

Peter Neubauer

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281
papers

6,505
citations

43
h-index

64
g-index

329
ext. papers

7,620
ext. citations

4.5
avg, IF

6.15
L-index

#	Paper	IF	Citations
281	Physiological responses to mixing in large scale bioreactors. <i>Journal of Biotechnology</i> , 2001 , 85, 175-85	3.7	336
280	Scale-down simulators for metabolic analysis of large-scale bioprocesses. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 114-21	11.4	131
279	A novel fed-batch based cultivation method provides high cell-density and improves yield of soluble recombinant proteins in shaken cultures. <i>Microbial Cell Factories</i> , 2010 , 9, 11	6.4	122
278	Enzyme controlled glucose auto-delivery for high cell density cultivations in microplates and shake flasks. <i>Microbial Cell Factories</i> , 2008 , 7, 31	6.4	121
277	Limiting factors in Escherichia coli fed-batch production of recombinant proteins. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 158-66	4.9	116
276	A novel monothiol glutaredoxin (Grx4) from Escherichia coli can serve as a substrate for thioredoxin reductase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 24544-52	5.4	113
275	Monitoring of genes that respond to overproduction of an insoluble recombinant protein in Escherichia coli glucose-limited fed-batch fermentations. <i>Biotechnology and Bioengineering</i> , 2000 , 70, 217-24	4.9	112
274	Influence of substrate oscillations on acetate formation and growth yield in Escherichia coli glucose limited fed-batch cultivations. <i>Biotechnology and Bioengineering</i> , 1995 , 47, 139-46	4.9	97
273	Metabolic load of recombinant protein production: inhibition of cellular capacities for glucose uptake and respiration after induction of a heterologous gene in Escherichia coli. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 53-64	4.9	94
272	Pseudomonas fluorescens biofilms subjected to phage phiIBB-PF7A. <i>BMC Biotechnology</i> , 2008 , 8, 79	3.5	85
271	High cell density cultivation and recombinant protein production with Escherichia coli in a rocking-motion-type bioreactor. <i>Microbial Cell Factories</i> , 2010 , 9, 42	6.4	84
270	Inclusion bodies: formation and utilisation. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2004 , 89, 93-142	1.7	83
269	Phage control of dual species biofilms of Pseudomonas fluorescens and Staphylococcus lentus. <i>Biofouling</i> , 2010 , 26, 567-75	3.3	81
268	Impact of plasmid presence and induction on cellular responses in fed batch cultures of Escherichia coli. <i>Journal of Biotechnology</i> , 1996 , 46, 255-63	3.7	80
267	Identification and characterization of RNA guanine-quadruplex binding proteins. <i>Nucleic Acids Research</i> , 2014 , 42, 6630-44	20.1	76
266	Consistent development of bioprocesses from microliter cultures to the industrial scale. <i>Engineering in Life Sciences</i> , 2013 , 13, 224-238	3.4	74
265	Isolation and characterization of a T7-like lytic phage for Pseudomonas fluorescens. <i>BMC Biotechnology</i> , 2008 , 8, 80	3.5	73

