

Peter Neubauer

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.

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	Near-infrared spectroscopy for the inline classification and characterization of fruit juices for a product-customized flash pasteurization.. <i>Food Science and Nutrition</i> , 2022 , 10, 800-812	3.2	0
280	Molecular genetic approaches to decrease the uncontrolled misincorporation of non-canonical branched chain amino acids into recombinant mini-proinsulin expressed in Escherichia coli.. <i>Microbial Cell Factories</i> , 2022 , 21, 30	6.4	
279	Volatilomics-Based Microbiome Evaluation of Fermented Dairy by Prototypic Headspace-Gas Chromatography-High-Temperature Ion Mobility Spectrometry (HS-GC-HTIMS) and Non-Negative Matrix Factorization (NNMF).. <i>Metabolites</i> , 2022 , 12,	5.6	1
278	Traditional Grain-Based vs. Commercial Milk Kefirs, How Different Are They?. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3838	2.6	
277	Characterization of reactions and growth in automated continuous flow and bioreactor platformsFrom linear DoE to model-based approaches 2022 , 273-319		
276	High-Yield Production of Catalytically Active Regulatory [NiFe]-Hydrogenase From in .. <i>Frontiers in Microbiology</i> , 2022 , 13, 894375	5.7	0
275	Lichen cell factories: methods for the isolation of photobiont and mycobiont partners for defined pure and co-cultivation.. <i>Microbial Cell Factories</i> , 2022 , 21, 80	6.4	1
274	Functionalization of Oxide-Free Silicon Surfaces for Biosensing Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100927	4.6	2
273	Production of soluble regulatory hydrogenase from Ralstonia eutropha in Escherichia coli using a fed-batch-based autoinduction system. <i>Microbial Cell Factories</i> , 2021 , 20, 201	6.4	1
272	Potential of Integrating Model-Based Design of Experiments Approaches and Process Analytical Technologies for Bioprocess Scale-Down. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2021 , 177, 1-28	1.7	1
271	Low-quality animal by-product streams for the production of PHA-biopolymers: fats, fat/protein-emulsions and materials with high ash content as low-cost feedstocks. <i>Biotechnology Letters</i> , 2021 , 43, 579-587	3	2
270	Substrate-Flexible Two-Stage Fed-Batch Cultivations for the Production of the PHA Copolymer P(HB--HHx) With Re2058/pCB113. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 623890	5.8	1
269	Optimized Biocatalytic Synthesis of 2-Selenopyrimidine Nucleosides by Transglycosylation*. <i>ChemBioChem</i> , 2021 , 22, 2002-2009	3.8	3
268	The Nonribosomal Peptide Valinomycin: From Discovery to Bioactivity and Biosynthesis. <i>Microorganisms</i> , 2021 , 9,	4.9	6
267	Glucose-Limited Fed-Batch Cultivation Strategy to Mimic Large-Scale Effects in Linked to Accumulation of Non-Canonical Branched-Chain Amino Acids by Combination of Pyruvate Pulses and Dissolved Oxygen Limitation. <i>Microorganisms</i> , 2021 , 9,	4.9	1
266	pH-Independent Heat Capacity Changes during Phosphorolysis Catalyzed by the Pyrimidine Nucleoside Phosphorylase from. <i>Biochemistry</i> , 2021 , 60, 1573-1577	3.2	1
265	Optimization of Culture Conditions for Oxygen-Tolerant Regulatory [NiFe]-Hydrogenase Production from H16 in. <i>Microorganisms</i> , 2021 , 9,	4.9	3

