Branka Salopek-Sondi

List of Publications by Year
in descending order

57 papers	6,815 citations	279798 23 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	10541 citing authors

#	Article	IF	Citations
1	Silver nanoparticles as antimicrobial agent: a case study on E. coli as aÂmodel for Gram-negative bacteria. Journal of Colloid and Interface Science, 2004, 275, 177-182.	9.4	4,925
2	The Role of Polyphenols in Abiotic Stress Response: The Influence of Molecular Structure. Plants, 2021, 10, 118.	3.5	295
3	Kale (Brassica oleracea var. acephala) as a superfood: Review of the scientific evidence behind the statement. Critical Reviews in Food Science and Nutrition, 2019, 59, 2411-2422.	10.3	142
4	Assessment of the differences in the physical, chemical and phytochemical properties of four strawberry cultivars using principal component analysis. Food Chemistry, 2016, 194, 828-834.	8.2	100
5	Isolation of novel indole-3-acetic acid conjugates by immunoaffinity extraction. Talanta, 2009, 80, 651-655.	5.5	86
6	Influence of the Primary Structure of Enzymes on the Formation of CaCO3Polymorphs:Â A Comparison of Plant (Canavaliaensiformis)and Bacterial (Bacilluspasteurii)Ureases. Langmuir, 2005, 21, 8876-8882.	3.5	81
7	X-ray Structures of the Leucine-binding Protein Illustrate Conformational Changes and the Basis of Ligand Specificity. Journal of Biological Chemistry, 2004, 279, 8747-8752.	3.4	72
8	White cabbage (Brassica oleracea var. capitata f. alba): botanical, phytochemical and pharmacological overview. Phytochemistry Reviews, 2017, 16, 117-135.	6.5	69
9	Involvement of Phenolic Acids in Short-Term Adaptation to Salinity Stress is Species-Specific among Brassicaceae. Plants, 2019, 8, 155.	3.5	65
10	Early Brassica Crops Responses to Salinity Stress: A Comparative Analysis Between Chinese Cabbage, White Cabbage, and Kale. Frontiers in Plant Science, 2019, 10, 450.	3.6	54
11	Correlations between Phytohormones and Drought Tolerance in Selected Brassica Crops: Chinese Cabbage, White Cabbage and Kale. International Journal of Molecular Sciences, 2018, 19, 2866.	4.1	53
12	Catalytic activity of halohydrin dehalogenases towards spiroepoxides. Organic and Biomolecular Chemistry, 2012, 10, 5063.	2.8	48
13	Comparative analysis of phytochemicals and activity of endogenous enzymes associated with their stability, bioavailability and food quality in five Brassicaceae sprouts. Food Chemistry, 2018, 269, 96-102.	8.2	48
14	Short-term salt stress in Brassica rapa seedlings causes alterations in auxin metabolism. Plant Physiology and Biochemistry, 2018, 125, 74-84.	5.8	42
15	Biomimetic Precipitation of Nanostructured Colloidal Calcite Particles by Enzyme-Catalyzed Reaction in the Presence of Magnesium Ions. Crystal Growth and Design, 2008, 8, 435-441.	3.0	37
16	Fruit initiation in Helleborus niger L. triggers chloroplast formation and photosynthesis in the perianth. Journal of Plant Physiology, 2000, 157, 357-364.	3.5	33
17	Developing fruit direct post-floral morphogenesis in Helleborus niger L.. Journal of Experimental Botany, 2002, 53, 1949-1957.	4.8	33
18	Salinity Stress as an Elicitor for Phytochemicals and Minerals Accumulation in Selected Leafy Vegetables of Brassicaceae. Agronomy, 2021, 11, 361.	3.0	32

