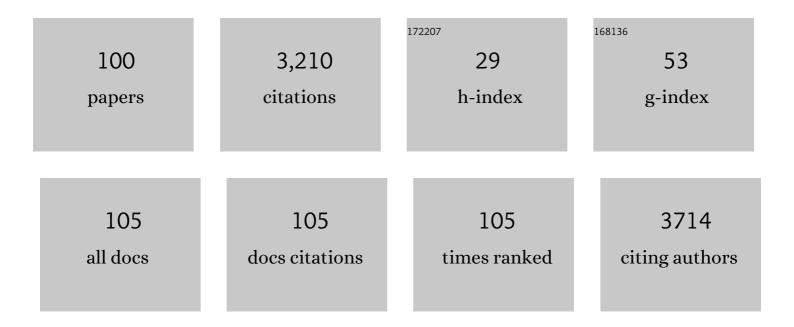
Thomas Bley

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10609212/publications.pdf Version: 2024-02-01



#	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	Biotransformation of triterpenes. Process Biochemistry, 2011, 46, 1-15.	1.8	141
4	Origin and analysis of microbial population heterogeneity in bioprocesses. Current Opinion in Biotechnology, 2010, 21, 100-113.	3.3	123
5	Temporary immersion systems in plant biotechnology. Engineering in Life Sciences, 2014, 14, 607-621.	2.0	121
6	Bioprocessing of differentiated plant in vitro systems. Engineering in Life Sciences, 2013, 13, 26-38.	2.0	112
7	Green bioprinting: Fabrication of photosynthetic algaeâ€laden hydrogel scaffolds for biotechnological and medical applications. Engineering in Life Sciences, 2015, 15, 177-183.	2.0	104
8	Anti-inflammatory activity of Devil's claw in vitro systems and their active constituents. Food Chemistry, 2011, 125, 171-178.	4.2	86
9	Rapid monitoring of the biodegradation of phenol-like compounds by the yeast Candida maltosa using BOD measurements. International Biodeterioration and Biodegradation, 2004, 54, 69-76.	1.9	73
10	Betalain production in plant in vitro systems. Acta Physiologiae Plantarum, 2008, 30, 581-593.	1.0	73
11	Perspectives for the biotechnological production of ethyl acetate by yeasts. Applied Microbiology and Biotechnology, 2014, 98, 5397-5415.	1.7	73
12	Betalains biosynthesis by Beta vulgaris L. hairy root culture in a temporary immersion cultivation system. Process Biochemistry, 2006, 41, 848-852.	1.8	65
13	Green bioprinting: extrusion-based fabrication of plant cell-laden biopolymer hydrogel scaffolds. Biofabrication, 2017, 9, 045011.	3.7	63
14	Methylobacterium rhodesianum cells tend to double the DNA content under growth limitations and accumulate PHB. Journal of Biotechnology, 1995, 39, 9-20.	1.9	61
15	Correlation of Community Dynamics and Process Parameters As a Tool for the Prediction of the Stability of Wastewater Treatment. Environmental Science & amp; Technology, 2012, 46, 84-92.	4.6	57
16	Adaptive responses of Ralstonia eutropha to feast and famine conditions analysed by flow cytometry. Journal of Biotechnology, 1999, 75, 81-97.	1.9	52
17	Metabolite and hormonal status of hairy root cultures of Devil's claw (Harpagophytum procumbens) in flasks and in a bubble column bioreactor. Process Biochemistry, 2008, 43, 15-23.	1.8	51
18	Formation of ethyl acetate from whey by Kluyveromyces marxianus on a pilot scale. Journal of Biotechnology, 2013, 163, 17-23.	1.9	49

