Industrial Crops and Products</i> , 2013, 47, 218-226.	5.2	64
8	RAPD variation within and among populations of globe artichoke cultivar 'Spinoso sardo'. <i>Plant Breeding</i> , 2001, 120, 243-246.	1.9	60
9	Assessment and comparison of the solar radiation distribution inside the main commercial photovoltaic greenhouse types in Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 822-834.	16.4	57
10	Organic carbon pools and soil biological fertility are affected by land use intensity in Mediterranean ecosystems of Sardinia, Italy. <i>Science of the Total Environment</i> , 2017, 599-600, 789-796.	8.0	54
11	Water use efficiency and drought survival in Mediterranean perennial forage grasses. <i>Field Crops Research</i> , 2011, 121, 333-342.	5.1	52
12	Climate change adaptation and water saving by innovative irrigation management applied on open field globe artichoke. <i>Science of the Total Environment</i> , 2019, 649, 461-472.	8.0	51
13	Predicting growth and yield of winter rapeseed in a Mediterranean environment: Model adaptation at a field scale. <i>Field Crops Research</i> , 2013, 144, 100-112.	5.1	48
14	An algorithm for the calculation of the light distribution in photovoltaic greenhouses. <i>Solar Energy</i> , 2017, 141, 38-48.	6.1	47
15	Energy and environmental performances of hybrid photovoltaic irrigation systems in Mediterranean intensive and super-intensive olive orchards. <i>Science of the Total Environment</i> , 2019, 651, 2514-2523.	8.0	45
16	Application of CarboSOIL model to predict the effects of climate change on soil organic carbon stocks in agro-silvo-pastoral Mediterranean management systems. <i>Agriculture, Ecosystems and Environment</i> , 2015, 202, 8-16.	5.3	44
17	Organic Fertilization, Green Manure, and Vetch Mulch to Improve Organic Zucchini Yield and Quality. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2013, 48, 1027-1033.	1.0	43
18	Adapting to uncertainty associated with short-term climate variability changes in irrigated Mediterranean farming systems. <i>Agricultural Systems</i> , 2013, 117, 1-12.	6.1	39

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19	Replacing organic with mineral N fertilization does not reduce nitrate leaching in double crop forage systems under Mediterranean conditions. <i>Agriculture, Ecosystems and Environment</i> , 2016, 219, 83-92.	5.3	39
20	Water deficit and induction of summer dormancy in perennial Mediterranean grasses. <i>Annals of Botany</i> , 2009, 103, 1337-1346.	2.9	36
21	Emerging trends in the photodynamic inactivation (PDI) applied to the food decontamination. <i>Food Research International</i> , 2021, 144, 110358.	6.2	36
22	Influence of land use on soil quality and stratification ratios under agro-silvo-pastoral Mediterranean management systems. <i>Agriculture, Ecosystems and Environment</i> , 2014, 183, 86-92.	5.3	35
23	MULTIDISCIPLINARY AND INNOVATIVE METHODOLOGIES FOR SUSTAINABLE MANAGEMENT IN AGRICULTURAL SYSTEMS. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 1571-1581.	0.6	33
24	Leaf and Plant Water Use Efficiency in Cocksfoot and Tall Fescue Accessions under Differing Soil Water Availability. <i>Crop Science</i> , 2012, 52, 2321-2331.	1.8	29
25	LCA Study of Oleaginous Bioenergy Chains in a Mediterranean Environment. <i>Energies</i> , 2014, 7, 6258-6281.	3.1	27
26	An Integrated Assessment of the Impacts of Changing Climate Variability on Agricultural Productivity and Profitability in an Irrigated Mediterranean Catchment. <i>Water Resources Management</i> , 2013, 27, 3607-3622.	3.9	26
