

Rodney B Thompson

List of Publications by Year in descending order

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97
papers

3,583
citations

101543

36
h-index

149698

56
g-index

100
all docs

100
docs citations

100
times ranked

2343
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of irrigation and N management practices that contribute to nitrate leaching loss from an intensive vegetable production system by use of a comprehensive survey. <i>Agricultural Water Management</i> , 2007, 89, 261-274.	5.6	209
2	Fate of nitrogen in cattle slurry following surface application or injection to grassland. <i>Journal of Soil Science</i> , 1987, 38, 689-700.	1.2	177
3	Using plant water status to define threshold values for irrigation management of vegetable crops using soil moisture sensors. <i>Agricultural Water Management</i> , 2007, 88, 147-158.	5.6	141
4	Effects of salinity on fruit yield and quality of tomato grown in soil-less culture in greenhouses in Mediterranean climatic conditions. <i>Agricultural Water Management</i> , 2008, 95, 1041-1055.	5.6	140
5	Measurement and estimation of plastic greenhouse reference evapotranspiration in a Mediterranean climate. <i>Irrigation Science</i> , 2010, 28, 497-509.	2.8	140
6	Proximal Optical Sensors for Nitrogen Management of Vegetable Crops: A Review. <i>Sensors</i> , 2018, 18, 2083.	3.8	136
7	Evaluation of optical sensor measurements of canopy reflectance and of leaf flavonols and chlorophyll contents to assess crop nitrogen status of muskmelon. <i>European Journal of Agronomy</i> , 2014, 58, 39-52.	4.1	103
8	Ammonia volatilization from cattle slurry following surface application to grassland. <i>Plant and Soil</i> , 1990, 125, 119-128.	3.7	89
9	Ammonia emission from grassland and livestock production systems in the UK. <i>Environmental Pollution</i> , 1987, 48, 173-184.	7.5	86
10	Threshold values of canopy reflectance indices and chlorophyll meter readings for optimal nitrogen nutrition of tomato. <i>Annals of Applied Biology</i> , 2015, 166, 271-285.	2.5	74
11	Consideration of total available N supply reduces N fertilizer requirement and potential for nitrate leaching loss in tomato production. <i>Agriculture, Ecosystems and Environment</i> , 2015, 200, 62-70.	5.3	72
12	Reducing gaseous losses of nitrogen from cattle slurry applied to grassland by the use of additives. <i>Journal of the Science of Food and Agriculture</i> , 1990, 50, 141-153.	3.5	71
13	Prescriptive“corrective nitrogen and irrigation management of fertigated and drip-irrigated vegetable crops using modeling and monitoring approaches. <i>Agricultural Water Management</i> , 2013, 119, 121-134.	5.6	65
14	Management Factors Affecting Ammonia Volatilization from Land“Applied Cattle Slurry in the Mid“Atlantic USA. <i>Journal of Environmental Quality</i> , 2002, 31, 1329-1338.	2.0	63
15	Evaluation of the Watermark sensor for use with drip irrigated vegetable crops. <i>Irrigation Science</i> , 2006, 24, 185-202.	2.8	62
16	Different Responses of Various Chlorophyll Meters to Increasing Nitrogen Supply in Sweet Pepper. <i>Frontiers in Plant Science</i> , 2018, 9, 1752.	3.6	61
17	Decision support systems and models for aiding irrigation and nutrient management of vegetable crops. <i>Agricultural Water Management</i> , 2020, 240, 106209.	5.6	61
18	Determination of lower limits for irrigation management using in situ assessments of apparent crop water uptake made with volumetric soil water content sensors. <i>Agricultural Water Management</i> , 2007, 92, 13-28.	5.6	59

