Strahil Berkov

List of Publications by Year
in descending order

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95 papers	2,494 citations	126907 33 h-index	243625 44 g-index
96 all docs	96 docs citations	96 times ranked	1682 citing authors

#	Article	IF	Citations
1	Alkaloid patterns in some varieties of Datura stramonium. FÃ¬toterapÃ¬Ã¢, 2006, 77, 179-182.	2.2	94
2	Plant Sources of Galanthamine: Phytochemical and Biotechnological Aspects. Biotechnology and Biotechnological Equipment, 2009, 23, 1170-1176.	1.3	76
3	N-Alkylated galanthamine derivatives: Potent acetylcholinesterase inhibitors from Leucojum aestivum. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2263-2266.	2.2	66
4	Galanthamine production by Leucojum aestivum in vitro systems. Process Biochemistry, 2007, 42, 734-739.	3.7	63
5	Rapid TLC/GCâ€MS identification of acetylcholinesterase inhibitors in alkaloid extracts. Phytochemical Analysis, 2008, 19, 411-419.	2.4	63
6	Development and validation of a GCâ€“MS method for rapid determination of galanthamine in Leucojum aestivum and Narcissus ssp.: A metabolomic approach. Talanta, 2011, 83, 1455-1465.	5.5	60
7	Metabolic profiling of the resurrection plant Haberlea rhodopensis during desiccation and recovery. Physiologia Plantarum, 2014, 152, 675-687.	5.2	58
8	Chemodiversity, chemotaxonomy and chemoecology of Amaryllidaceae alkaloids. The Alkaloids Chemistry and Biology, 2020, 83, 113-185.	2.0	58
9	Neuroprotective activity and acetylcholinesterase inhibition of five Amaryllidaceae species: A comparative study. Life Sciences, 2015, 122, 42-50.	4.3	57
10	Alkaloid Spectrum in Diploid and Tetraploid Hairy Root Cultures of Datura stramonium. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2003, 58, 42-46.	1.4	54
11	Alkaloids in Bulgarian Pancratium maritimum L.. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2004, 59, 65-69.	1.4	53
12	Alkaloid metabolite profiles by GC/MS and acetylcholinesterase inhibitory activities with binding-mode predictions of five Amaryllidaceae plants. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 222-228.	2.8	53
13	In vitro antiprotozoal activity of alkaloids from Phaedranassa dubia (Amaryllidaceae). Phytochemistry Letters, 2010, 3, 161-163.	1.2	52
14	Bioactive alkaloid extracts from Narcissus broussonetii: Mass spectral studies. Journal of Pharmaceutical and Biomedical Analysis, 2012, 70, 13-25.	2.8	52
15	Metabolic profiling of bioactive Pancratium canariense extracts by GCâ€MS. Phytochemical Analysis, 2010, 21, 80-88.	2.4	51
16	Phytochemical differentiation of Galanthus nivalis and Galanthus elwesii (Amaryllidaceae): A case study. Biochemical Systematics and Ecology, 2008, 36, 638-645.	1.3	50
17	CGC-MS of alkaloids inLeucojum aestivum plants and theirin vitro cultures. Phytochemical Analysis, 2005, 16, 98-103.	2.4	47
18	Analysis of galanthamineâ€type alkaloids by capillary gas chromatographyâ€“mass spectrometry in plants. Phytochemical Analysis, 2008, 19, 285-293.	2.4	46

