

Heiko Rischer

List of Publications by Year in descending order

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82
papers

3,254
citations

172457

29
h-index

161849

54
g-index

88
all docs

88
docs citations

88
times ranked

4276
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5614-5619.	7.1	307
2	Standards for plant synthetic biology: a common syntax for exchange of <sc>DNA</sc> parts. New Phytologist, 2015, 208, 13-19.	7.3	263
3	Vacuolar transport of nicotine is mediated by a multidrug and toxic compound extrusion (MATE) transporter in <i>Nicotiana tabacum</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2447-2452.	7.1	255
4	Jasmonate signaling involves the abscisic acid receptor PYL4 to regulate metabolic reprogramming in <i>Arabidopsis</i> and tobacco. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5891-5896.	7.1	228
5	The bHLH transcription factor BIS1 controls the iridoid branch of the monoterpenoid indole alkaloid pathway in <i>Catharanthus roseus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8130-8135.	7.1	176
6	CathaCyc, a Metabolic Pathway Database Built from <i>Catharanthus roseus</i> RNA-Seq Data. Plant and Cell Physiology, 2013, 54, 673-685.	3.1	116
7	Cellular agriculture â€” industrial biotechnology for food and materials. Current Opinion in Biotechnology, 2020, 61, 128-134.	6.6	108
8	A New Biosynthetic Pathway to Alkaloids in Plants: Acetogenic Isoquinolines. Angewandte Chemie - International Edition, 2000, 39, 1464-1466.	13.8	82
9	Unintended effects in genetically modified crops: revealed by metabolomics?. Trends in Biotechnology, 2006, 24, 102-104.	9.3	80
10	Extract screening by HPLC coupled to MSâ€”MS, NMR, and CD: a dimeric and three monomeric naphthylisoquinoline alkaloids from <i>Ancistrocladus griffithii</i> . Phytochemistry, 2002, 61, 195-204.	2.9	71
11	<i>Nepenthes insignis</i> 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
12	Plant cells as food â€” A concept taking shape. Food Research International, 2018, 107, 297-305.	6.2	60
13	<i>Euglena gracilis</i> growth and cell composition under different temperature, light and trophic conditions. PLoS ONE, 2018, 13, e0195329.	2.5	59
14	Metabolic Engineering of Plant Secondary Products: Which Way Forward?. Current Pharmaceutical Design, 2013, 19, 5622-5639.	1.9	58
15	Plant Cells as Pharmaceutical Factories. Current Pharmaceutical Design, 2013, 19, 5640-5660.	1.9	55
16	Functional characterisation of genes involved in pyridine alkaloid biosynthesis in tobacco. Phytochemistry, 2007, 68, 2773-2785.	2.9	54
17	The killer of Socrates: Coniine and Related Alkaloids in the Plant Kingdom. Molecules, 2017, 22, 1962.	3.8	54
18	A Photometric Screening Method for Dimeric Naphthylisoquinoline Alkaloids and Complete On-Line Structural Elucidation of a Dimer in Crude Plant Extracts, by the LCâˆ”MS/LCâˆ”NMR/LCâˆ”CD Triad. Analytical Chemistry, 2001, 73, 2571-2577.	6.5	49