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19	Prototype decision support system based on the VegSyst simulation model to calculate crop N and water requirements for tomato under plastic cover. <i>Irrigation Science</i> , 2014, 32, 237-253.	2.8	58
20	The ALFAM2 database on ammonia emission from field-applied manure: Description and illustrative analysis. <i>Agricultural and Forest Meteorology</i> , 2018, 258, 66-79.	4.8	57
21	Ammonia volatilization from cattle slurry following surface application to grassland. <i>Plant and Soil</i> , 1990, 125, 109-117.	3.7	54
22	Shoot and root physiological responses to localized zones of soil moisture in cultivated and wild lettuce (<i>Lactuca spp.</i>). <i>Plant, Cell and Environment</i> , 1996, 19, 1169-1178.	5.7	54
23	Short-term net N mineralization from plant residues and gross and net N mineralization From soil organic-matter after rewetting of a seasonally dry soil. <i>Soil Research</i> , 1995, 33, 961.	1.1	53
24	Simulation of transpiration, drainage, N uptake, nitrate leaching, and N uptake concentration in tomato grown in open substrate. <i>Agricultural Water Management</i> , 2009, 96, 1773-1784.	5.6	51
25	Irrigation management of European greenhouse vegetable crops. <i>Agricultural Water Management</i> , 2020, 242, 106393.	5.6	51
26	Proximal optical sensing of cucumber crop N status using chlorophyll fluorescence indices. <i>European Journal of Agronomy</i> , 2016, 73, 83-97.	4.1	49
27	Use of stem diameter variations to detect plant water stress in tomato. <i>Irrigation Science</i> , 2006, 24, 241-255.	2.8	48
28	Revised VegSyst model to calculate dry matter production, critical N uptake and ETC of several vegetable species grown in Mediterranean greenhouses. <i>Agricultural Systems</i> , 2016, 146, 30-43.	6.1	48
29	Denitrification in slurry-treated soil: Occurrence at low temperatures, relationship with soil nitrate and reduction by nitrification inhibitors. <i>Soil Biology and Biochemistry</i> , 1989, 21, 875-882.	8.8	47
30	VegSyst, a simulation model of daily crop growth, nitrogen uptake and evapotranspiration for pepper crops for use in an on-farm decision support system. <i>Irrigation Science</i> , 2013, 31, 465-477.	2.8	45
31	Evaluation of the VegSyst model with muskmelon to simulate crop growth, nitrogen uptake and evapotranspiration. <i>Agricultural Water Management</i> , 2011, 101, 107-117.	5.6	44
32	Assessing crop N status of fertigated vegetable crops using plant and soil monitoring techniques. <i>Annals of Applied Biology</i> , 2015, 167, 387-405.	2.5	43
33	Derivation of sufficiency values of a chlorophyll meter to estimate cucumber nitrogen status and yield. <i>Computers and Electronics in Agriculture</i> , 2017, 141, 54-64.	7.7	43
34	Rapid On-Farm Analysis of Manure Nutrients Using Quick Tests. <i>Journal of Production Agriculture</i> , 1999, 12, 215-224.	0.4	39
35	Water use and production of a greenhouse pepper crop under optimum and limited water supply. <i>Journal of Horticultural Science and Biotechnology</i> , 2005, 80, 87-96.	1.9	39
36	Monitoring nitrogen status of vegetable crops and soils for optimal nitrogen management. <i>Agricultural Water Management</i> , 2020, 241, 106356.	5.6	39

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37	Effect of N uptake concentration on nitrate leaching from tomato grown in free-draining soilless culture under Mediterranean conditions. <i>Scientia Horticulturae</i> , 2013, 150, 387-398.	3.6	38
38	Simulation of tomato growth, water and N dynamics using the EU-Rotate_N model in Mediterranean greenhouses with drip irrigation and fertigation. <i>Agricultural Water Management</i> , 2014, 132, 46-59.	5.6	38
39	Influence of time of day on measurement with chlorophyll meters and canopy reflectance sensors of different crop N status. <i>Precision Agriculture</i> , 2019, 20, 1087-1106.	6.0	35
40	Tools and Strategies for Sustainable Nitrogen Fertilisation of Vegetable Crops. <i>Advances in Olericulture</i> , 2017, , 11-63.	0.4	34
41	Evaluation of rapid analysis systems for on-farm nitrate analysis in vegetable cropping. <i>Spanish Journal of Agricultural Research</i> , 2009, 7, 200.	0.6	31
42	Salinity Effects on Soil Moisture Measurement Made with a Capacitance Sensor. <i>Soil Science Society of America Journal</i> , 2007, 71, 1647-1657.	2.2	30
43	Gaseous nitrogen losses and ammonia volatilization measurement following land application of cattle slurry in the mid-Atlantic region of the USA. <i>Plant and Soil</i> , 2005, 266, 231-246.	3.7	29
44	Sustainable irrigation and nitrogen management of fertigated vegetable crops. <i>Acta Horticulturae</i> , 2017, , 363-378.	0.2	29
45	Sweet pepper and nitrogen supply in greenhouse production: Critical nitrogen curve, agronomic responses and risk of nitrogen loss. <i>European Journal of Agronomy</i> , 2020, 117, 126046.	4.1	26
46	EFFECT OF APPLIED N CONCENTRATION IN A FERTIGATED VEGETABLE CROP ON SOIL SOLUTION NITRATE AND NITRATE LEACHING LOSS. <i>Acta Horticulturae</i> , 2006, , 221-224.	0.2	26
47	Feasibility of vermicomposting residues from olive oil production obtained using two stage centrifugation. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 1998, 33, 1491-1506.	1.7	25
48	Response of stem diameter variations to water stress in greenhouse-grown vegetable crops. <i>Journal of Horticultural Science and Biotechnology</i> , 2006, 81, 483-495.	1.9	25
49	Computer Programs That Calculate Manure Application Rates. <i>Journal of Production Agriculture</i> , 1997, 10, 58-69.	0.4	24
50	Determination of sufficiency values of canopy reflectance vegetation indices for maximum growth and yield of cucumber. <i>European Journal of Agronomy</i> , 2017, 84, 1-15.	4.1	23
51	Responses of soil properties, crop yield and root growth to improved irrigation and N fertilization, soil tillage and compost addition in a pepper crop. <i>Scientia Horticulturae</i> , 2017, 225, 422-430.	3.6	23
52	Feasibility of vermicomposting dairy biosolids using a modified system to avoid earthworm mortality. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 1999, 34, 151-169.	1.5	22
53	Use of EU-Rotate_N and CropSyst models to predict yield, growth and water and N dynamics of fertigated leafy vegetables in a Mediterranean climate and to determine N fertilizer requirements. <i>Agricultural Systems</i> , 2016, 149, 150-164.	6.1	22
54	Fate of urea nitrogen in sheep urine applied to soil at different times of the year in the pasture - wheat rotation in south Western Australia. <i>Australian Journal of Agricultural Research</i> , 1998, 49, 495.	1.5	22

