

Oksana V Sytar

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

4,606
citations

147726

31
h-index

114418

63
g-index

81
all docs

81
docs citations

81
times ranked

5311
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Metal and Metal Oxide Nanoparticles on Plant: A Critical Review. <i>Frontiers in Chemistry</i> , 2017, 5, 78.	1.8	512
2	Heavy metal-induced oxidative damage, defense reactions, and detoxification mechanisms in plants. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 985-999.	1.0	448
3	Therapeutic Potential of Quercetin: New Insights and Perspectives for Human Health. <i>ACS Omega</i> , 2020, 5, 11849-11872.	1.6	335
4	Phytohormone Priming: Regulator for Heavy Metal Stress in Plants. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 739-752.	2.8	282
5	Low PSI content limits the photoprotection of PSI and PSII in early growth stages of chlorophyll b-deficient wheat mutant lines. <i>Photosynthesis Research</i> , 2015, 125, 151-166.	1.6	186
6	Repetitive light pulse-induced photoinhibition of photosystem I severely affects CO ₂ assimilation and photoprotection in wheat leaves. <i>Photosynthesis Research</i> , 2015, 126, 449-463.	1.6	186
7	Lead toxicity, defense strategies and associated indicative biomarkers in <i>Talinum triangulare</i> grown hydroponically. <i>Chemosphere</i> , 2012, 89, 1056-1065.	4.2	149
8	Chitosan nanoparticles as a promising tool in nanomedicine with particular emphasis on oncological treatment. <i>Cancer Cell International</i> , 2021, 21, 318.	1.8	139
9	Comparative analysis of bioactive phenolic compounds composition from 26 medicinal plants. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 631-641.	1.8	129
10	Plasticity of photosynthetic processes and the accumulation of secondary metabolites in plants in response to monochromatic light environments: A review. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148131.	0.5	124
11	Myricetin bioactive effects: moving from preclinical evidence to potential clinical applications. <i>BMC Complementary Medicine and Therapies</i> , 2020, 20, 241.	1.2	118
12	Salinity Stress in Wheat (<i>Triticum aestivum</i> L.) in the Changing Climate: Adaptation and Management Strategies. <i>Frontiers in Agronomy</i> , 2021, 3, .	1.5	117
13	Genistein: An Integrative Overview of Its Mode of Action, Pharmacological Properties, and Health Benefits. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-36.	1.9	104
14	Paclitaxel: Application in Modern Oncology and Nanomedicine-Based Cancer Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-24.	1.9	93
15	Applying hyperspectral imaging to explore natural plant diversity towards improving salt stress tolerance. <i>Science of the Total Environment</i> , 2017, 578, 90-99.	3.9	86
16	Shift in accumulation of flavonoids and phenolic acids in lettuce attributable to changes in ultraviolet radiation and temperature. <i>Scientia Horticulturae</i> , 2018, 239, 193-204.	1.7	73
17	Physiological and molecular mechanisms of metal accumulation in hyperaccumulator plants. <i>Physiologia Plantarum</i> , 2021, 173, 148-166.	2.6	60
18	Natural Coumarins: Exploring the Pharmacological Complexity and Underlying Molecular Mechanisms. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-19.	1.9	59

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19	Anthocyanins of Coloured Wheat Genotypes in Specific Response to SalStress. <i>Molecules</i> , 2018, 23, 1518.	1.7	55
20	Evaluation of Hyperspectral Reflectance Parameters to Assess the Leaf Water Content in Soybean. <i>Water (Switzerland)</i> , 2019, 11, 443.	1.2	55
21	Strategies to Mitigate the Salt Stress Effects on Photosynthetic Apparatus and Productivity of Crop Plants. , 2018, , 85-136.		52
22	Bioactive Phytochemicals and Antioxidant Properties of the Grains and Sprouts of Colored Wheat Genotypes. <i>Molecules</i> , 2018, 23, 2282.	1.7	48
23	The Contribution of Buckwheat Genetic Resources to Health and Dietary Diversity. <i>Current Genomics</i> , 2016, 17, 193-206.	0.7	44
24	Phenolic acids in the inflorescences of different varieties of buckwheat and their antioxidant activity. <i>Journal of King Saud University - Science</i> , 2015, 27, 136-142.	1.6	43
25	Lettuce flavonoids screening and phenotyping by chlorophyll fluorescence excitation ratio. <i>Planta</i> , 2017, 245, 1215-1229.	1.6	43
26	Molecular Docking Studies of Coumarins Isolated from Extracts and Essential Oils of <i>Zosima absinthifolia</i> Link as Potential Inhibitors for Alzheimer's Disease. <i>Molecules</i> , 2019, 24, 722.	1.7	42
27	COVID-19 Prophylaxis Efforts Based on Natural Antiviral Plant Extracts and Their Compounds. <i>Molecules</i> , 2021, 26, 727.	1.7	42
28	Influence of plant origin natural \pm -pinene with different enantiomeric composition on bacteria, yeasts and fungi. <i>FÄ-toterapÄ-Äç</i> , 2018, 127, 20-24.	1.1	41
29	Osmotic Adjustment and Plant Adaptation to Drought Stress. , 2016, , 105-143.		38
30	Identification of non-alkaloid natural compounds of <i>Angelica purpurascens</i> (AvÄ©-Lall.) Gilli. (Apiaceae) with cholinesterase and carbonic anhydrase inhibition potential. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 1-14.	1.2	38
31	Therapeutic Applications of Curcumin in Diabetes: A Review and Perspective. <i>BioMed Research International</i> , 2022, 2022, 1-14.	0.9	38
32	Nano-Derived Therapeutic Formulations with Curcumin in Inflammation-Related Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-15.	1.9	37
33	In vivo bioactivity assessment on <i>Epilobium</i> species: A particular focus on <i>Epilobium angustifolium</i> and its components on enzymes connected with the healing process. <i>Journal of Ethnopharmacology</i> , 2020, 262, 113207.	2.0	34
34	Resveratrol-Based Nanoformulations as an Emerging Therapeutic Strategy for Cancer. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 649395.	1.6	34
35	Antifungal properties of hypericin, hypericin tetrasulphonic acid and fagopyrin on pathogenic fungi and spoilage yeasts. <i>Pharmaceutical Biology</i> , 2016, 54, 3121-3125.	1.3	33
36	The Involvement of Different Secondary Metabolites in Salinity Tolerance of Crops. , 2018, , 21-48.		33