#	Article	IF	CITATIONS
19	Green bioprinting: Viability and growth analysis of microalgae immobilized in 3Dâ€plotted hydrogels versus suspension cultures. Engineering in Life Sciences, 2015, 15, 678-688.	2.0	46
20	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
21	Studies on the mechanism of synthesis of ethyl acetate in Kluyveromyces marxianus DSM 5422. Applied Microbiology and Biotechnology, 2015, 99, 1131-1144.	1.7	41
22	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
23	Additive Biotech—Chances, challenges, and recent applications of additive manufacturing technologies in biotechnology. New Biotechnology, 2017, 39, 222-231.	2.4	40
24	Formation of ethyl acetate by Kluyveromyces marxianus on whey: studies of the ester stripping. Bioprocess and Biosystems Engineering, 2011, 34, 547-559.	1.7	36
25	Hydrophobin signal sequence mediates efficient secretion of recombinant proteins in Pichia pastoris. Applied Microbiology and Biotechnology, 2011, 91, 133-141.	1.7	36
26	Repeated fed-batch fermentation using biosensor online control for citric acid production by Yarrowia lipolytica. Journal of Biotechnology, 2011, 153, 133-137.	1.9	33
27	Growth of Kluyveromyces marxianus and formation of ethyl acetate depending on temperature. Applied Microbiology and Biotechnology, 2013, 97, 10359-10371.	1.7	31
28	Formation of ethyl acetate by Kluyveromyces marxianus on whey during aerobic batch cultivation at specific trace element limitation. Applied Microbiology and Biotechnology, 2012, 96, 1313-1323.	1.7	30
29	Antioxidant activity of devil's claw cell biomass and its active constituents. Food Chemistry, 2010, 121, 967-972.	4.2	29
30	Bioactive metabolite production and stress-related hormones in Devil's claw cell suspension cultures grown in bioreactors. Applied Microbiology and Biotechnology, 2011, 89, 1683-1691.	1.7	29
31	Induction of a photomixotrophic plant cell culture of Helianthus annuus and optimization of culture conditions for improved α-tocopherol production. Applied Microbiology and Biotechnology, 2014, 98, 2029-2040.	1.7	29
32	Flow cytometric investigations of diploid and tetraploid plants and in vitro cultures of <i>Datura stramonium</i> and <i>Hyoscyamus niger</i> . Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 931-939.	1.1	28
33	Growth kinetics of a <i><scp>H</scp>elianthus annuus</i> and a <i><scp>S</scp>alvia fruticosa</i> suspension cell line: Shake flask cultivations with online monitoring system. Engineering in Life Sciences, 2013, 13, 593-602.	2.0	27
34	Lightâ€fieldâ€characterization in a continuous hydrogenâ€producing photobioreactor by optical simulation and computational fluid dynamics. Biotechnology and Bioengineering, 2015, 112, 2439-2449.	1.7	27
35	Hydrogen production by Rhodobacter sphaeroides DSM 158 under intense irradiation. Bioresource Technology, 2015, 175, 82-90.	4.8	27
36	Biosensor online control of citric acid production from glucose by <i>Yarrowia lipolytica</i> using semicontinuous fermentation. Engineering in Life Sciences, 2010, 10, 311-320.	2.0	26

#	Article	IF	CITATIONS
37	Formation of ethyl acetate by Kluyveromyces marxianus on whey during aerobic batch and chemostat cultivation at iron limitation. Applied Microbiology and Biotechnology, 2012, 96, 685-696.	1.7	26
38	Asymmetric division of <i>Hansenula polymorpha</i> reflected by a drop of light scatter intensity measured in batch microtiter plate cultivations at phosphate limitation. Biotechnology and Bioengineering, 2009, 104, 554-561.	1.7	25
39	Formation of ethyl acetate by <i><scp>K</scp>luyveromyces marxianus</i> on whey: Influence of aeration and inhibition of yeast growth by ethyl acetate. Engineering in Life Sciences, 2013, 13, 247-260.	2.0	25
40	Biotechnological hydrogen production by photosynthesis. Engineering in Life Sciences, 2014, 14, 592-606.	2.0	25
41	Screening of <i>Kluyveromyces</i> strains for the production of ethyl acetate: Design and evaluation of a cultivation system. Engineering in Life Sciences, 2011, 11, 369-381.	2.0	24
42	Flavour compounds in backslop fermented uji (an East African sour porridge). European Food Research and Technology, 2004, 218, 579-583.	1.6	23
43	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
44	Flow Cytometry and Phytochemical Analysis of a Sunflower Cell Suspension Culture in a 5-L Bioreactor. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2008, 63, 699-705.	0.6	21
45	"Fungal elicitors combined with a sucrose feed significantly enhance triterpene production of a Salvia fruticosa cell suspensionâ€: Applied Microbiology and Biotechnology, 2016, 100, 7071-7082.	1.7	21
46	Combining Chemical and Biological Catalysis for the Conversion of Hemicelluloses: Hydrolytic Hydrogenation of Xylan to Xylitol. Catalysis Letters, 2019, 149, 69-76.	1.4	21
47	A compact and rapid aptasensor platform based on surface plasmon resonance. Engineering in Life Sciences, 2011, 11, 573-579.	2.0	20
48	Phytochemical and flow cytometric analyses of Devil's claw cell cultures. Plant Cell, Tissue and Organ Culture, 2011, 105, 79-84.	1.2	20
49	Efficient growth of Kluyveromyces marxianus biomass used as a biocatalyst in the sustainable production of ethyl acetate. Energy, Sustainability and Society, 2015, 5, .	1.7	20
50	Solidâ€state fermentation of lignocellulotic materials for the production of enzymes by the whiteâ€rot fungus <i>Trametes hirsuta</i> in a modular bioreactor. Engineering in Life Sciences, 2011, 11, 395-401.	2.0	19
51	Devil's Claw Hairy Root Culture in Flasks and in a 3-L Bioreactor: Bioactive Metabolite Accumulation and Flow Cytometry. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2010, 65, 472-478.	0.6	18
52	Modeling of plant in vitro cultures: Overview and estimation of biotechnological processes. Biotechnology and Bioengineering, 2015, 112, 1-12.	1.7	18
53	Biomass estimation during macro-scale solid-state fermentation of basidiomycetes using established and novel approaches. Bioprocess and Biosystems Engineering, 2015, 38, 1313-1323.	1.7	18
54	Membrane-potential-related fluorescence intensity indicates bacterial injury. Microbiological Research, 1996, 151, 127-131.	2.5	17

