

Jochen Buchs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

182
papers

5,551
citations

41
h-index

67
g-index

190
ext. papers

6,366
ext. citations

5
avg, IF

5.92
L-index

#	Paper	IF	Citations
182	Recovery of biobased 2,3-butanediol from fermentation broths by liquid-phase adsorption onto phenylboronate polymers. <i>Current Research in Green and Sustainable Chemistry</i> , 2022 , 5, 100297	4.1	0
181	Optimized prodigiosin production with <i>Pseudomonas putida</i> KT2440 using parallelized non-invasive online monitoring.. <i>Biotechnology Progress</i> , 2022 , e3245	2.8	1
180	Non-invasive and time-resolved measurement of the respiration activity of Chinese hamster ovary cells enables prediction of key culture parameters in shake flasks.. <i>Biotechnology Journal</i> , 2022 , e210067 ⁵⁶	5.6	0
179	Impact of different trace elements on metabolic routes during heterotrophic growth of <i>C. ljungdahliae</i> investigated through online measurement of the carbon dioxide transfer rate.. <i>Biotechnology Progress</i> , 2022 , e3263	2.8	1
178	A plea for the integration of Green Toxicology in sustainable bioeconomy strategies - Biosurfactants and microgel-based pesticide release systems as examples. <i>Journal of Hazardous Materials</i> , 2021 , 127800	12.8	0
177	Online monitoring of gas transfer rates during CO and CO/H gas fermentation in quasi-continuously ventilated shake flasks. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2092-2104	4.9	3
176	Perspectives for the application of Ustilaginaceae as biotech cell factories. <i>Essays in Biochemistry</i> , 2021 , 65, 365-379	7.6	3
175	An illuminated respiratory activity monitoring system identifies priming-active compounds in plant seedlings. <i>BMC Plant Biology</i> , 2021 , 21, 324	5.3	1
174	Electrochemical pH-T-Swing Separation of Itaconic Acid for Zero Salt Waste Downstream Processing. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9336-9347	8.3	3
173	Online monitoring applying the anaerobic respiratory monitoring system reveals iron(II) limitation in YTF medium for. <i>Engineering in Life Sciences</i> , 2021 , 21, 19-28	3.4	2
172	Online measurement of dissolved carbon monoxide concentrations reveals critical operating conditions in gas fermentation experiments. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 253-264	4.9	4
171	Screening for optimal protease producing <i>Bacillus licheniformis</i> strains with polymer-based controlled-release fed-batch microtiter plates. <i>Microbial Cell Factories</i> , 2021 , 20, 51	6.4	
170	Time-Resolved Monitoring of the Oxygen Transfer Rate of Chinese Hamster Ovary Cells Provides Insights Into Culture Behavior in Shake Flasks. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 725498	5.8	3
169	Gas Fermentation Expands the Scope of a Process Network for Material Conversion. <i>Chemie-Ingenieur-Technik</i> , 2020 , 92, 1665-1679	0.8	5
168	Detailed small-scale characterization and scale-up of active YFP inclusion body production with <i>Escherichia coli</i> induced by a tetrameric coiled coil domain. <i>Journal of Bioscience and Bioengineering</i> , 2020 , 129, 730-740	3.3	10
167	Novel plasmid-free <i>Gluconobacter oxydans</i> strains for production of the natural sweetener 5-ketofructose. <i>Microbial Cell Factories</i> , 2020 , 19, 54	6.4	5
166	Molecular weight and viscosifying power of alginates produced by mutant strains of under microaerophilic conditions. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 26, e00436	5.3	5

