Atanas I Pavlov

List of Publications by Year
in descending order

102	2,705	186209 28	197736 49
papers	citations	h-index	g-index

103	103	103	2334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hairy root type plant in vitro systems as sources of bioactive substances. Applied Microbiology and Biotechnology, 2007, 74, 1175-1185.	1.7	316
2	Antioxidant Activity and Phenolic Content of Betalain Extracts from Intact Plants and Hairy Root Cultures of the Red Beetroot Beta vulgaris cv. Detroit Dark Red. Plant Foods for Human Nutrition, 2010, 65, 105-111.	1.4	292
3	Temporary immersion systems in plant biotechnology. Engineering in Life Sciences, 2014, 14, 607-621.	2.0	121
4	Bioprocessing of differentiated plant in vitro systems. Engineering in Life Sciences, 2013, 13, 26-38.	2.0	112
5	Chitinase biotechnology: Production, purification, and application. Engineering in Life Sciences, 2015, 15, 30-38.	2.0	82
6	Plant cell culture as emerging technology for production of active cosmetic ingredients. Engineering in Life Sciences, 2018, 18, 779-798.	2.0	74
7	Betalain production in plant in vitro systems. Acta Physiologiae Plantarum, 2008, 30, 581-593.	1.0	73
8	Betalains biosynthesis by Beta vulgaris L. hairy root culture in a temporary immersion cultivation system. Process Biochemistry, 2006, 41, 848-852.	1.8	65
9	Galanthamine production by Leucojum aestivum in vitro systems. Process Biochemistry, 2007, 42, 734-739.	1.8	63
10	Biosynthesis and Radical Scavenging Activity of Betalains during the Cultivation of Red Beet (Beta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2002, 57, 640-644.	0.6	59
11	Betalain biosynthesis by red beet (Beta vulgaris L.) hairy root culture. Process Biochemistry, 2005, 40, 1531-1533.	1.8	56
12	Alkaloid Spectrum in Diploid and Tetraploid Hairy Root Cultures of Datura stramonium. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2003, 58, 42-46.	0.6	54
13	Antioxidant activity of extracts from Lavandula vera MM cell cultures. Food Chemistry, 2001, 72, 295-300.	4.2	50
14	Galanthamine and Related Alkaloids Production by Leucojum aestivum L. Shoot Culture using a Temporary Immersion Technology. Applied Biochemistry and Biotechnology, 2011, 163, 268-277.	1.4	49
15	CGC-MS of alkaloids inLeucojum aestivum plants and theirin vitro cultures. Phytochemical Analysis, 2005, 16, 98-103.	1.2	47
16	Recent applications of plant cell culture technology in cosmetics and foods. Engineering in Life Sciences, 2021, 21, 68-76.	2.0	47
17	Rosmarinic acid production by Lavandula vera MM cell-suspension culture. Applied Microbiology and Biotechnology, 1997, 47, 683-688.	1.7	43
18	Radical Scavenging Activity and Stability of Betalains from Beta vulgaris Hairy Root Culture in Simulated Conditions of Human Gastrointestinal Tract. Plant Foods for Human Nutrition, 2005, 60, 43-47.	1.4	43