#	Article	lF	CITATIONS
55	Production of Oleanolic and Ursolic Acids by Callus Cultures ofSalvia TomentosaMill Biotechnology and Biotechnological Equipment, 2011, 25, 34-38.	0.5	17
56	MicrOLED-photobioreactor: Design and characterization of a milliliter-scale Flat-Panel-Airlift-photobioreactor with optical process monitoring. Algal Research, 2016, 18, 225-234.	2.4	17
57	Whiteâ€rot fungi combined with lignite granules and lignitic xylite to decolorize textile industry wastewater. Engineering in Life Sciences, 2010, 10, 26-34.	2.0	16
58	Constitutive expression of hydrophobin HFB1 from <i>Trichoderma reesei</i> in <i>Pichia pastoris</i> and its preâ€purification by foam separation during cultivation. Engineering in Life Sciences, 2012, 12, 162-170.	2.0	16
59	Substrate utilization by recombinant Yarrowia lipolytica growing on sucrose. Applied Microbiology and Biotechnology, 2012, 93, 1695-1702.	1.7	16
60	Biomass measurement by flow cytometry during solidâ€ s tate fermentation of basidiomycetes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 176-188.	1.1	16
61	Salvia suspension cultures as production systems for oleanolic and ursolic acid. Acta Physiologiae Plantarum, 2014, 36, 2137-2147.	1.0	14
62	Ploidy levels in <i>Beta vulgaris</i> (red beet) plant organs and <i>in vitro</i> systems. Engineering in Life Sciences, 2010, 10, 139-147.	2.0	13
63	Phototrophic growth of <i>Arthrospira platensis</i> in a respiration activity monitoring system for shake flasks (RAMOS®). Engineering in Life Sciences, 2014, 14, 658-666.	2.0	12
64	Mass propagation of <i>Helianthus annuus</i> suspension cells in orbitally shaken bioreactors: Improved growth rate in singleâ€use bag bioreactors. Engineering in Life Sciences, 2014, 14, 676-684.	2.0	12
65	Effects of caffeine on stereoselectivities of high cell density biotransformations of cyclic β-keto esters with Saccharomyces cerevisiae. Organic and Biomolecular Chemistry, 2007, 5, 3456.	1.5	11
66	Citric acid production from sucrose by recombinant <i>Yarrowia lipolytica</i> using semicontinuous fermentation. Engineering in Life Sciences, 2013, 13, 163-171.	2.0	11
67	Automatic image recognition to determine morphological development and secondary metabolite accumulation in hairy root networks. Engineering in Life Sciences, 2012, 12, 588-594.	2.0	10
68	Whole ell biotransformation of oleanolic acid by free and immobilized cells of <i>Nocardia iowensis</i> : Characterization of new metabolites. Engineering in Life Sciences, 2015, 15, 108-115.	2.0	10
69	The challenge of scaling up photobioreactors: Modeling and approaches in small scale. Engineering in Life Sciences, 2016, 16, 598-609.	2.0	10
70	The use of respirometric measurements to determine the toxicity of textile dyes in aqueous solution and after oxidative decolourisation processes. Chemosphere, 2007, 67, 2163-2168.	4.2	9
71	Modeling synchronous growth of bacterial populations in phased cultivation. Bioprocess and Biosystems Engineering, 2008, 31, 435-443.	1.7	8
72	Modeling hairy root tissue growth in in vitro environments using an agent-based, structured growth model. Bioprocess and Biosystems Engineering, 2014, 37, 1173-1184.	1.7	8

