

# Sven-Erik Jacobsen

## List of Publications by Citations

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109 papers	5,910 citations	45 h-index	75 g-index
109 ext. papers	7,036 ext. citations	4 avg, IF	6.04 L-index

#	Paper	IF	Citations
109	The Resistance of Quinoa ( <i>Chenopodium quinoa</i> Willd.) to Adverse Abiotic Factors. <i>Food Reviews International</i> , <b>2003</b> , 19, 99-109	5.5	245
108	The Worldwide Potential for Quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Food Reviews International</i> , <b>2003</b> , 19, 167-177	5.5	239
107	Ionic and osmotic relations in quinoa ( <i>Chenopodium quinoa</i> Willd.) plants grown at various salinity levels. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 185-93	7	222
106	ABA regulated stomatal control and photosynthetic water use efficiency of potato ( <i>Solanum tuberosum</i> L.) during progressive soil drying. <i>Plant Science</i> , <b>2005</b> , 168, 831-836	5.3	203
105	Salt tolerance mechanisms in quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Environmental and Experimental Botany</i> , <b>2013</b> , 92, 43-54	5.9	195
104	Physiological responses of potato ( <i>Solanum tuberosum</i> L.) to partial root-zone drying: ABA signalling, leaf gas exchange, and water use efficiency. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 3727-37		164
103	Quinoa biodiversity and sustainability for food security under climate change. A review. <i>Agronomy for Sustainable Development</i> , <b>2014</b> , 34, 349-359	6.8	161
102	Agronomical and nutritional evaluation of quinoa seeds ( <i>Chenopodium quinoa</i> Willd.) as an ingredient in bread formulations. <i>Journal of Cereal Science</i> , <b>2012</b> , 55, 132-138	3.8	150
101	Stomatal control and water use efficiency of soybean ( <i>Glycine max</i> L. Merr.) during progressive soil drying. <i>Environmental and Experimental Botany</i> , <b>2005</b> , 54, 33-40	5.9	148
100	Oxidative stress protection and stomatal patterning as components of salinity tolerance mechanism in quinoa ( <i>Chenopodium quinoa</i> ). <i>Physiologia Plantarum</i> , <b>2012</b> , 146, 26-38	4.6	145
99	Effects of partial root-zone drying on yield, tuber size and water use efficiency in potato under field conditions. <i>Field Crops Research</i> , <b>2007</b> , 100, 117-124	5.5	143
98	Leaf gas exchange and water relation characteristics of field quinoa ( <i>Chenopodium quinoa</i> Willd.) during soil drying. <i>European Journal of Agronomy</i> , <b>2000</b> , 13, 11-25	5	136
97	The Global Expansion of Quinoa: Trends and Limits. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 622	6.2	135
96	Feeding the world: genetically modified crops versus agricultural biodiversity. <i>Agronomy for Sustainable Development</i> , <b>2013</b> , 33, 651-662	6.8	132
95	Genotypic difference in salinity tolerance in quinoa is determined by differential control of xylem Na(+) loading and stomatal density. <i>Journal of Plant Physiology</i> , <b>2013</b> , 170, 906-14	3.6	131
94	Plant responses of quinoa ( <i>Chenopodium quinoa</i> Willd.) to frost at various phenological stages. <i>European Journal of Agronomy</i> , <b>2005</b> , 22, 131-139	5	118
93	Varietal differences of quinoa's tolerance to saline conditions. <i>Plant and Soil</i> , <b>2012</b> , 357, 117-129	4.2	114