165	Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 7313-7329	5.7	26
164	Optimization of the Ames RAMOS test allows for a reproducible high-throughput mutagenicity test. <i>Science of the Total Environment</i> , 2020 , 717, 137168	10.2	6
163	Noninvasive tool for optical online monitoring of individual biomass concentrations in a defined coculture. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 999-1011	4.9	3
162	Alternative type of Ames test allows for dynamic mutagenicity detection by online monitoring of respiration activity. <i>Science of the Total Environment</i> , 2020 , 726, 137862	10.2	3
161	Systems Analysis of NADH Dehydrogenase Mutants Reveals Flexibility and Limits of <i>Pseudomonas taiwanensis</i> VLB1203 Metabolism. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	2
160	Revealing nutritional requirements of MICP-relevant <i>Sporosarcina pasteurii</i> DSM33 for growth improvement in chemically defined and complex media. <i>Scientific Reports</i> , 2020 , 10, 22448	4.9	3
159	Online measurement of CO ₂ and total gas production in parallel anaerobic shake flask cultivations. <i>Biochemical Engineering Journal</i> , 2020 , 153, 107418	4.2	6
158	Establishing a Fed-Batch Process for Protease Expression with <i>Bacillus licheniformis</i> in Polymer-Based Controlled-Release Microtiter Plates. <i>Biotechnology Journal</i> , 2020 , 15, e1900088	5.6	5
157	Complementing the intrinsic repertoire of <i>Ustilago maydis</i> for degradation of the pectin backbone polygalacturonic acid. <i>Journal of Biotechnology</i> , 2020 , 307, 148-163	3.7	13
156	Online monitoring of the respiratory quotient reveals metabolic phases during microaerobic 2,3-butanediol production with. <i>Engineering in Life Sciences</i> , 2020 , 20, 133-144	3.4	10
155	Investigation of <i>Silphium perfoliatum</i> as Feedstock for a Liquid Hot Water-Based Biorefinery Process Towards 2,3-Butanediol. <i>Bioenergy Research</i> , 2020 , 14, 799	3.1	2
154	Integration of Genetic and Process Engineering for Optimized Rhamnolipid Production Using. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 976	5.8	23
153	Optimized polymer-based glucose release in microtiter plates for small-scale fed-batch cultivations. <i>Journal of Biological Engineering</i> , 2020 , 14, 24	6.3	0
152	Consolidated bioprocessing of cellulose to itaconic acid by a co-culture of <i>Trichoderma reesei</i> and <i>Ustilago maydis</i> . <i>Biotechnology for Biofuels</i> , 2020 , 13, 207	7.8	15
151	Scale-up of a Type I secretion system in <i>E. coli</i> using a defined mineral medium. <i>Biotechnology Progress</i> , 2020 , 36, e2911	2.8	2
150	Combined dissolved oxygen tension and online viscosity measurements in shake flask cultivations via infrared fluorescent oxygen-sensitive nanoparticles. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 3215-3227	4.9	1
149	Introducing substrate limitations to overcome catabolite repression in a protease producing <i>Bacillus licheniformis</i> strain using membrane-based fed-batch shake flasks. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 1326-1340	4.9	9
148	Validation of the transferability of membrane-based fed-batch shake flask cultivations to stirred-tank reactor using three different protease producing <i>Bacillus</i> strains. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 128, 599-605	3.3	3

