

Peter Neubauer

List of Publications by Year in descending order

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289
papers

8,533
citations

47006

47
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79698

73
g-index

330
all docs

330
docs citations

330
times ranked

7648
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Perspectives for improving circular economy in brackish shrimp aquaculture. <i>Aquaculture Research</i> , 2022, 53, 1169-1180. | 1.8 | 10 |
| 2 | Near-Infrared spectroscopy for the inline classification and characterization of fruit juices for a product-specific customized flash pasteurization. <i>Food Science and Nutrition</i> , 2022, 10, 800-812. | 3.4 | 2 |
| 3 | Molecular genetic approaches to decrease the uncontrolled misincorporation of non-canonical branched chain amino acids into recombinant mini-proinsulin expressed in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2022, 21, 30. | 4.0 | 0 |
| 4 | 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, 299. | 2.9 | 3 |
| 5 | Automated Bioprocess Feedback Operation in a High-Throughput Facility via the Integration of a Mobile Robotic Lab Assistant. <i>Frontiers in Chemical Engineering</i> , 2022, 4, . | 2.7 | 3 |
| 6 | Traditional Grain-Based vs. Commercial Milk Kefirs, How Different Are They?. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3838. | 2.5 | 4 |
| 7 | Characterization of reactions and growth in automated continuous flow and bioreactor platforms-From linear DoE to model-based approaches. , 2022, , 273-319. | | 0 |
| 8 | High-Yield Production of Catalytically Active Regulatory [NiFe]-Hydrogenase From <i>Cupriavidus necator</i> in <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 894375. | 3.5 | 5 |
| 9 | 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. | 4.0 | 6 |
| 10 | Separation of Heterotrophic Microalgae <i>Cryptocodinium cohnii</i> by Dielectrophoresis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, . | 4.1 | 3 |
| 11 | Tuning of fed-batch cultivation of <i>Streptomyces clavuligerus</i> for enhanced Clavulanic Acid production based on genome-scale dynamic modeling. <i>Biochemical Engineering Journal</i> , 2022, 185, 108534. | 3.6 | 1 |
| 12 | Monitoring the Physiological State in the Dark Fermentation of Maize/Grass Silage Using Flow Cytometry and Electrooptic Polarizability Measurements. <i>Bioenergy Research</i> , 2021, 14, 910-923. | 3.9 | 2 |
| 13 | Route efficiency assessment and review of the synthesis of Î²-nucleosides via N-glycosylation of nucleobases. <i>Green Chemistry</i> , 2021, 23, 37-50. | 9.0 | 33 |
| 14 | Kinetic Analysis of the Hydrolysis of Pentose-1-phosphates through Apparent Nucleoside Phosphorolysis Equilibrium Shifts**. <i>ChemPhysChem</i> , 2021, 22, 283-287. | 2.1 | 7 |
| 15 | The Peculiar Case of the Hyperthermostable Pyrimidine Nucleoside Phosphorylase from <i>Thermus thermophilus</i> **. <i>ChemBioChem</i> , 2021, 22, 1385-1390. | 2.6 | 12 |
| 16 | Substrate-Flexible Two-Stage Fed-Batch Cultivations for the Production of the PHA Copolymer P(HB-co-HHx) With <i>Cupriavidus necator</i> Re2058/pCB113. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 623890. | 4.1 | 12 |
| 17 | Optimized Biocatalytic Synthesis of 2-Selenopyrimidine Nucleosides by Transglycosylation**. <i>ChemBioChem</i> , 2021, 22, 2002-2009. | 2.6 | 10 |
| 18 | The Nonribosomal Peptide Valinomycin: From Discovery to Bioactivity and Biosynthesis. <i>Microorganisms</i> , 2021, 9, 780. | 3.6 | 18 |