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37	Antioxidant and anticholinesterase potential of <i>Ferulago cassia</i> with further bio-guided isolation of active coumarin constituents. <i>South African Journal of Botany</i> , 2019, 121, 536-542.	1.2	33
38	Consequences of Salinity Stress on the Quality of Crops and Its Mitigation Strategies for Sustainable Crop Production: An Outlook of Arid and Semi-arid Regions. , 2020, , 503-533.		31
39	Foliar Applied Nickel on Buckwheat (<i>Fagopyrum esculentum</i>) Induced Phenolic Compounds as Potential Antioxidants. <i>Clean - Soil, Air, Water</i> , 2013, 41, 1129-1137.	0.7	30
40	A caryophyllene oxide and other potential anticholinesterase and anticancer agent in <i>Salvia verticillata</i> subsp. <i>amasiaca</i> (Freyn & Bornm.) Bornm. (Lamiaceae). <i>Journal of Essential Oil Research</i> , 2020, 32, 512-525.	1.3	30
41	Chlorophyll-depleted wheat mutants are disturbed in photosynthetic electron flow regulation but can retain an acclimation ability to a fluctuating light regime. <i>Environmental and Experimental Botany</i> , 2020, 178, 104156.	2.0	30
42	Free Radicals Scavenging Capacity, Antidiabetic and Antihypertensive Activities of Flavonoid-Rich Fractions from Leaves of <i>Trichilia emetica</i> and <i>Opilia amentacea</i> in an Animal Model of Type 2 Diabetes Mellitus. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-13.	0.5	27
43	Antidiarrheal and antimicrobial profiles extracts of the leaves from <i>Trichilia emetica</i> Vahl. (Meliaceae). <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2015, 5, 242-248.	0.5	26
44	Anthocyanin™s as marker for selection of buckwheat plants with high rutin content. <i>Gesunde Pflanzen</i> , 2014, 66, 165-169.	1.7	25
45	The application of multiplex fluorimetric sensor for the analysis of flavonoids content in the medicinal herbs family Asteraceae, Lamiaceae, Rosaceae. <i>Biological Research</i> , 2015, 48, 5.	1.5	24
46	Precultivation of young seedlings under different color shades modifies the accumulation of phenolic compounds in <i>Cichorium</i> leaves in later growth phases. <i>Environmental and Experimental Botany</i> , 2019, 165, 30-38.	2.0	24
47	Potential of Karrikins as Novel Plant Growth Regulators in Agriculture. <i>Plants</i> , 2020, 9, 43.	1.6	24
48	Plants Used for Biomonitoring and Phytoremediation of Trace Elements in Soil and Water. , 2016, , 361-384.		22
49	Hyssopus Essential Oil: An Update of Its Phytochemistry, Biological Activities, and Safety Profile. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-10.	1.9	21
50	Effect of chlorocholine chlorid on phenolic acids accumulation and polyphenols formation of buckwheat plants. <i>Biological Research</i> , 2014, 47, 19.	1.5	19
51	Chlorophyll Fluorescence Kinetics May Be Useful to Identify Early Drought and Irrigation Effects on Photosynthetic Apparatus in Field-Grown Wheat. <i>Agronomy</i> , 2020, 10, 1275.	1.3	19
52	A Brief Overview of Potential Treatments for Viral Diseases Using Natural Plant Compounds: The Case of SARS-Cov. <i>Molecules</i> , 2021, 26, 3868.	1.7	19
53	Assessment of hyperspectral indicators related to the content of phenolic compounds and multispectral fluorescence records in chicory leaves exposed to various light environments. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 429-438.	2.8	18
54	Accumulation of amino acids and flavonoids in hairy root cultures of common buckwheat (<i>Fagopyrum esculentum</i>). <i>Physiology and Molecular Biology of Plants</i> , 2019, 25, 787-797.	1.4	17

