

Zoltan Patak

List of Publications by Year in descending order

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79
papers

1,219
citations

394421

19
h-index

434195

31
g-index

81
all docs

81
docs citations

81
times ranked

1306
citing authors

#	ARTICLE	IF	CITATIONS
1	Lycopene content and colour of ripening tomatoes as affected by environmental conditions. Journal of the Science of Food and Agriculture, 2006, 86, 568-572.	3.5	183
2	Effect of grafting on the tomato's yield, quality and main fruit components in spring forcing. Acta Alimentaria, 2005, 34, 453-462.	0.7	62
3	Physiological Factors and their Relationship with the Productivity of Processing Tomato under Different Water Supplies. Water (Switzerland), 2019, 11, 586.	2.7	53
4	Tomato Fruit Quality and Content Depend on Stage of Maturity. Hortscience: A Publication of the American Society for Horticultural Science, 2006, 41, 1400-1401.	1.0	48
5	Color Changes and Antioxidant Content of Vine and Postharvest-ripened Tomato Fruits. Hortscience: A Publication of the American Society for Horticultural Science, 2010, 45, 466-468.	1.0	46
6	Effect of natural light on surface temperature and lycopene content of vine ripened tomato fruit. Canadian Journal of Plant Science, 2007, 87, 927-929.	0.9	42
7	HPLC Analysis of Carotenoids from Tomatoes Using Cross-Linked C18 Column and MS Detection. Journal of Chromatographic Science, 2014, 52, 985-991.	1.4	40
8	Pre- and Post-harvest Factors Affecting Glucosinolate Content in Broccoli. Frontiers in Nutrition, 2020, 7, 147.	3.7	38
9	Effect of variety and grafting on lycopene content of tomato (<i>Lycopersicon lycopersicum</i> L.) Tj ETQq1 1 0.784314 rgBT/Overlo 0.7 37	0.7	37
10	Effect of irrigation on yield parameters and antioxidant profiles of processing cherry tomato. Open Life Sciences, 2014, 9, 383-395.	1.4	37
11	Estimation of antioxidant components of tomato using VIS-NIR reflectance data by handheld portable spectrometer. International Agrophysics, 2014, 28, .	1.7	36
12	Effects of the growing methods and conditions on the lycopene content of tomato fruits. Acta Alimentaria, 2003, 32, 269-278.	0.7	34
13	Carotenoid and antioxidant content of ground paprika from indoor-cultivated traditional varieties and new hybrids of spice red peppers. Food Research International, 2014, 65, 231-237.	6.2	28
14	Influence of Water Stress Levels on the Yield and Lycopene Content of Tomato. Water (Switzerland), 2020, 12, 2165.	2.7	28
15	Combined inoculation of arbuscular mycorrhizal fungi, <i>Pseudomonas fluorescens</i> and <i>Trichoderma</i> spp. for enhancing defense enzymes and yield of three pepper cultivars. Applied Ecology and Environmental Research, 2017, 15, 1815-1829.	0.5	26
16	YIELD AND QUALITY OF MYCORRHIZED PROCESSING TOMATO UNDER WATER SCARCITY. Applied Ecology and Environmental Research, 2017, 15, 401-413.	0.5	24
17	Function of the variety technological traits and growing conditions on fruit components of tomato (<i>Lycopersicon Lycopersicum</i> L. Karsten). Acta Alimentaria, 2008, 37, 427-436.	0.7	22
18	The Simultaneous Effect of Water Supply and Genotype on Yield Quantity, Antioxidants Content and Composition of Processing Tomatoes. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2014, 42, .	1.1	21