147	Glucose-containing polymer rings enable fed-batch operation in microtiter plates with parallel online measurement of scattered light, fluorescence, dissolved oxygen tension, and pH. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2250-2262	4.9	5
146	Contact-free determination of viscosity in multiple parallel samples. <i>Scientific Reports</i> , 2019 , 9, 8335	4.9	6
145	Shake flask methodology for assessing the influence of the maximum oxygen transfer capacity on 2,3-butanediol production. <i>Microbial Cell Factories</i> , 2019 , 18, 78	6.4	9
144	Comparison of Isomerase and Weimberg Pathway for EPGA Production From Xylose by Engineered. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 476	5.8	12
143	Reassessing the out-of-phase phenomenon in shake flasks by evaluating the angle-dependent liquid distribution relative to the direction of the centrifugal acceleration. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2983-2995	4.9	2
142	Precultures Grown under Fed-Batch Conditions Increase the Reliability and Reproducibility of High-Throughput Screening Results. <i>Biotechnology Journal</i> , 2019 , 14, e1800727	5.6	6
141	Effect of the oxygen transfer rate on oxygen-limited production of plasmid DNA by Escherichia coli. <i>Biochemical Engineering Journal</i> , 2019 , 150, 107303	4.2	6
140	The liquid fraction from hydrothermal pretreatment of wheat straw provides lytic polysaccharide monoxygenases with both electrons and HO co-substrate. <i>Biotechnology for Biofuels</i> , 2019 , 12, 235	7.8	12
139	Salt-enhanced cultivation as a morphology engineering tool for filamentous actinomycetes: Increased production of labyrinthopeptin A1 in. <i>Engineering in Life Sciences</i> , 2019 , 19, 781-794	3.4	5
138	Integrated in-situ product removal process concept for itaconic acid by reactive extraction, pH-shift back extraction and purification by pH-shift crystallization. <i>Separation and Purification Technology</i> , 2019 , 215, 463-472	8.3	20
137	Production of the potential sweetener 5-ketofructose from fructose in fed-batch cultivation with <i>Gluconobacter oxydans</i> . <i>Bioresource Technology</i> , 2018 , 259, 164-172	11	14
136	Online measurement of the respiratory activity in shake flasks enables the identification of cultivation phases and patterns indicating recombinant protein production in various <i>Escherichia coli</i> host strains. <i>Biotechnology Progress</i> , 2018 , 34, 315-327	2.8	7
135	In situ reactive extraction of itaconic acid during fermentation of <i>Aspergillus terreus</i> . <i>Biochemical Engineering Journal</i> , 2018 , 135, 133-141	4.2	29
134	Parallel online determination of ethylene release rate by Shaken Parsley cell cultures using a modified RAMOS device. <i>BMC Plant Biology</i> , 2018 , 18, 101	5.3	6
133	A Synthetic Reaction Cascade Implemented by Colocalization of Two Proteins within Catalytically Active Inclusion Bodies. <i>ACS Synthetic Biology</i> , 2018 , 7, 2282-2295	5.7	28
132	Tackling destructive proteolysis of unconventionally secreted heterologous proteins in <i>Ustilago maydis</i> . <i>Journal of Biotechnology</i> , 2018 , 284, 37-51	3.7	12
131	Elucidation of auxotrophic deficiencies of <i>Bacillus pumilus</i> DSM 18097 to develop a defined minimal medium. <i>Microbial Cell Factories</i> , 2018 , 17, 106	6.4	5
130	<i>Kluyveromyces marxianus</i> , an Attractive Yeast for Ethanol Fermentation in the Presence of Imidazolium Ionic Liquids. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	17

