Heiko Rischer

List of Publications by Year
in descending order

82	3,254	172457	161849
papers	citations	29 h-index	54 g-index

88	88	88	4276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plant cell cultures of Nordic berry species: Phenolic and carotenoid profiling and biological assessments. Food Chemistry, 2022, 366, 130571.	8.2	8
2	Life cycle assessment of plant cell cultures. Science of the Total Environment, 2022, 808, 151990.	8.0	12
3	Sambucus nigra L. cell cultures produce main species-specific phytochemicals with anti-inflammatory properties and in vitro ACE2 binding inhibition to SARS-CoV2. Industrial Crops and Products, 2022, 186, 115236.	5.2	3
4	Formation and analysis of structured solid foam patties based on crosslinked plant cell suspension cultures. LWT - Food Science and Technology, 2022, 164, 113650.	5.2	0
5	Variation in the fatty acid profiles of two cold water diatoms grown under different temperature, light, and nutrient regimes. Journal of Applied Phycology, 2021, 33, 1447-1455.	2.8	5
6	Engineering of Saccharomyces cerevisiae for anthranilate and methyl anthranilate production. Microbial Cell Factories, 2021, 20, 34.	4.0	14
7	Contrasting Dihydronaphthoquinone Patterns in Closely Related Drosera (Sundew) Species Enable Taxonomic Distinction and Identification. Plants, 2021, 10, 1601.	3.5	3
8	Plant cell cultures as foodâ€"aspects of sustainability and safety. Plant Cell Reports, 2020, 39, 1655-1668.	5.6	21
9	Editorial: Proceedings of ISPMF 2018 - Plant Molecular Farming. Frontiers in Plant Science, 2020, 11, 492.	3.6	1
10	Agrobacterium-Mediated Genetic Transformation of the Medicinal Plant Veratrum dahuricum. Plants, 2020, 9, 191.	3.5	19
11	Cellular agriculture â€" industrial biotechnology for food and materials. Current Opinion in Biotechnology, 2020, 61, 128-134.	6.6	108
12	Methyljasmonate Elicitation Increases Terpenoid Indole Alkaloid Accumulation in Rhazya stricta Hairy Root Cultures. Plants, 2019, 8, 534.	3.5	28
13	Polyketide-Derived Alkaloids and Anthraquinones in Aloe Plants and Cell Cultures. , 2019, 1, .		2
14	Plant cells as food â€“ A concept taking shape. Food Research International, 2018, 107, 297-305.	6.2	60
15	Biotransformation of Cyclodextrine-Complexed Semisynthetic Betulin Derivatives by Plant Cells. Planta Medica, 2018, 84, 743-748.	1.3	1
16	Marine Microalgae: Promising Source for New Bioactive Compounds. Marine Drugs, 2018, 16, 317.	4.6	49
17	Tobacco BY-2 Media Component Optimization for a Cost-Efficient Recombinant Protein Production. Frontiers in Plant Science, 2018, 9, 45.	3.6	30
18	Euglena gracilis growth and cell composition under different temperature, light and trophic conditions. PLoS ONE, 2018, 13, e0195329.	2.5	59

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19	Variability in the production of tannins and other polyphenols in cell cultures of 12 Nordic plant species. Planta, 2017, 246, 227-241.	3.2	36
20	Biotechnology of the medicinal plant Rhazya stricta: a little investigated member of the Apocynaceae family. Biotechnology Letters, 2017, 39, 829-840.	2.2	9
21	Liquid Chromatography-Mass Spectrometry (LC-MS)-Based Analysis of Molecular Lipids in Algae Samples. Methods in Molecular Biology, 2017, 1980, 215-222.	0.9	2
22	UPLC-ELSD Analysis of Algal Lipid Classes and Derivatization of Bound and Free Fatty Acids and Sterols for GC-MS Methods. Methods in Molecular Biology, 2017, 1980, 223-232.	0.9	9
23	The killer of Socrates: Coniine and Related Alkaloids in the Plant Kingdom. Molecules, 2017, 22, 1962.	3.8	54
24	Metabolite profiling of the carnivorous pitcher plants Darlingtonia and Sarracenia. PLoS ONE, 2017, 12, e0171078.	2.5	17
25	Standards for plant synthetic biology: a common syntax for exchange of <scp>DNA</scp> parts. New Phytologist, 2015, 208, 13-19.	7.3	263
26	Determination of terpenoid indole alkaloids in hairy roots of Rhazya stricta (Apocynaceae) by GCâ€MS. Phytochemical Analysis, 2015, 26, 331-338.	2.4	18
27	Polyketide synthases from poison hemlock (ConiumÂmaculatum L.). FEBS Journal, 2015, 282, 4141-4156.	4.7	15
28	Analysis of Indole Alkaloids from Rhazya stricta Hairy Roots by Ultra-Performance Liquid Chromatography-Mass Spectrometry. Molecules, 2015, 20, 22621-22634.	3.8	18
29	Bioconversion to Raspberry Ketone is Achieved by Several Non-related Plant Cell Cultures. Frontiers in Plant Science, 2015, 6, 1035.	3.6	12
30	The bHLH transcription factor BIS1 controls the iridoid branch of the monoterpenoid indole alkaloid pathway in Catharanthus roseus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8130-8135.	7.1	176
31	Establishment of transgenic Rhazya stricta hairy roots to modulate terpenoid indole alkaloid production. Plant Cell Reports, 2015, 34, 1939-1952.	5.6	16
32	Elicitation of furanocoumarins in poison hemlock (Conium maculatum L.) cell culture. Plant Cell, Tissue and Organ Culture, 2015, 123, 443-453.	2.3	14
33	Nile Red staining of phytoplankton neutral lipids: species-specific fluorescence kinetics in various solvents. Journal of Applied Phycology, 2015, 27, 1161-1168.	2.8	29
34	Optimization of Invasion-Specific Effects of Betulin Derivatives on Prostate Cancer Cells through Lead Development. PLoS ONE, 2015, 10, e0126111.	2.5	20
35	Algaeâ€“bacteria association inferred by 16S <scp>rDNA</scp> similarity in established microalgae cultures. MicrobiologyOpen, 2014, 3, 356-368.	3.0	30
36	Cloudberry (Rubus chamaemorus) cell culture with bioactive substances: Establishment and mass propagation for industrial use. Engineering in Life Sciences, 2014, 14, 667-675.	3.6	24