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|----|---|------|-----------|
| 19 | Glucose-Limited Fed-Batch Cultivation Strategy to Mimic Large-Scale Effects in <i>Escherichia coli</i> Linked to Accumulation of Non-Canonical Branched-Chain Amino Acids by Combination of Pyruvate Pulses and Dissolved Oxygen Limitation. <i>Microorganisms</i> , 2021, 9, 1110. | 3.6 | 2 |
| 20 | pH-Independent Heat Capacity Changes during Phosphorolysis Catalyzed by the Pyrimidine Nucleoside Phosphorylase from <i>Geobacillus thermoglucosidasius</i> . <i>Biochemistry</i> , 2021, 60, 1573-1577. | 2.5 | 5 |
| 21 | Optimization of Culture Conditions for Oxygen-Tolerant Regulatory [NiFe]-Hydrogenase Production from <i>Ralstonia eutropha</i> H16 in <i>Escherichia coli</i> . <i>Microorganisms</i> , 2021, 9, 1195. | 3.6 | 6 |
| 22 | High-cell-density fed-batch cultivations of <i>Vibrio natriegens</i> . <i>Biotechnology Letters</i> , 2021, 43, 1723-1733. | 2.2 | 5 |
| 23 | Editorial: Continuous Biomanufacturing in Microbial Systems. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 665940. | 4.1 | 1 |
| 24 | 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. | 3.3 | 7 |
| 25 | TCA Cycle and Its Relationship with Clavulanic Acid Production: A Further Interpretation by Using a Reduced Genome-Scale Metabolic Model of <i>Streptomyces clavuligerus</i> . <i>Bioengineering</i> , 2021, 8, 103. | 3.5 | 3 |
| 26 | Thermostable adenosine 5'-monophosphate phosphorylase from <i>Thermococcus kodakarensis</i> forms catalytically active inclusion bodies. <i>Scientific Reports</i> , 2021, 11, 16880. | 3.3 | 7 |
| 27 | Diversification of 4-Methylated Nucleosides by Nucleoside Phosphorylases. <i>ACS Catalysis</i> , 2021, 11, 10830-10835. | 11.2 | 11 |
| 28 | Phase Separation in Anaerobic Digestion: A Potential for Easier Process Combination?. <i>Frontiers in Chemical Engineering</i> , 2021, 3, . | 2.7 | 22 |
| 29 | 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. | 2.2 | 19 |
| 30 | Production of soluble regulatory hydrogenase from <i>Ralstonia eutropha</i> in <i>Escherichia coli</i> using a fed-batch-based autoinduction system. <i>Microbial Cell Factories</i> , 2021, 20, 201. | 4.0 | 4 |
| 31 | Semi-Automated High-Throughput Substrate Screening Assay for Nucleoside Kinases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11558. | 4.1 | 1 |
| 32 | Functionalization of Oxide-Free Silicon Surfaces for Biosensing Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100927. | 3.7 | 8 |
| 33 | Thermophilic nucleoside phosphorylases: Their properties, characteristics and applications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140304. | 2.3 | 15 |
| 34 | General Principles for Yield Optimization of Nucleoside Phosphorylase-Catalyzed Transglycosylations. <i>ChemBioChem</i> , 2020, 21, 1428-1432. | 2.6 | 24 |
| 35 | Thermodynamic Reaction Control of Nucleoside Phosphorolysis. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 867-876. | 4.3 | 22 |
| 36 | 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. | 0.5 | 3 |