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19	Sage in vitro cultures: a promising tool for the production of bioactive terpenes and phenolic substances. Biotechnology Letters, 2014, 36, 211-221.	1.1	40
20	Elicitation of rosmarinic acid by Lavandula vera MM cell suspension culture with abiotic elicitors. World Journal of Microbiology and Biotechnology, 2007, 23, 301-304.	1.7	38
21	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.	2.0	37
22	Two-phase temporary immersion system for Agrobacterium rhizogenes genetic transformation of sage (Salvia tomentosa Mill.). Biotechnology Letters, 2011, 33, 1873-1878.	1.1	36
23	Optimization of Rosmarinic Acid Production by Lavandula vera MM Plant Cell Suspension in a Laboratory Bioreactor. Biotechnology Progress, 2008, 21, 394-396.	1.3	35
24	Alkaloids biosynthesis by Pancratium maritimum L. shoots in liquid culture. Acta Physiologiae Plantarum, 2011, 33, 927-933.	1.0	33
25	Alkaloid patterns in Leucojum aestivum shoot culture cultivated at temporary immersion conditions. Journal of Plant Physiology, 2012, 169, 206-211.	1.6	33
26	Hyoscyamine Biosynthesis in Datura stramonium Hairy Root In Vitro Systems with Different Ploidy Levels. Applied Biochemistry and Biotechnology, 2009, 157, 210-225.	1.4	32
27	Selection of high rosmarinic acid producing Lavandula vera MM cell lines. Process Biochemistry, 2006, 41, 2068-2071.	1.8	31
28	Galanthamine biosynthesis in plant in vitro systems. Engineering in Life Sciences, 2014, 14, 643-650.	2.0	30
29	Production of Iridoids and Phenolics by TransformedHarpagophytum procumbensRoot Cultures. Engineering in Life Sciences, 2006, 6, 593-596.	2.0	29
30	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.	0.6	29
31	Nutrient Medium Optimization for Rosmarinic Acid Production by Lavandula vera MM Cell Suspension. Biotechnology Progress, 2000, 16, 668-670.	1.3	28
32	Rosmarinic acid production by Lavandula vera MM cell suspension: the effect of temperature. Biotechnology Letters, 2004, 26, 855-856.	1.1	28
33	Flow cytometric investigations of diploid and tetraploid plants and in vitro cultures of Datura stramonium and Hyoscyamus niger. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 931-939.	1.1	28
34	Elicitation of galanthamine biosynthesis by Leucojum aestivum liquid shoot cultures. Journal of Plant Physiology, 2013, 170, 1122-1129.	1.6	28
35	Relationship between type and age of the inoculum cultures and betalains biosynthesis by Beta vulgaris hairy root culture. Biotechnology Letters, 2003, 25, 307-309.	1.1	25
36	Volatile and polar compounds in Rosa damascena Mill 1803 cell suspension. Journal of Biotechnology, 2005, 118, 89-97.	1.9	25

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37	Valorization of Rapeseed Meal: Influence of Ethanol Antinutrients Removal on Protein Extractability, Amino Acid Composition and Fractional Profile. Waste and Biomass Valorization, 2020, 11, 2709-2719.	1.8	25
38	Enhanced Rosmarinic Acid Production by Lavandula vera MM Cell Suspension Culture through Elicitation with Vanadyl Sulfate. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2006, 61, 241-244.	0.6	24
39	Changes in apolar metabolites during in vitro organogenesis of Pancratium maritimum. Plant Physiology and Biochemistry, 2010, 48, 827-835.	2.8	23
40	Batch and Fed-Batch Production of Betalains by Red Beet (Beta vulgaris) Hairy Roots in a Bubble Column Reactor. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2007, 62, 439-446.	0.6	22
41	Rosmarinic acid from Lavandula vera MM cell culture. Phytochemistry, 1996, 43, 1243-1244.	1.4	19
42	Alkaloid synthesis and accumulation in Leucojum aestivum in vitro cultures. Natural Product Communications, 2009, 4, 359-64.	0.2	19
43	Production of Oleanolic and Ursolic Acids by Callus Cultures ofSalvia TomentosaMill.. Biotechnology and Biotechnological Equipment, 2011, 25, 34-38.	0.5	17
44	Triterpenoids and Other Non-Polar Compounds in Leaves of Wild and Cultivated Vaccinium Species. Plants, 2021, 10, 94.	1.6	16
45	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.	1.2	15
46	Production of rosmarinic acid byLavandula vera MM cell suspension in bioreactor: effect of dissolved oxygen concentration and agitation. World Journal of Microbiology and Biotechnology, 2005, 21, 389-392.	1.7	15
47	Protopine Production by Fumaria Cell Suspension Cultures: Effect of Light. Applied Biochemistry and Biotechnology, 2015, 176, 287-300.	1.4	15
48	GC-MS characterization of n-hexane soluble fraction from dandelion (Taraxacum officinale) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Naturforschung - Section C Journal of Biosciences, 2018, 73, 41-47.	0.6	15
49	Salvia suspension cultures as production systems for oleanolic and ursolic acid. Acta Physiologiae Plantarum, 2014, 36, 2137-2147.	1.0	14
50	Characteristics ofHelianthus annuus Plant Cell Culture as a Producer of Immunologically Active Exopolysaccharides. Engineering in Life Sciences, 2005, 5, 280-283.	2.0	13
51	Alkaloid Synthesis and Accumulation in Leucojum Aestivum in Vitro Cultures. Natural Product Communications, 2009, 4, 1934578X0900400.	0.2	13
52	Ploidy levels in Beta vulgaris (red beet) plant organs and in vitro systems. Engineering in Life Sciences, 2010, 10, 139-147.	2.0	13
53	Temporary immersion systems for Amaryllidaceae alkaloids biosynthesis by Pancratium maritimum L. shoot culture. Journal of Plant Biochemistry and Biotechnology, 2014, 23, 389-398.	0.9	13
54	Ultrasound and Microwave-Assisted Extraction of Elecampane (Inula helenium) Roots. Natural Product Communications, 2017, 12, 1934578X1701200.	0.2	13

