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	The Amaryllidaceae alkaloids: an untapped source of acetylcholinesterase inhibitors. Phytochemistry Reviews, 2022, 21, 1415-1443.	6.5	6
2	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
3	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
4	Virtual Screening and Hit Selection of Natural Compounds as Acetylcholinesterase Inhibitors. Molecules, 2022, 27, 3139.	3.8	10
5	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
6	GCâ€“MS of some lycorineâ€type Amaryllidaceae alkaloids. Journal of Mass Spectrometry, 2021, 56, e4704.	1.6	9
7	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
8	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
9	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
10	Biocidal Activity of Origanum vulgare subsp. hirtum Essential Oil. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2021, 69, 569-578.	0.4	5
11	The Effect of Origanum vulgare subsp. hirtum Essential Oil on Metabolite Profile of Solanum tuberosumÂ. , 2021, 11, .		0
12	Chemodiversity, chemotaxonomy and chemoecology of Amaryllidaceae alkaloids. The Alkaloids Chemistry and Biology, 2020, 83, 113-185.	2.0	58
13	Metabolite Profiling of In Vitro Plant Systems. Reference Series in Phytochemistry, 2018, , 67-83.	0.4	3
14	Microbial Transformations of Plant Secondary Metabolites. Reference Series in Phytochemistry, 2018, , 85-124.	0.4	1
15	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
16	Metabolite Profiling of In Vitro Plant Systems. Reference Series in Phytochemistry, 2017, , 1-17.	0.4	0
17	The Brazilian Amaryllidaceae as a source of acetylcholinesterase inhibitory alkaloids. Phytochemistry Reviews, 2016, 15, 147-160.	6.5	23
18	Microbial Transformations of Plant Secondary Metabolites. , 2016, , 1-41.		3

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19	New lycosinine derivative from Hippeastrum breviflorum. Revista Brasileira De Farmacognosia, 2015, 25, 353-355.	1.4	7
20	Molecular Docking Study on Galantamine Derivatives as Cholinesterase Inhibitors. Molecular Informatics, 2015, 34, 394-403.	2.5	24
21	Neuroprotective activity and acetylcholinesterase inhibition of five Amaryllidaceae species: A comparative study. Life Sciences, 2015, 122, 42-50.	4.3	57
22	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
23	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
24	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
25	GC/MS Analysis of Amaryllidaceae Alkaloids in Galanthus gracilis. Chemistry of Natural Compounds, 2014, 50, 573-575.	0.8	6
26	Galanthamine biosynthesis in plant in vitro systems. Engineering in Life Sciences, 2014, 14, 643-650.	3.6	30
27	Molecular biodiversity and recent analytical developments: A marriage of convenience. Biotechnology Advances, 2014, 32, 1102-1110.	11.7	17
28	Metabolic profiling of the resurrection plant Haberlea rhodopensis during desiccation and recovery. Physiologia Plantarum, 2014, 152, 675-687.	5.2	58
29	Evolution of alkaloid biosynthesis in the genus Narcissus. Phytochemistry, 2014, 99, 95-106.	2.9	36
30	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
31	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
32	The geographic isolation of Leucojum aestivum populations leads to divergation of alkaloid biosynthesis. Biochemical Systematics and Ecology, 2013, 46, 152-161.	1.3	14
33	Elicitation of galanthamine production by leucojum aestivum shoots grown in temporary immersion system. Biotechnology Progress, 2013, 29, 311-318.	2.6	18
34	Methods of Analysis: Tropane Alkaloids from Plant Origin. , 2013, , 1009-1048.		9
35	Plant In Vitro Systems as Sources of Tropane Alkaloids. , 2013, , 173-211.		8
36	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

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37	GC-MS Investigation of Amaryllidaceae Alkaloids in Galanthus xvalentinei nothosubsp. subplicatus. Natural Product Communications, 2013, 8, 1934578X1300800.	0.5	2
38	GC-MS Investigation and Acetylcholinesterase Inhibitory Activity of Galanthus rizehensis. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2013, 68, 0118.	1.4	2
39	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
40	Apoptotic activity of the marine diatomCocconeis scutellumand eicosapentaenoic acid in BT20 cells. Pharmaceutical Biology, 2012, 50, 529-535.	2.9	33
41	Wild Argentinian Amaryllidaceae, a New Renewable Source of the Acetylcholinesterase Inhibitor Galanthamine and Other Alkaloids. Molecules, 2012, 17, 13473-13482.	3.8	35
42	Bioactive alkaloid extracts from Narcissus broussonetii: Mass spectral studies. Journal of Pharmaceutical and Biomedical Analysis, 2012, 70, 13-25.	2.8	52
43	Alkaloid patterns in Leucojum aestivum shoot culture cultivated at temporary immersion conditions. Journal of Plant Physiology, 2012, 169, 206-211.	3.5	33
44	GCâ€MS of amaryllidaceous galanthamineâ€type alkaloids. Journal of Mass Spectrometry, 2012, 47, 1065-1073.	1.6	28
45	Production of Galanthamine by Leucojum aestivum Shoots Grown in Different Bioreactor Systems. Applied Biochemistry and Biotechnology, 2012, 167, 1907-1920.	2.9	33
46	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
47	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
48	Alkaloids from Hippeastrum papilio. Molecules, 2011, 16, 7097-7104.	3.8	31
49	Acetylcholinesterase-inhibiting Alkaloids from Zephyranthes concolor. Molecules, 2011, 16, 9520-9533.	3.8	23
50	In vitro micropropagation and alkaloids of Hippeastrum vittatum. In Vitro Cellular and Developmental Biology - Plant, 2011, 47, 695-701.	2.1	13
51	Alkaloids biosynthesis by Pancratium maritimum L. shoots in liquid culture. Acta Physiologiae Plantarum, 2011, 33, 927-933.	2.1	33
52	Antiproliferative Alkaloids from Crinum zeylanicum. Phytotherapy Research, 2011, 25, 1686-1692.	5.8	35
53	Alkaloids from Hippeastrum morelianum Lem. (Amaryllidaceae). Magnetic Resonance in Chemistry, 2011, 49, 668-672.	1.9	25
54	Alkaloid Diversity in Galanthus elwesii and Galanthus nivalis. Chemistry and Biodiversity, 2011, 8, 115-130.	2.1	40

