

Salvatore L Cosentino

List of Publications by Year in descending order

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96
papers

4,253
citations

109321

35
h-index

118850

62
g-index

97
all docs

97
docs citations

97
times ranked

4234
citing authors

#	ARTICLE	IF	CITATIONS
1	Dry matter and qualitative characteristics of alfalfa as affected by harvest times and soil water content. <i>European Journal of Agronomy</i> , 2011, 34, 144-152.	4.1	234
2	Key cultivation techniques for hemp in Europe and China. <i>Industrial Crops and Products</i> , 2015, 68, 2-16.	5.2	233
3	Biomass yield and energy balance of three perennial crops for energy use in the semi-arid Mediterranean environment. <i>Field Crops Research</i> , 2009, 114, 204-213.	5.1	215
4	Effects of soil water deficit on yield and quality of processing tomato under a Mediterranean climate. <i>Agricultural Water Management</i> , 2010, 97, 131-138.	5.6	213
5	Effects of soil water content and nitrogen supply on the productivity of <i>Miscanthus</i> – <i>giganteus</i> Greef et Deu. in a Mediterranean environment. <i>Industrial Crops and Products</i> , 2007, 25, 75-88.	5.2	165
6	Progress in upscaling <i>Miscanthus</i> biomass production for the European bioeconomy with seed-based hybrids. <i>GCB Bioenergy</i> , 2017, 9, 6-17.	5.6	156
7	Phytoremediation of Heavy Metal-Contaminated Soils Using the Perennial Energy Crops <i>Miscanthus</i> spp. and <i>Arundo donax</i> L.. <i>Bioenergy Research</i> , 2015, 8, 1500-1511.	3.9	153
8	Agronomic aspects of future energy crops in Europe. <i>Biofuels, Bioproducts and Biorefining</i> , 2010, 4, 674-691.	3.7	125
9	First results on evaluation of <i>Arundo donax</i> L. clones collected in Southern Italy. <i>Industrial Crops and Products</i> , 2006, 23, 212-222.	5.2	117
10	Breeding progress and preparedness for mass-scale deployment of perennial lignocellulosic biomass crops switchgrass, <i>miscanthus</i> , willow and poplar. <i>GCB Bioenergy</i> , 2019, 11, 118-151.	5.6	116
11	Dilute oxalic acid pretreatment for biorefining giant reed (<i>Arundo donax</i> L.). <i>Biomass and Bioenergy</i> , 2011, 35, 3018-3024.	5.7	113
12	Marginal Agricultural Land Low-Input Systems for Biomass Production. <i>Energies</i> , 2019, 12, 3123.	3.1	113
13	Bioconversion of giant reed (<i>Arundo donax</i> L.) hemicellulose hydrolysate to ethanol by <i>Scheffersomyces stipitis</i> CBS6054. <i>Biomass and Bioenergy</i> , 2012, 39, 296-305.	5.7	93
14	Response of giant reed (<i>Arundo donax</i> L.) to nitrogen fertilization and soil water availability in semi-arid Mediterranean environment. <i>European Journal of Agronomy</i> , 2014, 60, 22-32.	4.1	93
15	Prospects of Bioenergy Cropping Systems for A More Social-Ecologically Sound Bioeconomy. <i>Agronomy</i> , 2019, 9, 605.	3.0	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. <i>Industrial Crops and Products</i> , 2009, 30, 1-8.	5.2	74
17	Second generation bioethanol production from <i>Saccharum spontaneum</i> L. ssp. <i>aegyptiacum</i> (Willd.) Hack.. <i>Bioresource Technology</i> , 2010, 101, 5358-5365.	9.6	71
18	Sowing time and prediction of flowering of different hemp (<i>Cannabis sativa</i> L.) genotypes in southern Europe. <i>Industrial Crops and Products</i> , 2012, 37, 20-33.	5.2	71