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55	Water and fertilization management of vegetables: state of art and future challenges. <i>European Journal of Horticultural Science</i> , 2018, 83, 306-318.	0.7	21
56	Reducing nitrate leaching losses from vegetable production in Mediterranean greenhouses. <i>Acta Horticulturae</i> , 2020, , 105-118.	0.2	20
57	Pulse-labelling a cover crop with 13C to follow its decomposition in soil under field conditions. <i>Plant and Soil</i> , 1996, 180, 49-55.	3.7	18
58	The Use of Chlorophyll Meters to Assess Crop N Status and Derivation of Sufficiency Values for Sweet Pepper. <i>Sensors</i> , 2019, 19, 2949.	3.8	17
59	Assessing Performance of Vegetation Indices to Estimate Nitrogen Nutrition Index in Pepper. <i>Remote Sensing</i> , 2020, 12, 763.	4.0	16
60	Nitrogen and carbon mineralization in soil of vermi-composted and unprocessed dry olive cake ("Orujo Seco") produced from two-stage centrifugation for olive oil extraction. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 1999, 34, 917-928.	1.5	14
61	Adaptation of the VegSyst model to outdoor conditions for leafy vegetables and processing tomato. <i>Agricultural Systems</i> , 2019, 171, 51-64.	6.1	14
62	Modelling nitrogen, phosphorus, potassium, calcium and magnesium uptake, and uptake concentration, of greenhouse tomato with the VegSyst model. <i>Scientia Horticulturae</i> , 2021, 279, 109862.	3.6	13
63	ASSESSING RISK OF NITRATE LEACHING FROM THE HORTICULTURAL INDUSTRY OF ALMERIA, SPAIN. <i>Acta Horticulturae</i> , 2002, , 243-248.	0.2	12
64	Use of a Portable Rapid Analysis System to Measure Nitrate Concentration of Nutrient and Soil Solution, and Plant Sap in Greenhouse Vegetable Production. <i>Agronomy</i> , 2021, 11, 819.	3.0	11
65	Effects of soil microbial communities associated to different soil fertilization practices on tomato growth in intensive greenhouse agriculture. <i>Applied Soil Ecology</i> , 2021, 162, 103896.	4.3	11
66	UPTAKE CONCENTRATIONS OF A TOMATO CROP IN DIFFERENT SALINITY CONDITIONS. <i>Acta Horticulturae</i> , 2005, , 365-369.	0.2	10
67	Simulation of agronomic and nitrate pollution related parameters in vegetable cropping sequences in Mediterranean greenhouses using the EU-Rotate_N model. <i>Agricultural Water Management</i> , 2018, 199, 175-189.	5.6	10
68	Strategies for optimal fertiliser management of vegetable crops in Europe. <i>Acta Horticulturae</i> , 2018, , 129-140.	0.2	10
69	Showcasing a fertigation management strategy for increasing water and nitrogen use efficiency in soil-grown vegetable crops in the FERTINNOWA project. <i>Acta Horticulturae</i> , 2019, , 17-24.	0.2	10
70	Soil Monitoring Methods to Assess Immediately Available Soil N for Fertigated Sweet Pepper. <i>Agronomy</i> , 2020, 10, 2000.	3.0	10
71	Crop response of greenhouse soil-grown cucumber to total available N in a Nitrate Vulnerable Zone. <i>European Journal of Agronomy</i> , 2020, 114, 125993.	4.1	10
72	Effect of Cultivar on Chlorophyll Meter and Canopy Reflectance Measurements in Cucumber. <i>Sensors</i> , 2020, 20, 509.	3.8	10

