

Thomas Scheper

List of Publications by Citations

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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.

248
papers

5,227
citations

36
h-index

59
g-index

257
ext. papers

6,126
ext. citations

4
avg. IF

5.85
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 248 | Electrochemical method for the synthesis of silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1193-1200 | 2.3 | 171 |
| 247 | Gelatin-Methacryloyl (GelMA) Hydrogels with Defined Degree of Functionalization as a Versatile Toolkit for 3D Cell Culture and Extrusion Bioprinting. <i>Bioengineering</i> , 2018 , 5, | 5.3 | 137 |
| 246 | Two-dimensional fluorescence spectroscopy: a new tool for on-line bioprocess monitoring. <i>Biotechnology Progress</i> , 1998 , 14, 63-74 | 2.8 | 137 |
| 245 | Long term expansion of undifferentiated human iPS and ES cells in suspension culture using a defined medium. <i>Stem Cell Research</i> , 2010 , 5, 51-64 | 1.6 | 136 |
| 244 | Flow cytometry in biotechnology. <i>Applied Microbiology and Biotechnology</i> , 2001 , 56, 350-60 | 5.7 | 135 |
| 243 | Niosomes as Nanoparticulate Drug Carriers: Fundamentals and Recent Applications. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-13 | 3.2 | 131 |
| 242 | Sensor systems for bioprocess monitoring. <i>Engineering in Life Sciences</i> , 2015 , 15, 469-488 | 3.4 | 114 |
| 241 | On-line infrared spectroscopy for bioprocess monitoring. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 11-22 | 5.7 | 110 |
| 240 | In-situ microscopy: Online process monitoring of mammalian cell cultures. <i>Cytotechnology</i> , 2002 , 38, 129-34 | 2.2 | 100 |
| 239 | Impact of Feeding Strategies on the Scalable Expansion of Human Pluripotent Stem Cells in Single-Use Stirred Tank Bioreactors. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1289-1301 | 6.9 | 90 |
| 238 | Systematic investigation of optimal aptamer immobilization for protein-microarray applications. <i>Analytical Chemistry</i> , 2008 , 80, 7372-8 | 7.8 | 87 |
| 237 | Hydrogels for 3D mammalian cell culture: a starting guide for laboratory practice. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 623-36 | 5.7 | 86 |
| 236 | On-line monitoring of large cultivations of microalgae and cyanobacteria. <i>Trends in Biotechnology</i> , 2013 , 31, 406-14 | 15.1 | 84 |
| 235 | Label-free optical biosensors based on aptamer-functionalized porous silicon scaffolds. <i>Analytical Chemistry</i> , 2015 , 87, 1999-2006 | 7.8 | 75 |
| 234 | Laser ablation-based one-step generation and bio-functionalization of gold nanoparticles conjugated with aptamers. <i>Journal of Nanobiotechnology</i> , 2010 , 8, 21 | 9.4 | 72 |
| 233 | Spectroscopic sensors for in-line bioprocess monitoring in research and pharmaceutical industrial application. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 651-666 | 4.4 | 71 |
| 232 | Isolation of bovine lactoferrin, lactoperoxidase and enzymatically prepared lactoferricin from proteolytic digestion of bovine lactoferrin using adsorptive membrane chromatography. <i>Journal of Chromatography A</i> , 2006 , 1117, 81-6 | 4.5 | 70 |

