

# Cecilia Stanghellini

## List of Publications by Year in descending order

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77  
papers

2,241  
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236925

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docs citations

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times ranked

1459  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimisation of supplemental light systems in Norwegian tomato greenhouses - A simulation study. <i>Biosystems Engineering</i> , 2022, 215, 129-142.	4.3	5
2	Bioeconomic evaluation of extended season and year-round tomato production in Norway using supplemental light. <i>Agricultural Systems</i> , 2022, 198, 103391.	6.1	5
3	Bio-economic evaluation of greenhouse designs for seasonal tomato production in Norway. <i>Biosystems Engineering</i> , 2021, 212, 413-430.	4.3	9
4	Irrigation management of European greenhouse vegetable crops. <i>Agricultural Water Management</i> , 2020, 242, 106393.	5.6	51
5	Smart greenhouse covers: a look into the future. <i>Acta Horticulturae</i> , 2020, , 213-224.	0.2	8
6	Plant factories: Reducing energy demand at high internal heat loads through façade design. <i>Applied Energy</i> , 2020, 262, 114544.	10.1	36
7	Materials with switchable radiometric properties: Could they become the perfect greenhouse cover?. <i>Biosystems Engineering</i> , 2020, 193, 157-173.	4.3	24
8	A greenhouse climate-yield model focussing on additional light, heat harvesting and its validation. <i>Biosystems Engineering</i> , 2020, 194, 1-15.	4.3	24
9	Plant Factories Are Heating Up: Hunting for the Best Combination of Light Intensity, Air Temperature and Root-Zone Temperature in Lettuce Production. <i>Frontiers in Plant Science</i> , 2020, 11, 592171.	3.6	41
10	Practical implementation and evaluation of optimal carbon dioxide supply control. <i>Acta Horticulturae</i> , 2020, , 193-198.	0.2	0
11	Modelling Crop Transpiration in Greenhouses: Different Models for Different Applications. <i>Agronomy</i> , 2019, 9, 392.	3.0	44
12	Resource use efficiency of indoor lettuce ( <i>Lactuca sativa</i> L.) cultivation as affected by red:blue ratio provided by LED lighting. <i>Scientific Reports</i> , 2019, 9, 14127.	3.3	113
13	Unraveling the Role of Red:Blue LED Lights on Resource Use Efficiency and Nutritional Properties of Indoor Grown Sweet Basil. <i>Frontiers in Plant Science</i> , 2019, 10, 305.	3.6	154
14	The Plant Health Monitoring System of the EDEN ISS Space Greenhouse in Antarctica During the 2018 Experiment Phase. <i>Frontiers in Plant Science</i> , 2019, 10, 1457.	3.6	25
15	Growing fresh food on future space missions: Environmental conditions and crop management. <i>Scientia Horticulturae</i> , 2018, 235, 270-278.	3.6	33
16	The functional dependence of canopy conductance on water vapor pressure deficit revisited. <i>International Journal of Biometeorology</i> , 2018, 62, 1211-1220.	3.0	5
17	Plant factories versus greenhouses: Comparison of resource use efficiency. <i>Agricultural Systems</i> , 2018, 160, 31-43.	6.1	247
18	Plant factories; crop transpiration and energy balance. <i>Agricultural Systems</i> , 2017, 153, 138-147.	6.1	90

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19	Productivity of a building-integrated roof top greenhouse in a Mediterranean climate. <i>Agricultural Systems</i> , 2017, 158, 14-22.	6.1	26
20	Technology for Rooftop Greenhouses. <i>Urban Agriculture</i> , 2017, , 83-101.	0.5	16
21	Ongoing developments in greenhouse climate control. <i>Acta Horticulturae</i> , 2017, , 1-14.	0.2	1
22	Improvement of greenhouse climate control in Mediterranean conditions: a case study from Turkey. <i>Acta Horticulturae</i> , 2017, , 889-896.	0.2	3
23	Numerical simulation of the effect of different mulches on the heat storage capacity of a Mediterranean greenhouse soil. <i>Acta Horticulturae</i> , 2017, , 119-128.	0.2	4
24	Heating and dehumidification in production greenhouses at northern latitudes: energy use. <i>Acta Horticulturae</i> , 2017, , 445-452.	0.2	11
25	Assessment of energy consumption in organic tomato greenhouse production – a case study. <i>Acta Horticulturae</i> , 2017, , 453-460.	0.2	5
26	Potential of different energy saving strategies in heated greenhouse. <i>Acta Horticulturae</i> , 2017, , 467-474.	0.2	6
27	Energy use for greenhouse heating in organic production in southern European countries. <i>Acta Horticulturae</i> , 2017, , 439-444.	0.2	1
28	Leaf sodium accumulation facilitates salt stress adaptation and preserves photosystem functionality in salt stressed <i>Ocimum basilicum</i> . <i>Environmental and Experimental Botany</i> , 2016, 130, 162-173.	4.2	26
29	EFFECT OF LOW TEMPERATURE DURING THE NIGHT IN YOUNG SWEET PEPPER PLANTS: STRESS AND RECOVERY. <i>Acta Horticulturae</i> , 2015, , 115-121.	0.2	1
30	Reducing ventilation requirements in semi-closed greenhouses increases water use efficiency. <i>Agricultural Water Management</i> , 2015, 156, 90-99.	5.6	40
31	Growth response and radiation use efficiency in tomato exposed to short-term and long-term salinized soils. <i>Scientia Horticulturae</i> , 2015, 189, 139-149.	3.6	23
32	ENERGY EFFICIENCY IN TOMATO GREENHOUSE PRODUCTION. A PRELIMINARY STUDY. <i>Acta Horticulturae</i> , 2014, , 179-185.	0.2	6
33	HORTICULTURAL PRODUCTION IN GREENHOUSES: EFFICIENT USE OF WATER. <i>Acta Horticulturae</i> , 2014, , 25-32.	0.2	45
34	IMPROVEMENTS IN THE LIFE CYCLE APPROACH AS AN ENVIRONMENTAL EVALUATION TOOL IN ORGANIC FARMING. <i>Acta Horticulturae</i> , 2014, , 287-290.	0.2	0
35	PROTECTED CULTIVATION IN EUROPE. <i>Acta Horticulturae</i> , 2013, , 11-27.	0.2	4
36	RESOURCE USE EFFICIENCY IN PROTECTED CULTIVATION: TOWARDS THE GREENHOUSE WITH ZERO EMISSIONS. <i>Acta Horticulturae</i> , 2012, , 91-100.	0.2	12