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19	The Effect of Natural Light on Changes in Antioxidant Content and Color Parameters of Vine-ripened Tomato (<i>Solanum lycopersicum</i> L.) Fruits. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011, 46, 583-585.	1.0	21
20	Carotenoid determination in tomato juice using near infrared spectroscopy. <i>International Agrophysics</i> , 2015, 29, 275-282.	1.7	20
21	The effect of daily temperature on truss flowering rate of tomato. <i>Journal of the Science of Food and Agriculture</i> , 2004, 84, 1671-1674.	3.5	19
22	The Effect of Plant Growth Promoting Rhizobacteria on the Water-yield Relationship and Carotenoid Production of Processing Tomatoes. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018, 53, 816-822.	1.0	19
23	Mycorrhizal Inoculation Alleviates Water Deficit Impact on Field-Grown Processing Tomato. <i>Polish Journal of Environmental Studies</i> , 2018, 27, 1949-1958.	1.2	19
24	Effect of irrigation on processing tomato yield and antioxidant components. <i>Türk Tarım Ve Ormancılık Dergisi/Turkish Journal of Agriculture and Forestry</i> , 0, , .	2.1	19
25	Effect of environmental conditions and water status on the bioactive compounds of broccoli. <i>Open Life Sciences</i> , 2013, 8, 777-787.	1.4	18
26	Effects of External Coloured Shade Nets on Sweet Peppers Cultivated in Walk-in Plastic Tunnels. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2015, 43, 398-403.	1.1	18
27	Analysis of the Phytochemical Composition of Pomegranate Fruit Juices, Peels and Kernels: A Comparative Study on Four Cultivars Grown in Southern Italy. <i>Plants</i> , 2021, 10, 2521.	3.5	16
28	Effect of water supply on the water use-related physiological traits and yield of snap beans in dry seasons. <i>Irrigation Science</i> , 2018, 36, 143-158.	2.8	14
29	Total Antioxidant Capacity and Total Phenolics Content of <i>Phyllostachys</i> Taxa Shoots. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2015, 43, 64-69.	1.1	13
30	DETERMINATION OF CAROTENOIDS IN TOMATO PRODUCTS USING VIS/NIR SPECTROSCOPY. <i>Journal of Microbiology, Biotechnology and Food Sciences</i> , 2017, 7, 27-31.	0.8	13
31	Yield and Phytochemical Compounds of Broccoli as Affected by Temperature, Irrigation, and Foliar Sulfur Supplementation. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2012, 47, 1646-1652.	1.0	13
32	EFFECT OF THE VARIETY AND GROWING METHODS AS WELL AS CULTIVATION CONDITIONS ON THE COMPOSITION OF TOMATO (<i>LYCOPERSICON LYCOPERSICUM</i> (L.) KARSTEN) FRUIT. <i>Acta Horticulturae</i> , 2006, , 511-516.	0.2	12
33	Effect of elevated CO ₂ on lycopene content of tomato (<i>Lycopersicon</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 183	0.7	12
34	Analysis of Antioxidant Compounds and Hydroxymethylfurfural in Processing Tomato Cultivars. <i>HortTechnology</i> , 2006, 16, 615-619.	0.9	11
35	Variable Rate Precision Irrigation Technology for Deficit Irrigation of Processing Tomato. <i>Irrigation and Drainage</i> , 2019, 68, 234-244.	1.7	10
36	THE EFFECT OF WATER AND POTASSIUM SUPPLEMENT ON YIELD AND LYCOPENE CONTENT OF PROCESSING TOMATO. <i>Acta Horticulturae</i> , 2009, , 103-108.	0.2	9