27	Soil sampling approaches in Mediterranean agro-ecosystems. Influence on soil organic carbon stocks. <i>Catena</i> , 2017, 158, 113-120.	5.0	26
28	Variation in soil C and microbial functions across tree canopy projection and open grassland microenvironments. <i>Türk Tarım Ve Ormancılık Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2014, 38, 62-69.	2.1	24
29	Environmental consequences of the conversion from traditional to energy cropping systems in a Mediterranean area. <i>European Journal of Agronomy</i> , 2015, 70, 124-135.	4.1	24
30	Potential Biogas Production from Artichoke Byproducts in Sardinia, Italy. <i>Energies</i> , 2016, 9, 92.	3.1	23
31	Carbon footprints and social carbon cost assessments in a perennial energy crop system: A comparison of fertilizer management practices in a Mediterranean area. <i>Agricultural Systems</i> , 2021, 186, 102989.	6.1	23
32	On Farm Agronomic and First Environmental Evaluation of Oil Crops for Sustainable Bioenergy Chains. <i>Italian Journal of Agronomy</i> , 2009, 4, 171.	1.0	19
33	Effects of the photovoltaic roofs on the greenhouse microclimate. <i>Acta Horticulturae</i> , 2017, , 461-468.	0.2	18
34	Effects of alternative cropping systems on globe artichoke qualitative traits. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 1079-1087.	3.5	18
35	Embodied Energy and Environmental Impact of Large-Power Stand-Alone Photovoltaic Irrigation Systems. <i>Energies</i> , 2018, 11, 2110.	3.1	18
36	Optimization of agricultural biogas supply chains using artichoke byproducts in existing plants. <i>Agricultural Systems</i> , 2018, 165, 137-146.	6.1	18

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37	Stable nutrient flows in sustainable and alternative cropping systems of globe artichoke. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.	5.3	17
38	Effect of input management on yield and energy balance of cardoon crop systems in Mediterranean environment. <i>European Journal of Agronomy</i> , 2017, 82, 173-181.	4.1	17
39	Land use change effects on soil organic carbon store. An opportunity to soils regeneration in Mediterranean areas: Implications in the 4p1000 notion. <i>Ecological Indicators</i> , 2020, 119, 106831.	6.3	16
40	Yield and nitrogen fixation potential from white lupine grown in rainfed Mediterranean environments. <i>Scientia Agricola</i> , 2016, 73, 338-346.	1.2	13
41	Exogenous Application of Foliar Salicylic Acid and Propolis Enhances Antioxidant Defenses and Growth Parameters in Tomato Plants. <i>Plants</i> , 2021, 10, 74.	3.5	13
42	Validation of Rapid and Low-Cost Approach for the Delineation of Zone Management Based on Machine Learning Algorithms. <i>Agronomy</i> , 2022, 12, 183.	3.0	12
43	Effects of Physical, Mechanical and Hormonal Treatments of Seed-Tubers on Bud Dormancy and Plant Productivity. <i>Agronomy</i> , 2020, 10, 33.	3.0	11
44	Organic Carbon and Ecosystem Services in Agricultural Soils of the Mediterranean Basin. <i>Sustainable Agriculture Reviews</i> , 2018, , 183-210.	1.1	10
45	A land-based approach for the environmental assessment of Mediterranean annual and perennial energy crops. <i>European Journal of Agronomy</i> , 2019, 103, 63-72.	4.1	10
46	C-sequestration and resilience to climate change of globe artichoke cropping systems depend on crop residues management. <i>Agronomy for Sustainable Development</i> , 2021, 41, 1.	5.3	10
47	Solar light distribution inside a greenhouse with the roof area entirely covered with photovoltaic panels. <i>Acta Horticulturae</i> , 2017, , 47-56.	0.2	7