264	High-cell-density fed-batch cultivations of <i>Vibrio natriegens</i> . <i>Biotechnology Letters</i> , 2021 , 43, 1723-1733	3	2
263	Untargeted metabolomics analysis of <i>Ralstonia eutropha</i> during plant oil cultivations reveals the presence of a fucose salvage pathway. <i>Scientific Reports</i> , 2021 , 11, 14267	4.9	0
262	Route efficiency assessment and review of the synthesis of nucleosides via N-glycosylation of nucleobases. <i>Green Chemistry</i> , 2021 , 23, 37-50	10	9
261	Kinetic Analysis of the Hydrolysis of Pentose-1-phosphates through Apparent Nucleoside Phosphorolysis Equilibrium Shifts*. <i>ChemPhysChem</i> , 2021 , 22, 283-287	3.2	4
260	The Peculiar Case of the Hyper-thermostable Pyrimidine Nucleoside Phosphorylase from <i>Thermus thermophilus</i> *. <i>ChemBioChem</i> , 2021 , 22, 1385-1390	3.8	5
259	Thermostable adenosine 5'-monophosphate phosphorylase from <i>Thermococcus kodakarensis</i> forms catalytically active inclusion bodies. <i>Scientific Reports</i> , 2021 , 11, 16880	4.9	3
258	Diversification of 4?-Methylated Nucleosides by Nucleoside Phosphorylases. <i>ACS Catalysis</i> , 2021 , 11, 10830-10835	13.1	2
257	Phase Separation in Anaerobic Digestion: A Potential for Easier Process Combination?. <i>Frontiers in Chemical Engineering</i> , 2021 , 3,	1	2
256	Role of Microbial Hydrolysis in Anaerobic Digestion. <i>Energies</i> , 2020 , 13, 5555	3.1	29
255	An Approach to Ring Resonator Biosensing Assisted by Dielectrophoresis: Design, Simulation and Fabrication. <i>Micromachines</i> , 2020 , 11,	3.3	3
254	Adaptive Monitoring of Biotechnological Processes Kinetics. <i>Processes</i> , 2020 , 8, 1307	2.9	2
253	Monitoring Parallel Robotic Cultivations with Online Multivariate Analysis. <i>Processes</i> , 2020 , 8, 582	2.9	5
252	Single-Use Printed Biosensor for L-Lactate and Its Application in Bioprocess Monitoring. <i>Processes</i> , 2020 , 8, 321	2.9	5
251	Spectral Unmixing-Based Reaction Monitoring of Transformations between Nucleosides and Nucleobases. <i>ChemBioChem</i> , 2020 , 21, 2604-2610	3.8	8
250	Quantification of Major Bacteria and Yeast Species in Kefir Consortia by Multiplex TaqMan qPCR. <i>Frontiers in Microbiology</i> , 2020 , 11, 1291	5.7	7
249	Model based optimization of transfection near infrared spectroscopy as a process analytical tool in a continuous flash pasteurizer. <i>Journal of Food Science</i> , 2020 , 85, 2020-2031	3.4	3
248	Efficient Biocatalytic Synthesis of Dihalogenated Purine Nucleoside Analogues Applying Thermodynamic Calculations. <i>Molecules</i> , 2020 , 25,	4.8	10
247	Model reduction of aerobic bioprocess models for efficient simulation. <i>Chemical Engineering Science</i> , 2020 , 217, 115512	4.4	4

246	A Big World in Small Grain: A Review of Natural Milk Kefir Starters. <i>Microorganisms</i> , 2020 , 8,	4.9	17
245	Separation, Characterization, and Handling of Microalgae by Dielectrophoresis. <i>Microorganisms</i> , 2020 , 8,	4.9	11
244	Thermophilic nucleoside phosphorylases: Their properties, characteristics and applications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140304	4	6
243	General Principles for Yield Optimization of Nucleoside Phosphorylase-Catalyzed Transglycosylations. <i>ChemBioChem</i> , 2020 , 21, 1428-1432	3.8	14
242	Thermodynamic Reaction Control of Nucleoside Phosphorolysis. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 867-876	5.6	12
241	From Screening to Production: a Holistic Approach of High-throughput Model-based Screening for Recombinant Protein Production. <i>Computer Aided Chemical Engineering</i> , 2020 , 1723-1728	0.6	0
240	Approach for modelling the extract formation in a continuous conducted α -amylase rest as part of the production of beer mash with targeted sugar content. <i>Biochemical Engineering Journal</i> , 2020 , 164, 107765	4.2	1
239	Automated Conditional Screening of Multiple Strains in Parallel Adaptive Fed-Batch Cultivations. <i>Bioengineering</i> , 2020 , 7,	5.3	5
238	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
237	An Engineered Escherichia coli Strain with Synthetic Metabolism for in-Cell Production of Translationally Active Methionine Derivatives. <i>ChemBioChem</i> , 2020 , 21, 3525-3538	3.8	7
236	Modular Enzymatic Cascade Synthesis of Nucleotides Using a (d)ATP Regeneration System. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 854	5.8	4
235	Heterologous Hydrogenase Overproduction Systems for Biotechnology-An Overview. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
234	Docosahexaenoic acid production from various feedstock for the application as fish feed additive. <i>Chemie-Ingenieur-Technik</i> , 2020 , 92, 1174-1174	0.8	
233	A Genome-Scale Insight into the Effect of Shear Stress During the Fed-Batch Production of Clavulanic Acid by. <i>Microorganisms</i> , 2020 , 8,	4.9	2
232	Monitoring the Physiological State in the Dark Fermentation of Maize/Grass Silage Using Flow Cytometry and Electrooptic Polarizability Measurements. <i>Bioenergy Research</i> , 2020 , 14, 910	3.1	1
231	Monitoring of Polyhydroxyalkanoate (PHA) Production during High-Cell-Density Plant Oil Cultivations Using Photon Density Wave Spectroscopy. <i>Bioengineering</i> , 2019 , 6,	5.3	10
230	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
229	Bioprocess Development for Lantibiotic Ruminococcin-A Production in and Kinetic Insights Into LanM Enzymes Catalysis. <i>Frontiers in Microbiology</i> , 2019 , 10, 2133	5.7	1