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19	Marine Microalgae: Promising Source for New Bioactive Compounds. <i>Marine Drugs</i> , 2018, 16, 317.	4.6	49
20	Mixotrophic continuous flow cultivation of <i>Chlorella protothecoides</i> for lipids. <i>Bioresource Technology</i> , 2013, 144, 608-614.	9.6	48
21	ent-Dioncophylleine A and Related Dehydrogenated Naphthylisoquinoline Alkaloids, the First Asian Dioncophyllaceae-Type Alkaloids, from the "New" Plant Species <i>Ancistrocladus benomensis</i> 1. <i>Journal of Natural Products</i> , 2005, 68, 686-690.	3.0	42
22	The polyketide folding mode in the biogenesis of isoshinanolone and plumbagin from <i>Ancistrocladus heyneanus</i> (Ancistrocladaceae). <i>Tetrahedron Letters</i> , 1998, 39, 8445-8448.	1.4	36
23	Droserone from cell cultures of <i>Triphyophyllum peltatum</i> (Dioncophyllaceae) and its biosynthetic origin. <i>Phytochemistry</i> , 2000, 53, 339-343.	2.9	36
24	Evaluation of tobacco (<i>Nicotiana tabacum</i> L. cv. Petit Havana SR1) hairy roots for the production of geraniol, the first committed step in terpenoid indole alkaloid pathway. <i>Journal of Biotechnology</i> , 2014, 176, 20-28.	3.8	36
25	Variability in the production of tannins and other polyphenols in cell cultures of 12 Nordic plant species. <i>Planta</i> , 2017, 246, 227-241.	3.2	36
26	Revised Structure of Antidesmone, an Unusual Alkaloid from Tropical <i>Antidesma</i> Plants (Euphorbiaceae). <i>Tetrahedron</i> , 2000, 56, 3691-3695.	1.9	34
27	Implementation of functional genomics for gene discovery in alkaloid producing plants. <i>Phytochemistry Reviews</i> , 2007, 6, 35-49.	6.5	34
28	Lipid content in 19 brackish and marine microalgae: influence of growth phase, salinity and temperature. <i>Aquatic Ecology</i> , 2013, 47, 415-424.	1.5	32
29	In-depth proteome mining of cultured <i>Catharanthus roseus</i> cells identifies candidate proteins involved in the synthesis and transport of secondary metabolites. <i>Proteomics</i> , 2012, 12, 3536-3547.	2.2	30
30	Algae-bacteria association inferred by 16S rDNA similarity in established microalgae cultures. <i>MicrobiologyOpen</i> , 2014, 3, 356-368.	3.0	30
31	Tobacco BY-2 Media Component Optimization for a Cost-Efficient Recombinant Protein Production. <i>Frontiers in Plant Science</i> , 2018, 9, 45.	3.6	30
32	Selection and validation of reference genes for transcript normalization in gene expression studies in <i>Catharanthus roseus</i> . <i>Plant Physiology and Biochemistry</i> , 2014, 83, 20-25.	5.8	29
33	Nile Red staining of phytoplankton neutral lipids: species-specific fluorescence kinetics in various solvents. <i>Journal of Applied Phycology</i> , 2015, 27, 1161-1168.	2.8	29
34	Methyljasmonate Elicitation Increases Terpenoid Indole Alkaloid Accumulation in <i>Rhazya stricta</i> Hairy Root Cultures. <i>Plants</i> , 2019, 8, 534.	3.5	28
35	The effect of high pH on structural lipids in diatoms. <i>Journal of Applied Phycology</i> , 2013, 25, 1435-1439.	2.8	27
36	Anatalline and Other Methyl Jasmonate-Inducible Nicotine Alkaloids from <i>Nicotiana tabacum</i> cv. BY-2 Cell Cultures. <i>Planta Medica</i> , 2004, 70, 936-941.	1.3	26