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37	AN ALGORITHM FOR OPTIMAL FERTILIZATION WITH PURE CARBON DIOXIDE IN GREENHOUSES. Acta Horticulturae, 2012, , 119-124.	0.2	3
38	MODEL-BASED DESIGN OF PROTECTED CULTIVATION SYSTEMS - FIRST RESULTS AND REMAINING CHALLENGES. Acta Horticulturae, 2012, , 255-266.	0.2	6
39	EFFECT OF DIFFUSE GLASS ON CLIMATE AND PLANT ENVIRONMENT: FIRST RESULTS FROM AN EXPERIMENT ON ROSES. Acta Horticulturae, 2012, , 255-262.	0.2	9
40	MODELING THE EFFECT OF THE POSITION OF COOLING ELEMENTS ON THE VERTICAL PROFILE OF TRANSPIRATION IN A GREENHOUSE TOMATO CROP. Acta Horticulturae, 2012, , 763-769.	0.2	3
41	ENVIRONMENTAL IMPACT ASSESSMENT OF DUTCH TOMATO CROP PRODUCTION IN A VENLO GLASSHOUSE. Acta Horticulturae, 2012, , 781-791.	0.2	21
42	LOCAL OPTIMIZATION OF THERMAL STORAGE FOR GREENHOUSES: REDUCTION OF ENERGY INPUT AND IMPROVEMENT OF INNER CLIMATE. Acta Horticulturae, 2012, , 131-138.	0.2	1
43	A methodology for model-based greenhouse design: Part 4, economic evaluation of different greenhouse designs: A Spanish case. Biosystems Engineering, 2012, 111, 336-349.	4.3	20
44	A methodology for model-based greenhouse design: Part 5, greenhouse design optimisation for southern-Spanish and Dutch conditions. Biosystems Engineering, 2012, 111, 350-368.	4.3	37
45	Environmental and economic assessment of protected crops in four European scenarios. Journal of Cleaner Production, 2012, 28, 45-55.	9.3	116
46	EFFECT OF CONDENSATION ON LIGHT TRANSMISSION AND ENERGY BUDGET OF SEVEN GREENHOUSE COVER MATERIALS. Acta Horticulturae, 2012, , 249-254.	0.2	7
47	A methodology for model-based greenhouse design: Part 1, a greenhouse climate model for a broad range of designs and climates. Biosystems Engineering, 2011, 110, 363-377.	4.3	117
48	Effect of near-infrared-radiation reflective screen materials on ventilation requirement, crop transpiration and water use efficiency of a greenhouse rose crop. Biosystems Engineering, 2011, 110, 261-271.	4.3	33
49	A methodology for model-based greenhouse design: Part 2, description and validation of a tomato yield model. Biosystems Engineering, 2011, 110, 378-395.	4.3	73
50	A methodology for model-based greenhouse design: Part 3, sensitivity analysis of a combined greenhouse climate-crop yield model. Biosystems Engineering, 2011, 110, 396-412.	4.3	31
51	HIGH TEMPERATURE CONTROL IN MEDITERRANEAN GREENHOUSE PRODUCTION: THE CONSTRAINTS AND THE OPTIONS. Acta Horticulturae, 2011, , 103-116.	0.2	5
52	CARBON DIOXIDE FERTILIZATION IN MEDITERRANEAN GREENHOUSES: WHEN AND HOW IS IT ECONOMICAL?. Acta Horticulturae, 2009, , 135-142.	0.2	10
53	FARM LEVEL OPTIMAL WATER MANAGEMENT: ASSISTANT FOR IRRIGATION UNDER DEFICIT (FLOW-AID). Acta Horticulturae, 2009, , 247-254.	0.2	6
54	THE EFFECT OF OUTDOOR CLIMATE CONDITIONS ON PASSIVE GREENHOUSE DESIGN. Acta Horticulturae, 2009, , 61-66.	0.2	5