228	Utilisation of solid digestate from acidification reactors of continues two-stage anaerobic digestion processes in Lentinula edodes cultivation. <i>Bioresource Technology Reports</i> , 2019 , 8, 100322	4.1	3
227	Degradation Kinetics of Clavulanic Acid in Fermentation Broths at Low Temperatures. <i>Antibiotics</i> , 2019 , 8,	4.9	9
226	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
225	Monte Carlo Simulations for the Analysis of Non-linear Parameter Confidence Intervals in Optimal Experimental Design. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 122	5.8	10
224	Construction and characterization of broad-host-range reporter plasmid suitable for on-line analysis of bacterial host responses related to recombinant protein production. <i>Microbial Cell Factories</i> , 2019 , 18, 80	6.4	4
223	Reproduction of Large-Scale Bioreactor Conditions on Microfluidic Chips. <i>Microorganisms</i> , 2019 , 7,	4.9	14
222	Antibacterial and anticancer activities of orphan biosynthetic gene clusters from Atlantis II Red Sea brine pool. <i>Microbial Cell Factories</i> , 2019 , 18, 56	6.4	8
221	Carboxylic acid consumption and production by <i>Corynebacterium glutamicum</i> . <i>Biotechnology Progress</i> , 2019 , 35, e2804	2.8	2
220	Data of clavulanic acid and clavulanate-imidazole stability at low temperatures. <i>Data in Brief</i> , 2019 , 23, 103775	1.2	3
219	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
218	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
217	A UV/Vis Spectroscopy-Based Assay for Monitoring of Transformations Between Nucleosides and Nucleobases. <i>Methods and Protocols</i> , 2019 , 2,	2.5	15
216	Dynamic Modelling of Phosphorolytic Cleavage Catalyzed by Pyrimidine-Nucleoside Phosphorylase. <i>Processes</i> , 2019 , 7, 380	2.9	5
215	Bioactive Secondary Metabolites from : A Comprehensive Review. <i>Journal of Natural Products</i> , 2019 , 82, 2038-2053	4.9	66
214	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
213	Fungi as source for new bio-based materials: a patent review. <i>Fungal Biology and Biotechnology</i> , 2019 , 6, 17	7.5	45
212	Human Deoxycytidine Kinase Is a Valuable Biocatalyst for the Synthesis of Nucleotide Analogues. <i>Catalysts</i> , 2019 , 9, 997	4	2
211	In Situ Microscopy for Real-time Determination of Single-cell Morphology in Bioprocesses. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	2

210	Biocatalytic synthesis of seleno-, thio- and chloro-nucleobase modified nucleosides by thermostable nucleoside phosphorylases. <i>Catalysis Communications</i> , 2019 , 121, 32-37	3.2	10
209	CFD predicted pH gradients in lactic acid bacteria cultivations. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 769-780	4.9	14
208	Optical inline analysis and monitoring of particle size and shape distributions for multiple applications: Scientific and industrial relevance. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 257-277	3.7	11
207	Process analytical technologies to monitor the liquid phase of anaerobic cultures. <i>Process Biochemistry</i> , 2019 , 76, 1-10	4.8	4
206	<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
205	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
204	Optimization of the chemolithoautotrophic biofilm growth of <i>Cupriavidus necator</i> by means of electrochemical hydrogen synthesis. <i>Chemical Papers</i> , 2018 , 72, 1205-1211	1.9	4
203	Characterization of a noninvasive on-line turbidity sensor in shake flasks for biomass measurements. <i>Biochemical Engineering Journal</i> , 2018 , 132, 20-28	4.2	5
202	Stammcharakterisierung mittels on-line-Redesign von Experimenten. <i>BioSpektrum</i> , 2018 , 24, 39-42	0.1	4
201	Development of an iridium-based pH sensor for bioanalytical applications. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 51-60	2.6	8
200	Sterol synthesis and cell size distribution under oscillatory growth conditions in <i>Saccharomyces cerevisiae</i> scale-down cultivations. <i>Yeast</i> , 2018 , 35, 213-223	3.4	9
199	Real-time monitoring of the budding index in <i>Saccharomyces cerevisiae</i> batch cultivations with in situ microscopy. <i>Microbial Cell Factories</i> , 2018 , 17, 73	6.4	10
198	Spiders/Ballooning Flight as a Model for the Exploration of Hazardous Atmospheric Weather Conditions. <i>Lecture Notes in Computer Science</i> , 2018 , 110-114	0.9	
197	Application of Continuous Culture Methods to Recombinant Protein Production in Microorganisms. <i>Microorganisms</i> , 2018 , 6,	4.9	32
196	Automated Cell Treatment for Competence and Transformation of in a High-Throughput Quasi-Turbidostat Using Microtiter Plates. <i>Microorganisms</i> , 2018 , 6,	4.9	8
195	How scalable and suitable are single-use bioreactors?. <i>Current Opinion in Biotechnology</i> , 2018 , 53, 240-247	7.4	20
194	Chemo-enzymatic synthesis of β -D-pentofuranose-1-phosphates using thermostable pyrimidine nucleoside phosphorylases. <i>Molecular Catalysis</i> , 2018 , 458, 52-59	3.3	15
193	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