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| 231 | Toxicity, phototoxicity and biocidal activity of nanoparticles employed in photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016 , 29, 1-28 | 16.4 | 67 |
| 230 | A review of non-invasive optical-based image analysis systems for continuous bioprocess monitoring. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 247-56 | 3.7 | 64 |
| 229 | Aptamer-based downstream processing of his-tagged proteins utilizing magnetic beads. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2371-9 | 4.9 | 59 |
| 228 | Chemometric modelling with two-dimensional fluorescence data for <i>Claviceps purpurea</i> bioprocess characterization. <i>Journal of Biotechnology</i> , 2003 , 105, 179-88 | 3.7 | 57 |
| 227 | Three dimensional spheroid cell culture for nanoparticle safety testing. <i>Journal of Biotechnology</i> , 2015 , 205, 120-9 | 3.7 | 55 |
| 226 | In-situ imaging sensors for bioprocess monitoring: state of the art. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2429-38 | 4.4 | 54 |
| 225 | Nanostructured Amphiphilic Star-Hyperbranched Block Copolymers for Drug Delivery. <i>Langmuir</i> , 2015 , 31, 4542-51 | 4 | 53 |
| 224 | Differentiation of Human Pluripotent Stem Cells into Functional Endothelial Cells in Scalable Suspension Culture. <i>Stem Cell Reports</i> , 2018 , 10, 1657-1672 | 8 | 51 |
| 223 | Anti-inflammatory activity of low molecular weight polysialic acid on human macrophages. <i>Scientific Reports</i> , 2015 , 5, 16800 | 4.9 | 50 |
| 222 | PAMAM-functionalized water soluble quantum dots for cancer cell targeting. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11529 | | 47 |
| 221 | PEG-salt aqueous two-phase systems: an attractive and versatile liquid-liquid extraction technology for the downstream processing of proteins and enzymes. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 6599-616 | 5.7 | 45 |
| 220 | Biofunctional quantum dots as fluorescence probe for cell-specific targeting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 96-103 | 6 | 44 |
| 219 | Enzymatic conversion of flavonoids using bacterial chalcone isomerase and enoate reductase. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1439-42 | 16.4 | 43 |
| 218 | Alcohol biosensing by polyamidoamine (PAMAM)/cysteamine/alcohol oxidase-modified gold electrode. <i>Biotechnology Progress</i> , 2010 , 26, 896-906 | 2.8 | 42 |
| 217 | Theranostic Liposome-Nanoparticle Hybrids for Drug Delivery and Bioimaging. <i>International Journal of Molecular Sciences</i> , 2017 , 18, | 6.3 | 41 |
| 216 | Rapid and label-free detection of protein a by aptamer-tethered porous silicon nanostructures. <i>Journal of Biotechnology</i> , 2017 , 257, 171-177 | 3.7 | 39 |
| 215 | Large-scale production and homogenous purification of long chain polysialic acids from <i>E. coli</i> K1. <i>Journal of Biotechnology</i> , 2008 , 135, 202-9 | 3.7 | 39 |
| 214 | Aptamers: versatile probes for flow cytometry. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 7097-109 | | 38 |

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| 213 | Aptamers as affinity ligands for downstream processing. <i>Engineering in Life Sciences</i> , 2012 , 12, 496-506 | 3.4 | 38 |
| 212 | Aqueous Synthesis of PEGylated Quantum Dots with Increased Colloidal Stability and Reduced Cytotoxicity. <i>Bioconjugate Chemistry</i> , 2016 , 27, 414-26 | 6.3 | 36 |
| 211 | Transcriptome-based identification of antioxidative gene expression after fish oil supplementation in normo- and dyslipidemic men. <i>Nutrition and Metabolism</i> , 2012 , 9, 45 | 4.6 | 36 |
| 210 | Online monitoring of microcarrier based fibroblast cultivations with in situ microscopy. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 136-45 | 4.9 | 35 |
| 209 | A new set up for multi-analyte sensing: at-line bio-process monitoring. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4532-7 | 11.8 | 34 |
| 208 | Identification of the target binding site of ethanolamine-binding aptamers and its exploitation for ethanolamine detection. <i>Analytical Chemistry</i> , 2015 , 87, 677-85 | 7.8 | 33 |
| 207 | Aptamers vs. antibodies as capture probes in optical porous silicon biosensors. <i>Analyst, The</i> , 2020 , 145, 4991-5003 | 5 | 32 |
| 206 | Pushing the envelope in tissue engineering: ex vivo production of thick vascularized cardiac extracellular matrix constructs. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1507-19 | 3.9 | 32 |
| 205 | Adsorption and separation of proteins by a smectitic clay mineral. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 847-61 | 3.7 | 32 |
| 204 | Innovative modular membrane adsorber system for high-throughput downstream screening for protein purification. <i>Biotechnology Progress</i> , 2006 , 22, 1215-9 | 2.8 | 32 |
| 203 | Monitoring of microalgal cultivations with on-line, flow-through microscopy. <i>Algal Research</i> , 2013 , 2, 253-257 | 5 | 31 |
| 202 | On Chip Protein Pre-Concentration for Enhancing the Sensitivity of Porous Silicon Biosensors. <i>ACS Sensors</i> , 2017 , 2, 1767-1773 | 9.2 | 31 |
| 201 | 3D-printed individual labware in biosciences by rapid prototyping: A proof of principle. <i>Engineering in Life Sciences</i> , 2015 , 15, 51-56 | 3.4 | 30 |
| 200 | Application of an online-biomass sensor in an optical multisensory platform prototype for growth monitoring of biotechnical relevant microorganism and cell lines in single-use shake flasks. <i>Sensors</i> , 2014 , 14, 17390-405 | 3.8 | 30 |
| 199 | Folic acid-modified clay: targeted surface design for cell culture applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 522-528 | 7.3 | 29 |
| 198 | Sensors in disposable bioreactors status and trends. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2009 , 115, 145-69 | 1.7 | 29 |
| 197 | In vitro wound healing assays - state of the art. <i>BioNanoMaterials</i> , 2016 , 17, | | 28 |
| 196 | Sensors for disposable bioreactors. <i>Engineering in Life Sciences</i> , 2017 , 17, 940-952 | 3.4 | 28 |

