

Katarzyna SykÅ,owska-Baranek

List of Publications by Year in descending order

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45
papers

820
citations

471371

17
h-index

526166

27
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46
all docs

46
docs citations

46
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic responses of <i>Taxus media</i> transformed cell cultures to the addition of methyl jasmonate. <i>Biotechnology Progress</i> , 2010, 26, 1145-1153.	1.3	70
2	Antimicrobial and Cytotoxic Isohexenylnaphthazarins from <i>Arnebia euchroma</i> (Royle) Jonst. (Boraginaceae) Callus and Cell Suspension Culture. <i>Molecules</i> , 2012, 17, 14310-14322.	1.7	64
3	Effect of l-phenylalanine on PAL activity and production of naphthoquinone pigments in suspension cultures of <i>Arnebia euchroma</i> (Royle) Johnst. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2012, 48, 555-564.	0.9	63
4	Biotechnological approaches to enhance salidroside, rosin and its derivatives production in selected <i>Rhodiola</i> spp. in vitro cultures. <i>Phytochemistry Reviews</i> , 2015, 14, 657-674.	3.1	63
5	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 683-686.	1.1	50
6	Enhancement of taxane production in hairy root culture of <i>Taxus x media</i> var. <i>Hicksii</i> . <i>Journal of Plant Physiology</i> , 2009, 166, 1950-1954.	1.6	50
7	Perfluorodecalin-supported system enhances taxane production in hairy root cultures of <i>Taxus x media</i> var. <i>Hicksii</i> carrying a taxadiene synthase transgene. <i>Plant Cell, Tissue and Organ Culture</i> , 2015, 120, 1051-1059.	1.2	35
8	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 1997, 49, 75-79.	1.2	33
9	Antigenotoxic, anti-photogenotoxic and antioxidant activities of natural naphthoquinone shikonin and acetylshikonin and <i>Arnebia euchroma</i> callus extracts evaluated by the umu-test and EPR method. <i>Toxicology in Vitro</i> , 2015, 30, 364-372.	1.1	33
10	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 1449-1452.	1.1	30
11	Enhanced production of antitumour naphthoquinones in transgenic hairy root lines of <i>Lithospermum canescens</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2012, 108, 213-219.	1.2	28
12	The shikonin derivatives and pyrrolizidine alkaloids in hairy root cultures of <i>Lithospermum canescens</i> (Michx.) Lehm.. <i>Plant Cell Reports</i> , 2006, 25, 1052-1058.	2.8	27
13	Comparison of elicitor-based effects on metabolic responses of <i>Taxus media</i> hairy roots in perfluorodecalin-supported two-phase culture system. <i>Plant Cell Reports</i> , 2019, 38, 85-99.	2.8	25
14	Paclitaxel production and PAL activity in hairy root cultures of <i>Taxus x media</i> var. <i>Hicksii</i> carrying a taxadiene synthase transgene elicited with nitric oxide and methyl jasmonate. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	24
15	Biotransformation of cinnamyl alcohol to rosavins by non-transformed wild type and hairy root cultures of <i>Rhodiola kirilowii</i> . <i>Biotechnology Letters</i> , 2014, 36, 649-656.	1.1	22
16	Liquid Perfluorodecalin Application for In Situ Extraction and Enhanced Naphthoquinones Production in <i>Arnebia euchroma</i> Cell Suspension Cultures. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 2618-2627.	1.4	18
17	Approaches of <i>Rhodiola kirilowii</i> and <i>Rhodiola rosea</i> field cultivation in Poland and their potential health benefits. <i>Annals of Agricultural and Environmental Medicine</i> , 2015, 22, 281-285.	0.5	17
18	Pyrrolizidine alkaloids from <i>Cynoglossum columnae</i> Ten. (Boraginaceae). <i>Phytochemistry Letters</i> , 2016, 15, 234-237.	0.6	16