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|----|---|-----|-----------|
| 37 | 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. | 3.6 | 2 |
| 38 | Automated Conditional Screening of Multiple <i>Escherichia coli</i> Strains in Parallel Adaptive Fed-Batch Cultivations. <i>Bioengineering</i> , 2020, 7, 145. | 3.5 | 13 |
| 39 | Recovery of the PHA Copolymer P(HB-co-HHx) With Non-halogenated Solvents: Influences on Molecular Weight and HHx-Content. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 944. | 4.1 | 27 |
| 40 | An Engineered <i>Escherichia coli</i> Strain with Synthetic Metabolism for in-Cell Production of Translationally Active Methionine Derivatives. <i>ChemBioChem</i> , 2020, 21, 3525-3538. | 2.6 | 16 |
| 41 | Modular Enzymatic Cascade Synthesis of Nucleotides Using a (d)ATP Regeneration System. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 854. | 4.1 | 17 |
| 42 | Heterologous Hydrogenase Overproduction Systems for Biotechnology – An Overview. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5890. | 4.1 | 13 |
| 43 | Docosahexaenoic acid production from various feedstock for the application as fish feed additive. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 1174-1174. | 0.8 | 0 |
| 44 | A Genome-Scale Insight into the Effect of Shear Stress During the Fed-Batch Production of Clavulanic Acid by <i>Streptomyces Clavuligerus</i> . <i>Microorganisms</i> , 2020, 8, 1255. | 3.6 | 8 |
| 45 | Role of Microbial Hydrolysis in Anaerobic Digestion. <i>Energies</i> , 2020, 13, 5555. | 3.1 | 83 |
| 46 | An Approach to Ring Resonator Biosensing Assisted by Dielectrophoresis: Design, Simulation and Fabrication. <i>Micromachines</i> , 2020, 11, 954. | 2.9 | 10 |
| 47 | Adaptive Monitoring of Biotechnological Processes Kinetics. <i>Processes</i> , 2020, 8, 1307. | 2.8 | 3 |
| 48 | Monitoring Parallel Robotic Cultivations with Online Multivariate Analysis. <i>Processes</i> , 2020, 8, 582. | 2.8 | 10 |
| 49 | Single-Use Printed Biosensor for L-Lactate and Its Application in Bioprocess Monitoring. <i>Processes</i> , 2020, 8, 321. | 2.8 | 8 |
| 50 | Spectral Unmixing-Based Reaction Monitoring of Transformations between Nucleosides and Nucleobases. <i>ChemBioChem</i> , 2020, 21, 2604-2610. | 2.6 | 14 |
| 51 | Quantification of Major Bacteria and Yeast Species in Kefir Consortia by Multiplex TaqMan qPCR. <i>Frontiers in Microbiology</i> , 2020, 11, 1291. | 3.5 | 13 |
| 52 | 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. | 3.1 | 3 |
| 53 | Efficient Biocatalytic Synthesis of Dihalogenated Purine Nucleoside Analogues Applying Thermodynamic Calculations. <i>Molecules</i> , 2020, 25, 934. | 3.8 | 17 |
| 54 | Model reduction of aerobic bioprocess models for efficient simulation. <i>Chemical Engineering Science</i> , 2020, 217, 115512. | 3.8 | 8 |

