Salvatore L Cosentino

List of Publications by Year
in descending order

96	4,253	109264 35	118793 62
papers	citations	h-index	g-index

97	97	97	4234
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dry matter and qualitative characteristics of alfalfa as affected by harvest times and soil water content. European Journal of Agronomy, 2011, 34, 144-152.	1.9	234
2	Key cultivation techniques for hemp in Europe and China. Industrial Crops and Products, 2015, 68, 2-16.	2.5	233
3	Biomass yield and energy balance of three perennial crops for energy use in the semi-arid Mediterranean environment. Field Crops Research, 2009, 114, 204-213.	2.3	215
4	Effects of soil water deficit on yield and quality of processing tomato under a Mediterranean climate. Agricultural Water Management, 2010, 97, 131-138.	2.4	213
5	Effects of soil water content and nitrogen supply on the productivity of MiscanthusÃ—giganteus Greef et Deu. in a Mediterranean environment. Industrial Crops and Products, 2007, 25, 75-88.	2.5	165
6	Progress in upscaling Miscanthus biomass production for the European bioâ€economy with seedâ€based hybrids. GCB Bioenergy, 2017, 9, 6-17.	2.5	156
7	Phytoremediation of Heavy Metal-Contaminated Soils Using the Perennial Energy Crops Miscanthus spp. and Arundo donax L.. Bioenergy Research, 2015, 8, 1500-1511.	2.2	153
8	Agronomic aspects of future energy crops in Europe. Biofuels, Bioproducts and Biorefining, 2010, 4, 674-691.	1.9	125
9	First results on evaluation of Arundo donax L. clones collected in Southern Italy. Industrial Crops and Products, 2006, 23, 212-222.	2.5	117
10	Breeding progress and preparedness for massâ€scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. GCB Bioenergy, 2019, 11, 118-151.	2.5	116
11	Dilute oxalic acid pretreatment for biorefining giant reed (Arundo donax L.). Biomass and Bioenergy, 2011, 35, 3018-3024.	2.9	113
12	Marginal Agricultural Land Low-Input Systems for Biomass Production. Energies, 2019, 12, 3123.	1.6	113
13	Bioconversion of giant reed (Arundo donax L.) hemicellulose hydrolysate to ethanol by Scheffersomyces stipitis CBS6054. Biomass and Bioenergy, 2012, 39, 296-305.	2.9	93
14	Response of giant reed (Arundo donax L.) to nitrogen fertilization and soil water availability in semi-arid Mediterranean environment. European Journal of Agronomy, 2014, 60, 22-32.	1.9	93
15	Prospects of Bioenergy Cropping Systems for A More Social-Ecologically Sound Bioeconomy. Agronomy, 2019, 9, 605.	1.3	89
16	Germination and radicle growth in unprimed and primed seeds of sweet sorghum as affected by reduced water potential in NaCl at different temperatures. Industrial Crops and Products, 2009, 30, 1-8.	2.5	74
17	Second generation bioethanol production from Saccharum spontaneum L. ssp. aegyptiacum (Willd.) Hack.. Bioresource Technology, 2010, 101, 5358-5365.	4.8	71
18	Sowing time and prediction of flowering of different hemp (Cannabis sativa L.) genotypes in southern Europe. Industrial Crops and Products, 2012, 37, 20-33.	2.5	71