129	Fast automated online xylanase activity assay using HPAEC-PAD. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 57-69	4.4	12
128	Online evaluation of the metabolic activity of on (poly)galacturonic acid. <i>Journal of Biological Engineering</i> , 2018 , 12, 34	6.3	8
127	The metabolic switch can be activated in a recombinant strain of <i>Streptomyces lividans</i> by a low oxygen transfer rate in shake flasks. <i>Microbial Cell Factories</i> , 2018 , 17, 189	6.4	8
126	Prediction of recombinant protein production by <i>Escherichia coli</i> derived online from indicators of metabolic burden. <i>Biotechnology Progress</i> , 2018 , 34, 1543-1552	2.8	13
125	From beech wood to itaconic acid: case study on biorefinery process integration. <i>Biotechnology for Biofuels</i> , 2018 , 11, 279	7.8	38
124	Online in vivo monitoring of cytosolic NAD redox dynamics in <i>Ustilago maydis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 1015-1024	4.6	10
123	Electrocatalytic upgrading of itaconic acid to methylsuccinic acid using fermentation broth as a substrate solution. <i>Green Chemistry</i> , 2017 , 19, 2390-2397	10	28
122	Process relevant screening of cellulolytic organisms for consolidated bioprocessing. <i>Biotechnology for Biofuels</i> , 2017 , 10, 106	7.8	14
121	Light-controlled gene expression in yeast using photocaged Cu. <i>Journal of Biotechnology</i> , 2017 , 258, 117-125	3.7	4
120	Cellulolytic RoboLector - towards an automated high-throughput screening platform for recombinant cellulase expression. <i>Journal of Biological Engineering</i> , 2017 , 11, 1	6.3	40
119	Optische Genregulation in Mikrobioreaktoren. <i>BioSpektrum</i> , 2017 , 23, 643-645	0.1	
118	Optimizing recombinant protein expression via automated induction profiling in microtiter plates at different temperatures. <i>Microbial Cell Factories</i> , 2017 , 16, 220	6.4	24
117	Prediction of expression performance in microtiter plates by analyzing only the temporal development of scattered light during culture. <i>Journal of Biological Engineering</i> , 2017 , 11, 20	6.3	11
116	Investigation of poly(γ -glutamic acid) production via online determination of viscosity and oxygen transfer rate in shake flasks. <i>Journal of Biological Engineering</i> , 2017 , 11, 23	6.3	8
115	Three-dimensional (3D) evaluation of liquid distribution in shake flask using an optical fluorescence technique. <i>Journal of Biological Engineering</i> , 2017 , 11, 28	6.3	4
114	Evaluation of microbial globin promoters for oxygen-limited processes using. <i>Journal of Biological Engineering</i> , 2017 , 11, 39	6.3	4
113	Promoters from the itaconate cluster of are induced by nitrogen depletion. <i>Fungal Biology and Biotechnology</i> , 2017 , 4, 11	7.5	16
112	Anionic Extraction for Efficient Recovery of Biobased 2,3-Butanediol-A Platform for Bulk and Fine Chemicals. <i>ChemSusChem</i> , 2017 , 10, 3252-3259	8.3	17

111	Novel technique for high throughput measurement of active monooxygenase concentration. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 929-933	4.9	2
110	Characterization of Endogenous and Reduced Promoters for Oxygen-Limited Processes Using <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2017 , 6, 344-356	5.7	15
109	Online measurement of viscosity for biological systems in stirred tank bioreactors. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 990-997	4.9	8
108	Metabolome analysis reveals the effect of carbon catabolite control on the poly(γ -glutamic acid) biosynthesis of <i>Bacillus licheniformis</i> ATCC 9945. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 121, 413-9	3.3	22
107	Permeability of currently available microtiter plate sealing tapes fail to fulfil the requirements for aerobic microbial cultivation. <i>Biotechnology Journal</i> , 2016 , 11, 1525-1538	5.6	10
106	Design and Operation of Microbioreactor Systems for Screening and Process Development 2016 , 35-76		6
105	Probing unnatural amino acid integration into enhanced green fluorescent protein by genetic code expansion with a high-throughput screening platform. <i>Journal of Biological Engineering</i> , 2016 , 10, 11	6.3	13
104	Efficient evaluation of cellulose digestibility by <i>Trichoderma reesei</i> Rut-C30 cultures in online monitored shake flasks. <i>Microbial Cell Factories</i> , 2016 , 15, 164	6.4	15
103	Quasi-continuous parallel online scattered light, fluorescence and dissolved oxygen tension measurement combined with monitoring of the oxygen transfer rate in each well of a shaken microtiter plate. <i>Microbial Cell Factories</i> , 2016 , 15, 206	6.4	8
102	Photocaged Arabinose: A Novel Optogenetic Switch for Rapid and Gradual Control of Microbial Gene Expression. <i>ChemBioChem</i> , 2016 , 17, 296-9	3.8	23
101	Online in situ viscosity determination in stirred tank reactors by measurement of the heat transfer capacity. <i>Chemical Engineering Science</i> , 2016 , 152, 116-126	4.4	6
100	Easy to use and reliable technique for online dissolved oxygen tension measurement in shake flasks using infrared fluorescent oxygen-sensitive nanoparticles. <i>Microbial Cell Factories</i> , 2016 , 15, 45	6.4	17
99	Correlation for the maximum oxygen transfer capacity in shake flasks for a wide range of operating conditions and for different culture media. <i>Biochemical Engineering Journal</i> , 2016 , 109, 228-235	4.2	43
98	Molecular weight and viscosifying power of alginates produced in <i>Azotobacter vinelandii</i> cultures in shake flasks under low power input. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1485-1492	3.5	15
97	Respiration activity monitoring system for any individual well of a 48-well microtiter plate. <i>Journal of Biological Engineering</i> , 2016 , 10, 14	6.3	20
96	Branched chain amino acids maintain the molecular weight of poly(γ -glutamic acid) of <i>Bacillus licheniformis</i> ATCC 9945 during the fermentation. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 400-5	3.3	9
95	Light-induced gene expression with photocaged IPTG for induction profiling in a high-throughput screening system. <i>Microbial Cell Factories</i> , 2016 , 15, 63	6.4	24
94	Optogenetic Regulation of Tunable Gene Expression in Yeast Using Photo-Labile Caged Methionine. <i>ACS Chemical Biology</i> , 2016 , 11, 2915-2922	4.9	10