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19	Metabolomic analysis of bioactive Amaryllidaceae alkaloids of ornamental varieties of Narcissus by GCâ€“MS combined with k-means cluster analysis. Industrial Crops and Products, 2014, 56, 211-222.	5.2	44
20	GC-MS Investigation of Tropane Alkaloids in Datura stramonium. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2002, 57, 559-561.	1.4	43
21	Alkaloid Production in Diploid and Autotetraploid Plants of Datura stramonium. Pharmaceutical Biology, 2002, 40, 617-621.	2.9	41
22	Comparative study of the alkaloids in tribe Datureae and their chemosystematic significance. Biochemical Systematics and Ecology, 2006, 34, 478-488.	1.3	41
23	Alkaloid Diversity in Galanthus elwesii and Galanthus nivalis. Chemistry and Biodiversity, 2011, 8, 115-130.	2.1	40
24	Intraspecific variability in the alkaloid metabolism of Galanthus elwesii. Phytochemistry, 2004, 65, 579-586.	2.9	39
25	Galanthamine production by <scp>L</scp>eucojum aestivum<scp>L</scp>. shoot culture in a modified bubble column bioreactor with internal sections. Engineering in Life Sciences, 2012, 12, 534-543.	3.6	37
26	Alkaloid Variability in Leucojum aestivum from Wild Populations. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2007, 62, 627-635.	1.4	36
27	Alkaloids from Galanthus nivalis. Phytochemistry, 2007, 68, 1791-1798.	2.9	36
28	Daffodils as potential crops of galanthamine. Assessment of more than 100 ornamental varieties for their alkaloid content and acetylcholinesterase inhibitory activity. Industrial Crops and Products, 2013, 43, 237-244.	5.2	36
29	Evolution of alkaloid biosynthesis in the genus Narcissus. Phytochemistry, 2014, 99, 95-106.	2.9	36
30	Ontogenetic variation of the tropane alkaloids in Datura stramonium. Biochemical Systematics and Ecology, 2005, 33, 1017-1029.	1.3	35
31	Antiproliferative Alkaloids from Crinum zeylanicum. Phytotherapy Research, 2011, 25, 1686-1692.	5.8	35
32	Wild Argentinian Amaryllidaceae, a New Renewable Source of the Acetylcholinesterase Inhibitor Galanthamine and Other Alkaloids. Molecules, 2012, 17, 13473-13482.	3.8	35
33	Metabolite profiling of the benthic diatom Cocconeis scutellum by GC-MS. Journal of Applied Phycology, 2009, 21, 295-306.	2.8	34
34	Revised NMR data for Incartine: an Alkaloid from Galanthus elwesii. Molecules, 2007, 12, 1430-1435.	3.8	33
35	Alkaloids biosynthesis by Pancratium maritimum L. shoots in liquid culture. Acta Physiologiae Plantarum, 2011, 33, 927-933.	2.1	33
36	Apoptotic activity of the marine diatomCocconeis scutellumand eicosapentaenoic acid in BT20 cells. Pharmaceutical Biology, 2012, 50, 529-535.	2.9	33

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37	Alkaloid patterns in Leucojum aestivum shoot culture cultivated at temporary immersion conditions. Journal of Plant Physiology, 2012, 169, 206-211.	3.5	33
38	Production of Galanthamine by Leucojum aestivum Shoots Grown in Different Bioreactor Systems. Applied Biochemistry and Biotechnology, 2012, 167, 1907-1920.	2.9	33
39	Size and Alkaloid Content of Seeds in Induced Autotetraploids of Datura innoxia, Datura stramonium and Hyoscyamus niger. Pharmaceutical Biology, 2001, 39, 329-331.	2.9	32
40	Hyoscyamine Biosynthesis in Datura stramonium Hairy Root In Vitro Systems with Different Ploidy Levels. Applied Biochemistry and Biotechnology, 2009, 157, 210-225.	2.9	32
41	Alkaloids from Hippeastrum papilio. Molecules, 2011, 16, 7097-7104.	3.8	31
42	Galanthamine biosynthesis in plant in vitro systems. Engineering in Life Sciences, 2014, 14, 643-650.	3.6	30
43	Optimized Nutrient Medium for Galanthamine Production in Leucojum aestivum L. in vitro Shoot System. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2009, 64, 219-224.	1.4	29
44	GCâ€MS of amaryllidaceous galanthamineâ€type alkaloids. Journal of Mass Spectrometry, 2012, 47, 1065-1073.	1.6	28
45	Alkaloids from Hippeastrum morelianum Lem. (Amaryllidaceae). Magnetic Resonance in Chemistry, 2011, 49, 668-672.	1.9	25
46	Molecular Docking Study on Galantamine Derivatives as Cholinesterase Inhibitors. Molecular Informatics, 2015, 34, 394-403.	2.5	24
47	Comparison of Tropane Alkaloid Spectra Between Datura innoxia Grown in Egypt and Bulgaria. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2004, 59, 184-186.	1.4	23
48	Changes in apolar metabolites during in vitro organogenesis of Pancratium maritimum. Plant Physiology and Biochemistry, 2010, 48, 827-835.	5.8	23
49	Acetylcholinesterase-inhibiting Alkaloids from Zephyranthes concolor. Molecules, 2011, 16, 9520-9533.	3.8	23
50	The Brazilian Amaryllidaceae as a source of acetylcholinesterase inhibitory alkaloids. Phytochemistry Reviews, 2016, 15, 147-160.	6.5	23
51	GC-MS profiling of bioactive extracts from Haberlea rhodopensis: An endemic resurrection plant. Journal of the Serbian Chemical Society, 2011, 76, 211-220.	0.8	20
52	Three New Alkaloids fromGalanthus nivalisandGalanthus elwesii. Planta Medica, 2009, 75, 1351-1355.	1.3	19
53	Alkaloids from Sternbergia colchiciflora. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2009, 64, 311-316.	1.4	19
54	Alkaloid synthesis and accumulation in Leucojum aestivum in vitro cultures. Natural Product Communications, 2009, 4, 359-64.	0.5	19