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19	Hairy Root Cultures for the Production of Anti-cancer Naphthoquinone Compounds. <i>Current Medicinal Chemistry</i> , 2018, 25, 4718-4739.	1.2	14
20	A cellulase-supported two-phase in situ system for enhanced biosynthesis of paclitaxel in <i>Taxus Å—media</i> hairy roots. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	1.0	11
21	Bioactive rinderol and cynoglosol isolated from <i>Cynoglossum columnae</i> Ten. in vitro root culture. <i>Industrial Crops and Products</i> , 2019, 137, 446-452.	2.5	11
22	Antigenotoxic, Anti-photogenotoxic, and Antioxidant Properties of <i>Polyscias filicifolia</i> Shoots Cultivated In Vitro. <i>Molecules</i> , 2020, 25, 1090.	1.7	11
23	MTMS-Based Aerogel Constructs for Immobilization of Plant Hairy Roots: Effects on Proliferation of <i>Rindera graeca</i> Biomass and Extracellular Secretion of Naphthoquinones. <i>Journal of Functional Biomaterials</i> , 2021, 12, 19.	1.8	9
24	Taxane Production in Suspension Culture of <i>Taxus Å—Media</i> var. <i>Hicksii</i> Carried Out in Flasks and Bioreactor. <i>Biotechnology Letters</i> , 2005, 27, 1301-1304.	1.1	8
25	Lignan accumulation in two-phase cultures of <i>Taxus x media</i> hairy roots. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 133, 371-384.	1.2	8
26	In Vitro Response of <i>Polyscias filicifolia</i> (Araliaceae) Shoots to Elicitation with Alarmone“Diadenosine Triphosphate, Methyl Jasmonate, and Salicylic Acid. <i>Cells</i> , 2021, 10, 419.	1.8	8
27	Comparative Study of the Genetic and Biochemical Variability of <i>Polyscias filicifolia</i> (Araliaceae) Regenerants Obtained by Indirect and Direct Somatic Embryogenesis as a Source of Triterpenes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5752.	1.8	8
28	Metabolic Modifications in Terpenoid and Steroid Pathways Triggered by Methyl Jasmonate in <i>Taxus Å—media</i> Hairy Roots. <i>Plants</i> , 2022, 11, 1120.	1.6	8
29	Chemical Profile and Screening of Bioactive Metabolites of <i>Rindera graeca</i> (A. DC.) Bois. & Heldr. (Boraginaceae) In Vitro Cultures. <i>Plants</i> , 2021, 10, 834.	1.6	7
30	Stimulation of phenolic compounds production in the in vitro cultivated <i>Polyscias filicifolia</i> Bailey shoots and evaluation of the antioxidant and cytotoxic potential of plant extracts. <i>Acta Societatis Botanicorum Poloniae</i> , 2018, 87, .	0.8	7
31	HPLC-PDA-ESI-HRMS-Based Profiling of Secondary Metabolites of <i>Rindera graeca</i> Anatomical and Hairy Roots Treated with Drought and Cold Stress. <i>Cells</i> , 2022, 11, 931.	1.8	7
32	Application of Priming Strategy for Enhanced Paclitaxel Biosynthesis in <i>Taxus Å—Media</i> Hairy Root Cultures. <i>Cells</i> , 2022, 11, 2062.	1.8	6
33	Establishment of <i>Rindera graeca</i> transgenic root culture as a source of shikonin derivatives. <i>Planta Medica</i> , 2008, 74, .	0.7	5
34	Phenolic compounds from in vitro cultures of <i>Rindera graeca</i> Boiss. & Feldr.. <i>Planta Medica</i> , 2013, 79, .	0.7	5
35	Polyurethane Foam Rafts Supported In Vitro Cultures of <i>Rindera graeca</i> Roots for Enhanced Production of Rinderol, Potent Proapoptotic Naphthoquinone Compound. <i>International Journal of Molecular Sciences</i> , 2022, 23, 56.	1.8	5
36	Phenolic compounds from in vitro cultures of <i>Rindera gareca</i> Boiss. & Heldr.. <i>Planta Medica</i> , 2012, 78, .	0.7	3

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37	Polyscias filicifolia (Araliaceae) Hairy Roots with Antigenotoxic and Anti-Photogenotoxic Activity. <i>Molecules</i> , 2022, 27, 186.	1.7	3
38	Cytotoxic and antimicrobial activity of <i>Cynoglossum columnae</i> Ten. in vitro roots. <i>Planta Medica</i> , 2012, 78, .	0.7	2
39	Isolation of pyrrolizidine alkaloids from <i>Cynoglossum columnae</i> Ten. (Boraginaceae). <i>Planta Medica</i> , 2013, 79, .	0.7	2
40	Production of shikonin derivatives in transgenic roots of <i>Lithospermum canescens</i> (Michx.) Lehm. cultivated in mist bioreactor. <i>Planta Medica</i> , 2008, 74, .	0.7	2
41	Activity of tyrosol glucosyltransferase in <i>Rhodiola kirilowii</i> transgenic root cultures. <i>Planta Medica</i> , 2012, 78, .	0.7	1
42	Development of <i>Taxus</i> spp. Hairy Root Cultures for Enhanced Taxane Production. <i>Reference Series in Phytochemistry</i> , 2019, , 1-19.	0.2	1
43	TYROSOL GLUCOSYLTRANSFERASE ACTIVITY AND SALIDROSIDE PRODUCTION IN NATURAL AND TRANSFORMED ROOT CULTURES OF RHODIOLA KIRILOWII (REGEL) REGEL ET MAXIMOWICZ. <i>Acta Biologica Cracoviensia Series Botanica</i> , 2013, 55, .	0.5	0
44	Lignans from in vitro cultures of transgenic roots of <i>Taxus x media</i> var. <i>Hicksii</i> . <i>Planta Medica</i> , 2012, 78, .	0.7	0
45	Development of <i>Taxus</i> spp. Hairy Root Cultures for Enhanced Taxane Production. <i>Reference Series in Phytochemistry</i> , 2021, , 541-559.	0.2	0