264	Electric chips for rapid detection and quantification of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 537-46	11.8	73
263	In pursuit of Sustainable Development Goal (SDG) number 7: Will biofuels be reliable?. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 927-937	16.2	70
262	Increased production of human proinsulin in the periplasmic space of Escherichia coli by fusion to DsbA. <i>Journal of Biotechnology</i> , 2001 , 84, 175-85	3.7	69
261	Influence of controlled glucose oscillations on a fed-batch process of recombinant Escherichia coli. <i>Journal of Biotechnology</i> , 2000 , 79, 27-37	3.7	67
260	Bioactive Secondary Metabolites from : A Comprehensive Review. <i>Journal of Natural Products</i> , 2019 , 82, 2038-2053	4.9	66
259	Novel approach of high cell density recombinant bioprocess development: optimisation and scale-up from microliter to pilot scales while maintaining the fed-batch cultivation mode of E. coli cultures. <i>Microbial Cell Factories</i> , 2010 , 9, 35	6.4	62
258	Norvaline is accumulated after a down-shift of oxygen in Escherichia coli W3110. <i>Microbial Cell Factories</i> , 2008 , 7, 30	6.4	62
257	Growth rate related concentration changes of the starvation response regulators sigmaS and ppGpp in glucose-limited fed-batch and continuous cultures of Escherichia coli. <i>Biotechnology Progress</i> , 1999 , 15, 123-9	2.8	62
256	Response of guanosine tetraphosphate to glucose fluctuations in fed-batch cultivations of Escherichia coli. <i>Journal of Biotechnology</i> , 1995 , 43, 195-204	3.7	62
255	Determination of the maximum specific uptake capacities for glucose and oxygen in glucose-limited fed-batch cultivations of Escherichia coli. <i>Biotechnology and Bioengineering</i> , 2001 , 73, 347-57	4.9	61
254	Online optimal experimental re-design in robotic parallel fed-batch cultivation facilities. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 610-619	4.9	60
253	Lanthipeptides: chemical synthesis versus in vivo biosynthesis as tools for pharmaceutical production. <i>Microbial Cell Factories</i> , 2016 , 15, 97	6.4	56
252	High cell density media for Escherichia coli are generally designed for aerobic cultivations - consequences for large-scale bioprocesses and shake flask cultures. <i>Microbial Cell Factories</i> , 2008 , 7, 26	6.4	54
251	Transient increase of ATP as a response to temperature up-shift in Escherichia coli. <i>Microbial Cell Factories</i> , 2005 , 4, 9	6.4	54
250	Response of Corynebacterium glutamicum exposed to oscillating cultivation conditions in a two- and a novel three-compartment scale-down bioreactor. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1220-31	4.9	50
249	A two-compartment bioreactor system made of commercial parts for bioprocess scale-down studies: impact of oscillations on Bacillus subtilis fed-batch cultivations. <i>Biotechnology Journal</i> , 2011 , 6, 1009-17	5.6	49
248	Process inhomogeneity leads to rapid side product turnover in cultivation of Corynebacterium glutamicum. <i>Microbial Cell Factories</i> , 2014 , 13, 6	6.4	48
247	Sandwich hybridisation assay for quantitative detection of yeast RNAs in crude cell lysates. <i>Microbial Cell Factories</i> , 2003 , 2, 4	6.4	48