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19	Effectiveness of dilute oxalic acid pretreatment of <i>Miscanthus</i> — <i>Āgiganteus</i> biomass for ethanol production. <i>Biomass and Bioenergy</i> , 2013, 59, 540-548.	5.7	70
20	Evaluation of European developed fibre hemp genotypes (<i>Cannabis sativa</i> L.) in semi-arid Mediterranean environment. <i>Industrial Crops and Products</i> , 2013, 50, 312-324.	5.2	70
21	Agronomic, Energetic and Environmental Aspects of Biomass Energy Crops Suitable for Italian Environments. <i>Italian Journal of Agronomy</i> , 2008, 3, 81.	1.0	67
22	Economic and Environmental Assessment of Seed and Rhizome Propagated <i>Miscanthus</i> in the UK. <i>Frontiers in Plant Science</i> , 2017, 8, 1058.	3.6	66
23	Phytoremediation potential of <i>Arundo donax</i> (Giant Reed) in contaminated soil by heavy metals. <i>Environmental Research</i> , 2020, 185, 109427.	7.5	66
24	Long-Term Yields of Switchgrass, Giant Reed, and <i>Miscanthus</i> in the Mediterranean Basin. <i>Bioenergy Research</i> , 2015, 8, 1492-1499.	3.9	62
25	Perennial Energy Grasses: Resilient Crops in a Changing European Agriculture. <i>Agriculture (Switzerland)</i> , 2019, 9, 169.	3.1	62
26	Salinity and Water Stress Effects on Biomass Production in Different <i>Arundo donax</i> L. Clones. <i>Bioenergy Research</i> , 2015, 8, 1461-1479.	3.9	61
27	Physiological screening for drought tolerance in Mediterranean long-storage tomato. <i>Plant Science</i> , 2016, 249, 25-34.	3.6	59
28	Increased free abscisic acid during drought enhances stomatal sensitivity and modifies stomatal behaviour in fast growing giant reed (<i>Arundo donax</i> L.). <i>Environmental and Experimental Botany</i> , 2018, 147, 116-124.	4.2	59
29	Leaf gas exchange, water status and radiation use efficiency of giant reed (<i>Arundo donax</i> L.) in a changing soil nitrogen fertilization and soil water availability in a semi-arid Mediterranean area. <i>European Journal of Agronomy</i> , 2016, 72, 56-69.	4.1	54
30	Perennial grasses as lignocellulosic feedstock for second-generation bioethanol production in Mediterranean environment. <i>Italian Journal of Agronomy</i> , 2014, 9, 84.	1.0	49
31	Enzymatic hydrolysis, simultaneous saccharification and ethanol fermentation of oxalic acid pretreated giant reed (<i>Arundo donax</i> L.). <i>Industrial Crops and Products</i> , 2013, 49, 392-399.	5.2	48
32	Physiological responses of <i>Arundo donax</i> ecotypes to drought: a common garden study. <i>GCB Bioenergy</i> , 2017, 9, 132-143.	5.6	47
33	Soil Erosion Mitigation by Perennial Species Under Mediterranean Environment. <i>Bioenergy Research</i> , 2015, 8, 1538-1547.	3.9	42
34	A priori parameterisation of the CERES soil-crop models and tests against several European data sets. <i>Agronomy for Sustainable Development</i> , 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. <i>Industrial Crops and Products</i> , 2015, 75, 129-134.	5.2	38
36	Evaluation of a phenological model for strategic decisions for hemp (<i>Cannabis Sativa</i> L.) biomass production across European sites. <i>Industrial Crops and Products</i> , 2012, 37, 100-110.	5.2	37