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55	Elicitation of galanthamine production by leucojum aestivum shoots grown in temporary immersion system. Biotechnology Progress, 2013, 29, 311-318.	2.6	18
56	Alkaloids of Datura ceratocaula. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2003, 58, 455-458.	1.4	17
57	Molecular biodiversity and recent analytical developments: A marriage of convenience. Biotechnology Advances, 2014, 32, 1102-1110.	11.7	17
58	A rapid densitometric method for the analysis of hyoscyamine and scopolamine in solanaceous plants and their transformed root cultures. Phytochemical Analysis, 2004, 15, 141-145.	2.4	15
59	Two New Alkaloids from Narcissus serotinus L.. Molecules, 2010, 15, 7083-7089.	3.8	15
60	GCâ€MS analysis of Amaryllidaceae and Sceletiumâ€type alkaloids in bioactive fractions from Narcissus cv. Hawera. Rapid Communications in Mass Spectrometry, 2021, 35, e9116.	1.5	15
61	The geographic isolation of Leucojum aestivum populations leads to divergation of alkaloid biosynthesis. Biochemical Systematics and Ecology, 2013, 46, 152-161.	1.3	14
62	Alkaloid Synthesis and Accumulation in Leucojum Aestivum in Vitro Cultures. Natural Product Communications, 2009, 4, 1934578X0900400.	0.5	13
63	In vitro micropropagation and alkaloids of Hippeastrum vittatum. In Vitro Cellular and Developmental Biology - Plant, 2011, 47, 695-701.	2.1	13
64	Temporary immersion systems for Amaryllidaceae alkaloids biosynthesis by Pancratium maritimum L. shoot culture. Journal of Plant Biochemistry and Biotechnology, 2014, 23, 389-398.	1.7	13
65	Biogeographical Patterns and Phenological Changes in Lapiedra martinezii <scp>Lag</scp>. Related to Its Alkaloid Diversity. Chemistry and Biodiversity, 2013, 10, 1220-1238.	2.1	11
66	Alkaloid Profiling of Galanthus woronowii Losinsk. by GC-MS and evaluation of its biological activity. Marmara Pharmaceutical Journal, 2017, 21, 915-920.	0.5	11
67	A Holistic Approach to Resurrection Plants.Haberlea Rhodopensisâ€"A Case Study. Biotechnology and Biotechnological Equipment, 2009, 23, 1414-1416.	1.3	10
68	Virtual Screening and Hit Selection of Natural Compounds as Acetylcholinesterase Inhibitors. Molecules, 2022, 27, 3139.	3.8	10
69	Methods of Analysis: Tropane Alkaloids from Plant Origin. , 2013, , 1009-1048.		9
70	GCâ€"MS of some lycorineâ€type Amaryllidaceae alkaloids. Journal of Mass Spectrometry, 2021, 56, e4704.	1.6	9
71	Plant In Vitro Systems as Sources of Tropane Alkaloids. , 2013, , 173-211.		8
72	Nutrient medium optimization for hyoscyamine production in diploid and tetraploid Datura stramonium L. hairy root cultures. World Journal of Microbiology and Biotechnology, 2009, 25, 2239-2245.	3.6	7