246	Transcriptional response of <i>P. pastoris</i> in fed-batch cultivations to <i>Rhizopus oryzae</i> lipase production reveals UPR induction. <i>Microbial Cell Factories</i> , 2007 , 6, 21	6.4	47
245	The small heat-shock proteins IbpA and IbpB reduce the stress load of recombinant <i>Escherichia coli</i> and delay degradation of inclusion bodies. <i>Microbial Cell Factories</i> , 2005 , 4, 6	6.4	47
244	Environmental life cycle assessment of biogas production from marine macroalgal feedstock for the substitution of energy crops. <i>Journal of Cleaner Production</i> , 2017 , 140, 977-985	10.3	46
243	Octaketide-producing type III polyketide synthase from <i>Hypericum perforatum</i> is expressed in dark glands accumulating hypericins. <i>FEBS Journal</i> , 2008 , 275, 4329-42	5.7	46
242	Fungi as source for new bio-based materials: a patent review. <i>Fungal Biology and Biotechnology</i> , 2019 , 6, 17	7.5	45
241	Reconstituted biosynthesis of the nonribosomal macrolactone antibiotic valinomycin in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2014 , 3, 432-8	5.7	44
240	High-yield production of biologically active recombinant protein in shake flask culture by combination of enzyme-based glucose delivery and increased oxygen transfer. <i>Microbial Cell Factories</i> , 2011 , 10, 107	6.4	43
239	Quality control of inclusion bodies in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2010 , 9, 41	6.4	42
238	Efficient lactic acid production from high salt containing dairy by-products by <i>Lactobacillus salivarius</i> ssp. <i>salicinius</i> with pre-treatment by proteolytic microorganisms. <i>Journal of Biotechnology</i> , 2005 , 117, 421-31	3.7	42
237	Amplification of ColE1 related plasmids in recombinant cultures of <i>Escherichia coli</i> after IPTG induction. <i>Journal of Biotechnology</i> , 1998 , 64, 197-210	3.7	42
236	Stringent control of replication of plasmids derived from coliphage lambda. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 94-8		40
235	Recombinant purine nucleoside phosphorylases from thermophiles: preparation, properties and activity towards purine and pyrimidine nucleosides. <i>FEBS Journal</i> , 2013 , 280, 1475-90	5.7	39
234	Physiology of resistant <i>Deinococcus geothermalis</i> bacterium aerobically cultivated in low-manganese medium. <i>Journal of Bacteriology</i> , 2012 , 194, 1552-61	3.5	39
233	Pharmacological and pharmacokinetic properties of lanthipeptides undergoing clinical studies. <i>Biotechnology Letters</i> , 2017 , 39, 473-482	3	38
232	<i>Escherichia coli</i> as a cell factory for heterologous production of nonribosomal peptides and polyketides. <i>New Biotechnology</i> , 2014 , 31, 579-85	6.4	38
231	Effect of culture medium, host strain and oxygen transfer on recombinant Fab antibody fragment yield and leakage to medium in shaken <i>E. coli</i> cultures. <i>Microbial Cell Factories</i> , 2013 , 12, 73	6.4	38
230	Cheese whey-induced high-cell-density production of recombinant proteins in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2003 , 2, 2	6.4	38
229	A role for bacteriophage T4 rI gene function in the control of phage development during pseudolysogeny and in slowly growing host cells. <i>Research in Microbiology</i> , 2003 , 154, 547-52	4	38

228	Regulation of bacteriophage lambda development by guanosine 5'-diphosphate-3'-diphosphate. <i>Virology</i> , 1999 , 262, 431-41	3.6	38
227	Synthesis of 2,6-Dihalogenated Purine Nucleosides by Thermostable Nucleoside Phosphorylases. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1237-1244	5.6	37
226	Effective inhibition of lytic development of bacteriophages lambda, P1 and T4 by starvation of their host, Escherichia coli. <i>BMC Biotechnology</i> , 2007 , 7, 13	3.5	37
225	A new wireless system for decentralised measurement of physiological parameters from shake flasks. <i>Microbial Cell Factories</i> , 2006 , 5, 8	6.4	37
224	The fed-batch principle for the molecular biology lab: controlled nutrient diets in ready-made media improve production of recombinant proteins in Escherichia coli. <i>Microbial Cell Factories</i> , 2016 , 15, 110	6.4	37
223	Modelling overflow metabolism in Escherichia coli by acetate cycling. <i>Biochemical Engineering Journal</i> , 2017 , 125, 23-30	4.2	36
222	Role of the general stress response during strong overexpression of a heterologous gene in Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , 2002 , 58, 330-7	5.7	36
221	Assessment of robustness against dissolved oxygen/substrate oscillations for C. glutamicum DM1933 in two-compartment bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 1151-62	3.7	35
220	Enhancing the production of cinnamyl glycosides in compact callus aggregate cultures of Rhodiola rosea by biotransformation of cinnamyl alcohol. <i>Plant Science</i> , 2004 , 166, 229-236	5.3	35
219	Discharging tRNAs: a tug of war between translation and detoxification in Escherichia coli. <i>Nucleic Acids Research</i> , 2016 , 44, 8324-34	20.1	35
218	Glucose-limited high cell density cultivations from small to pilot plant scale using an enzyme-controlled glucose delivery system. <i>New Biotechnology</i> , 2012 , 29, 235-42	6.4	34
217	Functional role of the conserved active site proline of triosephosphate isomerase. <i>Biochemistry</i> , 2006 , 45, 15483-94	3.2	34
216	Bare laser-synthesized Au-based nanoparticles as nondisturbing surface-enhanced Raman scattering probes for bacteria identification. <i>Journal of Biophotonics</i> , 2018 , 11, e201700225	3.1	32
215	Application of Continuous Culture Methods to Recombinant Protein Production in Microorganisms. <i>Microorganisms</i> , 2018 , 6,	4.9	32
214	Enhanced production of the nonribosomal peptide antibiotic valinomycin in Escherichia coli through small-scale high cell density fed-batch cultivation. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 591-601	5.7	32
213	The general stress sigma factor sigma ^S of Escherichia coli is induced during diauxic shift from glucose to lactose. <i>Journal of Bacteriology</i> , 1998 , 180, 6203-6	3.5	32
212	Comparative investigations on thermostable pyrimidine nucleoside phosphorylases from Geobacillus thermoglucosidasius and Thermus thermophilus. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 84, 27-34		31
211	High-level production of human collagen prolyl 4-hydroxylase in Escherichia coli. <i>Matrix Biology</i> , 2005 , 24, 59-68	11.4	31