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37	Ancistrobenomine A, the First Naphthylisoquinoline Oxygenated at Me-3, and Related 5,1- β -Coupled Alkaloids, from the "New" Plant Species <i>Ancistrocladus benomensis</i> 1. <i>Journal of Natural Products</i> , 2004, 67, 2058-2062.	3.0	26
38	Carnivorous plant chemistry. <i>Acta Botanica Gallica</i> , 2005, 152, 187-195.	0.9	25
39	Cloudberry (<i>Rubus chamaemorus</i>) cell culture with bioactive substances: Establishment and mass propagation for industrial use. <i>Engineering in Life Sciences</i> , 2014, 14, 667-675.	3.6	24
40	Disposable Bioreactors for Cultivation of Plant Cell Cultures. , 2014, , 17-46.		21
41	Plant cell cultures as food "aspects of sustainability and safety. <i>Plant Cell Reports</i> , 2020, 39, 1655-1668.	5.6	21
42	Optimization of Invasion-Specific Effects of Betulin Derivatives on Prostate Cancer Cells through Lead Development. <i>PLoS ONE</i> , 2015, 10, e0126111.	2.5	20
43	<i>Agrobacterium</i> -Mediated Genetic Transformation of the Medicinal Plant <i>Veratrum dahuricum</i> . <i>Plants</i> , 2020, 9, 191.	3.5	19
44	Determination of terpenoid indole alkaloids in hairy roots of <i>Rhazya stricta</i> (Apocynaceae) by GC-MS. <i>Phytochemical Analysis</i> , 2015, 26, 331-338.	2.4	18
45	Analysis of Indole Alkaloids from <i>Rhazya stricta</i> Hairy Roots by Ultra-Performance Liquid Chromatography-Mass Spectrometry. <i>Molecules</i> , 2015, 20, 22621-22634.	3.8	18
46	Metabolite profiling of the carnivorous pitcher plants <i>Darlingtonia</i> and <i>Sarracenia</i> . <i>PLoS ONE</i> , 2017, 12, e0171078.	2.5	17
47	<i>Ancistrocladus Benomensis</i> (Ancistrocladaceae): A New Species from Peninsular Malaysia. <i>Blumea: Journal of Plant Taxonomy and Plant Geography</i> , 2005, 50, 357-365.	0.2	16
48	Development of in vitro Techniques for the Important Medicinal Plant <i>Veratrum californicum</i> . <i>Planta Medica</i> , 2006, 72, 1142-1148.	1.3	16
49	Evidence for species differentiation within the <i>Ancistrocladus tectorius</i> complex (Ancistrocladaceae) in Southeast Asia: a molecular approach. <i>Plant Systematics and Evolution</i> , 2010, 284, 77-98.	0.9	16
50	Analysis of the Interface between Primary and Secondary Metabolism in <i>Catharanthus roseus</i> Cell Cultures Using ^{13}C -Stable Isotope Feeding and Coupled Mass Spectrometry. <i>Molecular Plant</i> , 2013, 6, 581-584.	8.3	16
51	Establishment of transgenic <i>Rhazya stricta</i> hairy roots to modulate terpenoid indole alkaloid production. <i>Plant Cell Reports</i> , 2015, 34, 1939-1952.	5.6	16
52	Polyketide synthases from poison hemlock (<i>Conium maculatum</i> L.). <i>FEBS Journal</i> , 2015, 282, 4141-4156.	4.7	15
53	In vitro propagation of <i>Ancistrocladus abbreviatus</i> Airy Shaw (Ancistrocladaceae). <i>Plant Cell, Tissue and Organ Culture</i> , 1999, 57, 71-73.	2.3	14
54	Differential patterns of dehydroabietic acid biotransformation by <i>Nicotiana tabacum</i> and <i>Catharanthus roseus</i> cells. <i>Journal of Biotechnology</i> , 2012, 157, 287-294.	3.8	14