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73	Optimizing nitrogen and water inputs for greenhouse vegetable production. <i>Acta Horticulturae</i> , 2015, , 15-30.	0.2	8
74	Reference values for phenological phases of chlorophyll meter readings and reflectance indices for optimal N nutrition of fertigated tomato. <i>Acta Horticulturae</i> , 2018, , 65-72.	0.2	8
75	Petiole sap nitrate concentration to assess crop nitrogen status of greenhouse sweet pepper. <i>Scientia Horticulturae</i> , 2021, 285, 110157.	3.6	8
76	Arsenic and Cadmium Accumulation in Soil as Affected by Continuous Organic Fertilizer Application: Implications for Clean Production. <i>Agronomy</i> , 2021, 11, 2272.	3.0	8
77	RESPONSE OF STEM DIAMETER TO WATER STRESS IN GREENHOUSE-GROWN VEGETABLE CROPS. <i>Acta Horticulturae</i> , 2004, , 253-260.	0.2	7
78	MANAGEMENT FACTORS CONTRIBUTING TO NITRATE LEACHING LOSS FROM A GREENHOUSE-BASED INTENSIVE VEGETABLE PRODUCTION SYSTEM. <i>Acta Horticulturae</i> , 2006, , 179-184.	0.2	7
79	Recovery of 15N Labeled Nitrogen Fertilizer by Fertigated and Drip Irrigated Greenhouse Vegetable Crops. <i>Agronomy</i> , 2020, 10, 741.	3.0	7
80	VegSyst-DSS software to calculate N and irrigation requirements for seven vegetable species grown with fertigation in greenhouses in SE Spain. <i>Acta Horticulturae</i> , 2017, , 65-72.	0.2	5
81	Recent advances in water and nutrient management of soil-grown crops in Mediterranean greenhouses. <i>Acta Horticulturae</i> , 2017, , 31-44.	0.2	5
82	Use of fluorescence indices as predictors of crop N status and yield for greenhouse sweet pepper crops. <i>Precision Agriculture</i> , 2022, 23, 278-299.	6.0	5
83	Using calcium carbide with the acetylene inhibition technique to measure denitrification from a sprinkler irrigated vegetable crop. <i>Plant and Soil</i> , 1996, 179, 9-16.	3.7	4
84	Mineralisation of nitrogen contained in mature subterranean clover, capeweed and annual ryegrass, and subsequent nitrogen use by wheat in dryland farming systems in southern Australia. <i>Soil Research</i> , 2002, 40, 299.	1.1	4
85	Denitrification from Cattle Slurry Applied to Grassland. , 1989, , 247-260.		4
86	Root and crop responses of sweet pepper (<i>Capsicum annuum</i>) to increasing N fertilization. <i>Scientia Horticulturae</i> , 2020, 273, 109645.	3.6	3
87	Integrated Crop-Nitrogen Management Improves Tomato Yield and Root Architecture and Minimizes Soil Residual N. <i>Agronomy</i> , 2022, 12, 1617.	3.0	3
88	IRRIGATION SCHEDULING OF DRIP-IRRIGATED VEGETABLE CROPS GROWN IN GREENHOUSES USING CONTINUOUS SOIL MOISTURE MONITORING. <i>Acta Horticulturae</i> , 2004, , 653-660.	0.2	2
89	Use of the VegSyst model to calculate crop N uptake and crop evapotranspiration of autumn- and spring-grown cucumber in Mediterranean greenhouses. <i>Acta Horticulturae</i> , 2017, , 47-54.	0.2	2
90	EFFECTS OF INCREASING SALINITY ON FRUIT DEVELOPMENT AND GROWTH OF TOMATO GROWN IN SOILLESS CULTURE. <i>Acta Horticulturae</i> , 2003, , 235-240.	0.2	1

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91	Production and water use in lettuces under variable water supply. <i>Irrigation Science</i> , 1996, 16, 125-137.	2.8	1
92	Use of the VegSys model to calculate crop N uptake and ETc of different vegetable species grown in Mediterranean greenhouses. <i>Acta Horticulturae</i> , 2018, , 105-112.	0.2	0
93	Modelling greenhouse-grown vegetable crops for optimisation of irrigation and nitrogen management. <i>Acta Horticulturae</i> , 2020, , 241-256.	0.2	0
94	Tillage effects on soil properties, crop responses and root density of sweet pepper (<i>Capsicum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	0.6	0
95	Use of the VegSys model to calculate crop N uptake and ETc of different vegetable species grown in Mediterranean greenhouses. <i>Acta Horticulturae</i> , 2017, , 105-112.	0.2	0
96	Reference values for phenological phases of chlorophyll meter readings and reflectance indices for optimal N nutrition of fertigated tomato. <i>Acta Horticulturae</i> , 2017, , 65-72.	0.2	0
97	Twentieth-century Arthurian Romance. , 0, , 454-471.		0