210	Bacteriophage contamination: is there a simple method to reduce its deleterious effects in laboratory cultures and biotechnological factories?. <i>Journal of Applied Genetics</i> , 2004 , 45, 111-20	2.5	31
209	Fed-batch process for the psychrotolerant marine bacterium <i>Pseudoalteromonas haloplanktis</i> . <i>Microbial Cell Factories</i> , 2010 , 9, 72	6.4	30
208	Optimized analysis of intracellular adenosine and guanosine phosphates in <i>Escherichia coli</i> . <i>Analytical Biochemistry</i> , 1999 , 271, 43-52	3.1	30
207	Role of Microbial Hydrolysis in Anaerobic Digestion. <i>Energies</i> , 2020 , 13, 5555	3.1	29
206	Life cycle assessment of flexibly fed biogas processes for an improved demand-oriented biogas supply. <i>Bioresource Technology</i> , 2016 , 219, 536-544	11	29
205	Characterization of adhesion threads of <i>Deinococcus geothermalis</i> as type IV pili. <i>Journal of Bacteriology</i> , 2006 , 188, 7016-21	3.5	28
204	Scale-up bioprocess development for production of the antibiotic valinomycin in <i>Escherichia coli</i> based on consistent fed-batch cultivations. <i>Microbial Cell Factories</i> , 2015 , 14, 83	6.4	27
203	Fermentation process for tetrameric human collagen prolyl 4-hydroxylase in <i>Escherichia coli</i> : improvement by gene optimisation of the PDI/beta subunit and repeated addition of the inducer anhydrotetracycline. <i>Journal of Biotechnology</i> , 2007 , 128, 308-21	3.7	27
202	A model-based framework for parallel scale-down fed-batch cultivations in mini-bioreactors for accelerated phenotyping. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2906-2918	4.9	26
201	Use of slow glucose feeding as supporting carbon source in lactose autoinduction medium improves the robustness of protein expression at different aeration conditions. <i>Protein Expression and Purification</i> , 2013 , 91, 147-54	2	26
200	Sensitive genus-specific detection of <i>Legionella</i> by a 16S rRNA based sandwich hybridization assay. <i>Journal of Microbiological Methods</i> , 2005 , 62, 167-79	2.8	26
199	Amplification of pBR322 plasmid DNA in <i>Escherichia coli</i> <i>relA</i> strains during batch and fed-batch fermentation. <i>Journal of Basic Microbiology</i> , 1990 , 30, 37-41	2.7	26
198	Tools for the determination of population heterogeneity caused by inhomogeneous cultivation conditions. <i>Journal of Biotechnology</i> , 2017 , 251, 84-93	3.7	25
197	Immobilization of thermostable nucleoside phosphorylases on MagReSyn [®] epoxide microspheres and their application for the synthesis of 2,6-dihalogenated purine nucleosides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 115, 119-127		25
196	Robotic platform for parallelized cultivation and monitoring of microbial growth parameters in microwell plates. <i>Journal of the Association for Laboratory Automation</i> , 2014 , 19, 593-601		25
195	Enhanced growth and recombinant protein production of <i>Escherichia coli</i> by a perfluorinated oxygen carrier in miniaturized fed-batch cultures. <i>Microbial Cell Factories</i> , 2011 , 10, 50	6.4	25
194	Sandwich hybridization assay for sensitive detection of dynamic changes in mRNA transcript levels in crude <i>Escherichia coli</i> cell extracts in response to copper ions. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 7463-70	4.8	25
193	Biological cardio-micro-pumps for microbioreactors and analytical micro-systems. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 517-526	8.5	24