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|----|---|-----|-----------|
| 55 | A Big World in Small Grain: A Review of Natural Milk Kefir Starters. <i>Microorganisms</i> , 2020, 8, 192. | 3.6 | 41 |
| 56 | Separation, Characterization, and Handling of Microalgae by Dielectrophoresis. <i>Microorganisms</i> , 2020, 8, 540. | 3.6 | 24 |
| 57 | Potential of Integrating Model-Based Design of Experiments Approaches and Process Analytical Technologies for Bioprocess Scale-Down. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2020, 177, 1-28. | 1.1 | 5 |
| 58 | Modelling concentration gradients in fedâ€batch cultivations of <i>E. coli</i> towards the flexible design of scaleâ€down experiments. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 516-526. | 3.2 | 25 |
| 59 | A modelâ€based framework for parallel scaleâ€down fedâ€batch cultivations in miniâ€bioreactors for accelerated phenotyping. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2906-2918. | 3.3 | 41 |
| 60 | A UV/Vis Spectroscopy-Based Assay for Monitoring of Transformations Between Nucleosides and Nucleobases. <i>Methods and Protocols</i> , 2019, 2, 60. | 2.0 | 21 |
| 61 | Dynamic Modelling of Phosphorolytic Cleavage Catalyzed by Pyrimidine-Nucleoside Phosphorylase. <i>Processes</i> , 2019, 7, 380. | 2.8 | 12 |
| 62 | Bioactive Secondary Metabolites from <i>Bacillus subtilis</i> : A Comprehensive Review. <i>Journal of Natural Products</i> , 2019, 82, 2038-2053. | 3.0 | 161 |
| 63 | 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. | 1.9 | 35 |
| 64 | Fungi as source for new bio-based materials: a patent review. <i>Fungal Biology and Biotechnology</i> , 2019, 6, 17. | 5.1 | 102 |
| 65 | In-Line Monitoring of Polyhydroxyalkanoate (PHA) Production during High-Cell-Density Plant Oil Cultivations Using Photon Density Wave Spectroscopy. <i>Bioengineering</i> , 2019, 6, 85. | 3.5 | 27 |
| 66 | Characterization of the Metabolic Response of <i>Streptomyces clavuligerus</i> to Shear Stress in Stirred Tanks and Single-Use 2D Rocking Motion Bioreactors for Clavulanic Acid Production. <i>Antibiotics</i> , 2019, 8, 168. | 3.7 | 21 |
| 67 | Bioprocess Development for Lantibiotic Ruminococcin-A Production in <i>Escherichia coli</i> and Kinetic Insights Into LanM Enzymes Catalysis. <i>Frontiers in Microbiology</i> , 2019, 10, 2133. | 3.5 | 7 |
| 68 | Utilisation of solid digestate from acidification reactors of continues two-stage anaerobic digestion processes in <i>Lentinula edodes</i> cultivation. <i>Bioresource Technology Reports</i> , 2019, 8, 100322. | 2.7 | 5 |
| 69 | Degradation Kinetics of Clavulanic Acid in Fermentation Broths at Low Temperatures. <i>Antibiotics</i> , 2019, 8, 6. | 3.7 | 14 |
| 70 | Output uncertainty of dynamic growth models: Effect of uncertain parameter estimates on model reliability. <i>Biochemical Engineering Journal</i> , 2019, 150, 107247. | 3.6 | 25 |
| 71 | 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. | 4.1 | 21 |
| 72 | 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. | 4.0 | 5 |

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|----|---|-----|-----------|
| 73 | Reproduction of Large-Scale Bioreactor Conditions on Microfluidic Chips. <i>Microorganisms</i> , 2019, 7, 105. | 3.6 | 26 |
| 74 | Antibacterial and anticancer activities of orphan biosynthetic gene clusters from Atlantis II Red Sea brine pool. <i>Microbial Cell Factories</i> , 2019, 18, 56. | 4.0 | 18 |
| 75 | Carboxylic acid consumption and production by <i>Corynebacterium glutamicum</i> . <i>Biotechnology Progress</i> , 2019, 35, e2804. | 2.6 | 6 |
| 76 | Data of clavulanic acid and clavulanate-imidazole stability at low temperatures. <i>Data in Brief</i> , 2019, 23, 103775. | 1.0 | 4 |
| 77 | Cover Image, Volume 94, Issue 2. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, . | 3.2 | 0 |
| 78 | Human Deoxycytidine Kinase Is a Valuable Biocatalyst for the Synthesis of Nucleotide Analogues. <i>Catalysts</i> , 2019, 9, 997. | 3.5 | 7 |
| 79 | In Situ&/em> Microscopy for Real-time Determination of Single-cell Morphology in Bioprocesses. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.3 | 5 |
| 80 | Biocatalytic synthesis of seleno-, thio- and chloro-nucleobase modified nucleosides by thermostable nucleoside phosphorylases. <i>Catalysis Communications</i> , 2019, 121, 32-37. | 3.3 | 15 |
| 81 | CFD predicted pH gradients in lactic acid bacteria cultivations. <i>Biotechnology and Bioengineering</i> , 2019, 116, 769-780. | 3.3 | 31 |
| 82 | 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. | 3.5 | 29 |
| 83 | Process analytical technologies to monitor the liquid phase of anaerobic cultures. <i>Process Biochemistry</i> , 2019, 76, 1-10. | 3.7 | 8 |
| 84 | <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. | 3.6 | 22 |
| 85 | Bare laser-synthesized Au-based nanoparticles as nondisturbing surface-enhanced Raman scattering probes for bacteria identification. <i>Journal of Biophotonics</i> , 2018, 11, e201700225. | 2.3 | 42 |
| 86 | 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. | 2.2 | 6 |
| 87 | Characterization of a noninvasive on-line turbidity sensor in shake flasks for biomass measurements. <i>Biochemical Engineering Journal</i> , 2018, 132, 20-28. | 3.6 | 9 |
| 88 | Development of an iridium-based pH sensor for bioanalytical applications. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 51-60. | 2.5 | 15 |
| 89 | 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. | 1.7 | 10 |
| 90 | Adaptive optimal operation of a parallel robotic liquid handling station. <i>IFAC-PapersOnLine</i> , 2018, 51, 765-770. | 0.9 | 20 |