92	The Situation for Quinoa and Its Production in Southern Bolivia: From Economic Success to Environmental Disaster. <i>Journal of Agronomy and Crop Science</i> , <b>2011</b> , 197, 390-399	3.9	112
91	Does root-sourced ABA play a role for regulation of stomata under drought in quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Scientia Horticulturae</i> , <b>2009</b> , 122, 281-287	4.1	112
90	Improving crop production in the arid Mediterranean climate. <i>Field Crops Research</i> , <b>2012</b> , 128, 34-47	5.5	109
89	Deficit irrigation based on drought tolerance and root signalling in potatoes and tomatoes. <i>Agricultural Water Management</i> , <b>2010</b> , 98, 403-413	5.9	109
88	Effects of deficit irrigation (DI) and partial root drying (PRD) on gas exchange, biomass partitioning, and water use efficiency in potato. <i>Scientia Horticulturae</i> , <b>2006</b> , 109, 113-117	4.1	108
87	Water Relations and Transpiration of Quinoa ( <i>Chenopodium quinoa</i> Willd.) Under Salinity and Soil Drying. <i>Journal of Agronomy and Crop Science</i> , <b>2011</b> , 197, 348-360	3.9	104
86	Quinoa - Morphology, phenology and prospects for its production as a new crop in Europe. <i>European Journal of Agronomy</i> , <b>1993</b> , 2, 19-29	5	97
85	Frost resistance mechanisms in quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>European Journal of Agronomy</i> , <b>2007</b> , 26, 471-475	5	91
84	Evapotranspiration analysis and irrigation requirements of quinoa ( <i>Chenopodium quinoa</i> ) in the Bolivian highlands. <i>Agricultural Water Management</i> , <b>2003</b> , 60, 119-134	5.9	88
83	Agroclimatic constraints for rainfed agriculture in the Bolivian Altiplano. <i>Journal of Arid Environments</i> , <b>2007</b> , 71, 109-121	2.5	86
82	Breeding quinoa ( <i>Chenopodium quinoa</i> Willd.): potential and perspectives. <i>Molecular Breeding</i> , <b>2014</b> , 34, 13-30	3.4	83
81	Differential activity of plasma and vacuolar membrane transporters contributes to genotypic differences in salinity tolerance in a Halophyte Species, <i>Chenopodium quinoa</i> . <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 9267-85	6.3	78
80	Quinoa as Model Crop for Understanding Salt-tolerance Mechanisms in Halophytes. <i>Plant Biosystems</i> , <b>2016</b> , 150, 357-371	1.6	76
79	Nitrogen dynamics in the soil-plant system under deficit and partial root-zone drying irrigation strategies in potatoes. <i>European Journal of Agronomy</i> , <b>2008</b> , 28, 65-73	5	72
78	The Potential for Utilizing the Seed Crop Amaranth ( <i>Amaranthus</i> spp.) in East Africa as an Alternative Crop to Support Food Security and Climate Change Mitigation. <i>Journal of Agronomy and Crop Science</i> , <b>2015</b> , 201, 321-329	3.9	71
77	Enhancing salt tolerance in quinoa by halotolerant bacterial inoculation. <i>Functional Plant Biology</i> , <b>2016</b> , 43, 632-642	2.7	65
76	Ionic and photosynthetic homeostasis in quinoa challenged by salinity and drought - mechanisms of tolerance. <i>Functional Plant Biology</i> , <b>2015</b> , 42, 136-148	2.7	62
75	Effect of nitrogen and water availability of three soil types on yield, radiation use efficiency and evapotranspiration in field-grown quinoa. <i>Agricultural Water Management</i> , <b>2012</b> , 109, 20-29	5.9	59