192	Polyamine metabolism during exponential growth transition in Scots pine embryogenic cell culture. <i>Tree Physiology</i> , 2012 , 32, 1274-87	4.2	24
191	An expression vector system providing plasmid stability and conditional suicide of plasmid-containing cells. <i>Applied Microbiology and Biotechnology</i> , 1992 , 38, 91-3	5.7	24
190	Cultivation of Cells and Microorganisms in Wave-Mixed Disposable Bag Bioreactors at Different Scales. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 57-66	0.8	23
189	Volatile compounds produced by fungi grown in strawberry jam. <i>LWT - Food Science and Technology</i> , 2008 , 41, 2051-2056	5.4	23
188	Improved production of human type II procollagen in the yeast <i>Pichia pastoris</i> in shake flasks by a wireless-controlled fed-batch system. <i>BMC Biotechnology</i> , 2008 , 8, 33	3.5	23
187	LC/MS/MS identification of glycosides produced by biotransformation of cinnamyl alcohol in <i>Rhodiola rosea</i> compact callus aggregates. <i>Biomedical Chromatography</i> , 2004 , 18, 550-8	1.7	22
186	Rocking <i>Aspergillus</i> : morphology-controlled cultivation of <i>Aspergillus niger</i> in a wave-mixed bioreactor for the production of secondary metabolites. <i>Microbial Cell Factories</i> , 2018 , 17, 128	6.4	21
185	Online bioprocess data generation, analysis, and optimization for parallel fed-batch fermentations in milliliter scale. <i>Engineering in Life Sciences</i> , 2017 , 17, 1195-1201	3.4	21
184	Characterization of the response of GFP microbial biosensors sensitive to substrate limitation in scale-down bioreactors. <i>Biochemical Engineering Journal</i> , 2011 , 55, 131-139	4.2	21
183	RNA-based sandwich hybridisation method for detection of lactic acid bacteria in brewery samples. <i>Journal of Microbiological Methods</i> , 2007 , 68, 543-53	2.8	21
182	16S rRNA targeted sandwich hybridization method for direct quantification of mycobacteria in soils. <i>Journal of Microbiological Methods</i> , 2006 , 67, 44-55	2.8	21
181	How scalable and suitable are single-use bioreactors?. <i>Current Opinion in Biotechnology</i> , 2018 , 53, 240-247	11.4	20
180	Design of experiments-based high-throughput strategy for development and optimization of efficient cell disruption protocols. <i>Engineering in Life Sciences</i> , 2017 , 17, 1166-1172	3.4	20
179	Isolation and genotype-dependent, organ-specific expression analysis of a <i>Rhodiola rosea</i> cDNA encoding tyrosine decarboxylase. <i>Journal of Plant Physiology</i> , 2009 , 166, 1581-6	3.6	20
178	Change of extracellular cAMP concentration is a sensitive reporter for bacterial fitness in high-cell-density cultures of <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2004 , 87, 602-13	4.9	20
177	Expression of <i>Escherichia coli</i> glutaredoxin 2 is mainly regulated by ppGpp and sigmaS. <i>Journal of Biological Chemistry</i> , 2002 , 277, 17775-80	5.4	20
176	An observational study of ballooning in large spiders: Nanoscale multifibers enable large spiders' soaring flight. <i>PLoS Biology</i> , 2018 , 16, e2004405	9.7	19
175	Enhanced plasmid production in miniaturized high-cell-density cultures of <i>Escherichia coli</i> supported with perfluorinated oxygen carrier. <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 1079-86	3.7	19