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19	Effectiveness of dilute oxalic acid pretreatment of MiscanthusÂÃ—Âgiganteus biomass for ethanol production. Biomass and Bioenergy, 2013, 59, 540-548.	2.9	70
20	Evaluation of European developed fibre hemp genotypes (Cannabis sativa L.) in semi-arid Mediterranean environment. Industrial Crops and Products, 2013, 50, 312-324.	2.5	70
21	Agronomic, Energetic and Environmental Aspects of Biomass Energy Crops Suitable for Italian Environments. Italian Journal of Agronomy, 2008, 3, 81.	0.4	67
22	Economic and Environmental Assessment of Seed and Rhizome Propagated Miscanthus in the UK. Frontiers in Plant Science, 2017, 8, 1058.	1.7	66
23	Phytoremediation potential of Arundo donax (Giant Reed) in contaminated soil by heavy metals. Environmental Research, 2020, 185, 109427.	3.7	66
24	Long-Term Yields of Switchgrass, Giant Reed, and Miscanthus in the Mediterranean Basin. Bioenergy Research, 2015, 8, 1492-1499.	2.2	62
25	Perennial Energy Grasses: Resilient Crops in a Changing European Agriculture. Agriculture (Switzerland), 2019, 9, 169.	1.4	62
26	Salinity and Water Stress Effects on Biomass Production in Different Arundo donax L. Clones. Bioenergy Research, 2015, 8, 1461-1479.	2.2	61
27	Physiological screening for drought tolerance in Mediterranean long-storage tomato. Plant Science, 2016, 249, 25-34.	1.7	59
28	Increased free abscisic acid during drought enhances stomatal sensitivity and modifies stomatal behaviour in fast growing giant reed (Arundo donax L.). Environmental and Experimental Botany, 2018, 147, 116-124.	2.0	59
29	Leaf gas exchange, water status and radiation use efficiency of giant reed (Arundo donax L.) in a changing soil nitrogen fertilization and soil water availability in a semi-arid Mediterranean area. European Journal of Agronomy, 2016, 72, 56-69.	1.9	54
30	Perennial grasses as lignocellulosic feedstock for second-generation bioethanol production in Mediterranean environment. Italian Journal of Agronomy, 2014, 9, 84.	0.4	49
31	Enzymatic hydrolysis, simultaneous saccharification and ethanol fermentation of oxalic acid pretreated giant reed (Arundo donax L.). Industrial Crops and Products, 2013, 49, 392-399.	2.5	48
32	Physiological responses of Arundo donax ecotypes to drought: a common garden study. GCB Bioenergy, 2017, 9, 132-143.	2.5	47
33	Soil Erosion Mitigation by Perennial Species Under Mediterranean Environment. Bioenergy Research, 2015, 8, 1538-1547.	2.2	42
34	A priori parameterisation of the CERES soil-crop models and tests against several European data sets. Agronomy for Sustainable Development, 2002, 22, 119-132.	0.8	42
35	What to harvest when? Autumn, winter, annual and biennial harvesting of giant reed, miscanthus and switchgrass in northern and southern Mediterranean area. Industrial Crops and Products, 2015, 75, 129-134.	2.5	38
36	Evaluation of a phenological model for strategic decisions for hemp (Cannabis Sativa L.) biomass production across European sites. Industrial Crops and Products, 2012, 37, 100-110.	2.5	37

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37	RNASeq analysis of giant cane reveals the leaf transcriptome dynamics under long-term salt stress. BMC Plant Biology, 2019, 19, 355.	1.6	37
38	Multilocational evaluation of biomass sorghum hybrids under two stand densities and variable water supply in Italy. Industrial Crops and Products, 2004, 20, 3-9.	2.5	35
39	Water and nitrogen balance of sweet sorghum (Sorghum bicolor moench (L.)) cv. Keller under semi-arid conditions. Industrial Crops and Products, 2012, 36, 329-342.	2.5	33
40	Modeling seed germination of unprimed and primed seeds of sweet sorghum under PEG-induced water stress through the hydrotime analysis. Acta Physiologiae Plantarum, 2016, 38, 1.	1.0	32
41	A Sustainable Organic Production Model for â€œFood Sovereigntyâ€•in the United Arab Emirates and Sicily-Italy. Sustainability, 2018, 10, 620.	1.6	30
42	Yield, water use and radiation use efficiencies of kenaf (Hibiscus cannabinus L.) under reduced water and nitrogen soil availability in a semi-arid Mediterranean area. European Journal of Agronomy, 2013, 46, 53-62.	1.9	29
43	Are herbaceous perennial grasses suitable feedstock for thermochemical conversion pathways?. Industrial Crops and Products, 2016, 91, 350-357.	2.5	29
44	Moderate Drought Stress Induces Increased Foliar Dimethylsulphoniopropionate (DMSP) Concentration and Isoprene Emission in Two Contrasting Ecotypes of Arundo donax. Frontiers in Plant Science, 2017, 8, 1016.	1.7	28
45	Breeding Strategies to Improve Miscanthus as a Sustainable Source of Biomass for Bioenergy and Biorenewable Products. Agronomy, 2019, 9, 673.	1.3	28
46	Towards identifying industrial crop types and associated agronomies to improve biomass production from marginal lands in Europe. GCB Bioenergy, 2022, 14, 710-734.	2.5	26
47	Optimizing inÂvitro large scale production of giant reed (Arundo donax L.) by liquid medium culture. Biomass and Bioenergy, 2014, 69, 21-27.	2.9	25
48	New Insights into the Propagation Methods of Switchgrass, Miscanthus and Giant Reed. Bioenergy Research, 2015, 8, 1480-1491.	2.2	22
49	Targeted secondary metabolic and physico-chemical traits analysis to assess genetic variability within a germplasm collection of â€œlong storageâ€•tomatoes. Food Chemistry, 2018, 244, 275-283.	4.2	21
50	Economic viability of energy crops in the EU: the farmer's point of view. Biofuels, Bioproducts and Biorefining, 2010, 4, 637-657.	1.9	20
51	Future yields assessment of bioenergy crops in relation to climate change and technological development in Europe. Italian Journal of Agronomy, 2012, 7, 22.	0.4	20
52	Saccharum spontaneum L. ssp. aegyptiacum (Willd.) Hack. a potential perennial grass for biomass production in marginal land in semi-arid Mediterranean environment. Industrial Crops and Products, 2015, 75, 93-102.	2.5	20
53	Transcriptional response of giant reed (Arundo donax L.) low ecotype to long-term salt stress by unigene-based RNAseq. Phytochemistry, 2020, 177, 112436.	1.4	20
54	On Farm Agronomic and First Environmental Evaluation of Oil Crops for Sustainable Bioenergy Chains. Italian Journal of Agronomy, 2009, 4, 171.	0.4	19