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37	Disposable Bioreactors for Cultivation of Plant Cell Cultures. , 2014, , 17-46.		21
38	Evaluation of tobacco (Nicotiana tabacum L. cv. Petit Havana SR1) hairy roots for the production of geraniol, the first committed step in terpenoid indole alkaloid pathway. Journal of Biotechnology, 2014, 176, 20-28.	3.8	36
39	Selection and validation of reference genes for transcript normalization in gene expression studies in Catharanthus roseus. Plant Physiology and Biochemistry, 2014, 83, 20-25.	5.8	29
40	Mixotrophic continuous flow cultivation of Chlorella protothecoides for lipids. Bioresource Technology, 2013, 144, 608-614.	9.6	48
41	The effect of high pH on structural lipids in diatoms. Journal of Applied Phycology, 2013, 25, 1435-1439.	2.8	27
42	Analysis of the Interface between Primary and Secondary Metabolism in Catharanthus roseus Cell Cultures Using 13C-Stable Isotope Feeding and Coupled Mass Spectrometry. Molecular Plant, 2013, 6, 581-584.	8.3	16
43	Lipid content in 19 brackish and marine microalgae: influence of growth phase, salinity and temperature. Aquatic Ecology, 2013, 47, 415-424.	1.5	32
44	Waveâ€Mixed and Orbitally Shaken Singleâ€Use Photobioreactors for Diatom Algae Propagation. Chemie-Ingenieur-Technik, 2013, 85, 197-201.	0.8	14
45	Medicinal Plants medicinal plant , Engineering of Secondary Metabolites cell/cellular cultures secondary metabolites in Cell Cultures cell/cellular cultures. , 2013, , 1182-1200.		3
46	CathaCyc, a Metabolic Pathway Database Built from Catharanthus roseus RNA-Seq Data. Plant and Cell Physiology, 2013, 54, 673-685.	3.1	116
47	Metabolic Engineering of Plant Secondary Products: Which Way Forward?. Current Pharmaceutical Design, 2013, 19, 5622-5639.	1.9	58
48	Plant Cells as Pharmaceutical Factories. Current Pharmaceutical Design, 2013, 19, 5640-5660.	1.9	55
49	Metabolic engineering and elicitation of pharmaceutically active metabolites in Rhazya stricta (Apocynaceae). Planta Medica, 2013, 79, .	1.3	0
50	In-depth proteome mining of culturedCatharanthus roseuscells identifies candidate proteins involved in the synthesis and transport of secondary metabolites. Proteomics, 2012, 12, 3536-3547.	2.2	30
51	Differential patterns of dehydroabietic acid biotransformation by Nicotiana tabacum and Catharanthus roseus cells. Journal of Biotechnology, 2012, 157, 287-294.	3.8	14
52	Medicinal Plants medicinal plant , Engineering of Secondary Metabolites cell/cellular cultures secondary metabolites in Cell Cultures cell/cellular cultures. , 2012, , 6519-6538.		2
53	Jasmonate signaling involves the abscisic acid receptor PYL4 to regulate metabolic reprogramming in Arabidopsis and tobacco. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5891-5896.	7.1	228
54	Evidence for species differentiation within the Ancistrocladus tectorius complex (Ancistrocladaceae) in Southeast Asia: a molecular approach. Plant Systematics and Evolution, 2010, 284, 77-98.	0.9	16