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55	Lactic Acid Bacteriaâ€"From Nature Through Food to Health. , 2018, , 91-133.		11
56	Triterpenes Production by Rhizogenic Callus ofSalvia ScabiosifoliaLam. Obtained viaAgrobacterium RhizogenesMediated Genetic Transformation. Biotechnology and Biotechnological Equipment, 2011, 25, 30-33.	0.5	10
57	Rosmarinic acid production by Lavandula vera MM cell suspension culture: nitrogen effect. World Journal of Microbiology and Biotechnology, 1999, 15, 711-714.	1.7	8
58	Production of phosphomonoesterases by Nicotiana tabacum 1507 in an aqueous two-phase system. , 2000, 51, 488-493.		8
59	Plant In Vitro Systems as Sources of Tropane Alkaloids. , 2013, , 173-211.		8
60	Alkaloid profiles and acetylcholinesterase inhibitory activities of Fumaria species from Bulgaria. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2016, 71, 9-14.	0.6	8
61	In vitro culture and micropropagation of the Baetic-Moroccan endemic plant Lapiedra martinezii Lag. (Amaryllidaceae). In Vitro Cellular and Developmental Biology - Plant, 2019, 55, 725-732.	0.9	8
62	Release of rosmarinic acid by Lavandula vera MM cell suspension in two-phase culture systems. World Journal of Microbiology and Biotechnology, 2001, 17, 417-421.	1.7	7
63	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.	1.7	7
64	Plant cells and algae in bioreactors. Engineering in Life Sciences, 2009, 9, 154-155.	2.0	7
65	Obtaining and Selection ofPancratium MaritimumL.In VitroCultures with Acetylcholinesterase Inhibitory Action. Biotechnology and Biotechnological Equipment, 2010, 24, 149-154.	0.5	7
66	Chemical Compositions of Essential Oils from Leaves and Flowers ofSalvia ringensSibth. et Sm. Growing Wild in Bulgaria. Journal of Essential Oil-bearing Plants: JEOP, 2013, 16, 624-629.	0.7	7
67	Improved procedure for nucleus extraction for DNA measurements by flow cytometry of red beet (Beta vulgaris L.) hairy roots. Journal of Bioscience and Bioengineering, 2009, 107, 439-441.	1.1	6
68	Bioreactors for the Cultivation of Red Beet Hairy Roots. , 2013, , 251-281.		6
69	Recent Progress in Amaryllidaceae Biotechnology. Molecules, 2020, 25, 4670.	1.7	6
70	Determination of triterpenic acids and screening for valuable secondary metabolites in Salvia sp. suspension cultures. Natural Product Communications, 2014, 9, 17-20.	0.2	6
71	Title is missing!. World Journal of Microbiology and Biotechnology, 1999, 15, 397-399.	1.7	5
72	Improved HPLC Metod for the Determination of Amaryllidaceae Alkaloids. Biotechnology and Biotechnological Equipment, 2009, 23, 809-813.	0.5	5

