Valtcho D Zheljazkov

List of Publications by Year
in descending order

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104	2,498	218662	265191
papers	citations	26 h-index	42 g-index

104	104	104	2711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Content, Composition, and Bioactivity of the Essential Oils of Three Basil Genotypes as a Function of Harvesting. Journal of Agricultural and Food Chemistry, 2008, 56, 380-385.	5.2	146
2	Yield and Oil Composition of 38 Basil (Ocimum basilicumL.) Accessions Grown in Mississippi. Journal of Agricultural and Food Chemistry, 2008, 56, 241-245.	5.2	138
3	Industrial Hemp (Cannabis sativa subsp. sativa) as an Emerging Source for Value-Added Functional Food Ingredients and Nutraceuticals. Molecules, 2020, 25, 4078.	3.8	119
4	Chemical Composition and Antimicrobial Activityof Laurus nobilis L. Essential Oils from Bulgaria. Molecules, 2019, 24, 804.	3.8	87
5	Distillation Time Effect on Lavender Essential Oil Yield and Composition. Journal of Oleo Science, 2013, 62, 195-199.	1.4	79
6	Lavender and hyssop productivity, oil content, and bioactivity as a function of harvest time and drying. Industrial Crops and Products, 2012, 36, 222-228.	5.2	75
7	Modification of yield and composition of essential oils by distillation time. Industrial Crops and Products, 2013, 41, 214-220.	5.2	71
8	Sourceâ€Separated Municipal Solid Waste Compost Application to Swiss Chard and Basil. Journal of Environmental Quality, 2004, 33, 542-552.	2.0	55
9	Essential oil composition, antioxidant and antimicrobial activity of the galbuli of six juniper species. Industrial Crops and Products, 2018, 124, 449-458.	5.2	49
10	Lemongrass Productivity, Oil Content, and Composition as a Function of Nitrogen, Sulfur, and Harvest Time. Agronomy Journal, 2011, 103, 805-812.	1.8	48
11	Hydrodistillation time affects dill seed essential oil yield, composition, and bioactivity. Industrial Crops and Products, 2015, 63, 190-196.	5.2	48
12	Yield, Content, and Composition of Peppermint and Spearmints as a Function of Harvesting Time and Drying. Journal of Agricultural and Food Chemistry, 2010, 58, 11400-11407.	5.2	47
13	Fertilization modifies the essential oil and physiology of basil varieties. Industrial Crops and Products, 2018, 121, 282-293.	5.2	42
14	Organic versus conventional fertilization effects on sweet basil (Ocimum basilicum L.) growth in a greenhouse system. Industrial Crops and Products, 2015, 74, 249-254.	5.2	41
15	Peppermint Productivity and Oil Composition as a Function of Nitrogen, Growth Stage, and Harvest Time. Agronomy Journal, 2010, 102, 124-128.	1.8	38
16	Distillation Time Modifies Essential Oil Yield, Composition, and Antioxidant Capacity of Fennel (Foeniculum vulgare Mill). Journal of Oleo Science, 2013, 62, 665-672.	1.4	37
17	Evaluating Agronomic Responses of Camelina to Seeding Date under Rainâ€Fed Conditions. Agronomy Journal, 2016, 108, 349-357.	1.8	36
18	Distillation time alters essential oil yield, composition, and antioxidant activity of male Juniperus scopulorum trees. Journal of Oleo Science, 2012, 61, 537-546.	1.4	35