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55	Vacuolar transport of nicotine is mediated by a multidrug and toxic compound extrusion (MATE) transporter in Nicotiana tabacum. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2447-2452.	7.1	255
56	Metabolic Engineering of the Alkaloid Biosynthesis in Plants: Functional Genomics Approaches. , 2007, , 109-127.		13
57	Functional characterisation of genes involved in pyridine alkaloid biosynthesis in tobacco. Phytochemistry, 2007, 68, 2773-2785.	2.9	54
58	Implementation of functional genomics for gene discovery in alkaloid producing plants. Phytochemistry Reviews, 2007, 6, 35-49.	6.5	34
59	Integrating Transcriptional and Metabolic Profiling to Unravel Secondary Metabolite Biosynthesis in Plants. , 2007, , 135-138.		0
60	Unintended effects in genetically modified crops: revealed by metabolomics?. Trends in Biotechnology, 2006, 24, 102-104.	9.3	80
61	Development ofin vitroTechniques for the Important Medicinal PlantVeratrum californicum. Planta Medica, 2006, 72, 1142-1148.	1.3	16
62	Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in Catharanthus roseus cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5614-5619.	7.1	307
63	Integrated transcript and metabolite profiling of the medicinal plant Catharanthus roseus. Planta Medica, 2006, 72, .	1.3	0
64	Plant secondary metabolism in the post-genomic era. Planta Medica, 2006, 72, .	1.3	0
65	Ancistrocladus Benomensis (Ancistrocladaceae): A New Species from Peninsular Malaysia. Blumea: Journal of Plant Taxonomy and Plant Geography, 2005, 50, 357-365.	0.2	16
66	Biotechnological utilization of plant genetic resources for the production of phytopharmaceuticals. Plant Genetic Resources: Characterisation and Utilisation, 2005, 3, 83-89.	0.8	5
67	ent-Dioncophylleine A and Related Dehydrogenated Naphthylisoquinoline Alkaloids, the First Asian Dioncophyllaceae-Type Alkaloids, from the â€œNewâ€•Plant SpeciesAncistrocladus benomensis1. Journal of Natural Products, 2005, 68, 686-690.	3.0	42
68	Asian mainlandNepenthes. Acta Botanica Gallica, 2005, 152, 264-264.	0.9	0
69	Carnivorous plant chemistry. Acta Botanica Gallica, 2005, 152, 187-195.	0.9	25
70	Anatalline and Other Methyl Jasmonate-Inducible Nicotine Alkaloids fromNicotiana tabacumcv. BY-2 Cell Cultures. Planta Medica, 2004, 70, 936-941.	1.3	26
71	Ancistrobenomine A, the First Naphthylisoquinoline Oxygenated at Me-3, and Related 5,1â€˜-Coupled Alkaloids, from the â€œNewâ€•Plant SpeciesAncistrocladusbenomensis1. Journal of Natural Products, 2004, 67, 2058-2062.	3.0	26
72	In vitro germination and establishment of tissue cultures of Bulbine caulescens and of two Kniphofia species (Asphodelaceae). Plant Cell Reports, 2002, 21, 125-129.	5.6	4

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73	Nepenthes insignis uses a C2-portion of the carbon skeleton of l-alanine acquired via its carnivorous organs, to build up the allelochemical plumbagin. Phytochemistry, 2002, 59, 603-609.	2.9	70
74	Extract screening by HPLC coupled to MSâ€“MS, NMR, and CD: a dimeric and three monomeric naphthylisoquinoline alkaloids from Ancistrocladus griffithii. Phytochemistry, 2002, 61, 195-204.	2.9	71
75	A Photometric Screening Method for Dimeric Naphthylisoquinoline Alkaloids and Complete On-Line Structural Elucidation of a Dimer in Crude Plant Extracts, by the LCâ^'MS/LCâ^'NMR/LCâ^'CD Triad. Analytical Chemistry, 2001, 73, 2571-2577.	6.5	49
76	A New Biosynthetic Pathway to Alkaloids in Plants: Acetogenic Isoquinolines. Angewandte Chemie - International Edition, 2000, 39, 1464-1466.	13.8	82
77	Droserone from cell cultures of Triphyophyllum peltatum (Dioncophyllaceae) and its biosynthetic origin. Phytochemistry, 2000, 53, 339-343.	2.9	36
78	Revised Structure of Antidesmone, an Unusual Alkaloid from Tropical Antidesma Plants (Euphorbiaceae). Tetrahedron, 2000, 56, 3691-3695.	1.9	34
79	Biosynthesis of Antidesmone in Cell Cultures ofAntidesmamembranaceum(Euphorbiaceae):Â An Unprecedented Class of Glycine-Derived Alkaloids. Journal of the American Chemical Society, 2000, 122, 9905-9910.	13.7	13
80	In vitro propagation of Ancistrocladus abbreviatus Airy Shaw (Ancistrocladaceae). Plant Cell, Tissue and Organ Culture, 1999, 57, 71-73.	2.3	14
81	The polyketide folding mode in the biogenesis of isoshinanolone and plumbagin from Ancistrocladus heyneanus (Ancistrocladaceae). Tetrahedron Letters, 1998, 39, 8445-8448.	1.4	36
82	Lab-Grown Coffee. ChemistryViews, 0, , .	0.0	1