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73	GC-MS Investigation and Acetylcholinesterase Inhibitory Activity of Galanthus rizehensis. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2013, 68, 118-124.	1.4	7
74	New lycosinine derivative from Hippeastrum breviflorum. Revista Brasileira De Farmacognosia, 2015, 25, 353-355.	1.4	7
75	The Genus Galanthus: A Source of Bioactive Compounds. , 0, , .		6
76	GC/MS Analysis of Amaryllidaceae Alkaloids in Galanthus gracilis. Chemistry of Natural Compounds, 2014, 50, 573-575.	0.8	6
77	In vitro propagation and biosynthesis of Sceletium-type alkaloids in Narcissus pallidulus andNarcissus cv. Hawera. South African Journal of Botany, 2021, 136, 190-194.	2.5	6
78	Systematic investigation and lipidomic profiles composition characterization in leaves of five Amaryllidaceae species by HRGC-MS technique. South African Journal of Botany, 2021, 142, 25-33.	2.5	6
79	The Amaryllidaceae alkaloids: an untapped source of acetylcholinesterase inhibitors. Phytochemistry Reviews, 2022, 21, 1415-1443.	6.5	6
80	Herbicide Potential of Selected Essential Oils From Plants of Lamiaceae and Asteraceae Families. Acta Agrobotanica, 0, 74, .	1.0	6
81	Improved HPLC Metod for the Determination of Amaryllidaceae Alkaloids. Biotechnology and Biotechnological Equipment, 2009, 23, 809-813.	1.3	5
82	Biocidal Activity of Origanum vulgare subsp. hirtum Essential Oil. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2021, 69, 569-578.	0.4	5
83	Evaluation of Hippeastrum papilio (Ravenna) Van Scheepen potencial as a new industrial source of galanthamine. Industrial Crops and Products, 2022, 178, 114619.	5.2	4
84	Metabolite Profiling of In Vitro Plant Systems. Reference Series in Phytochemistry, 2018, , 67-83.	0.4	3
85	Microbial Transformations of Plant Secondary Metabolites. , 2016, , 1-41.		3
86	ï»¿Plant products with acetylcholinesterase inhibitory activity for insect control. BioRisk, 0, 17, 309-315.	0.2	3
87	GC-MS Investigation of Amaryllidaceae Alkaloids in Galanthus xvalentinei nothosubsp. subplicatus. Natural Product Communications, 2013, 8, 1934578X1300800.	0.5	2
88	GC-MS Investigation and Acetylcholinesterase Inhibitory Activity of Galanthus rizehensis. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2013, 68, 0118.	1.4	2
89	Microbial Transformations of Plant Secondary Metabolites. Reference Series in Phytochemistry, 2018, , 85-124.	0.4	1
90	Exudate Compounds of Origanum Species ^{â€}. , 0, , .		1

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91	GC-MS investigation and acetylcholinesterase inhibitory activity of Galanthus rizehensis. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2013, 68, 118-24.	1.4	1
92	Insecticide activity of Greek oregano essential oil and entomopathogenic fungus Metarhizium pemphigi against Diabrotica virgifera virgifera LeConte. Cereal Research Communications, 2022, 50, 1045-1054.	1.6	1
93	Wastes after distillation of Helichrysum italicum â€“ biological active compounds and free radical scavenging activity. Acta Biologica Szegediensis, 2021, 64, 233-237.	0.3	0
94	Metabolite Profiling of In Vitro Plant Systems. Reference Series in Phytochemistry, 2017, , 1-17.	0.4	0
95	The Effect of Origanum vulgare subsp. hirtum Essential Oil on Metabolite Profile of Solanum tuberosumÂ. , 2021, 11, .		0