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37	RNASeq analysis of giant cane reveals the leaf transcriptome dynamics under long-term salt stress. <i>BMC Plant Biology</i> , 2019, 19, 355.	3.6	37
38	Multilocational evaluation of biomass sorghum hybrids under two stand densities and variable water supply in Italy. <i>Industrial Crops and Products</i> , 2004, 20, 3-9.	5.2	35
39	Water and nitrogen balance of sweet sorghum (<i>Sorghum bicolor moench (L.) cv. Keller</i>) under semi-arid conditions. <i>Industrial Crops and Products</i> , 2012, 36, 329-342.	5.2	33
40	Modeling seed germination of unprimed and primed seeds of sweet sorghum under PEG-induced water stress through the hydrotime analysis. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	32
41	A Sustainable Organic Production Model for "Food Sovereignty" in the United Arab Emirates and Sicily-Italy. <i>Sustainability</i> , 2018, 10, 620.	3.2	30
42	Yield, water use and radiation use efficiencies of kenaf (<i>Hibiscus cannabinus L.</i>) under reduced water and nitrogen soil availability in a semi-arid Mediterranean area. <i>European Journal of Agronomy</i> , 2013, 46, 53-62.	4.1	29
43	Are herbaceous perennial grasses suitable feedstock for thermochemical conversion pathways?. <i>Industrial Crops and Products</i> , 2016, 91, 350-357.	5.2	29
44	Moderate Drought Stress Induces Increased Foliar Dimethylsulphoniopropionate (DMSP) Concentration and Isoprene Emission in Two Contrasting Ecotypes of <i>Arundo donax</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1016.	3.6	28
45	Breeding Strategies to Improve <i>Miscanthus</i> as a Sustainable Source of Biomass for Bioenergy and Biorenewable Products. <i>Agronomy</i> , 2019, 9, 673.	3.0	28
46	Towards identifying industrial crop types and associated agronomies to improve biomass production from marginal lands in Europe. <i>GCB Bioenergy</i> , 2022, 14, 710-734.	5.6	26
47	Optimizing in vitro large scale production of giant reed (<i>Arundo donax L.</i>) by liquid medium culture. <i>Biomass and Bioenergy</i> , 2014, 69, 21-27.	5.7	25
48	New Insights into the Propagation Methods of Switchgrass, <i>Miscanthus</i> and Giant Reed. <i>Bioenergy Research</i> , 2015, 8, 1480-1491.	3.9	22
49	Targeted secondary metabolic and physico-chemical traits analysis to assess genetic variability within a germplasm collection of "long storage" tomatoes. <i>Food Chemistry</i> , 2018, 244, 275-283.	8.2	21
50	Economic viability of energy crops in the EU: the farmer's point of view. <i>Biofuels, Bioproducts and Biorefining</i> , 2010, 4, 637-657.	3.7	20
51	Future yields assessment of bioenergy crops in relation to climate change and technological development in Europe. <i>Italian Journal of Agronomy</i> , 2012, 7, 22.	1.0	20
52	<i>Saccharum spontaneum L. ssp. aegyptiacum (Willd.) Hack.</i> a potential perennial grass for biomass production in marginal land in semi-arid Mediterranean environment. <i>Industrial Crops and Products</i> , 2015, 75, 93-102.	5.2	20
53	Transcriptional response of giant reed (<i>Arundo donax L.</i>) low ecotype to long-term salt stress by unigene-based RNAseq. <i>Phytochemistry</i> , 2020, 177, 112436.	2.9	20
54	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

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55	Plant Emergence of PEG-primed Seeds under Suboptimal Temperatures in Two Cultivars of Sweet Sorghum Differing in Seed Tannin Content. <i>Journal of Agronomy and Crop Science</i> , 2008, 194, 304-309.	3.5	16
56	The effect of summer drought on the yield of <i>Arundo donax</i> is reduced by the retention of photosynthetic capacity and leaf growth later in the growing season. <i>Annals of Botany</i> , 2019, 124, 567-579.	2.9	16
57	Trade-off between harvest date and lignocellulosic crop choice for advanced biofuel production in the Mediterranean area. <i>Industrial Crops and Products</i> , 2019, 138, 111439.	5.2	14
58	Photothermal zoning of castor (<i>Ricinus communis</i> L.) growing season in the semi-arid Mediterranean area. <i>Industrial Crops and Products</i> , 2019, 142, 111837.	5.2	14
59	Does post-anthesis heat stress affect plant phenology, physiology, grain yield and protein content of durum wheat in a semi-arid Mediterranean environment?. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 309-323.	3.5	14
60	Conclusive Results of the European Project OPTIMA: Optimization of Perennial Grasses for Biomass Production in the Mediterranean Area. <i>Bioenergy Research</i> , 2015, 8, 1459-1460.	3.9	13
61	Lignocellulosic biomass production of Mediterranean wild accessions (<i>Oryzopsis miliacea</i> , Tj ETQq1 1 0.784314 rgBT /Overlock 10 TFS) <i>Field Crops Research</i> , 2017, 214, 56-65.	5.1	13
62	How do sowing time and plant density affect the pigments safflomins and carthamin in florets of safflower?. <i>Industrial Crops and Products</i> , 2020, 148, 112313.	5.2	13
63	Analysis of Relationships and Sustainability Performance in Organic Agriculture in the United Arab Emirates and Sicily (Italy). <i>Resources</i> , 2019, 8, 39.	3.5	12
64	Plant indicators of available soil water in the perennial herbaceous crop <i>Miscanthus giganteus</i> Greef et Deu. <i>Agronomy for Sustainable Development</i> , 2003, 23, 29-36.	0.8	12
65	First Report of Southern Blight Caused by <i>Sclerotium rolfsii</i> on Hemp (<i>Cannabis sativa</i>) in Sicily and Southern Italy. <i>Plant Disease</i> , 2007, 91, 636-636.	1.4	12
66	Soil water effect on crop growth, leaf gas exchange, water and radiation use efficiency of <i>Saccharum spontaneum</i> L. ssp. <i>aegyptiacum</i> (Willd.) Hackel in semi-arid Mediterranean environment. <i>Italian Journal of Agronomy</i> , 2015, 10, 185-191.	1.0	11
67	Fruit Yield, Polyphenols, and Carotenoids in Long Shelf-Life Tomatoes in Response to Drought Stress and Rewatering. <i>Agronomy</i> , 2021, 11, 1943.	3.0	11
68	Forage chain arrangement for sustainable livestock systems in a Mediterranean area. <i>Grass and Forage Science</i> , 2014, 69, 625-634.	2.9	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. <i>Agronomy</i> , 2019, 9, 788.	3.0	10
71	Wild <i>Miscanthus</i> Germplasm in a Drought-Affected Area: Physiology and Agronomy Appraisals. <i>Agronomy</i> , 2020, 10, 679.	3.0	10
72	Exploring the potential of wild perennial grasses as a biomass source in semi-arid Mediterranean environments. <i>Italian Journal of Agronomy</i> , 0, , 103-111.	1.0	9