174	Direct and indirect use of GFP whole cell biosensors for the assessment of bioprocess performances: design of milliliter scale-down bioreactors. <i>Biotechnology Progress</i> , 2013 , 29, 48-59	2.8	19
173	Heterologous Biosynthesis, Modifications and Structural Characterization of Ruminococcin-A, a Lanthipeptide From the Gut Bacterium E1, in. <i>Frontiers in Microbiology</i> , 2018 , 9, 1688	5.7	19
172	Integrated Robotic Mini Bioreactor Platform for Automated, Parallel Microbial Cultivation With Online Data Handling and Process Control. <i>SLAS Technology</i> , 2019 , 24, 569-582	3	18
171	Bioinspired Designs, Molecular Premise and Tools for Evaluating the Ecological Importance of Antimicrobial Peptides. <i>Pharmaceuticals</i> , 2018 , 11,	5.2	18
170	Output uncertainty of dynamic growth models: Effect of uncertain parameter estimates on model reliability. <i>Biochemical Engineering Journal</i> , 2019 , 150, 107247	4.2	17
169	A Big World in Small Grain: A Review of Natural Milk Kefir Starters. <i>Microorganisms</i> , 2020 , 8,	4.9	17
168	Growth and docosahexaenoic acid production performance of the heterotrophic marine microalgae <i>Cryptothecodinium cohnii</i> in the wave-mixed single-use reactor CELL-tainer. <i>Engineering in Life Sciences</i> , 2014 , 14, 254-263	3.4	17
167	Anaerobic Digestion Model (AM2) for the Description of Biogas Processes at Dynamic Feedstock Loading Rates. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 686-695	0.8	17
166	Heterologous production of active ribonuclease inhibitor in <i>Escherichia coli</i> by redox state control and chaperonin coexpression. <i>Microbial Cell Factories</i> , 2011 , 10, 65	6.4	17
165	Proliferation of mycobacteria in a piggery environment revealed by mycobacterium-specific real-time quantitative PCR and 16S rRNA sandwich hybridization. <i>Veterinary Microbiology</i> , 2007 , 120, 105-12	3.3	17
164	Introduction of the tac-promoter by lactose under fermentation conditions. <i>Acta Biotechnologica</i> , 1991 , 11, 23-29		17
163	Bioprocess Development in Single-Use Systems for Heterotrophic Marine Microalgae. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 153-161	0.8	16
162	Reducing conditions are the key for efficient production of active ribonuclease inhibitor in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2011 , 10, 31	6.4	16
161	Enhanced Biotransformation Capacity of <i>Rhodiola rosea</i> Callus Cultures for Glycosid Production. <i>Plant Cell, Tissue and Organ Culture</i> , 2005 , 83, 129-135	2.7	16
160	Substrate spectra of nucleoside phosphorylases and their potential in the production of pharmaceutically active compounds. <i>Current Pharmaceutical Design</i> , 2017 ,	3.3	16
159	Accumulation of amino acids deriving from pyruvate in <i>Escherichia coli</i> W3110 during fed-batch cultivation in a two-compartment scale-down bioreactor. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2011 , 02, 336-339	0.9	16
158	Type II thioesterase improves heterologous biosynthesis of valinomycin in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2015 , 193, 16-22	3.7	15
157	<i>Streptomyces clavuligerus</i> shows a strong association between TCA cycle intermediate accumulation and clavulanic acid biosynthesis. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 4009-4023	5.7	15