74	Sensitivity of Two Quinoa ( <i>Chenopodium quinoa</i> Willd.) Varieties to Progressive Drought Stress. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 12-23	3.9	58
73	Rutin, a flavonoid with antioxidant activity, improves plant salinity tolerance by regulating K retention and Na exclusion from leaf mesophyll in quinoa and broad beans. <i>Functional Plant Biology</i> , <b>2015</b> , 43, 75-86	2.7	56
72	Integrating role of ethylene and ABA in tomato plants adaptation to salt stress. <i>Scientia Horticulturae</i> , <b>2014</b> , 172, 109-116	4.1	54
71	Non-destructive evaluation of chlorophyll content in quinoa and amaranth leaves by simple and multiple regression analysis of RGB image components. <i>Photosynthesis Research</i> , <b>2014</b> , 120, 263-72	3.7	53
70	Ecophysiological Analysis Of Drought And Salinity Stress Of Quinoa ( <i>Chenopodium Quinoa</i> Willd.). <i>Food Reviews International</i> , <b>2003</b> , 19, 111-119	5.5	53
69	Growth and Physiological Responses of Quinoa to Drought and Temperature Stress. <i>Journal of Agronomy and Crop Science</i> , <b>2016</b> , 202, 445-453	3.9	53
68	Effects of Salinity and Soil Drying on Radiation Use Efficiency, Water Productivity and Yield of Quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Journal of Agronomy and Crop Science</i> , <b>2012</b> , 198, 173-184	3.9	52
67	Measurement and modelling of ABA signalling in potato ( <i>Solanum tuberosum</i> L.) during partial root-zone drying. <i>Environmental and Experimental Botany</i> , <b>2008</b> , 63, 385-391	5.9	49
66	Cultivation of quinoa ( <i>Chenopodium quinoa</i> ) under temperate climatic conditions in Denmark. <i>Journal of Agricultural Science</i> , <b>1994</b> , 122, 47-52	1	47
65	Using our agrobiodiversity: plant-based solutions to feed the world. <i>Agronomy for Sustainable Development</i> , <b>2015</b> , 35, 1217-1235	6.8	45
64	Antioxidative Response of Quinoa Exposed to Iso-Osmotic, Ionic and Non-Ionic Salt Stress. <i>Journal of Agronomy and Crop Science</i> , <b>2015</b> , 201, 452-460	3.9	43
63	Cultivation of Quinoa on the Peruvian Altiplano. <i>Food Reviews International</i> , <b>2003</b> , 19, 31-41	5.5	43
62	Combined effects of soil salinity and high temperature on photosynthesis and growth of quinoa plants ( <i>Chenopodium quinoa</i> ). <i>Functional Plant Biology</i> , <b>2017</b> , 44, 665-678	2.7	42
61	Deficit Irrigation and Organic Compost Improve Growth and Yield of Quinoa and Pea. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 390-398	3.9	38
60	Quinoa's Potential in the Mediterranean Region. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 344-360	5.9	38
59	The scope for adaptation of quinoa in Northern Latitudes of Europe. <i>Journal of Agronomy and Crop Science</i> , <b>2017</b> , 203, 603-613	3.9	37
58	Quinoa in Morocco [Effect of Sowing Dates on Development and Yield. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 371-377	3.9	33
57	Saponin seed priming improves salt tolerance in quinoa. <i>Journal of Agronomy and Crop Science</i> , <b>2018</b> , 204, 31-39	3.9	33

56	Quinoa seed coats as an expanding and sustainable source of bioactive compounds: An investigation of genotypic diversity in saponin profiles. <i>Industrial Crops and Products</i> , <b>2017</b> , 104, 156-163	5.9	32
55	Adaptation of quinoa ( <i>Chenopodium quinoa</i> ) to Northern European agriculture: studies on developmental pattern. <i>Euphytica</i> , <b>1997</b> , 96, 41-48	2.1	31
54	The combined effect of deficit irrigation by treated wastewater and organic amendment on quinoa ( <i>Chenopodium quinoa</i> Willd.) productivity. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 2208-2213		30
53	Soil and foliar application of potassium enhances fruit yield and quality of tomato under salinity. <i>Turkish Journal of Biology</i> , <b>2014</b> , 38, 208-218	3.1	29
52	Global expansion of quinoa and challenges for the Andean region. <i>Global Food Security</i> , <b>2020</b> , 26, 100428	3.3	29
51	Growth and Ionic Content of Quinoa Under Saline Irrigation. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 246-260	3.9	28
50	Nitrogen Sustains Seed Yield of Quinoa Under Intermediate Drought. <i>Journal of Agronomy and Crop Science</i> , <b>2016</b> , 202, 281-291	3.9	27
49	Yield potential and salt tolerance of quinoa on salt-degraded soils of Pakistan. <i>Journal of Agronomy and Crop Science</i> , <b>2019</b> , 205, 13-21	3.9	26
48	A Short Overview of Measures for Securing Water Resources for Irrigated Crop Production. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 333-343	3.9	26
47	Saline water irrigation of quinoa ( <i>Chenopodium quinoa</i> ) under Mediterranean conditions. <i>Crop and Pasture Science</i> , <b>2015</b> , 66, 993	2.2	25
46	Saline Water Irrigation of Quinoa and Chickpea: Seedling Rate, Stomatal Conductance and Yield Responses. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 378-389	3.9	24
45	Differentiation of Photoperiod-Induced ABA and Soluble Sugar Responses of Two Quinoa ( <i>Chenopodium quinoa</i> Willd.) Cultivars. <i>Journal of Plant Growth Regulation</i> , <b>2014</b> , 33, 562-570	4.7	24
44	Weed Harrowing and Inter-Row Hoeing in Organic Grown Quinoa ( <i>Chenopodium Quinoa</i> Willd.). <i>Outlook on Agriculture</i> , <b>2010</b> , 39, 223-227	2.9	23
43	A Crossing Method for Quinoa. <i>Sustainability</i> , <b>2015</b> , 7, 3230-3243	3.6	22
42	Andean roots and tubers crops as sources of functional foods. <i>Journal of Functional Foods</i> , <b>2018</b> , 51, 86-93	3.1	21
41	A comparative analysis of cytosolic Na <sup>+</sup> changes under salinity between halophyte quinoa ( <i>Chenopodium quinoa</i> ) and glycophyte pea ( <i>Pisum sativum</i> ). <i>Environmental and Experimental Botany</i> , <b>2017</b> , 141, 154-160	5.9	20
40	Prospects for the accelerated improvement of the resilient crop quinoa. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 5333-5347	7	19
39	Developmental stability of quinoa under European conditions. <i>Industrial Crops and Products</i> , <b>1998</b> , 7, 169-174	5.9	19