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37	The effect of plant growth-promoting rhizobacteria on yield, water use efficiency and Brix Degree of processing tomato. <i>Plant, Soil and Environment</i> , 2018, 64, 523-529.	2.2	9
38	EFFECT OF SEASON AND IRRIGATION ON YIELD PARAMETERS AND SOLUBLE SOLIDS CONTENT OF PROCESSING CHERRY TOMATO. <i>Acta Horticulturae</i> , 2015, , 197-202.	0.2	8
39	The simultaneous effect of elevated CO_2 -level and nitrogen-supply on the fruit components of tomato. <i>Acta Alimentaria</i> , 2012, 41, 265-271.	0.7	7
40	Effect of mycorrhizal inoculations on physiological traits and bioactive compounds of tomato under water scarcity in field conditions. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2020, 48, 1233-1247.	1.1	7
41	Content and response to γ -irradiation before over-ripening of capsaicinoid, carotenoid, and tocopherol in new hybrids of spice chili peppers. <i>LWT - Food Science and Technology</i> , 2021, 147, 111555.	5.2	7
42	DIFFERENT WATER SUPPLY AND STOMATAL CONDUCTANCE CORRELATES WITH YIELD QUANTITY AND QUALITY PARAMETERS. <i>Acta Horticulturae</i> , 2013, , 119-125.	0.2	7
43	Impact of Plant Growth-Promoting Rhizobacteria Inoculation on the Physiological Response and Productivity Traits of Field-Grown Tomatoes in Hungary. <i>Horticulturae</i> , 2022, 8, 641.	2.8	6
44	Seasonal and irrigation effect on yield parameters and soluble solids content of processing cherry tomato. <i>Acta Horticulturae</i> , 2017, , 45-50.	0.2	5
45	Organically grown high-lycopene tomatoes: a novel adventure within functional quality. <i>Acta Horticulturae</i> , 2019, , 67-72.	0.2	5
46	Impact of Shading Net Color on Phytochemical Contents in Two Chili Pepper Hybrids Cultivated Under Greenhouse Conditions. <i>Horticultural Science and Technology</i> , 2017, 35, .	0.6	5
47	TOMATO ANTIOXIDANTS AND YIELD AS AFFECTED BY DIFFERENT WATER SUPPLY. <i>Acta Horticulturae</i> , 2012, , 213-218.	0.2	5
48	Performance Evaluation of AquaCrop Model in Processing Tomato Biomass, Fruit Yield and Water Stress Indicator Modelling. <i>Water (Switzerland)</i> , 2021, 13, 3587.	2.7	5
49	Prediction of Soluble Solids and Lycopene Content of Processing Tomato Cultivars by Vis-NIR Spectroscopy. <i>Frontiers in Nutrition</i> , 0, 9, .	3.7	5
50	Comparison of a water supply model with six seasons of cherry type processing tomato. <i>Acta Horticulturae</i> , 2019, , 41-46.	0.2	4
51	Heat stress detection in tomato under different irrigation treatments. <i>Acta Horticulturae</i> , 2019, , 47-52.	0.2	4
52	Visible reflectance and content of isomeric ratio of lycopene in commercial and elevated lycopene tomato varieties by different technological traits. <i>Acta Alimentaria</i> , 2014, 43, 105-112.	0.7	4
53	EFFECT OF VARIETY AND WATER SUPPLY ON PHYTOCHEMICAL (PHENOLICS AND CAROTENOIDS) CONTENT AND COMPOSITION OF PROCESSING TOMATO. <i>Acta Horticulturae</i> , 2013, , 93-98.	0.2	4
54	Effect of Individual and Selected Combined Treatments With Saline Solutions and Spent Engine Oil on the Processing Attributes and Functional Quality of Tomato (<i>Solanum lycopersicon</i> L.) Fruit: In Memory of Professor Leila Ben Jaballah Radhouane (1958â€“2021). <i>Frontiers in Nutrition</i> , 2022, 9, 844162.	3.7	4