192	Synthesis of non-canonical branched-chain amino acids in Escherichia coli and approaches to avoid their incorporation into recombinant proteins. <i>Current Opinion in Biotechnology</i> , 2018 , 53, 248-253	11.4	9
191	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
190	Comparison of time-gated surface-enhanced raman spectroscopy (TG-SERS) and classical SERS based monitoring of Escherichia coli cultivation samples. <i>Biotechnology Progress</i> , 2018 , 34, 1533-1542	2.8	5
189	Adaptive optimal operation of a parallel robotic liquid handling station. <i>IFAC-PapersOnLine</i> , 2018 , 51, 765-770	0.7	15
188	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
187	Electrooptical Determination of Polarizability for On-Line Viability and Vitality Quantification of Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 188	5.8	3
186	Improving control in microbial cell factories: from single-cell to large-scale bioproduction. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	6
185	Enzymatic Synthesis of Nucleoside Analogues by Nucleoside Phosphorylases 2018 , 1-28		7
184	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
183	Bioinspired Designs, Molecular Premise and Tools for Evaluating the Ecological Importance of Antimicrobial Peptides. <i>Pharmaceuticals</i> , 2018 , 11,	5.2	18
182	Importance of the cultivation history for the response of Escherichia coli to oscillations in scale-down experiments. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 1305-1313	3.7	10
181	Pharmacological and pharmacokinetic properties of lanthipeptides undergoing clinical studies. <i>Biotechnology Letters</i> , 2017 , 39, 473-482	3	38
180	Tools for the determination of population heterogeneity caused by inhomogeneous cultivation conditions. <i>Journal of Biotechnology</i> , 2017 , 251, 84-93	3.7	25
179	Modelling overflow metabolism in Escherichia coli by acetate cycling. <i>Biochemical Engineering Journal</i> , 2017 , 125, 23-30	4.2	36
178	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
177	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
176	Continuous Bioprocess Development: Methods for Control and Characterization of the Biological System 2017 , 1-30		1
175	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

174	Online optimal experimental re-design in robotic parallel fed-batch cultivation facilities. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 610-619	4.9	60
173	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
172	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
171	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
170	Fast-track development of a lactase production process with by a progressive parameter-control workflow. <i>Engineering in Life Sciences</i> , 2017 , 17, 1185-1194	3.4	8
169	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
168	Dynamic Optimization of the PyNP/PNP Phosphorolytic Enzymatic Process Using MOSAIC modeling. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 1523-1533	0.8	2
167	Spatial monitoring of the liquid phase with multiparameter sensors in industrial-scale fermenters. <i>TM Technisches Messen</i> , 2017 , 84, 620-627	0.7	1
166	Micro-Electromechanical Affinity Sensor for the Monitoring of Glucose in Bioprocess Media. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	7
165	Substrate spectra of nucleoside phosphorylases and their potential in the production of pharmaceutically active compounds. <i>Current Pharmaceutical Design</i> , 2017 ,	3.3	16
164	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
163	Scale-Up and Scale-Down Methodologies for Bioreactors 2016 , 323-354		13
162	Photo-Optical In Situ Analysis of the Individual Cell Size Distribution as Process Analytical Tool in Bioprocesses. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1314-1314	0.8	
161	Model-Based Process Optimization Supports the Synthesis of Pharmaceutically Relevant Nucleoside Derivatives. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1245-1245	0.8	
160	Lanthipeptides: chemical synthesis versus in vivo biosynthesis as tools for pharmaceutical production. <i>Microbial Cell Factories</i> , 2016 , 15, 97	6.4	56
159	Crystal structures of two monomeric triosephosphate isomerase variants identified via a directed-evolution protocol selecting for L-arabinose isomerase activity. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016 , 72, 490-9	1.1	
158	Inversion of the stereochemical configuration (3S, 5S)-clavaminic acid into (3R, 5R)-clavulanic acid: A computationally-assisted approach based on experimental evidence. <i>Journal of Theoretical Biology</i> , 2016 , 395, 40-50	2.3	9
157	An improved HPLC-DAD method for clavulanic acid quantification in fermentation broths of <i>Streptomyces clavuligerus</i> . <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 120, 241-7	3.5	9