38	Photoperiodic effects on short-pulse <sup>14</sup> C assimilation and overall carbon and nitrogen allocation patterns in contrasting quinoa cultivars. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 104, 9-15	5.9	17
37	Biochar Mitigates Combined Effects of Drought and Salinity Stress in Quinoa. <i>Agronomy</i> , <b>2020</b> , 10, 912	3.6	16
36	What is Wrong With the Sustainability of Quinoa Production in Southern Bolivia [A Reply to Winkel et al. (2012)]. <i>Journal of Agronomy and Crop Science</i> , <b>2012</b> , 198, 320-323	3.9	16
35	First Report of Downy Mildew of Quinoa Caused by <i>Peronospora farinosa</i> f. sp. <i>chenopodii</i> in Denmark. <i>Plant Disease</i> , <b>2002</b> , 86, 1175	1.5	16
34	New Climate-Proof Cropping Systems in Dry Areas of the Mediterranean Region. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 399-401	3.9	15
33	Effects of quinoa hull meal on piglet performance and intestinal epithelial physiology. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2012</b> , 96, 198-205	2.6	15
32	Validating a core collection of Peruvian quinoa germplasm. <i>Genetic Resources and Crop Evolution</i> , <b>1999</b> , 46, 285-290	2	14
31	PsJN Stimulate Growth and Yield of Quinoa under Salinity Stress. <i>Plants</i> , <b>2020</b> , 9,	4.5	13
30	Effect of dietary inclusion of quinoa on broiler growth performance. <i>Animal Feed Science and Technology</i> , <b>1997</b> , 65, 5-14	3	13
29	Integrated approach for the quality assessment of freshwater resources in a vineyard area (South Portugal). <i>Environmental Monitoring and Assessment</i> , <b>2011</b> , 176, 331-41	3.1	11
28	Photoperiodic effect on flowering and seed development in quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , <b>2010</b> , 60, 539-544	1.1	10
27	Some Agronomic Strategies for Organic Quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Journal of Agronomy and Crop Science</i> , <b>2016</b> , 202, 454-463	3.9	10
26	Comparative physiological and biochemical evaluation of salt and nickel tolerance mechanisms in two contrasting tomato genotypes. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 27-37	4.6	10
25	The effect of lactic acid bacteria inoculation, molasses, or wilting on the fermentation quality and nutritive value of amaranth ( <i>Amaranthus hypochondriacus</i> ) silage <sup>1</sup> . <i>Journal of Animal Science</i> , <b>2018</b> , 96, 3983-3992	0.7	9
24	Physiological characteristics and irrigation water productivity of quinoa ( <i>Chenopodium quinoa</i> Willd.) in response to deficit irrigation imposed at different growing stages: A field study from Southern Iran. <i>Journal of Agronomy and Crop Science</i> , <b>2020</b> , 206, 390-404	3.9	8
23	Assessing the Nutritional Value of Root and Tuber Crops from Bolivia and Peru. <i>Foods</i> , <b>2019</b> , 8,	4.9	8
22	Water Harvesting for Improved Water Productivity in Dry Environments of the Mediterranean Region Case study: Pistachio in Turkey. <i>Journal of Agronomy and Crop Science</i> , <b>2014</b> , 200, 361-370	3.9	7
21	Germination Responses of Cañhua ( <i>Chenopodium pallidicaule</i> Aellen) to Temperature and Sowing Depth: A Crop Growing Under Extreme Conditions. <i>Journal of Agronomy and Crop Science</i> , <b>2016</b> , 202, 542-553	3.9	7