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55	Application of VIS-NIR reflectance spectra for estimating soluble solid and lycopene content of open-field processing tomato fruit juice from irrigation and mycorrhiza treatments. <i>Acta Horticulturae</i> , 2017, , 73-78.	0.2	3
56	Effect of net shading technology on the yield quality and quantity of chilli pepper under greenhouse cultivation. <i>Agrártudományi Közlemények</i> , 2021, , 5-9.	0.3	3
57	Effect of coloured shade nets on some nutritional characteristics of a kapia type pepper grown in plastic tunnel. <i>Columella Journal of Agricultural and Environmental Sciences</i> , 2016, 3, .	0.1	3
58	Seasonal Variations in Total Antioxidant Capacity and Total Phenolics Content of Leaves of <i>Phyllostachys</i> Taxa Using Different Extraction Methods. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2014, 42, .	1.1	2
59	EFFECT OF WATER SUPPLY ON YIELD CHARACTERISTICS OF PROCESSING CHERRY TOMATO. <i>Acta Horticulturae</i> , 2014, , 587-592.	0.2	2
60	EFFECT OF MYCORRHIZAE ON MAIN ANTIOXIDANT CONTENT OF PROCESSING TOMATO. <i>Acta Horticulturae</i> , 2015, , 105-110.	0.2	2
61	APPLICATION OF VIS-NIR REFLECTANCE SPECTRA FOR ESTIMATING WATER SUPPLY EFFECT ON OPEN FIELD PROCESSING TOMATO. <i>Acta Horticulturae</i> , 2015, , 191-195.	0.2	2
62	Simultaneous effect of mycorrhizae and water supply on yield formation of processing tomato. <i>Acta Horticulturae</i> , 2017, , 31-36.	0.2	2
63	Influence of colour net shading on quantity and quality of sweet pepper yield. <i>Acta Horticulturae</i> , 2017, , 359-364.	0.2	2
64	The simultaneous effect of water stress and biofertilizer on physiology and quality of processing tomato. <i>Acta Horticulturae</i> , 2019, , 53-60.	0.2	2
65	Effect of Water Supply on Physiological Response and Phytonutrient Composition of Chili Peppers. <i>Water (Switzerland)</i> , 2021, 13, 1284.	2.7	2
66	EFFECT OF ETHREL ON RIPENING DYNAMIC AND LYCOPENE CONTENT IN CASE OF TWO PROCESSING VARIETIES. <i>Acta Horticulturae</i> , 2007, , 275-280.	0.2	1
67	Effect of different production types on the yield and β -carotene content of sweet potato /cultivar <i>Ásotthalmi- 12/</i> . <i>Agrártudományi Közlemények</i> , 2021, , 45-49.	0.3	1
68	Effects of External Coloured Shade Nets on Sweet Peppers Cultivated in Walk-in Plastic Tunnels. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2015, 43, .	1.1	1
69	CHANGES IN COLOUR AND ANTIOXIDANTS DURING VINE AND POSTHARVEST RIPENING OF TOMATO FRUIT. <i>Acta Horticulturae</i> , 2010, , 239-242.	0.2	1
70	Effects of rootstock on yield and fruit quality of indeterminate tomato (<i>Lycopersicon</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (lyc	1.6	1
71	THE SIMULTANEOUS EFFECT OF HEAT STRESS AND WATER SUPPLY ON TOTAL POLYPHENOL CONTENT OF EGGPLANT. <i>Applied Ecology and Environmental Research</i> , 2015, 13, .	0.5	1
72	Drip irrigation used in processing tomato (<i>Lycopersicon lycopersicum</i> (L.) Karsten) in field culture. <i>Cereal Research Communications</i> , 2007, 35, 1045-1048.	1.6	0

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73	CHANGES OF COLOUR PARAMETERS AND ANTIOXIDANTS OF VINE RIPENED TOMATO (LYCOPERSICON) Tj ETQq1 1 0.784314 rgBT /Ov	0.2	0
74	The effect of water supply for yield formation of processing tomato. Agrártudományi Közlemények, 2012, , 165-168.	0.3	0
75	Total Antioxidant Capacity and Total Phenolics Content of <i>Phyllostachys</i> Taxa Shoots. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2015, 43, .	1.1	0
76	THE EFFECT OF WATER AVAILABILITY ON SHOOT AND CULM PROPERTIES OF A DEVELOPING PHYLLOSTACHYS IRIDESCENS GROVE. Applied Ecology and Environmental Research, 2017, 15, 25-38.	0.5	0
77	Effect of plant growth promoting Rhizobacteria (PGPRS) on yield and quality of processing tomato under water deficiency. Agrártudományi Közlemények, 2020, , 19-22.	0.3	0
78	impact of cultivar and irrigation on yield, leaf surface temperature and SPAD readings of chili pepper. Agrártudományi Közlemények, 2020, , 103-108.	0.3	0
79	Assessment of The Phenolic and Flavonoid Content in Certain Globe Artichoke (Cynara scolymus L.) Cultivars Grown in Northern Tunisia. Turkish Journal of Agriculture: Food Science and Technology, 2022, 10, 1125-1129.	0.3	0