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19	Influence of nitrogen and sulfur application on camelina performance under dryland conditions. Industrial Crops and Products, 2015, 70, 253-259.	5.2	34
20	Camelina sativa as a fallow replacement crop in wheat-based crop production systems in the US Great Plains. Industrial Crops and Products, 2018, 111, 22-29.	5.2	34
21	Hydrodistillation Extraction Time Effect on Essential Oil Yield, Composition, and Bioactivity of Coriander Oil. Journal of Oleo Science, 2014, 63, 857-865.	1.4	33
22	Factors Affecting Yields and Essential Oil Quality of Ocimum sanctum L. and Ocimum basilicum L. Cultivars. Journal of the American Society for Horticultural Science, 2004, 129, 789-794.	1.0	33
23	Antimicrobial and antioxidant activity of Juniper galbuli essential oil constituents eluted at different times. Industrial Crops and Products, 2017, 109, 529-537.	5.2	32
24	Distillation time alters essential oil yield, composition and antioxidant activity of femaleJuniperus scopulorumtrees. Journal of Essential Oil Research, 2013, 25, 62-69.	2.7	31
25	Productivity, Oil Content, and Composition of Two Spearmint Species in Mississippi. Agronomy Journal, 2010, 102, 129-133.	1.8	30
26	Dual extraction of essential oil and podophyllotoxin from Juniperus virginiana. Industrial Crops and Products, 2009, 30, 276-280.	5.2	29
27	Comparative study on the chemical composition of laurel (Laurus nobilis L.) leaves from Greece and Georgia and the antibacterial activity of their essential oil. Heliyon, 2020, 6, e05491.	3.2	28
28	Differences in essential oil yield, composition, and bioactivity of three juniper species from Eastern Europe. Industrial Crops and Products, 2018, 124, 643-652.	5.2	26
29	Effects of Produced Water on Soil Characteristics, Plant Biomass, and Secondary Metabolites. Journal of Environmental Quality, 2015, 44, 1938-1947.	2.0	25
30	Grinding and Fractionation during Distillation Alter Hemp Essential Oil Profile and Its Antimicrobial Activity. Molecules, 2020, 25, 3943.	3.8	25
31	Helichrysum italicum (Roth) G. Don Essential Oil from Serbia: Chemical Composition, Classification and Biological Activityâ€"May It Be a Suitable New Crop for Serbia?. Agronomy, 2021, 11, 1282.	3.0	25
32	Sequential Elution of Essential Oil Constituents during Steam Distillation of Hops (<i>Humulus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2018, 67, 871-883.	1.4	24
33	Industrial, CBD, and Wild Hemp: How Different Are Their Essential Oil Profile and Antimicrobial Activity?. Molecules, 2020, 25, 4631.	3.8	24
34	Yield and Composition of Ocimum basilicum L. and Ocimum sanctum L. Grown at Four Locations. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 737-741.	1.0	24
35	Distillation Time Changes Oregano Essential Oil Yields and Composition but Not the Antioxidant or Antimicrobial Activities. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 777-784.	1.0	24
36	Chemical Composition, Antioxidant, and Antimicrobial Activity of Dracocephalum moldavica L. Essential Oil and Hydrolate. Plants, 2022, 11, 941.	3.5	24

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37	Artemisinin concentration and antioxidant capacity of Artemisia annua distillation byproduct. Industrial Crops and Products, 2013, 41, 294-298.	5.2	23
38	Terpenoids in the Essential Oil and Concentrated Aromatic Products Obtained from Nicotiana glutinosa L. Leaves. Molecules, 2020, 25, 30.	3.8	23
39	Characterization of Odor-Active Compounds, Polyphenols, and Fatty Acids in Coffee Silverskin. Molecules, 2020, 25, 2993.	3.8	23
40	Yield, Composition and Antioxidant Capacity of the Essential Oil of Sweet Basil and Holy Basil as Influenced by Distillation Methods. Chemistry and Biodiversity, 2017, 14, e1600417.	2.1	22
41	Carotenoid-Related Volatile Compounds of Tobacco (Nicotiana tabacum L.) Essential Oils. Molecules, 2019, 24, 3446.	3.8	22
42	Effect of residual distillation water of 15 plants and three plant hormones on Scotch spearmint (MenthaÃ—gracilis Sole). Industrial Crops and Products, 2011, 33, 704-709.	5.2	21
43	Effects of Sewage Sludge Amendments on the Growth and Physiology of Sweet Basil. Agronomy, 2019, 9, 548.	3.0	21
44	Bioprospection of Eastern red cedar from nine physiographic regions in Mississippi. Industrial Crops and Products, 2009, 30, 59-64.	5.2	20
45	Hydrodistillation Extraction Kinetics Regression Models for Essential Oil Yield and Composition in Juniperus virginiana, J. excelsa, and J. sabina. Molecules, 2019, 24, 986.	3.8	20
46	Essential Oil Composition of Ruta graveolens L. Fruits and Hyssopus officinalis Subsp. aristatus (Godr.) Nyman Biomass as a Function of Hydrodistillation Time. Molecules, 2019, 24, 4047.	3.8	20
47	Managing Harvest Time to Control Pod Shattering in Oilseed Camelina. Agronomy Journal, 2016, 108, 656-661.	1.8	19
48	Biosolids application improves mineral composition and phenolic profile of basil cultivated on eroded soil. Scientia Horticulturae, 2019, 249, 407-418.	3.6	19
49	Effects of Distillation Time on the Pinus ponderosa Essential Oil Yield, Composition, and Antioxidant Activity. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 785-789.	1.0	19
50	Essential Oil Composition and Bioactivity of Two Juniper Species from Bulgaria and Slovakia. Molecules, 2021, 26, 3659.	3.8	18
51	Essential Oil Composition and Yield of Anise from Different Distillation Times. Hortscience: A Publication of the American Society for Hortcultural Science, 2013, 48, 1393-1396.	1.0	18
52	Green extraction of hemp (Cannabis sativa L.) using microwave method for recovery of three valuable fractions (essential oil, phenolic compounds and cannabinoids): a central composite design optimization study. Journal of the Science of Food and Agriculture, 2022, 102, 6220-6235.	3.5	18
53	Macronutrients in Soil and Wheat as Affected by a Long-Term Tillage and Nitrogen Fertilization in Winter Wheatâ€“Fallow Rotation. Agronomy, 2019, 9, 178.	3.0	17
54	Utilization of Nutmeg (Myristica fragrans Houtt.) Seed Hydrodistillation Time to Produce Essential Oil Fractions with Varied Compositions and Pharmacological Effects. Molecules, 2020, 25, 565.	3.8	17