20	Assessment of cadmium and lead tolerance potential of quinoa ( <i>Chenopodium quinoa</i> Willd) and its implications for phytoremediation and human health. <i>Environmental Geochemistry and Health</i> , <b>2021</b> , 1	4.7	6
19	Quinoa ( <i>Chenopodium quinoa</i> Willd.) and its relationship with agroclimatic characteristics: A Colombian perspective. <i>Chilean Journal of Agricultural Research</i> , <b>2020</b> , 80, 290-302	1.9	5
18	Seed Shattering of Cañahua ( <i>Chenopodium pallidicaule</i> Aellen). <i>Journal of Agronomy and Crop Science</i> , <b>2017</b> , 203, 254-267	3.9	4
17	Defoliation timing for optimal leaf nutrition in dual-use amaranth production systems. <i>Journal of the Science of Food and Agriculture</i> , <b>2020</b> , 100, 4745-4755	4.3	4
16	The Extraordinary Salt Tolerance of Quinoa. <i>Environment &amp; Policy</i> , <b>2020</b> , 125-143	0.5	4
15	Impact of natural and synthetic growth enhancers on the productivity and yield of quinoa ( <i>Chenopodium quinoa</i> Willd.) cultivated under normal and late sown circumstances. <i>Journal of Agronomy and Crop Science</i> ,	3.9	4
14	Trends and drivers of on-farm conservation of the root legume ahípa ( <i>Pachyrhizus ahípa</i> ) in Bolivia over the period 1994/96-2012. <i>Genetic Resources and Crop Evolution</i> , <b>2018</b> , 65, 449-469	2	4
13	Horizontal, Technical Cooperation in Research on Quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Food Reviews International</i> , <b>2003</b> , 19, 25-29	5.5	3
12	Cañahua ( <i>Chenopodium pallidicaule</i> ): A Promising New Crop for Arid Areas. <i>Environment &amp; Policy</i> , <b>2020</b> , 221-243	0.5	3
11	Nutritional and antinutritional compounds in leaves of quinoa. <i>Food Bioscience</i> , <b>2021</b> , 101494	4.9	3
10	A Comparative Analysis of Salinity and Nickel Tolerance of Tomato ( <i>Solanum lycopersicum</i> L.). <i>Communications in Soil Science and Plant Analysis</i> , <b>2019</b> , 50, 2294-2308	1.5	2
9	Current uses of Andean Roots and Tuber Crops in South American gourmet restaurants. <i>International Journal of Gastronomy and Food Science</i> , <b>2020</b> , 22, 100270	2.8	2
8	Drought and Salinity Differently Affect Growth and Secondary Metabolites of <i>Chenopodium quinoa</i> Willd Seedlings <b>2016</b> , 259-275		2
7	Physiological response cascade of spring wheat to soil warming and drought. <i>Crop and Pasture Science</i> , <b>2016</b> , 67, 480	2.2	1
6	A Model for Quantification of Temperature Profiles via Germination Times. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , <b>2013</b> , 18, 87-101	1.9	1
5	Improving Crop Production in the Arid Mediterranean Climate <b>2013</b> , 187-209		1
4	Current Production and Potential of Quinoa ( <i>Chenopodium quinoa</i> Willd.) in Peru. <i>Food Reviews International</i> , <b>2003</b> , 19, 149-154	5.5	1
3	Application of natural and synthetic growth promoters improves the productivity and quality of quinoa crop through enhanced photosynthetic and antioxidant activities.. <i>Plant Physiology and Biochemistry</i> , <b>2022</b> , 182, 1-10	5.4	0



- 2 Sustainable water use securing food production in dry areas of the Mediterranean region In introduction to a new EU FP7 Project. *IOP Conference Series: Earth and Environmental Science*, **2009**, 6, 372020 0.3

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