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73	Editorial: Plant cells and algae in bioreactors. Engineering in Life Sciences, 2014, 14, 548-549.	2.0	5
74	Food additives and bioactive substances from in vitro systems of edible plants from the Balkan peninsula. Engineering in Life Sciences, 2018, 18, 799-806.	2.0	5
75	Volatile metabolic profiles of cell suspension cultures of Lavandula vera, Nicotiana tabacum and Helianthus annuus, cultivated under different regimes. Engineering in Life Sciences, 2010, 10, 148-157.	2.0	4
76	In sito galanthamine extraction during the cultivation of Leucojum aestivum L. shoot culture in twoâ€phase bubble column cultivation system. Engineering in Life Sciences, 2019, 19, 1000-1005.	2.0	4
77	Metabolite profiling by means of GC-MS combined with principal component analyses of natural populations of Nectaroscordum siculum ssp. bulgaricum (Janka) Stearn. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2020, 75, 451-457.	0.6	4
78	ISOLATION, IDENTIFICATION AND ANTIBIOTIC SUSCEPTIBILITY OF CURTOBACTERIUM FLACCUMFACIENS STRAIN PM_YT FROM SEA DAFFODIL (PANCRATIUM MARITIMUM L.) SHOOT CULTURES. Journal of Microbiology, Biotechnology and Food Sciences, 2018, 7, 623-627.	0.4	4
79	Antioxidant and DNA-Protective Potentials, Main Phenolic Compounds, and Microscopic Features of Koelreuteria paniculata Aerial Parts. Antioxidants, 2022, 11, 1154.	2.2	4
80	Growth and Phenolics Production of Cell Suspension Culture ofLavandula Vera MM. Biotechnology and Biotechnological Equipment, 1995, 9, 69-71.	0.5	3
81	Cultivation of Plant Cell suspensions from Nicotiana Tabacum 1507 and Lavandula Vera mm in Aqueous Two-Phase Polymer Systems. Biotechnology and Biotechnological Equipment, 1995, 9, 71-76.	0.5	3
82	Immunologically active polysaccharides from cell suspension of Helianthus annuus 1805. Progress in Biotechnology, 1996, 14, 679-686.	0.2	3
83	Chemical Composition of Essential Oil ofSalvia scabiosifoliaLam. from Bulgaria. Journal of Essential Oil-bearing Plants: JEOP, 2012, 15, 908-914.	0.7	3
84	Determination of Triterpenic Acids and Screening for Valuable Secondary Metabolites in Salvia sp. Suspension Cultures. Natural Product Communications, 2014, 9, 1934578X1400900.	0.2	3
85	Bioreactor Technology for In Vitro Berry Plant Cultivation. Reference Series in Phytochemistry, 2021, , 383-431.	0.2	3
86	Phosphodiesterase Production in an Aqueous Two-Phase System by Nicotiana tabacum 1507. Applied Biochemistry and Biotechnology, 2001, 90, 261-272.	1.4	2
87	Plant cells and algae in bioreactors III. Engineering in Life Sciences, 2019, 19, 828-829.	2.0	2
88	History of Plant Biotechnology Development. Reference Series in Phytochemistry, 2018, , 1-35.	0.2	2
89	Genetic Engineering and Manipulation of Metabolite Pathways in Salvia Spp.. , 2017, , 399-414.		2
90	Hairy Roots of Salvia Species for Bioactive Substances Production. , 2017, , 271-289.		1

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91	Microbial Transformations of Plant Secondary Metabolites. Reference Series in Phytochemistry, 2018, , 85-124.	0.2	1
92	Bioreactor Technology for In Vitro Berry Plant Cultivation. Reference Series in Phytochemistry, 2020, , 1-49.	0.2	1
93	Influence of Polymeric Adsorbents on Production of Phenolics from Nicotiana Tabacum 1507 Cell Culture. Biotechnology and Biotechnological Equipment, 1994, 8, 25-30.	0.5	0
94	Polygalacturonase and pectimmethylesterase activities during growth of Helianthus annus 1805 cell suspension. Progress in Biotechnology, 1996, , 869-874.	0.2	0
95	Production of phosphohydrolases by Nicotiana tabacum 1507 cell suspension culture. Plant Cell, Tissue and Organ Culture, 2000, 60, 155-158.	1.2	0
96	Physiological Peculiarities ofLavandula VeraMM Cell Suspension Culture in Stirred Tank Reactor. Biotechnology and Biotechnological Equipment, 2009, 23, 836-839.	0.5	0
97	Editorial: Biotechnology of fermented food systems. Engineering in Life Sciences, 2012, 12, 353-354.	2.0	0
98	Engineering in Life Sciences Editors. Engineering in Life Sciences, 2013, 13, NA-NA.	2.0	0
99	Engineering in Life SciencesEditors. Engineering in Life Sciences, 2014, 14, 2-3.	2.0	0
100	Balkan biotechnology. Engineering in Life Sciences, 2018, 18, 756-757.	2.0	0
101	History of Plant Biotechnology Development. Reference Series in Phytochemistry, 2018, , 3-37.	0.2	0
102	Digital Holographic Microscopy for Characterization of Fabiana Imbricata Ruiz & Pav. Cell Suspension Cultures. Acta Physica Polonica A, 2019, 135, 1132-1135.	0.2	0