#	Article	IF	CITATIONS
73	PetriJet Platform Technology: An Automated Platform for Culture Dish Handling and Monitoring of the Association for Laboratory Automation, 2015, 20, 447-456.	2.8	7
74	A new method for non-invasive biomass determination based on stereo photogrammetry. Bioprocess and Biosystems Engineering, 2018, 41, 369-380.	1.7	7
75	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
76	Bioreactors for the Cultivation of Red Beet Hairy Roots. , 2013, , 251-281.		6
77	A novel protocol to prepare cell probes for the quantification of microbial adhesion and biofilm initiation on structured bioinspired surfaces using AFM for singleâ€cell force spectroscopy. Engineering in Life Sciences, 2017, 17, 833-840.	2.0	6
78	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
79	Initial phases of microbial biofilm formation on opaque, innovative antiâ€ e dhesive surfaces using a modular microfluidic system. Engineering in Life Sciences, 2014, 14, 76-84.	2.0	5
80	Monitoring bioactive and total antibody concentrations for continuous process control by surface plasmon resonance spectroscopy. Engineering in Life Sciences, 2019, 19, 681-690.	2.0	5
81	From Single Cells to Microbial Population Dynamics: Modelling in Biotechnology Based on Measurements of Individual Cells. Advances in Biochemical Engineering/Biotechnology, 2010, 124, 211-227.	0.6	4
82	Uptake of iron by <i>Kluyveromyces marxianus</i> DSM 5422 cultivated in a wheyâ€based medium. Engineering in Life Sciences, 2018, 18, 459-474.	2.0	4
83	Determination of Triterpenic Acids and Screening for Valuable Secondary Metabolites in Salvia sp. Suspension Cultures. Natural Product Communications, 2014, 9, 1934578X1400900.	0.2	3
84	Two parametric cell cycle analyses of plant cell suspension cultures with fragile, isolated nuclei to investigate heterogeneity in growth of batch cultivations. Biotechnology and Bioengineering, 2016, 113, 1244-1250.	1.7	3
85	Monitoring of Plant Cells and Tissues in Bioprocesses. Reference Series in Phytochemistry, 2018, , 433-481.	0.2	3
86	Editorial: Bioprocessâ€oriented plant design – turning basic research into practical applications. Engineering in Life Sciences, 2011, 11, 333-334.	2.0	2
87	Surface plasmon resonance based detection of human serum albumin as a marker for hepatocytes activity. , 2014, , .		2
88	Kinetic Analyses of Data from a Human Serum Albumin Assay Using the liSPR System. Biosensors, 2015, 5, 27-36.	2.3	2
89	Zone line formation on artificial media and in hardwoods by basidiomycetes for production of spalted wood. Holzforschung, 2017, 71, 833-841.	0.9	2
90	Biospeckleâ€characterization of hairy root cultures using laser speckle photometry. Engineering in Life Sciences, 2020, 20, 287-295.	2.0	2

#	Article	IF	CITATIONS
91	Immobilization of xylanases on metallic hollow spheres for biochemical catalysis. Catalysis Today, 2021, 367, 189-198.	2.2	2
92	FLOW CYTOMETRIC MONITORING OF BACTERIAL CELL STATES UNDER GROWTH LIMITING CONDITIONS. , 1995, , 213-216.		2
93	Monitoring the apical growth characteristics of hairy roots using nonâ€invasive laser speckle contrast imaging. Engineering in Life Sciences, 2022, 22, 288-298.	2.0	2
94	Flow Cytometric Monitoring of Bacterial Cell States Under Growth Limiting Conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 213-216.	0.4	1
95	In situ hybridization of microcolonies using catalyzed reporter deposition with tetramethylbenzidine: a method for detecting low numbers of bacterial cells in drinking water. European Food Research and Technology, 2008, 227, 995-999.	1.6	1
96	A new generation of bioproduction systems. Engineering in Life Sciences, 2013, 13, 1-2.	2.0	1
97	Robust multi-parametric sensor system for the online detection of microbial biofilms in industrial applications — Preliminary examinations. , 2014, , .		1
98	Ramified Challenges: Monitoring and Modeling of Hairy Root Growth in Bioprocesses—A Review. Advances in Biochemical Engineering/Biotechnology, 2015, 149, 253-273.	0.6	1
99	A Modular Flow Cell System for Studying Biomimetic and BioinspiredAnti-Adhesive and Antimicrobial Surfaces. Heat Transfer Engineering, 2017, 38, 805-817.	1.2	1
100	Monitoring of Plant Cells and Tissues in Bioprocesses. Reference Series in Phytochemistry, 2016, , 1-49.	0.2	0