93	Testing plasmid stability of Escherichia coli using the Continuously Operated Shaken BIOreactor System. <i>Biotechnology Progress</i> , 2016 , 32, 1418-1425	2.8	12
92	Parallel online multi-wavelength (2D) fluorescence spectroscopy in each well of a continuously shaken microtiter plate. <i>Biotechnology Journal</i> , 2016 , 11, 1605-1616	5.6	12
91	Computational minimization of the specific energy demand of large-scale aerobic fermentation processes based on small-scale data. <i>Chemical Engineering Science</i> , 2016 , 153, 270-283	4.4	11
90	Impact of two ionic liquids, 1-ethyl-3-methylimidazolium acetate and 1-ethyl-3-methylimidazolium methylphosphonate, on <i>Saccharomyces cerevisiae</i> : metabolic, physiologic, and morphological investigations. <i>Biotechnology for Biofuels</i> , 2015 , 8, 17	7.8	43
89	Influence of nitrogen source and pH value on undesired poly(γ -glutamic acid) formation of a protease producing <i>Bacillus licheniformis</i> strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015 , 42, 1203-15	4.2	18
88	Exchange of single amino acids at different positions of a recombinant protein affects metabolic burden in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 10	6.4	35
87	Online monitoring of dissolved oxygen tension in microtiter plates based on infrared fluorescent oxygen-sensitive nanoparticles. <i>Microbial Cell Factories</i> , 2015 , 14, 161	6.4	14
86	Newly designed and validated impedance spectroscopy setup in microtiter plates successfully monitors viable biomass online. <i>Biotechnology Journal</i> , 2015 , 10, 1259-68	5.6	7
85	Online monitoring of fermentation processes via non-invasive low-field NMR. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1810-21	4.9	42
84	Oxygen transfer rate identifies priming compounds in parsley cells. <i>BMC Plant Biology</i> , 2015 , 15, 282	5.3	12
83	A particular silent codon exchange in a recombinant gene greatly influences host cell metabolic activity. <i>Microbial Cell Factories</i> , 2015 , 14, 156	6.4	15
82	Microscale and miniscale fermentation and screening. <i>Current Opinion in Biotechnology</i> , 2015 , 35, 1-6	11.4	53
81	Fed-batch operation in special microtiter plates: a new method for screening under production conditions. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014 , 41, 513-25	4.2	26
80	Effective shear rates in shake flasks. <i>Chemical Engineering Science</i> , 2014 , 118, 102-113	4.4	20
79	Characterization of hydromechanical stress in aerated stirred tanks up to 40 m ³ scale by measurement of maximum stable drop size. <i>Journal of Biological Engineering</i> , 2014 , 8, 17	6.3	6
78	Cross-section perimeter is a suitable parameter to describe the effects of different baffle geometries in shaken microtiter plates. <i>Journal of Biological Engineering</i> , 2014 , 8, 18	6.3	17
77	Minireactor-based high-throughput temperature profiling for the optimization of microbial and enzymatic processes. <i>Journal of Biological Engineering</i> , 2014 , 8, 22	6.3	17
76	The role of volumetric power input in the growth, morphology, and production of a recombinant glycoprotein by <i>Streptomyces lividans</i> in shake flasks. <i>Biochemical Engineering Journal</i> , 2014 , 90, 224-233	4.2	7