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| 195 | Tumor homing and penetrating peptide-conjugated niosomes as multi-drug carriers for tumor-targeted drug delivery. <i>RSC Advances</i> , 2017 , 7, 33378-33384 | 3.7 | 28 |
| 194 | 3D-printed individual labware in biosciences by rapid prototyping: In vitro biocompatibility and applications for eukaryotic cell cultures. <i>Engineering in Life Sciences</i> , 2015 , 15, 57-64 | 3.4 | 28 |
| 193 | Adsorption and separation of proteins by a synthetic hydrotalcite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 217-25 | 6 | 28 |
| 192 | In situ multi-wavelength fluorescence spectroscopy as effective tool to simultaneously monitor spore germination, metabolic activity and quantitative protein production in recombinant <i>Aspergillus niger</i> fed-batch cultures. <i>Journal of Biotechnology</i> , 2007 , 132, 461-8 | 3.7 | 28 |
| 191 | Optimization of PEG β alt aqueous two-phase systems by design of experiments. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 149, 12-21 | 3.8 | 27 |
| 190 | Influence of Different Phase-Forming Parameters on the Phase Diagram of Several PEG β alt Aqueous Two-Phase Systems. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 850-859 | 2.8 | 27 |
| 189 | Preparation of bioactive soluble human leukemia inhibitory factor from recombinant <i>Escherichia coli</i> using thioredoxin as fusion partner. <i>Protein Expression and Purification</i> , 2010 , 73, 51-7 | 2 | 27 |
| 188 | Synthesis and biological evaluation of a polysialic acid-based hydrogel as enzymatically degradable scaffold material for tissue engineering. <i>Biomacromolecules</i> , 2008 , 9, 2353-9 | 6.9 | 27 |
| 187 | From invisible structures of SWCNTs toward fluorescent and targeting architectures for cell imaging. <i>Biomacromolecules</i> , 2013 , 14, 3532-41 | 6.9 | 26 |
| 186 | Offline glucose biomonitoring in yeast culture by polyamidoamine/cysteamine-modified gold electrodes. <i>Biotechnology Progress</i> , 2011 , 27, 530-8 | 2.8 | 26 |
| 185 | New perspectives in shake flask pH control using a 3D-printed control unit based on pH online measurement. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1035-1043 | 8.5 | 25 |
| 184 | Cultivation of MC3T3-E1 cells on a newly developed material (Sponceram) using a rotating bed system bioreactor. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 268-75 | 5.4 | 25 |
| 183 | Fast and efficient protein purification using membrane adsorber systems. <i>Journal of Biotechnology</i> , 2006 , 121, 361-7 | 3.7 | 25 |
| 182 | Introducing a Virtual Assistant to the Lab: A Voice User Interface for the Intuitive Control of Laboratory Instruments. <i>SLAS Technology</i> , 2018 , 23, 476-482 | 3 | 24 |
| 181 | Different gene expression profiles in normo- and dyslipidemic men after fish oil supplementation: results from a randomized controlled trial. <i>Lipids in Health and Disease</i> , 2012 , 11, 105 | 4.4 | 24 |
| 180 | In vivo evaluation of polysialic acid as part of tissue-engineered nerve transplants. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3085-98 | 3.9 | 24 |
| 179 | Evaluation of CdTe/CdS/ZnS core/shell/shell quantum dot toxicity on three-dimensional spheroid cultures. <i>Toxicology Research</i> , 2016 , 5, 126-135 | 2.6 | 23 |
| 178 | Development of an aptamer-based affinity purification method for vascular endothelial growth factor. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015 , 8, 16-23 | 5.3 | 23 |