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55	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
56	In vitro antiprotozoal activity of alkaloids from Phaedranassa dubia (Amaryllidaceae). Phytochemistry Letters, 2010, 3, 161-163.	1.2	52
57	Changes in apolar metabolites during in vitro organogenesis of Pancratium maritimum. Plant Physiology and Biochemistry, 2010, 48, 827-835.	5.8	23
58	Metabolic profiling of bioactive Pancratium canariense extracts by GCâ€MS. Phytochemical Analysis, 2010, 21, 80-88.	2.4	51
59	Two New Alkaloids from Narcissus serotinus L.. Molecules, 2010, 15, 7083-7089.	3.8	15
60	Alkaloid Synthesis and Accumulation in Leucojum Aestivum in Vitro Cultures. Natural Product Communications, 2009, 4, 1934578X0900400.	0.5	13
61	A Holistic Approach to Resurrection Plants.Haberlea Rhodopensisâ€"A Case Study. Biotechnology and Biotechnological Equipment, 2009, 23, 1414-1416.	1.3	10
62	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
63	Three New Alkaloids fromGalanthus nivalisandGalanthus elwesii. Planta Medica, 2009, 75, 1351-1355.	1.3	19
64	Metabolite profiling of the benthic diatom Cocconeis scutellum by GC-MS. Journal of Applied Phycology, 2009, 21, 295-306.	2.8	34
65	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
66	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
67	Plant Sources of Galanthamine: Phytochemical and Biotechnological Aspects. Biotechnology and Biotechnological Equipment, 2009, 23, 1170-1176.	1.3	76
68	Alkaloids from Sternbergia colchiciflora. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2009, 64, 311-316.	1.4	19
69	Improved HPLC Metod for the Determination of Amaryllidaceae Alkaloids. Biotechnology and Biotechnological Equipment, 2009, 23, 809-813.	1.3	5
70	Alkaloid synthesis and accumulation in Leucojum aestivum in vitro cultures. Natural Product Communications, 2009, 4, 359-64.	0.5	19
71	Analysis of galanthamineâ€type alkaloids by capillary gas chromatographyâ€"mass spectrometry in plants. Phytochemical Analysis, 2008, 19, 285-293.	2.4	46
72	Rapid TLC/GCâ€MS identification of acetylcholinesterase inhibitors in alkaloid extracts. Phytochemical Analysis, 2008, 19, 411-419.	2.4	63

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73	N-Alkylated galanthamine derivatives: Potent acetylcholinesterase inhibitors from Leucojum aestivum. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2263-2266.	2.2	66
74	Phytochemical differentiation of Galanthus nivalis and Galanthus elwesii (Amaryllidaceae): A case study. Biochemical Systematics and Ecology, 2008, 36, 638-645.	1.3	50
75	Alkaloid Variability in Leucojum aestivum from Wild Populations. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2007, 62, 627-635.	1.4	36
76	Revised NMR data for Incartine: an Alkaloid from Galanthus elwesii. Molecules, 2007, 12, 1430-1435.	3.8	33
77	Galanthamine production by Leucojum aestivum in vitro systems. Process Biochemistry, 2007, 42, 734-739.	3.7	63
78	Alkaloids from Galanthus nivalis. Phytochemistry, 2007, 68, 1791-1798.	2.9	36
79	Alkaloid patterns in some varieties of Datura stramonium. FÃ¬toterapÃ¬Ã¢, 2006, 77, 179-182.	2.2	94
80	Comparative study of the alkaloids in tribe Datureae and their chemosystematic significance. Biochemical Systematics and Ecology, 2006, 34, 478-488.	1.3	41
81	Ontogenetic variation of the tropane alkaloids in Datura stramonium. Biochemical Systematics and Ecology, 2005, 33, 1017-1029.	1.3	35
82	CGC-MS of alkaloids inLeucojum aestivum plants and theirin vitro cultures. Phytochemical Analysis, 2005, 16, 98-103.	2.4	47
83	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
84	Intraspecific variability in the alkaloid metabolism of Galanthus elwesii. Phytochemistry, 2004, 65, 579-586.	2.9	39
85	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
86	Alkaloids in Bulgarian Pancratium maritimum L.. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2004, 59, 65-69.	1.4	53
87	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
88	Alkaloids of Datura ceratocaula. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2003, 58, 455-458.	1.4	17
89	GC-MS Investigation of Tropane Alkaloids in Datura stramonium. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2002, 57, 559-561.	1.4	43
90	Alkaloid Production in Diploid and Autotetraploid Plants of Datura stramonium. Pharmaceutical Biology, 2002, 40, 617-621.	2.9	41

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91	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
92	The Genus Galanthus: A Source of Bioactive Compounds. , 0, , .		6
93	Exudate Compounds of Origanum Species ^{â€}. , 0, , .		1
94	Herbicide Potential of Selected Essential Oils From Plants of Lamiaceae and Asteraceae Families. Acta Agrobotanica, 0, 74, .	1.0	6
95	ï»¿Plant products with acetylcholinesterase inhibitory activity for insect control. BioRisk, 0, 17, 309-315.	0.2	3