75	Pitfalls in optical on-line monitoring for high-throughput screening of microbial systems. <i>Microbial Cell Factories</i> , 2014 , 13, 53	6.4	30
74	Improvement and scale-down of a <i>Trichoderma reesei</i> shake flask protocol to microtiter plates enables high-throughput screening. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 118, 702-9	3.3	14
73	Scale-down of vinegar production into microtiter plates using a custom-made lid. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 485-96	3.3	13
72	Phenotyping the quality of complex medium components by simple online-monitored shake flask experiments. <i>Microbial Cell Factories</i> , 2014 , 13, 149	6.4	24
71	Quasi-continuous fermentation in a reverse-flow diafiltration bioreactor. <i>Biochemical Engineering Journal</i> , 2014 , 91, 265-275	4.2	1
70	Time efficient way to calculate oxygen transfer areas and power input in cylindrical disposable shaken bioreactors. <i>Biotechnology Progress</i> , 2014 , 30, 1441-56	2.8	9
69	Liquid films on shake flask walls explain increasing maximum oxygen transfer capacities with elevating viscosity. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 295-308	4.9	24
68	Influence of Initial pH Values on the Lag Phase of <i>Escherichia coli</i> and <i>Bacillus licheniformis</i> Batch Cultures. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 863-871	0.8	2
67	Correlation between mass transfer coefficient k_La and relevant operating parameters in cylindrical disposable shaken bioreactors on a bench-to-pilot scale. <i>Journal of Biological Engineering</i> , 2013 , 7, 28	6.3	37
66	Evidence for a key role of cytochrome bo_3 oxidase in respiratory energy metabolism of <i>Gluconobacter oxydans</i> . <i>Journal of Bacteriology</i> , 2013 , 195, 4210-20	3.5	43
65	Itaconic acid--a biotechnological process in change. <i>Bioresource Technology</i> , 2013 , 135, 422-31	11	187
64	Metabolic studies of ϵ -polyglutamic acid production in <i>Bacillus licheniformis</i> by small-scale continuous cultivations. <i>Biochemical Engineering Journal</i> , 2013 , 73, 29-37	4.2	19
63	Continuous production and recovery of itaconic acid in a membrane bioreactor. <i>Bioresource Technology</i> , 2013 , 137, 179-87	11	41
62	Quantifying the release of polymer additives from single-use materials by respiration activity monitoring. <i>Polymer Testing</i> , 2013 , 32, 1064-1071	4.5	16
61	Comprehensive characterization of two different <i>Nicotiana tabacum</i> cell lines leads to doubled GFP and HA protein production by media optimization. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 242-8	3.3	27
60	Advances in shaking technologies. <i>Trends in Biotechnology</i> , 2012 , 30, 307-14	15.1	133
59	Dialysis shake flask for effective screening in fed-batch mode. <i>Biochemical Engineering Journal</i> , 2012 , 69, 182-195	4.2	28
58	Biocatalytic conversion of lignocellulose to platform chemicals. <i>Biotechnology Journal</i> , 2012 , 7, 1122-36	5.6	52