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| 177 | Aptamer-Modified Magnetic Beads in Biosensing. <i>Sensors</i> , 2018 , 18, | 3.8 | 23 |
| 176 | Aptamer-based depletion of small molecular contaminants: A case study using ochratoxin A. <i>Biotechnology and Bioprocess Engineering</i> , 2015 , 20, 1016-1025 | 3.1 | 23 |
| 175 | Optimization of a microarray sandwich-ELISA against hINF-gamma on a modified nitrocellulose membrane. <i>Biotechnology Progress</i> , 2007 , 23, 1498-505 | 2.8 | 23 |
| 174 | Aptamer-based lateral flow assays. <i>AIMS Bioengineering</i> , 2018 , 5, 78-102 | 3.4 | 23 |
| 173 | Living Cell Microarrays: An Overview of Concepts. <i>Microarrays (Basel, Switzerland)</i> , 2016 , 5, | | 23 |
| 172 | L-Mediated Green Synthesis of Silver Nanoparticles Exhibiting Antioxidant and Anticancer Activities. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 23 |
| 171 | Hydrogels based on collagen and fibrin [Frontiers and applications. <i>BioNanoMaterials</i> , 2016 , 17, | | 22 |
| 170 | Rapid Microfluidic Preparation of Niosomes for Targeted Drug Delivery. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 21 |
| 169 | Cultivation of shear stress sensitive microorganisms in disposable bag reactor systems. <i>Journal of Biotechnology</i> , 2013 , 167, 370-6 | 3.7 | 21 |
| 168 | Revelation of Different Nanoparticle-Uptake Behavior in Two Standard Cell Lines NIH/3T3 and A549 by Flow Cytometry and Time-Lapse Imaging. <i>Toxics</i> , 2017 , 5, | 4.7 | 21 |
| 167 | Application of conjoint liquid chromatography with monolithic disks for the simultaneous determination of immunoglobulin G and other proteins present in a cell culture medium. <i>Journal of Chromatography A</i> , 2009 , 1216, 2671-5 | 4.5 | 21 |
| 166 | Comparison of polysialic acid production in Escherichia coli K1 during batch cultivation and fed-batch cultivation applying two different control strategies. <i>Journal of Biotechnology</i> , 2011 , 154, 222-37 | 3.7 | 21 |
| 165 | Aptamer-modified nanomaterials: principles and applications. <i>BioNanoMaterials</i> , 2017 , 18, | | 20 |
| 164 | Cytokine production using membrane adsorbers: Human basic fibroblast growth factor produced by Escherichia coli. <i>Engineering in Life Sciences</i> , 2012 , 12, 29-38 | 3.4 | 20 |
| 163 | Flow cytometry: interesting tool for studying binding behavior of DNA on inorganic layered double hydroxide (LDH). <i>Cytometry</i> , 2004 , 62, 65-9 | | 20 |
| 162 | Gelatin-Methacryloyl (GelMA) Formulated with Human Platelet Lysate Supports Mesenchymal Stem Cell Proliferation and Differentiation and Enhances the Hydrogel's Mechanical Properties. <i>Bioengineering</i> , 2019 , 6, | 5.3 | 19 |
| 161 | Microarray-based screening of heat shock protein inhibitors. <i>Journal of Biotechnology</i> , 2014 , 180, 1-9 | 3.7 | 19 |
| 160 | Regulation of lipid metabolism-related gene expression in whole blood cells of normo- and dyslipidemic men after fish oil supplementation. <i>Lipids in Health and Disease</i> , 2012 , 11, 172 | 4.4 | 19 |