156	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
155	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
154	Neue Applikationsfelder für Single-use-Bioreaktoren. <i>BioSpektrum</i> , 2016 , 22, 96-99	0.1	1
153	Robuste industrielle Bioprozesse: vom Labor- zum Industriemaßstab und zurück. <i>BioSpektrum</i> , 2016 , 22, 204-207	0.1	
152	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
151	Multiposition Sensor Technology and Lance-Based Sampling for Improved Monitoring of the Liquid Phase in Biogas Processes. <i>Energy & Fuels</i> , 2015 , 29, 4038-4045	4.1	6
150	Structure-based directed evolution of a monomeric triosephosphate isomerase: toward a pentose sugar isomerase. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 187-97	1.9	5
149	Synthesis of 2,6-Dihalogenated Purine Nucleosides by Thermostable Nucleoside Phosphorylases. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1237-1244	5.6	37
148	Response of <i>Corynebacterium glutamicum</i> 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
147	Toward Microbioreactor Arrays: A Slow-Responding Oxygen Sensor for Monitoring of Microbial Cultures in Standard 96-Well Plates. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 438-46		9
146	Type II thioesterase improves heterologous biosynthesis of valinomycin in Escherichia coli. <i>Journal of Biotechnology</i> , 2015 , 193, 16-22	3.7	15
145	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
144	Scale-up bioprocess development for production of the antibiotic valinomycin in Escherichia coli based on consistent fed-batch cultivations. <i>Microbial Cell Factories</i> , 2015 , 14, 83	6.4	27
143	On the use of electrochemical multi-sensors in biologically charged media. <i>Journal of Sensors and Sensor Systems</i> , 2015 , 4, 295-303	1.6	7
142	Process inhomogeneity leads to rapid side product turnover in cultivation of <i>Corynebacterium glutamicum</i> . <i>Microbial Cell Factories</i> , 2014 , 13, 6	6.4	48
141	Escherichia coli as a cell factory for heterologous production of nonribosomal peptides and polyketides. <i>New Biotechnology</i> , 2014 , 31, 579-85	6.4	38
140	Biological performance of two different 1000 L single-use bioreactors applying a simple transfer approach. <i>Engineering in Life Sciences</i> , 2014 , 14, 283-291	3.4	9
139	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

138	Assessment of robustness against dissolved oxygen/substrate oscillations for <i>C. glutamicum</i> DM1933 in two-compartment bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 1151-62	3.7	35
137	An approach to mechanistic event recognition applied on monitoring organic matter depletion in SBRs. <i>AIChE Journal</i> , 2014 , 60, 3460-3472	3.6	5
136	Growth and docosahexaenoic acid production performance of the heterotrophic marine microalgae <i>Cryptocodinium cohnii</i> in the wave-mixed single-use reactor CELL-tainer. <i>Engineering in Life Sciences</i> , 2014 , 14, 254-263	3.4	17
135	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
134	Vom Fed-Batch-Screening bis zur chiralen Analytik. <i>BioSpektrum</i> , 2014 , 20, 460-463	0.1	2
133	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
132	Quantitative and sensitive RNA based detection of <i>Bacillus</i> spores. <i>Frontiers in Microbiology</i> , 2014 , 5, 92	5.7	2
131	Identification and characterization of RNA guanine-quadruplex binding proteins. <i>Nucleic Acids Research</i> , 2014 , 42, 6630-44	20.1	76
130	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
129	Harmonization and characterization of different single-use bioreactors adopting a new sparger design. <i>Engineering in Life Sciences</i> , 2014 , 14, 272-282	3.4	11
128	Mini-scale cultivation method enables expeditious plasmid production in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2014 , 9, 128-36	5.6	14
127	Enhanced production of the nonribosomal peptide antibiotic valinomycin in <i>Escherichia coli</i> through small-scale high cell density fed-batch cultivation. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 591-601	5.7	32
126	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
125	Cultivation of marine microorganisms in single-use systems. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014 , 138, 179-206	1.7	9
124	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
123	Enzyme-based glucose delivery: a possible tool for biosorbent preparation for heavy metal removal from polluted environments. <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 1601-11	3.7	2
122	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
121	Recombinant protein production: a comparative view on host physiology (Laupheim, Germany, March 2013). <i>New Biotechnology</i> , 2013 , 30, 405-9	6.4	2