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|-----|--|-----|-----------|
| 91 | Accelerated Bioprocess Development of Endopolygalacturonase-Production with <i>Saccharomyces cerevisiae</i> Using Multivariate Prediction in a 48 Mini-Bioreactor Automated Platform. <i>Bioengineering</i> , 2018, 5, 101. | 3.5 | 19 |
| 92 | Electrooptical Determination of Polarizability for On-Line Viability and Vitality Quantification of <i>Lactobacillus plantarum</i> Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 188. | 4.1 | 3 |
| 93 | Improving control in microbial cell factories: from single cell to large-scale bioproduction. <i>FEMS Microbiology Letters</i> , 2018, 365, . | 1.8 | 13 |
| 94 | Heterologous Biosynthesis, Modifications and Structural Characterization of Ruminococcin-A, a Lanthipeptide From the Gut Bacterium <i>Ruminococcus gnavus</i> E1, in <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1688. | 3.5 | 24 |
| 95 | Bioinspired Designs, Molecular Premise and Tools for Evaluating the Ecological Importance of Antimicrobial Peptides. <i>Pharmaceuticals</i> , 2018, 11, 68. | 3.8 | 25 |
| 96 | Importance of the cultivation history for the response of <i>Escherichia coli</i> to oscillations in scale-down experiments. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1305-1313. | 3.4 | 12 |
| 97 | 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. | 4.0 | 15 |
| 98 | Spidersâ€™™ Ballooning Flight as a Model for the Exploration of Hazardous Atmospheric Weather Conditions. <i>Lecture Notes in Computer Science</i> , 2018, , 110-114. | 1.3 | 0 |
| 99 | Application of Continuous Culture Methods to Recombinant Protein Production in Microorganisms. <i>Microorganisms</i> , 2018, 6, 56. | 3.6 | 50 |
| 100 | Automated Cell Treatment for Competence and Transformation of <i>Escherichia coli</i> in a High-Throughput Quasi-Turbidostat Using Microtiter Plates. <i>Microorganisms</i> , 2018, 6, 60. | 3.6 | 11 |
| 101 | How scalable and suitable are single-use bioreactors?. <i>Current Opinion in Biotechnology</i> , 2018, 53, 240-247. | 6.6 | 32 |
| 102 | Chemo-enzymatic synthesis of $\hat{\pm}$ -d-pentofuranose-1-phosphates using thermostable pyrimidine nucleoside phosphorylases. <i>Molecular Catalysis</i> , 2018, 458, 52-59. | 2.0 | 23 |
| 103 | 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. | 4.0 | 30 |
| 104 | Synthesis of non-canonical branched-chain amino acids in <i>Escherichia coli</i> and approaches to avoid their incorporation into recombinant proteins. <i>Current Opinion in Biotechnology</i> , 2018, 53, 248-253. | 6.6 | 10 |
| 105 | An observational study of ballooning in large spiders: Nanoscale multifibers enable large spidersâ€™™ soaring flight. <i>PLoS Biology</i> , 2018, 16, e2004405. | 5.6 | 27 |
| 106 | Comparison of timeâ€gated surfaceâ€enhanced raman spectroscopy (TCâ€SERS) and classical SERS based monitoring of <i>Escherichia coli</i> cultivation samples. <i>Biotechnology Progress</i> , 2018, 34, 1533-1542. | 2.6 | 10 |
| 107 | Substrate Spectra of Nucleoside Phosphorylases and their Potential in the Production of Pharmaceutically Active Compounds. <i>Current Pharmaceutical Design</i> , 2018, 23, 6913-6935. | 1.9 | 24 |
| 108 | Pharmacological and pharmacokinetic properties of lanthipeptides undergoing clinical studies. <i>Biotechnology Letters</i> , 2017, 39, 473-482. | 2.2 | 56 |