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55	Wave-Mixed and Orbitally Shaken Single-Use Photobioreactors for Diatom Algae Propagation. <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 197-201.	0.8	14
56	Elicitation of furanocoumarins in poison hemlock (<i>Conium maculatum</i> L.) cell culture. <i>Plant Cell, Tissue and Organ Culture</i> , 2015, 123, 443-453.	2.3	14
57	Engineering of <i>Saccharomyces cerevisiae</i> for anthranilate and methyl anthranilate production. <i>Microbial Cell Factories</i> , 2021, 20, 34.	4.0	14
58	Biosynthesis of Antidesmone in Cell Cultures of <i>Antidesma membranaceum</i> (Euphorbiaceae): An Unprecedented Class of Glycine-Derived Alkaloids. <i>Journal of the American Chemical Society</i> , 2000, 122, 9905-9910.	13.7	13
59	Metabolic Engineering of the Alkaloid Biosynthesis in Plants: Functional Genomics Approaches. , 2007, , 109-127.		13
60	Bioconversion to Raspberry Ketone is Achieved by Several Non-related Plant Cell Cultures. <i>Frontiers in Plant Science</i> , 2015, 6, 1035.	3.6	12
61	Life cycle assessment of plant cell cultures. <i>Science of the Total Environment</i> , 2022, 808, 151990.	8.0	12
62	Biotechnology of the medicinal plant <i>Rhazya stricta</i> : a little investigated member of the Apocynaceae family. <i>Biotechnology Letters</i> , 2017, 39, 829-840.	2.2	9
63	UPLC-ELSD Analysis of Algal Lipid Classes and Derivatization of Bound and Free Fatty Acids and Sterols for GC-MS Methods. <i>Methods in Molecular Biology</i> , 2017, 1980, 223-232.	0.9	9
64	Plant cell cultures of Nordic berry species: Phenolic and carotenoid profiling and biological assessments. <i>Food Chemistry</i> , 2022, 366, 130571.	8.2	8
65	Biotechnological utilization of plant genetic resources for the production of phytopharmaceuticals. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2005, 3, 83-89.	0.8	5
66	Variation in the fatty acid profiles of two cold water diatoms grown under different temperature, light, and nutrient regimes. <i>Journal of Applied Phycology</i> , 2021, 33, 1447-1455.	2.8	5
67	In vitro germination and establishment of tissue cultures of <i>Bulbine caulescens</i> and of two <i>Kniphofia</i> species (Asphodelaceae). <i>Plant Cell Reports</i> , 2002, 21, 125-129.	5.6	4
68	Medicinal Plants medicinal plant , Engineering of Secondary Metabolites cell/cellular cultures secondary metabolites in Cell Cultures cell/cellular cultures. , 2013, , 1182-1200.		3
69	Contrasting Dihydronaphthoquinone Patterns in Closely Related <i>Drosera</i> (Sundew) Species Enable Taxonomic Distinction and Identification. <i>Plants</i> , 2021, 10, 1601.	3.5	3
70	<i>Sambucus nigra</i> L. cell cultures produce main species-specific phytochemicals with anti-inflammatory properties and in vitro ACE2 binding inhibition to SARS-CoV2. <i>Industrial Crops and Products</i> , 2022, 186, 115236.	5.2	3
71	Liquid Chromatography-Mass Spectrometry (LC-MS)-Based Analysis of Molecular Lipids in Algae Samples. <i>Methods in Molecular Biology</i> , 2017, 1980, 215-222.	0.9	2
72	Polyketide-Derived Alkaloids and Anthraquinones in Aloe Plants and Cell Cultures. , 2019, 1, .		2

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73	Medicinal Plants medicinal plant , Engineering of Secondary Metabolites cell/cellular cultures secondary metabolites in Cell Cultures cell/cellular cultures. , 2012, , 6519-6538.		2
74	Biotransformation of Cyclodextrine-Complexed Semisynthetic Betulin Derivatives by Plant Cells. Planta Medica, 2018, 84, 743-748.	1.3	1
75	Editorial: Proceedings of ISPMF 2018 - Plant Molecular Farming. Frontiers in Plant Science, 2020, 11, 492.	3.6	1
76	Lab-Grown Coffee. ChemistryViews, 0, , .	0.0	1
77	Asian mainland <i>Nepenthes</i> . Acta Botanica Gallica, 2005, 152, 264-264.	0.9	0
78	Integrated transcript and metabolite profiling of the medicinal plant <i>Catharanthus roseus</i> . Planta Medica, 2006, 72, .	1.3	0
79	Plant secondary metabolism in the post-genomic era. Planta Medica, 2006, 72, .	1.3	0
80	Integrating Transcriptional and Metabolic Profiling to Unravel Secondary Metabolite Biosynthesis in Plants. , 2007, , 135-138.		0
81	Metabolic engineering and elicitation of pharmaceutically active metabolites in <i>Rhazya stricta</i> (Apocynaceae). Planta Medica, 2013, 79, .	1.3	0
82	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