120	Effect of culture medium, host strain and oxygen transfer on recombinant Fab antibody fragment yield and leakage to medium in shaken E. coli cultures. <i>Microbial Cell Factories</i> , 2013 , 12, 73	6.4	38
119	Bioprocess Development in Single-Use Systems for Heterotrophic Marine Microalgae. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 153-161	0.8	16
118	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
117	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
116	Single-use bioreactors for microbial cultivation. <i>Pharmaceutical Bioprocessing</i> , 2013 , 1, 167-177		15
115	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
114	Software sensor design considering oscillating conditions as present in industrial scale fed-batch cultivations. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1945-55	4.9	5
113	Consistent development of bioprocesses from microliter cultures to the industrial scale. <i>Engineering in Life Sciences</i> , 2013 , 13, 224-238	3.4	74
112	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
111	Comparative investigations on thermostable pyrimidine nucleoside phosphorylases from <i>Geobacillus thermoglucosidarius</i> and <i>Thermus thermophilus</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 84, 27-34		31
110	Faster bioprocess development from microscale to bioreactor by the consistent use of controlled feed strategies. <i>New Biotechnology</i> , 2012 , 29, S13	6.4	
109	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
108	Consistency of Scale-Up from Bioprocess Development to Production 2012 , 511-543		3
107	Strategies for Plasmid DNA Production in <i>Escherichia coli</i> 2012 , 1-41		
106	Investigation of Phenolic Acids in Suspension Cultures of <i>Vitis vinifera</i> Stimulated with Indanoyl-Isoleucine, N-Linolenoyl-L-Glutamine, Malonyl Coenzyme A and Insect Saliva. <i>Metabolites</i> , 2012 , 2, 165-77	5.6	4
105	Intelligente Wachstumsmedien mit kontrollierter Substratfreisetzung. <i>BioSpektrum</i> , 2012 , 18, 162-164	0.1	
104	Enzyme-based glucose delivery as a high content screening tool in yeast-based whole-cell biocatalysis. <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 931-7	5.7	5
103	Polyamine metabolism during exponential growth transition in Scots pine embryogenic cell culture. <i>Tree Physiology</i> , 2012 , 32, 1274-87	4.2	24

102	Potentiality of using microbial biosensors for the detection of substrate heterogeneities and the assessment of microbial viability in industrial bioreactors: a complete set of experiments in chemostat and scale down reactors, and elaboration of a mini scale-down platform. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2012 , 77, 3-7		
101	High-temperature cultivation and 5' mRNA optimization are key factors for the efficient overexpression of thermostable <i>Deinococcus geothermalis</i> purine nucleoside phosphorylase in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011 , 156, 268-74	3.7	8
100	Modification of buffered peptone water for improved recovery of heat-injured <i>Salmonella</i> Typhimurium. <i>Journal of Food Science</i> , 2011 , 76, M157-62	3.4	5
99	Complete genome sequence of the lytic <i>Pseudomonas fluorescens</i> phage ϕ IBB-PF7A. <i>Virology Journal</i> , 2011 , 8, 142	6.1	9
98	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
97	Parallel production and verification of protein products using a novel high-throughput screening method. <i>Biotechnology Journal</i> , 2011 , 6, 1018-25	5.6	7
96	Two-compartment method for determination of the oxygen transfer rate with electrochemical sensors based on sulfite oxidation. <i>Biotechnology Journal</i> , 2011 , 6, 1003-8	5.6	9
95	A two-compartment bioreactor system made of commercial parts for bioprocess scale-down studies: impact of oscillations on <i>Bacillus subtilis</i> fed-batch cultivations. <i>Biotechnology Journal</i> , 2011 , 6, 1009-17	5.6	49
94	The influence of <i>P. fluorescens</i> cell morphology on the lytic performance and production of phage ϕ IBB-PF7A. <i>Current Microbiology</i> , 2011 , 63, 347-53	2.4	1
93	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
92	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
91	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
90	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
89	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
88	Biological cardio-micro-pumps for microbioreactors and analytical micro-systems. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 517-526	8.5	24
87	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
86	High cell density cultivation and recombinant protein production with <i>Escherichia coli</i> in a rocking-motion-type bioreactor. <i>Microbial Cell Factories</i> , 2010 , 9, 42	6.4	84
85	Fed-batch process for the psychrotolerant marine bacterium <i>Pseudoalteromonas haloplanktis</i> . <i>Microbial Cell Factories</i> , 2010 , 9, 72	6.4	30