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19	Altered Root Growth, Auxin Metabolism and Distribution in Arabidopsis thaliana Exposed to Salt and Osmotic Stress. International Journal of Molecular Sciences, 2021, 22, 7993.	4.1	28
20	Ferulic Acid and Salicylic Acid Foliar Treatments Reduce Short-Term Salt Stress in Chinese Cabbage by Increasing Phenolic Compounds Accumulation and Photosynthetic Performance. Plants, 2021, 10, 2346.	3.5	28
21	Correlation of structural and physico-chemical parameters with the bioactivity of alkylated derivatives of indole-3-acetic acid, a phytohormone (auxin). Acta Crystallographica Section B: Structural Science, 2000, 56, 94-111.	1.8	25
22	Chemisorptions of bacterial receptors for hydrophobic amino acids and sugars on gold for biosensor applications: a surface plasmon resonance study of genetically engineered proteins. Biosensors and Bioelectronics, 2003, 19, 249-259.	10.1	24
23	Cytokinins in the perianth, carpels, and developing fruit of Helleborus niger L.. Journal of Experimental Botany, 2006, 57, 2237-2247.	4.8	24
24	Auxin Amidohydrolases from Brassica rapa Cleave the Alanine Conjugate of Indolepropionic Acid as a Preferable Substrate: A Biochemical and Modeling Approach. Plant and Cell Physiology, 2009, 50, 1587-1599.	3.1	24
25	Absolutely conserved tryptophan in M49 family of peptidases contributes to catalysis and binding of competitive inhibitors. Bioorganic Chemistry, 2009, 37, 70-76.	4.1	24
26	Endogenous Gibberellin Profile During Christmas Rose (Helleborus niger L.) Flower and Fruit Development. Journal of Plant Growth Regulation, 2010, 29, 194-209.	5.1	23
27	Assessing the authenticity of the white cabbage (Brassica oleracea var. capitata f. alba) cv. â€˜VaraÅ¾dinskiâ€™ by molecular and phytochemical markers. Food Research International, 2014, 60, 266-272.	6.2	23
28	Colloid-chemical processes in the growth and design of the bio-inorganic aragonite structure in the scleractinian coral Cladocora caespitosa. Journal of Colloid and Interface Science, 2011, 354, 181-189.	9.4	22
29	Reactive cysteine in the active-site motif of Bacteroides thetaiotaomicron dipeptidyl peptidase III is a regulatory residue for enzyme activity. Biological Chemistry, 2012, 393, 37-46.	2.5	22
30	Oxazolidinone Synthesis through Halohydrin Dehalogenaseâ€•Catalyzed Dynamic Kinetic Resolution. Advanced Synthesis and Catalysis, 2015, 357, 1709-1714.	4.3	22
31	Chilling and Freezing Temperature Stress Differently Influence Glucosinolates Content in Brassica oleracea var. acephala. Plants, 2021, 10, 1305.	3.5	22
32	19F NMR study of the leucine-specific binding protein of Escherichia coli: mutagenesis and assignment of the 5-fluorotryptophan-labeled residues. Protein Engineering, Design and Selection, 2002, 15, 855-859.	2.1	21
33	Formation and morphogenesis of a cuttlebone's aragonite biomineral structures for the common cuttlefish (Sepia officinalis) on the nanoscale: Revisited. Journal of Colloid and Interface Science, 2017, 508, 95-104.	9.4	20
34	¹⁹F NMR Studies of the Leucine-Isoleucine-Valine Binding Protein: Evidence That a Closed Conformation Exists in Solution. Journal of Biomolecular Structure and Dynamics, 2003, 21, 235-246.	3.5	19
35	Functional tyrosine residue in the active center of human dipeptidyl peptidase III. Biological Chemistry, 2008, 389, 163-167.	2.5	19
36	Human Dipeptidyl Peptidase III: the Role of Asn406 in Ligand Binding and Hydrolysis. Croatica Chemica Acta, 2011, 84, 259-268.	0.4	18