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55	Effects of brassinosteroid on the induction of physiological changes in <i>Helianthus annuus</i> L. under copper stress. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2013, 61, 623-629.	0.2	16
56	The Therapeutic Potential of the Labdane Diterpenoid Forskolin. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4089.	1.3	15
57	The natural phenolic compounds and their antioxidant and anticholinesterase potential of herb <i>Leiotulus dasyanthus</i> (K. Koch) Pimenov & Ostr.. <i>Natural Product Research</i> , 2020, 34, 1303-1305.	1.0	15
58	Effect of photosensitisers on growth and morphology of <i>Phytophthora citrophthora</i> coupled with leaf bioassays in pear seedlings. <i>Plant Protection Science</i> , 2020, 56, 74-82.	0.7	15
59	Possible ways of fagopyrin biosynthesis and production in buckwheat plants. <i>FÅ-toterapÅ-Åç</i> , 2013, 84, 72-79.	1.1	14
60	Consequences and Mitigation Strategies of Heat Stress for Sustainability of Soybean (<i>Glycine max</i> L.) Tj ETQq0 0 0 rgBT /Overlock 10 Tff		14
61	Risk Assessment of Urban Lake Water Quality Based on in-situ Cyanobacterial and Total Chlorophyll-a Monitoring. <i>Polish Journal of Environmental Studies</i> , 2016, 25, 655-661.	0.6	14
62	Nondestructive detection and biochemical quantification of buckwheat leaves using visible (VIS) and near-infrared (NIR) hyperspectral reflectance imaging. <i>Journal of Central European Agriculture</i> , 2017, 18, 864-878.	0.3	12
63	The effect of growth conditions on flavonols and anthocyanins accumulation in green and red lettuce. <i>Journal of Central European Agriculture</i> , 2016, 17, 986-997.	0.3	11
64	Anti-nociceptive properties in rodents and the possibility of using polyphenol-rich fractions from <i>sida urens</i> L. (Malvaceae) against of dental caries bacteria. <i>Annals of Clinical Microbiology and Antimicrobials</i> , 2013, 12, 14.	1.7	10
65	Bioactive Compounds and Their Biofunctional Properties of Different Buckwheat Germplasm for Food Processing. , 2018, , 191-204.		10
66	Anatomical and Phytochemical Characteristics of Different Parts of <i>Hypericum scabrum</i> L. Extracts, Essential Oils, and Their Antimicrobial Potential. <i>Molecules</i> , 2022, 27, 1228.	1.7	10
67	Safety Profile, In Vitro Anti-Inflammatory Activity, and In Vivo Antiulcerogenic Potential of Root Barks from <i>Annona senegalensis</i> Pers. (Annonaceae). <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-12.	0.5	9
68	Implications of Fagopyrin Formation In Vitro by UV Spectroscopic Analysis. <i>Molecules</i> , 2021, 26, 2013.	1.7	7
69	The Effects of Photosensitizing Dyes Fagopyrin and Hypericin on Planktonic Growth and Multicellular Life in Budding Yeast. <i>Molecules</i> , 2021, 26, 4708.	1.7	7
70	Maize Adaptability to Heat Stress under Changing Climate. , 0, , .		7
71	Determination of natural phenolic compounds of <i>Ferula longipedunculata</i> (PeÅÿmen and assessment their antioxidant and anticholinesterase potentials. <i>Natural Product Research</i> , 2021, 35, 1654-1656.	1.0	6
72	ANTIOXIDANT ACTIVITY AND PHENOLICS COMPOSITION IN STEVIA REBAUDIANA PLANTS OF DIFFERENT ORIGIN. <i>Journal of Microbiology, Biotechnology and Food Sciences</i> , 2015, 5, 221-224.	0.4	6

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73	Production of Biodiesel Feedstock from the Trace Element Contaminated Lands in Ukraine. , 2016, , 3-28.		5
74	Special Issue "Bioactive Compounds from Natural Sources (2020, 2021)"• Molecules, 2022, 27, 1929.	1.7	4
75	Novel resistance mechanism of barley chlorina f104 antenna mutant against photoinhibition: possible role of new identified chloroplastic cpNrp protein. Theoretical and Experimental Plant Physiology, 2015, 27, 75-85.	1.1	3
76	Noninvasive Methods to Support Metabolomic Studies Targeted at Plant Phenolics for Food and Medicinal Use. , 2016, , 407-443.		3
77	Perspectives in High-Throughput Phenotyping of Qualitative Traits at the Whole-Plant Level. , 2018, , 213-243.		1
78	Remodeling of the composition of the membrane lipids of buckwheat plants (Fagopyrum esculentum) Tj ETQq0 0 0 rgBT /Overlock solubilizing microorganisms. Journal of Central European Agriculture, 2017, 18, 879-888.	0.3	1
79	The anatomical, morphological features, and biological activity of Scilla siberica subsp. armena (Grossh.) Mordak (Asparagaceae). Protoplasma, 2023, 260, 371-389.	1.0	1