84	Phage control of dual species biofilms of <i>Pseudomonas fluorescens</i> and <i>Staphylococcus lentus</i> . <i>Biofouling</i> , 2010 , 26, 567-75	3.3	81
83	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 <i>E. coli</i> cultures. <i>Microbial Cell Factories</i> , 2010 , 9, 35	6.4	62
82	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
81	Quality control of inclusion bodies in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2010 , 9, 41	6.4	42
80	Comparison of Enrichment Media for Routine Detection of Beer Spoiling Lactic Acid Bacteria and Development of Trouble-shooting Medium for <i>Lactobacillus backi</i> . <i>Journal of the Institute of Brewing</i> , 2010 , 116, 151-156	2	5
79	Note Preliminary Applications of Response Surface Modelling to the Evaluation of Optimal Growth Conditions for Beer-spoiling <i>Pediococcus damnosus</i> . <i>Journal of the Institute of Brewing</i> , 2010 , 116, 211-214	2	2
78	Sandwich ELISA for quantitative detection of human collagen prolyl 4-hydroxylase. <i>Microbial Cell Factories</i> , 2010 , 9, 48	6.4	9
77	Scale-down simulators for metabolic analysis of large-scale bioprocesses. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 114-21	11.4	131
76	Crystallographic binding studies with an engineered monomeric variant of triosephosphate isomerase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 934-44		10
75	Two-dimensional proteome reference map for the radiation-resistant bacterium <i>Deinococcus geothermalis</i> . <i>Proteomics</i> , 2010 , 10, 555-63	4.8	13
74	A Novel Approach to Mechanism Recognition in <i>Escherichia Coli</i> Fed-Batch Fermentations. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 651-656	0.6	
73	EnBase—Novel high-cell-density-culture based screening platform. <i>Chemie-Ingenieur-Technik</i> , 2009 , 81, 1247-1248	0.8	1
72	Improved Enrichment Cultivation of Beer Spoiling Lactic Acid Bacteria by Continuous Glucose Addition to the Culture. <i>Journal of the Institute of Brewing</i> , 2009 , 115, 177-182	2	7
71	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
70	High cell density media for <i>Escherichia coli</i> 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
69	Norvaline is accumulated after a down-shift of oxygen in <i>Escherichia coli</i> W3110. <i>Microbial Cell Factories</i> , 2008 , 7, 30	6.4	62
68	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
67	Volatile compounds produced by fungi grown in strawberry jam. <i>LWT - Food Science and Technology</i> , 2008 , 41, 2051-2056	5.4	23

66	Structure-based protein engineering efforts with a monomeric TIM variant: the importance of a single point mutation for generating an active site with suitable binding properties. <i>Protein Engineering, Design and Selection</i> , 2008 , 21, 257-66	1.9	11
65	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
64	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
63	<i>Pseudomonas fluorescens</i> biofilms subjected to phage phiIBB-PF7A. <i>BMC Biotechnology</i> , 2008 , 8, 79	3.5	85
62	Isolation and characterization of a T7-like lytic phage for <i>Pseudomonas fluorescens</i> . <i>BMC Biotechnology</i> , 2008 , 8, 80	3.5	73
61	Structural studies show that the A178L mutation in the C-terminal hinge of the catalytic loop-6 of triosephosphate isomerase (TIM) induces a closed-like conformation in dimeric and monomeric TIM. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008 , 64, 178-88		9
60	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
59	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
58	Effective inhibition of lytic development of bacteriophages lambda, P1 and T4 by starvation of their host, <i>Escherichia coli</i> . <i>BMC Biotechnology</i> , 2007 , 7, 13	3.5	37
57	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
56	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
55	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
54	Biofilm control with T7 phages. <i>Journal of Biotechnology</i> , 2007 , 131, S252	3.7	2
53	Optimisation of substrate feeding in shake flask cultures of <i>Pichia pastoris</i> for recombinant protein production. <i>Microbial Cell Factories</i> , 2006 , 5, P32	6.4	
52	Antisense RNA based down-regulation of RNaseE in <i>E. coli</i> . <i>Microbial Cell Factories</i> , 2006 , 5, 38	6.4	14
51	A new wireless system for decentralised measurement of physiological parameters from shake flasks. <i>Microbial Cell Factories</i> , 2006 , 5, 8	6.4	37
50	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
49	Functional role of the conserved active site proline of triosephosphate isomerase. <i>Biochemistry</i> , 2006 , 45, 15483-94	3.2	34