48	INFLUENCE OF PLANT SHADING AND OVOLI TYPOLOGY ON GLOBE ARTICHOKE DEVELOPMENT, EARLY PRODUCTION AND HEAD ATROPHY: PRELIMINARY RESULTS. <i>Acta Horticulturae</i> , 2004, , 365-371.	0.2	6
49	Low-Input Herbicide Management: Effects on Rapeseed Production and Profitability. <i>Sustainability</i> , 2018, 10, 2258.	3.2	6
50	The Influence of Herbicide Underdosage on the Composition and Diversity of Weeds in Oilseed Rape (<i>Brassica napus</i> L. var. <i>oleifera</i> D.C.) Mediterranean Fields. <i>Sustainability</i> , 2019, 11, 1653.	3.2	6
51	<i>Crithmum maritimum</i> L. Biomass Production in Mediterranean Environment. <i>Agronomy</i> , 2022, 12, 926.	3.0	5
52	How reliable are current crop models for simulating growth and seed yield of canola across global sites and under future climate change?. <i>Climatic Change</i> , 2022, 172, .	3.6	5
53	Cropping systems sustainability: Inoculation and fertilisation effect on sulla performances in a new cultivation area. <i>Italian Journal of Agronomy</i> , 0, , .	1.0	4
54	Inoculation and N Fertilization Affect the Dry Matter, N Fixation, and Bioactive Compounds in Sulla Leaves. <i>Agronomy</i> , 2019, 9, 289.	3.0	4

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55	Yield Response and Physiological Adaptation of Green Bean to Photovoltaic Greenhouses. <i>Frontiers in Plant Science</i> , 2021, 12, 655851.	3.6	4
56	Combined effects of microenvironment and land use on C fluxes in a Mediterranean agro-silvopastoral system. <i>European Journal of Agronomy</i> , 2021, 130, 126348.	4.1	4
57	MOLECULAR AND MORPHOLOGICAL VARIATION AMONG AND WITHIN POPULATIONS OF CYNARA SCOLYMUS L. CV. "SPINOSO SARDO". <i>Acta Horticulturae</i> , 2005, , 333-340.	0.2	3
58	SALT CONCENTRATION OF THE NUTRIENT SOLUTION: EFFECTS ON TRANSPIRATION RATE OF SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2003, , 97-102.	0.2	2
59	Modeling tomato growth and production in a photovoltaic greenhouse in southern Italy. <i>Acta Horticulturae</i> , 2017, , 203-210.	0.2	2
60	Yield and quality of lettuce in response to the plant position in photovoltaic greenhouse. <i>Acta Horticulturae</i> , 2019, , 799-806.	0.2	2
61	Evaluation of the Energy Utilization Index in Sheep Milk Cooling Systems. <i>Energies</i> , 2020, 13, 2127.	3.1	2
62	INFLUENCE OF OVOLI TYPOLOGY ON GLOBE ARTICHOKE DEVELOPMENT, EARLY PRODUCTION AND HEAD ATROPHY: PRELIMINARY RESULTS. <i>Acta Horticulturae</i> , 2005, , 225-232.	0.2	1
63	Impact of different photoperiodic treatments on "Spinoso Sardo"™ globe artichoke (<i>Cynara) Tj ETQq1 1 0.784314 rgBT /Overl <i>Acta Horticulturae</i> , 2020, , 131-136.	0.2	1
64	Phenolic compounds, antioxidant activity and lignin content of "Spinoso sardo"™ globe artichoke grown under different photoperiods. <i>Acta Horticulturae</i> , 2020, , 249-254.	0.2	0
65	Una valutazione integrata degli impatti produttivi ed economici del cambiamento della variabilità climatica in un'area mediterranea irrigua. <i>QA Rivista Dell Associazione Rossi-Doria</i> , 2015, , 201-234.	0.1	0
66	Leaf and plant water use efficiency in "Spinoso sardo"™ globe artichoke under different irrigation water management. <i>Acta Horticulturae</i> , 2020, , 77-84.	0.2	0
67	Detection and Monitoring of Alien Weeds Using Unmanned Aerial Vehicle in Agricultural Systems in Sardinia (Italy). <i>Lecture Notes in Civil Engineering</i> , 2020, , 855-862.	0.4	0
68	Does Precision Photovoltaic Irrigation Represent a Sustainable Alternative to Traditional Systems?. <i>Lecture Notes in Civil Engineering</i> , 2020, , 585-593.	0.4	0