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55	Distillation Time as Tool for Improved Antimalarial Activity and Differential Oil Composition of Cumin Seed Oil. PLoS ONE, 2015, 10, e0144120.	2.5	16
56	Effect of tillage on macronutrients in soil and wheat of a long-term dryland wheat-pea rotation. Soil and Tillage Research, 2019, 190, 194-201.	5.6	16
57	Essential Oil Yield and Composition of the Balkan Endemic Satureja pilosa Velen. (Lamiaceae). Molecules, 2020, 25, 827.	3.8	16
58	Biological Activity of Essential Oils of Four Juniper Species and Their Potential as Biopesticides. Molecules, 2021, 26, 6358.	3.8	16
59	Yield and Composition of Oil from Japanese Cornmint Fresh and Dry Material Harvested Successively. Agronomy Journal, 2010, 102, 1652-1656.	1.8	14
60	Dual Extraction of Essential Oil and Podophyllotoxin from Creeping Juniper (Juniperus horizontalis). PLoS ONE, 2014, 9, e106057.	2.5	14
61	Micronutrients decline under long-term tillage and nitrogen fertilization. Scientific Reports, 2019, 9, 12020.	3.3	14
62	Macronutrient in soils and wheat from long-term agroexperiments reflects variations in residue and fertilizer inputs. Scientific Reports, 2020, 10, 3263.	3.3	14
63	Lignan and Nutrient Concentrations in American Mayapple (Podophyllum peltatum L.) in the Eastern United States. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 349-353.	1.0	14
64	Year-round Variations in Essential Oil Content and Composition of Male and Female Juniper. Hortscience: A Publication of the American Society for Hortcultural Science, 2013, 48, 883-886.	1.0	14
65	Chemotypes of Juniperus oxycedrus in Bulgaria and the antimicrobial activity of galbuli essential oils. Industrial Crops and Products, 2020, 158, 113005.	5.2	13
66	Chemical Characterization and Antibacterial Activity of Essential Oil of Medicinal Plants from Eastern Serbia. Molecules, 2020, 25, 5482.	3.8	13
67	Ethanol and High-Value Terpene Co-Production from Lignocellulosic Biomass of Cymbopogon flexuosus and Cymbopogon martinii. PLoS ONE, 2015, 10, e0139195.	2.5	13
68	Distillation Time Effect on Essential Oil Yield, Composition, and Antioxidant Capacity of Sweet Sagewort (Artemisia annua L.) Oil. Hortscience: A Publication of the American Society for Hortcultural Science, 2013, 48, 1288-1292.	1.0	13
69	Yield, Composition, and Antioxidant Capacity of Ground Cumin Seed Oil Fractions Obtained at Different Time Points during the Hydrodistillation. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 1213-1217.	1.0	12
70	Effect of varying ratios of produced water and municipal water on soil characteristics, plant biomass, and secondary metabolites of Artemisia annua and Panicum virgatum. Industrial Crops and Products, 2015, 76, 987-994.	5.2	11
71	Study on Japanese Cornmint in Mississippi. Agronomy Journal, 2010, 102, 696-702.	1.8	10
72	Nitrogen Application in Sainfoin under Rainâ€Fed Conditions in Wyoming: Productivity and Cost Implications. Agronomy Journal, 2016, 108, 294-300.	1.8	10