48	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
47	Protein Inclusion Bodies in Recombinant Bacteria 2006 , 237-292		7
46	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
45	Modelling of translation of human protein disulfide isomerase in <i>Escherichia coli</i> -A case study of gene optimisation. <i>Journal of Biotechnology</i> , 2005 , 120, 11-24	3.7	11
44	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
43	High-level production of human collagen prolyl 4-hydroxylase in <i>Escherichia coli</i> . <i>Matrix Biology</i> , 2005 , 24, 59-68	11.4	31
42	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
41	Transient increase of ATP as a response to temperature up-shift in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2005 , 4, 9	6.4	54
40	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
39	A novel monothiol glutaredoxin (Grx4) from <i>Escherichia coli</i> can serve as a substrate for thioredoxin reductase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 24544-52	5.4	113
38	Murine Wnt-1 with an internal c-myc tag recombinantly produced in <i>Escherichia coli</i> can induce intracellular signaling of the canonical Wnt pathway in eukaryotic cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 47520-7	5.4	6
37	Inclusion bodies: formation and utilisation. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2004 , 89, 93-142	1.7	83
36	Electric chips for rapid detection and quantification of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 537-46	11.8	73
35	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
34	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
33	Enhancing the production of cinnamyl glycosides in compact callus aggregate cultures of <i>Rhodiola rosea</i> by biotransformation of cinnamyl alcohol. <i>Plant Science</i> , 2004 , 166, 229-236	5.3	35
32	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
31	Limiting factors in <i>Escherichia coli</i> fed-batch production of recombinant proteins. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 158-66	4.9	116

30	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
29	Cheese whey-induced high-cell-density production of recombinant proteins in Escherichia coli. <i>Microbial Cell Factories</i> , 2003 , 2, 2	6.4	38
28	Sandwich hybridisation assay for quantitative detection of yeast RNAs in crude cell lysates. <i>Microbial Cell Factories</i> , 2003 , 2, 4	6.4	48
27	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
26	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
25	Expression of Escherichia coli glutaredoxin 2 is mainly regulated by ppGpp and sigmaS. <i>Journal of Biological Chemistry</i> , 2002 , 277, 17775-80	5.4	20
24	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
23	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
22	Physiological responses to mixing in large scale bioreactors. <i>Journal of Biotechnology</i> , 2001 , 85, 175-85	3.7	336
21	Cellular Responses to Strong Overexpression of Recombinant Genes in Escherichia Coli 2001 , 55-73		4
20	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
19	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
18	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
17	Regulation of bacteriophage lambda development by guanosine 5'-diphosphate-3'-diphosphate. <i>Virology</i> , 1999 , 262, 431-41	3.6	38
16	Optimized analysis of intracellular adenosine and guanosine phosphates in Escherichia coli. <i>Analytical Biochemistry</i> , 1999 , 271, 43-52	3.1	30
15	Amplification of ColE1 related plasmids in recombinant cultures of Escherichia coli after IPTG induction. <i>Journal of Biotechnology</i> , 1998 , 64, 197-210	3.7	42
14	The General Stress Sigma Factor σ of Escherichia coli Is Induced during Diauxic Shift from Glucose to Lactose. <i>Journal of Bacteriology</i> , 1998 , 180, 6203-6206	3.5	2
13	The general stress sigma factor sigmaS of Escherichia coli is induced during diauxic shift from glucose to lactose. <i>Journal of Bacteriology</i> , 1998 , 180, 6203-6	3.5	32

12	Copurification of ribosomal protein S2 and DNA-dependent RNA polymerase from heat-shocked cells of <i>Bacillus subtilis</i> . <i>Journal of Basic Microbiology</i> , 1997 , 37, 1-9	2.7	3
11	Impact of plasmid presence and induction on cellular responses in fed batch cultures of <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 1996 , 46, 255-63	3.7	80
10	DNA degradation at elevated temperatures after plasmid amplification in amino acid-starved <i>Escherichia coli</i> cells. <i>Biotechnology Letters</i> , 1996 , 18, 321-326	3	9
9	Response of guanosine tetraphosphate to glucose fluctuations in fed-batch cultivations of <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 1995 , 43, 195-204	3.7	62
8	Influence of substrate oscillations on acetate formation and growth yield in <i>Escherichia coli</i> glucose limited fed-batch cultivations. <i>Biotechnology and Bioengineering</i> , 1995 , 47, 139-46	4.9	97
7	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
6	Introduction of the tac-promoter by lactose under fermentation conditions. <i>Acta Biotechnologica</i> , 1991 , 11, 23-29		17
5	Stringent control of replication of plasmids derived from coliphage lambda. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 94-8		40
4	Verfahren zur Produktion von ColE1-verwandten Plasmiden. <i>Acta Biotechnologica</i> , 1990 , 10, 303-305		2
3	Amplification of pBR322 plasmid DNA in <i>Escherichia coli</i> relA strains during batch and fed-batch fermentation. <i>Journal of Basic Microbiology</i> , 1990 , 30, 37-41	2.7	26
2	Perspectives for improving circular economy in brackish shrimp aquaculture. <i>Aquaculture Research</i> , 2017 , 48, 1-9	1.9	2
1	Suspension of a Point-Mass-Loaded Filament in Non-Uniform Flows: Passive Dynamics of a Ballooning Spider		2