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37	Azidolysis of epoxides catalysed by the halohydrin dehalogenase from Arthrobacter sp. AD2 and a mutant with enhanced enantioselectivity: an (S)-selective HHDH. Tetrahedron: Asymmetry, 2016, 27, 930-935.	1.8	17
38	Cruciferous (Brassicaceae) Vegetables. , 2019, , 195-202.		17
39	Effects of Short-Term Exposure to Low Temperatures on Proline, Pigments, and Phytochemicals Level in Kale (Brassica oleracea var. acephala). Horticulturae, 2021, 7, 341.	2.8	17
40	A novel plant enzyme with dual activity: an atypical Nudix hydrolase and a dipeptidyl peptidase III. Biological Chemistry, 2017, 398, 101-112.	2.5	14
41	Free radicalâ€“scavenging activity and DNA damaging potential of auxins IAA and 2â€methylâ€IAA evaluated in human neutrophils by the alkaline comet assay. Journal of Biochemical and Molecular Toxicology, 2010, 24, 165-173.	3.0	12
42	Influence of stress hormones on the auxin homeostasis in Brassica rapa seedlings. Plant Cell Reports, 2013, 32, 1031-1042.	5.6	12
43	Genetic and phytochemical variability of six Teucrium arduini L. populations and their antioxidant/prooxidant behaviour examined by biochemical, macromolecule- and cell-based approaches. Food Chemistry, 2015, 186, 298-305.	8.2	12
44	Endogenous Auxin Profile in the Christmas Rose (Helleborus niger L.) Flower and Fruit: Free and Amide Conjugated IAA. Journal of Plant Growth Regulation, 2012, 31, 63-78.	5.1	11
45	Low Temperatures Affect the Physiological Status and Phytochemical Content of Flat Leaf Kale (Brassica oleracea var. acephala) Sprouts. Foods, 2022, 11, 264.	4.3	11
46	Exploring the Role of Amino Acid-18 of the Leucine Binding Proteins ofE. coli. Journal of Biomolecular Structure and Dynamics, 2002, 20, 381-387.	3.5	10
47	Beneficial Microbes and Molecules for Mitigation of Soil Salinity in Brassica Species: A Review. Soil Systems, 2022, 6, 18.	2.6	8
48	Alanine conjugate of indole-3-butyric acid improves rooting of highbush blueberries. Plant, Soil and Environment, 2012, 58, 236-241.	2.2	7
49	Molecular and cellular approach in the study of antioxidant/pro-oxidant properties ofMicromeria croatica(Pers.) Schott. Natural Product Research, 2015, 29, 1770-1774.	1.8	7
50	Influence of Soil Salinity on Selected Element Contents in Different Brassica Species. Molecules, 2022, 27, 1878.	3.8	7
51	Insight into the stability of the hydrophobic binding proteins ofescherichia coli: Assessing the proteins for use as biosensors. Proteins: Structure, Function and Bioinformatics, 2003, 53, 273-281.	2.6	6
52	The role of conserved Cys residues in Brassica rapa auxin amidohydrolase: Cys139 is crucial for the enzyme activity and Cys320 regulates enzyme stability. Physical Chemistry Chemical Physics, 2016, 18, 8890-8900.	2.8	6
53	Auxin Amidohydrolases â€“ From Structure to Function: Revisited. Croatica Chemica Acta, 2018, 91, .	0.4	6
54	Reproductive Development of the Christmas Rose (Helleborus niger L.): The Role of Plant Hormones. Croatica Chemica Acta, 2011, 84, 277-285.	0.4	5

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55	Green spathe of peace lily (Spathiphyllum wallisii): An assimilate source for developing fruit. South African Journal of Botany, 2019, 124, 54-62.	2.5	4
56	In Memory of Dr. Volker Magnus, Plant Biologist. Journal of Plant Growth Regulation, 2009, 28, 305-308.	5.1	0
57	The active site structure of manganese-containingBrassica rapaauxin-amidohydrolase BrILL2. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s210-s210.	0.1	0