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55	Plant Emergence of PEGâ€osmoprimed Seeds under Suboptimal Temperatures in Two Cultivars of Sweet Sorghum Differing in Seed Tannin Content. Journal of Agronomy and Crop Science, 2008, 194, 304-309.	1.7	16
56	The effect of summer drought on the yield of Arundo donax is reduced by the retention of photosynthetic capacity and leaf growth later in the growing season. Annals of Botany, 2019, 124, 567-579.	1.4	16
57	Trade-off between harvest date and lignocellulosic crop choice for advanced biofuel production in the Mediterranean area. Industrial Crops and Products, 2019, 138, 111439.	2.5	14
58	Photothermal zoning of castor (Ricinus communis L.) growing season in the semi-arid Mediterranean area. Industrial Crops and Products, 2019, 142, 111837.	2.5	14
59	Does postâ€anthesis heat stress affect plant phenology, physiology, grain yield and protein content of durum wheat in a semiâ€arid Mediterranean environment?. Journal of Agronomy and Crop Science, 2019, 205, 309-323.	1.7	14
60	Conclusive Results of the European Project OPTIMA: Optimization of Perennial Grasses for Biomass Production in the Mediterranean Area. Bioenergy Research, 2015, 8, 1459-1460.	2.2	13
61	Lignocellulosic biomass production of Mediterranean wild accessions (Oryzopsis miliacea ,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Field Crops Research, 2017, 214, 56-65.	2.3	13
62	How do sowing time and plant density affect the pigments safflomins and carthamin in florets of safflower?. Industrial Crops and Products, 2020, 148, 112313.	2.5	13
63	Analysis of Relationships and Sustainability Performance in Organic Agriculture in the United Arab Emirates and Sicily (Italy). Resources, 2019, 8, 39.	1.6	12
64	Plant indicators of available soil water in the perennial herbaceous crop Miscanthus $imes$ giganteus Greef et Deu. Agronomy for Sustainable Development, 2003, 23, 29-36.	0.8	12
65	First Report of Southern Blight Caused by Sclerotium rolfsii on Hemp (Cannabis sativa) in Sicily and Southern Italy. Plant Disease, 2007, 91, 636-636.	0.7	12
66	Soil water effect on crop growth, leaf gas exchange, water and radiation use efficiency of Saccharum spontaneum L. ssp. aegyptiacum (Willd.) Hackel in semi-arid Mediterranean environment. Italian Journal of Agronomy, 2015, 10, 185-191.	0.4	11
67	Fruit Yield, Polyphenols, and Carotenoids in Long Shelf-Life Tomatoes in Response to Drought Stress and Rewatering. Agronomy, 2021, 11, 1943.	1.3	11
68	Forage chain arrangement for sustainable livestock systems in a <scp>M</scp>editerranean area. Grass and Forage Science, 2014, 69, 625-634.	1.2	10
69	The Importance of Perennial Grasses as a Feedstock for Bioenergy and Bioproducts. , 2018, , 1-33.		10
70	Performances of Durum Wheat Varieties Under Conventional and No-Chemical Input Management Systems in a Semiarid Mediterranean Environment. Agronomy, 2019, 9, 788.	1.3	10
71	Wild Miscanthus Germplasm in a Drought-Affected Area: Physiology and Agronomy Appraisals. Agronomy, 2020, 10, 679.	1.3	10
72	Exploring the potential of wild perennial grasses as a biomass source in semi-arid Mediterranean environments. Italian Journal of Agronomy, 0, , 103-111.	0.4	9