57	Biomass pretreatment affects <i>Ustilago maydis</i> in producing itaconic acid. <i>Microbial Cell Factories</i> , 2012 , 11, 43	6.4	87
56	Development of a modified Respiration Activity Monitoring System for accurate and highly resolved measurement of respiration activity in shake flask fermentations. <i>Journal of Biological Engineering</i> , 2012 , 6, 11	6.3	21
55	DETERMINING COMPLETE SUSPENSION OF IMMOBILIZED ENZYMES BY ANALYSIS OF DIGITAL CAMERA IMAGES. <i>Chemical Engineering Communications</i> , 2012 , 199, 720-736	2.2	2
54	Screening of cellulases for biofuel production: online monitoring of the enzymatic hydrolysis of insoluble cellulose using high-throughput scattered light detection. <i>Biotechnology Journal</i> , 2011 , 6, 74-85 ^{5.6}	5.6	20
53	Controlling pH in shake flasks using polymer-based controlled-release discs with pre-determined release kinetics. <i>BMC Biotechnology</i> , 2011 , 11, 25	3.5	46
52	Potential errors in conventional DOT measurement techniques in shake flasks and verification using a rotating flexitube optical sensor. <i>BMC Biotechnology</i> , 2011 , 11, 49	3.5	13
51	How recombinant swollenin from <i>Kluyveromyces lactis</i> affects cellulosic substrates and accelerates their hydrolysis. <i>Biotechnology for Biofuels</i> , 2011 , 4, 33	7.8	82
50	Novel dynamic model for aerated shaking bioreactors. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 128-137	2.8	7
49	Measurement and characterization of mixing time in shake flasks. <i>Chemical Engineering Science</i> , 2011 , 66, 440-447	4.4	46
48	Continuous Stereoselective Reduction Catalyzed by Thermophilic Alcohol Dehydrogenase in a Gas Phase Bioreactor. <i>Journal of Chemical Engineering of Japan</i> , 2011 , 44, 995-998	0.8	2
47	High-throughput screening of <i>Hansenula polymorpha</i> clones in the batch compared with the controlled-release fed-batch mode on a small scale. <i>FEMS Yeast Research</i> , 2010 , 10, 83-92	3.1	52
46	Flavin mononucleotide-based fluorescent reporter proteins outperform green fluorescent protein-like proteins as quantitative in vivo real-time reporters. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5990-4	4.8	85
45	Bioprocess control in microscale: scalable fermentations in disposable and user-friendly microfluidic systems. <i>Microbial Cell Factories</i> , 2010 , 9, 86	6.4	50
44	Increased product formation induced by a directed secondary substrate limitation in a batch <i>Hansenula polymorpha</i> culture. <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 93-101	5.7	21
43	An integrated catalytic approach to fermentable sugars from cellulose. <i>ChemSusChem</i> , 2010 , 3, 1151-3	8.3	40
42	Microfluidic biolector-microfluidic bioprocess control in microtiter plates. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 497-505	4.9	75
41	High cell-density processes in batch mode of a genetically engineered <i>Escherichia coli</i> strain with minimized overflow metabolism using a pressurized bioreactor. <i>Journal of Biotechnology</i> , 2010 , 150, 73-9	3.7	37
40	Replication methods and tools in high-throughput cultivation processes - recognizing potential variations of growth and product formation by on-line monitoring. <i>BMC Biotechnology</i> , 2010 , 10, 22	3.5	15

39	The baffled microtiter plate: increased oxygen transfer and improved online monitoring in small scale fermentations. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1118-28	4.9	105
38	Equalizing growth in high-throughput small scale cultivations via precultures operated in fed-batch mode. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1095-102	4.9	30
37	Asymmetric division of <i>Hansenula polymorpha</i> reflected by a drop of light scatter intensity measured in batch microtiter plate cultivations at phosphate limitation. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 554-61	4.9	22
36	Process development in <i>Hansenula polymorpha</i> and <i>Arxula adenivorans</i> , a re-assessment. <i>Microbial Cell Factories</i> , 2009 , 8, 22	6.4	48
35	Validation of a high-throughput fermentation system based on online monitoring of biomass and fluorescence in continuously shaken microtiter plates. <i>Microbial Cell Factories</i> , 2009 , 8, 31	6.4	161
34	Robo-Lector - a novel platform for automated high-throughput cultivations in microtiter plates with high information content. <i>Microbial Cell Factories</i> , 2009 , 8, 42	6.4	100
33	Scale-up from microtiter plate to laboratory fermenter: evaluation by online monitoring techniques of growth and protein expression in <i>Escherichia coli</i> and <i>Hansenula polymorpha</i> fermentations. <i>Microbial Cell Factories</i> , 2009 , 8, 68	6.4	71
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