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73	Assessment of the Fertilization Capacity of the Aquaculture Sediment for Wheat Grass as Sustainable Alternative Use. Plants, 2022, 11, 634.	3.5	10
74	The Effect of Coal-Bed Methane Water on Spearmint and Peppermint. Journal of Environmental Quality, 2013, 42, 1815-1821.	2.0	9
75	Micronutrients in the Soil and Wheat: Impact of 84 Years of Organic or Synthetic Fertilization and Crop Residue Management. Agronomy, 2019, 9, 464.	3.0	9
76	GC-MS Composition and Olfactory Profile of Concretes from the Flowers of Four Nicotiana Species. Molecules, 2020, 25, 2617.	3.8	9
77	Diurnal Effects on Mentha canadensis Oil Concentration and Composition at Two Different Harvests. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 85-89.	1.0	9
78	Valorization of CBD-hemp through distillation to provide essential oil and improved cannabinoids profile. Scientific Reports, 2021, 11, 19890.	3.3	9
79	Chemical Profile and Antimicrobial Activity of the Essential Oils of Helichrysum arenarium (L.) Moench. and Helichrysum italicum (Roth.) G. Don. Plants, 2022, 11, 951.	3.5	9
80	Bioprospecting for podophyllotoxin in the Big Horn Mountains, Wyoming. Industrial Crops and Products, 2013, 43, 787-790.	5.2	8
81	Coal-Bed Methane Water Effects on Dill and Its Essential Oils. Journal of Environmental Quality, 2016, 45, 728-733.	2.0	8
82	Phytochemical Investigation and Reproductive Capacity of the Bulgarian Endemic Plant Species Marrubium friwaldskyanum Boiss. (Lamiaceae). Plants, 2022, 11, 114.	3.5	8
83	Sprout Suppressants in Potato Storage: Conventional Options and Promising Essential Oilsâ€"A Review. Sustainability, 2022, 14, 6382.	3.2	8
84	Influence of the Land Use Type on the Wild Plant Diversity. Plants, 2020, 9, 602.	3.5	7
85	The Effect of Myco-Biocontrol Based Formulates on Yield, Physiology and Secondary Products of Organically Grown Basil. Agriculture (Switzerland), 2021, 11, 180.	3.1	7
86	Wheat and Barley Grass Juice Addition to a Plant-Based Feed Improved Growth and Flesh Quality of Common Carp (Cyprinus carpio). Animals, 2022, 12, 1046.	2.3	7
87	Essential Oil Yield, Composition, and Bioactivity of Sagebrush Species in the Bighorn Mountains. Plants, 2022, 11, 1228.	3.5	7
88	Method for attaining fennel (Foeniculum vulgare Mill.) seed oil fractions with different composition and antioxidant capacity. Journal of Applied Research on Medicinal and Aromatic Plants, 2015, 2, 87-91.	1.5	6
89	Method for Attaining Caraway Seed Oil Fractions with Different Composition. Chemistry and Biodiversity, 2016, 13, 695-699.	2.1	6
90	Coalâ€Bed Methane Water: Effects on Soil Properties and Camelina Productivity. Journal of Environmental Quality, 2017, 46, 641-648.	2.0	6

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91	Micronutrient Concentrations in Soil and Wheat Decline by Long-Term Tillage and Winter Wheatâ€“Pea Rotation. Agronomy, 2019, 9, 359.	3.0	6
92	Comparative Study on the Phytochemical Composition and Antioxidant Activity of Grecian Juniper (Juniperus excelsa M. Bieb) Unripe and Ripe Galbuli. Plants, 2020, 9, 1207.	3.5	6
93	Effect of Plant Hormones and Distillation Water on Mints. Hortscience: A Publication of the American Society for Hortcultural Science, 2010, 45, 1338-1340.	1.0	6
94	Allelopathic Effects of Essential Oils on Seed Germination of Barley and Wheat. Plants, 2021, 10, 2728.	3.5	6
95	Chemical Composition of the Essential Oil of the Endemic Species Micromeria frivaldszkyana (Degen) Velen.. Molecules, 2019, 24, 440.	3.8	5
96	Genetic diversity, reproductive capacity and alkaloids content in three endemic Alkanna species. PLoS ONE, 2020, 15, e0233516.	2.5	5
97	Mentha canadensis L., a subtropical plant, can withstand first few fall frosts when grown in northern climate. Industrial Crops and Products, 2013, 49, 521-525.	5.2	4
98	Effect of Plant Essential Oils against Rophalosiphum padi on Wheat and Barley. Natural Product Communications, 2017, 12, 1934578X1701200.	0.5	4
99	Dual Utilization of Medicinal and Aromatic Crops as Bioenergy Feedstocks. Journal of Agricultural and Food Chemistry, 2018, 66, 8744-8752.	5.2	4
100	Phytochemical Variability of Essential Oils of Two Balkan Endemic Species: Satureja pilosa Velen. and S. kitaibelii Wierzb. ex Heuff. (Lamiaceae). Molecules, 2022, 27, 3153.	3.8	4
101	Chemical Profile and Bioactivity of Essential Oil Fractions as a Function of Distillation Time. ACS Symposium Series, 2016, , 145-166.	0.5	3
102	Terpenes and Cannabinoids Yields and Profile from Direct-Seeded and Transplanted CBD-Cannabis sativa. Journal of Agricultural and Food Chemistry, 2022, 70, 10417-10428.	5.2	2
103	Gypsum and Coal-bed Methane Water Modify Growth Media Properties, Nutrient Uptake, and Essential Oil Profile of Lemongrass and Palmarosa. Agronomy, 2019, 9, 282.	3.0	1
104	Irrigation with Coalbed Methane Co-Produced Water Reduces Forage Yield and Increases Soil Sodicity However Does Not Impact Forage Quality. Sustainability, 2021, 13, 3545.	3.2	1