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|-----|---|------|-----------|
| 109 | Tools for the determination of population heterogeneity caused by inhomogeneous cultivation conditions. <i>Journal of Biotechnology</i> , 2017, 251, 84-93. | 3.8 | 35 |
| 110 | Modelling overflow metabolism in <i>Escherichia coli</i> by acetate cycling. <i>Biochemical Engineering Journal</i> , 2017, 125, 23-30. | 3.6 | 49 |
| 111 | Detection of growth rate-dependent product formation in miniaturized parallel fed-batch cultivations. <i>Engineering in Life Sciences</i> , 2017, 17, 1215-1220. | 3.6 | 15 |
| 112 | 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 | 25 |
| 113 | In pursuit of Sustainable Development Goal (SDG) number 7: Will biofuels be reliable?. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 927-937. | 16.4 | 103 |
| 114 | Online optimal experimental re-design in robotic parallel fed-batch cultivation facilities. <i>Biotechnology and Bioengineering</i> , 2017, 114, 610-619. | 3.3 | 80 |
| 115 | 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. | 9.3 | 55 |
| 116 | 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. | 3.6 | 27 |
| 117 | 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. | 3.6 | 30 |
| 118 | Fast-track development of a lactase production process with <i>Kluyveromyces lactis</i> by a progressive parameter-control workflow. <i>Engineering in Life Sciences</i> , 2017, 17, 1185-1194. | 3.6 | 11 |
| 119 | Single-cell-based monitoring of fatty acid accumulation in <i>Cryptocodinium cohnii</i> with three-dimensional holographic and in situ microscopy. <i>Process Biochemistry</i> , 2017, 52, 223-232. | 3.7 | 14 |
| 120 | Dynamic Optimization of the PyNP/PNP Phosphorolytic Enzymatic Process Using MOSAIC modeling. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 1523-1533. | 0.8 | 2 |
| 121 | Editorial: Bioprocess Development in the era of digitalization. <i>Engineering in Life Sciences</i> , 2017, 17, 1140-1141. | 3.6 | 13 |
| 122 | Spatial monitoring of the liquid phase with multiparameter sensors in industrial-scale fermenters. <i>TM Technisches Messen</i> , 2017, 84, 620-627. | 0.7 | 2 |
| 123 | Micro-Electromechanical Affinity Sensor for the Monitoring of Glucose in Bioprocess Media. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1235. | 4.1 | 7 |
| 124 | Discharging tRNAs: a tug of war between translation and detoxification in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2016, 44, 8324-8334. | 14.5 | 46 |
| 125 | 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. | 3.6 | 18 |
| 126 | The fed-batch principle for the molecular biology lab: controlled nutrient diets in ready-made media improve production of recombinant proteins in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2016, 15, 110. | 4.0 | 54 |

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|-----|---|------|-----------|
| 127 | Life cycle assessment of flexibly fed biogas processes for an improved demand-oriented biogas supply. <i>Bioresource Technology</i> , 2016, 219, 536-544. | 9.6 | 33 |
| 128 | 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 | 1 |
| 129 | Model-Based Process Optimization Supports the Synthesis of Pharmaceutically Relevant Nucleoside Derivatives. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1245-1245. | 0.8 | 0 |
| 130 | Lanthipeptides: chemical synthesis versus in vivo biosynthesis as tools for pharmaceutical production. <i>Microbial Cell Factories</i> , 2016, 15, 97. | 4.0 | 76 |
| 131 | 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, 490-499. | 0.8 | 0 |
| 132 | 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. | 1.7 | 10 |
| 133 | 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, 241-247. | 2.8 | 14 |
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