156	Chemo-enzymatic synthesis of D-pentofuranose-1-phosphates using thermostable pyrimidine nucleoside phosphorylases. <i>Molecular Catalysis</i> , 2018 , 458, 52-59	3.3	15
155	Modelling concentration gradients in fed-batch cultivations of <i>E. coli</i> towards the flexible design of scale-down experiments. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 516-526	3.5	15
154	A UV/Vis Spectroscopy-Based Assay for Monitoring of Transformations Between Nucleosides and Nucleobases. <i>Methods and Protocols</i> , 2019 , 2,	2.5	15
153	Single-use bioreactors for microbial cultivation. <i>Pharmaceutical Bioprocessing</i> , 2013 , 1, 167-177		15
152	Adaptive optimal operation of a parallel robotic liquid handling station. <i>IFAC-PapersOnLine</i> , 2018 , 51, 765-770	0.7	15
151	Reproduction of Large-Scale Bioreactor Conditions on Microfluidic Chips. <i>Microorganisms</i> , 2019 , 7,	4.9	14
150	Lactose autoinduction with enzymatic glucose release: characterization of the cultivation system in bioreactor. <i>Protein Expression and Purification</i> , 2014 , 94, 67-72	2	14
149	Mini-scale cultivation method enables expeditious plasmid production in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2014 , 9, 128-36	5.6	14
148	Small-scale slow glucose feed cultivation of <i>Pichia pastoris</i> without repression of AOX1 promoter: towards high throughput cultivations. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 1261-9	3.7	14
147	Antisense RNA based down-regulation of RNaseE in <i>E. coli</i> . <i>Microbial Cell Factories</i> , 2006 , 5, 38	6.4	14
146	General Principles for Yield Optimization of Nucleoside Phosphorylase-Catalyzed Transglycosylations. <i>ChemBioChem</i> , 2020 , 21, 1428-1432	3.8	14
145	Performance loss of <i>Corynebacterium glutamicum</i> cultivations under scale-down conditions using complex media. <i>Engineering in Life Sciences</i> , 2016 , 16, 620-632	3.4	14
144	CFD predicted pH gradients in lactic acid bacteria cultivations. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 769-780	4.9	14
143	Scale-Up and Scale-Down Methodologies for Bioreactors 2016 , 323-354		13
142	Mixed integer optimal control of an intermittently aerated sequencing batch reactor for wastewater treatment. <i>Computers and Chemical Engineering</i> , 2014 , 71, 298-306	4	13
141	Detection of growth rate-dependent product formation in miniaturized parallel fed-batch cultivations. <i>Engineering in Life Sciences</i> , 2017 , 17, 1215-1220	3.4	13
140	Two-dimensional proteome reference map for the radiation-resistant bacterium <i>Deinococcus geothermalis</i> . <i>Proteomics</i> , 2010 , 10, 555-63	4.8	13
139	Recovery of the PHA Copolymer P(HB--HHx) With Non-halogenated Solvents: Influences on Molecular Weight and HHx-Content. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 944	5.8	13

138	Accelerated Bioprocess Development of Endopolygalacturonase-Production with Using Multivariate Prediction in a 48 Mini-Bioreactor Automated Platform. <i>Bioengineering</i> , 2018 , 5,	5.3	13
137	Single-cell-based monitoring of fatty acid accumulation in <i>Cryptocodium cohnii</i> with three-dimensional holographic and in situ microscopy. <i>Process Biochemistry</i> , 2017 , 52, 223-232	4.8	12
136	Single-chain antibody fragment production in <i>Pichia pastoris</i> : Benefits of prolonged pre-induction glycerol feeding. <i>Biotechnology Journal</i> , 2011 , 6, 452-62	5.6	12
135	Thermodynamic Reaction Control of Nucleoside Phosphorolysis. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 867-876	5.6	12
134	Characterization of the Metabolic Response of to Shear Stress in Stirred Tanks and Single-Use 2D Rocking Motion Bioreactors for Clavulanic Acid Production. <i>Antibiotics</i> , 2019 , 8,	4.9	11
133	Separation, Characterization, and Handling of Microalgae by Dielectrophoresis. <i>Microorganisms</i> , 2020 , 8,	4.9	11
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