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73	Second generation bioethanol production from <i>Arundo donax</i> biomass: an optimization method. <i>Energy Procedia</i> , 2018, 148, 728-735.	1.8	9
74	Open field experiment for the evaluation of <i>Arundo donax</i> ecotypes ecophysiology and yield as affected by soil water content. <i>Industrial Crops and Products</i> , 2019, 140, 111630.	5.2	9
75	Advanced Biomethane Production from Biologically Pretreated Giant Reed under Different Harvest Times. <i>Agronomy</i> , 2022, 12, 712.	3.0	9
76	Evaluation of populations of <i>Dactylis glomerata</i> L. native to Mediterranean environments. <i>Crop and Pasture Science</i> , 2012, 63, 1124.	1.5	8
77	Physiological and Agronomic Responses of Processing Tomatoes to Deficit Irrigation at Critical Stages in a Semi-Arid Environment. <i>Agronomy</i> , 2020, 10, 800.	3.0	8
78	Genetic and Morpho-Agronomic Characterization of Sicilian Tetraploid Wheat Germplasm. <i>Plants</i> , 2022, 11, 130.	3.5	8
79	Global leaf and root transcriptome in response to cadmium reveals tolerance mechanisms in <i>Arundo donax</i> L. <i>BMC Genomics</i> , 2022, 23, .	2.8	7
80	Agri-energy chains: from field to land planning. <i>Italian Journal of Agronomy</i> , 2009, 4, 125.	1.0	6
81	FARMERS'™ PREFERENCES FOR ENHANCING SUSTAINABILITY IN ARABLE LANDS: EVIDENCE FROM A CHOICE EXPERIMENT IN SICILY. <i>New Medit</i> , 2018, XVII, 57-70.	0.3	6
82	Giant Reed. , 2018, , 107-151.		5
83	Up-scaling agamic propagation of giant reed (<i>Arundo donax</i> L.) by means of single-node stem cuttings. <i>Industrial Crops and Products</i> , 2019, 128, 534-544.	5.2	5
84	Screening for Cold Tolerance during Germination within Sweet and Fiber Sorghums [<i>Sorghum bicolor</i> (L.) Moench] for Energy Biomass. <i>Agronomy</i> , 2021, 11, 620.	3.0	4
85	Model-Based Assessment of Giant Reed (<i>Arundo donax</i> L.) Energy Yield in the Form of Diverse Biofuels in Marginal Areas of Italy. <i>Land</i> , 2021, 10, 548.	2.9	4
86	The Impact of Soil Water Content on Yield, Composition, Energy, and Water Indicators of the Bioenergy Grass <i>Saccharum spontaneum</i> ssp. <i>aegyptiacum</i> under Three-Growing Seasons. <i>Agronomy</i> , 2020, 10, 1105.	3.0	3
87	Life Cycle Assessment of Biomass Production from Lignocellulosic Perennial Grasses under Changing Soil Nitrogen and Water Content in the Mediterranean Area. <i>Agronomy</i> , 2021, 11, 988.	3.0	3
88	Nitrogen Balance in a Sweet Sorghum Crop in a Mediterranean Environment. <i>Agronomy</i> , 2021, 11, 1292.	3.0	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. <i>Green Energy and Technology</i> , 2013, , 17-43.	0.6	2

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91	Pasture quality and cheese traceability index of Ragusano PDO cheese. Italian Journal of Agronomy, 2015, 10, 220.	1.0	2
92	Prickly pear for biogas production: technical&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.	3.7	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.	5.2	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, , .	1.0	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.	5.2	1
96	Employment of industrial wastes as agents for inclusion modification in molten steels. , 2017, , 389-394.		0