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55	NEW DEVELOPMENTS IN GREENHOUSE TECHNOLOGY CAN MITIGATE THE WATER SHORTAGE PROBLEM OF THE 21ST CENTURY. <i>Acta Horticulturae</i> , 2008, , 45-52.	0.2	30
56	COVER MATERIALS EXCLUDING NEAR INFRARED RADIATION: EFFECT ON GREENHOUSE CLIMATE AND PLANT PROCESSES. <i>Acta Horticulturae</i> , 2008, , 477-482.	0.2	16
57	OPTIMAL GREENHOUSE DESIGN SHOULD TAKE INTO ACCOUNT OPTIMAL CLIMATE MANAGEMENT. <i>Acta Horticulturae</i> , 2008, , 97-104.	0.2	5
58	STEERING OF FOGGING: CONTROL OF HUMIDITY, TEMPERATURE OR TRANSPIRATION?. <i>Acta Horticulturae</i> , 2008, , 61-67.	0.2	9
59	EFFECTS OF ANTI-TRANSPIRANTS ON TRANSPIRATION AND ENERGY USE IN GREENHOUSE CULTIVATION. <i>Acta Horticulturae</i> , 2008, , 1365-1372.	0.2	1
60	CARBON DIOXIDE CONCENTRATION IN MEDITERRANEAN GREENHOUSES: HOW MUCH LOST PRODUCTION?. <i>Acta Horticulturae</i> , 2008, , 1541-1550.	0.2	21
61	THE COMBINED EFFECTS OF COVER DESIGN PARAMETERS ON TOMATO PRODUCTION OF A PASSIVE GREENHOUSE. <i>Acta Horticulturae</i> , 2008, , 383-392.	0.2	7
62	WHAT LIMITS THE APPLICATION OF WASTEWATER AND/OR CLOSED CYCLE IN HORTICULTURE?. <i>Acta Horticulturae</i> , 2007, , 323-330.	0.2	10
63	Effect of electrical conductivity, fruit pruning, and truss position on quality in greenhouse tomato fruit. <i>Journal of Horticultural Science and Biotechnology</i> , 2007, 82, 488-494.	1.9	30
64	THE PHOTOSYNTHESIS RESPONSE OF TOMATO TO AIR CIRCULATION. <i>Acta Horticulturae</i> , 2007, , 77-84.	0.2	7
65	THE ADAPTIVE GREENHOUSE - AN INTEGRATED SYSTEMS APPROACH TO DEVELOPING PROTECTED CULTIVATION SYSTEMS. <i>Acta Horticulturae</i> , 2006, , 399-406.	0.2	18
66	Simulation of Greenhouse Management in the Subtropics, Part I: Model Validation and Scenario Study for the Winter Season. <i>Biosystems Engineering</i> , 2005, 90, 307-318.	4.3	51
67	Simulation of Greenhouse Management in the Subtropics, Part II: Scenario Study for the Summer Season. <i>Biosystems Engineering</i> , 2005, 90, 433-441.	4.3	28
68	Plant water relations as affected by osmotic potential of the nutrient solution and potential transpiration in tomato ( <i>Lycopersicon esculentum</i> Mill.). <i>Journal of Horticultural Science and Biotechnology</i> , 2004, 79, 211-218.	1.9	15
69	Response of tomato plants to a step-change in root-zone salinity under two different transpiration regimes. <i>Scientia Horticulturae</i> , 2002, 93, 267-279.	3.6	8
70	Effect of electrical conductivity and transpiration on production of greenhouse tomato ( <i>Lycopersicon esculentum</i> L.). <i>Scientia Horticulturae</i> , 2001, 88, 11-29.	3.6	86
71	Analysis of the effect of EC and potential transpiration on vegetative growth of tomato. <i>Scientia Horticulturae</i> , 2001, 89, 9-21.	3.6	53
72	Cuticular cracking in bell pepper fruit: II. Effects of fruit water relations and fruit expansion. <i>Journal of Horticultural Science and Biotechnology</i> , 1999, 74, 1-5.	1.9	19

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73	Environmental factors affecting the cracking of greenhouse-grown bell pepper fruit. <i>Journal of Horticultural Science and Biotechnology</i> , 1999, 74, 6-12.	1.9	19
74	A model of humidity and its applications in a greenhouse. <i>Agricultural and Forest Meteorology</i> , 1995, 76, 129-148.	4.8	74
75	A comparison of soil- and canopy temperature-based methods for the early detection of water stress in a simulated patch of pasture. <i>Irrigation Science</i> , 1994, 14, 141-146.	2.8	15
76	Mixed convection above greenhouse crop canopies. <i>Agricultural and Forest Meteorology</i> , 1993, 66, 111-117.	4.8	22
77	Environmental control of greenhouse crop transpiration. <i>Biosystems Engineering</i> , 1992, 51, 297-311.	0.4	50