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73	Second generation bioethanol production from Arundo donax biomass: an optimization method. Energy Procedia, 2018, 148, 728-735.	1.8	9
74	Open field experiment for the evaluation of Arundo donax ecotypes ecophysiology and yield as affected by soil water content. Industrial Crops and Products, 2019, 140, 111630.	2.5	9
75	Advanced Biomethane Production from Biologically Pretreated Giant Reed under Different Harvest Times. Agronomy, 2022, 12, 712.	1.3	9
76	Evaluation of populations of Dactylis glomerata L. native to Mediterranean environments. Crop and Pasture Science, 2012, 63, 1124.	0.7	8
77	Physiological and Agronomic Responses of Processing Tomatoes to Deficit Irrigation at Critical Stages in a Semi-Arid Environment. Agronomy, 2020, 10, 800.	1.3	8
78	Genetic and Morpho-Agronomic Characterization of Sicilian Tetraploid Wheat Germplasm. Plants, 2022, 11, 130.	1.6	8
79	Global leaf and root transcriptome in response to cadmium reveals tolerance mechanisms in Arundo donax L. BMC Genomics, 2022, 23, .	1.2	7
80	Agri-energy chains: from field to land planning. Italian Journal of Agronomy, 2009, 4, 125.	0.4	6
81	FARMERSâ€™ PREFERENCES FOR ENHANCING SUSTAINABILITY IN ARABLE LANDS: EVIDENCE FROM A CHOICE EXPERIMENT IN SICILY. New Medit, 2018, XVII, 57-70.	0.3	6
82	Giant Reed. , 2018, , 107-151.		5
83	Up-scaling agamic propagation of giant reed (Arundo donax L.) by means of single-node stem cuttings. Industrial Crops and Products, 2019, 128, 534-544.	2.5	5
84	Screening for Cold Tolerance during Germination within Sweet and Fiber Sorghums [Sorghum bicolor (L.) Moench] for Energy Biomass. Agronomy, 2021, 11, 620.	1.3	4
85	Model-Based Assessment of Giant Reed (Arundo donax L.) Energy Yield in the Form of Diverse Biofuels in Marginal Areas of Italy. Land, 2021, 10, 548.	1.2	4
86	The Impact of Soil Water Content on Yield, Composition, Energy, and Water Indicators of the Bioenergy Grass Saccharum spontaneum ssp. aegyptiacum under Three-Growing Seasons. Agronomy, 2020, 10, 1105.	1.3	3
87	Life Cycle Assessment of Biomass Production from Lignocellulosic Perennial Grasses under Changing Soil Nitrogen and Water Content in the Mediterranean Area. Agronomy, 2021, 11, 988.	1.3	3
88	Nitrogen Balance in a Sweet Sorghum Crop in a Mediterranean Environment. Agronomy, 2021, 11, 1292.	1.3	3
89	Criteria and operational guidelines to increase wastewater recovery on islands and in rural areas. , 0, 91, 214-221.		3
90	Crop Physiology in Relation to Agronomic Management Practices. Green Energy and Technology, 2013, , 17-43.	0.4	2

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91	Pasture quality and cheese traceability index of Ragusano PDO cheese. Italian Journal of Agronomy, 2015, 10, 220.	0.4	2
92	Prickly pear for biogas production: technicalâ€economic validation of a biogas power installation in an area with a high prevalence of cacti in Italy. Biofuels, Bioproducts and Biorefining, 2021, 15, 615-636.	1.9	2
93	Soil water availability on biomass yield and water indicators of diverse warm-season perennial grasses in dryness conditions. Industrial Crops and Products, 2022, 180, 114744.	2.5	2
94	Leaf appearance rate and final main stem leaf number as affected by temperature and photoperiod in cereals grown in Mediterranean environment. Italian Journal of Agronomy, 2017, , .	0.4	1
95	LAI and biomass of kenaf as affected by sowing time and plant density: A simple model simulates the time course in a Mediterranean environment. Industrial Crops and Products, 2022, 184, 114995.	2.5	1
96	Employment of industrial wastes as agents for inclusion modification in molten steels. , 2017, , 389-394.		0