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| 159 | Prediction of flocculation ability of brewing yeast inoculates by flow cytometry, proteome analysis, and mRNA profiling. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009 , 75, 140-7 | 4.6 | 19 |
| 158 | Smart multifunctional nanoparticles in nanomedicine. <i>BioNanoMaterials</i> , 2016 , 17, | | 19 |
| 157 | Noninvasive online biomass detector system for cultivation in shake flasks. <i>Engineering in Life Sciences</i> , 2014 , 14, 467-476 | 3.4 | 18 |
| 156 | Extracellular production and affinity purification of recombinant proteins with <i>Escherichia coli</i> using the versatility of the maltose binding protein. <i>Journal of Biotechnology</i> , 2009 , 140, 194-202 | 3.7 | 18 |
| 155 | Application of different strain regimes in two-dimensional and three-dimensional adipose tissue-derived stem cell cultures induces osteogenesis: implications for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 927-36 | 5.4 | 18 |
| 154 | A smart device application for the automated determination of colonies on agar plates. <i>Engineering in Life Sciences</i> , 2017 , 17, 959-966 | 3.4 | 17 |
| 153 | One-pot aqueous synthesis of highly strained CdTe/CdS/ZnS nanocrystals and their interactions with cells. <i>RSC Advances</i> , 2015 , 5, 7485-7494 | 3.7 | 17 |
| 152 | Aptamer mediated niosomal drug delivery. <i>RSC Advances</i> , 2016 , 6, 87910-87918 | 3.7 | 17 |
| 151 | Characterisation of a Recombinant Patchoulol Synthase Variant for Biocatalytic Production of Terpenes. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 176, 2185-201 | 3.2 | 16 |
| 150 | Bio-Inspired Amphiphilic Block-Copolymers Based on Synthetic Glycopolymer and Poly(Amino Acid) as Potential Drug Delivery Systems. <i>Polymers</i> , 2020 , 12, | 4.5 | 16 |
| 149 | Development and Application of an Additively Manufactured Calcium Chloride Nebulizer for Alginate 3D-Bioprinting Purposes. <i>Journal of Functional Biomaterials</i> , 2018 , 9, | 4.8 | 16 |
| 148 | Real-Time Live-Cell Imaging Technology Enables High-Throughput Screening to Verify in Vitro Biocompatibility of 3D Printed Materials. <i>Materials</i> , 2019 , 12, | 3.5 | 15 |
| 147 | Polysialic acid immobilized on silanized glass surfaces: a test case for its use as a biomaterial for nerve regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1371-8 | 4.5 | 15 |
| 146 | On-line monitoring and control of substrate concentrations in biological processes by flow injection analysis systems. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 156-165 | 3.1 | 15 |
| 145 | Design and evaluation of split-ring resonators for aptamer-based biosensors. <i>Journal of Sensors and Sensor Systems</i> , 2018 , 7, 101-111 | 1.6 | 15 |
| 144 | Aptamer-modified polymer nanoparticles for targeted drug delivery. <i>BioNanoMaterials</i> , 2016 , 17, | | 14 |
| 143 | Development of a microarray-based assay for efficient testing of new HSP70/DnaK inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 6345-6352 | 3.4 | 13 |
| 142 | New, non-quinone fluorogeldanamycin derivatives strongly inhibit Hsp90. <i>ChemBioChem</i> , 2015 , 16, 302-318 | 3.8 | 13 |

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| 141 | Positive in vitro wound healing effects of functional inclusion bodies of a lipoxygenase from the Mexican axolotl. <i>Microbial Cell Factories</i> , 2018 , 17, 57 | 6.4 | 13 |
| 140 | Heparin: role in protein purification and substitution with animal-component free material. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8647-8660 | 5.7 | 13 |
| 139 | In situ microscopy and MIR-spectroscopy as non-invasive optical sensors for cell cultivation process monitoring. <i>Pharmaceutical Bioprocessing</i> , 2014 , 2, 157-166 | | 13 |
| 138 | Separation of patatins and protease inhibitors from potato fruit juice with clay minerals as cation exchangers. <i>Journal of Separation Science</i> , 2012 , 35, 1596-602 | 3.4 | 13 |
| 137 | Aptasensors for Point-of-Care Detection of Small Molecules. <i>Biosensors</i> , 2020 , 10, | 5.9 | 13 |
| 136 | In-Vitro Application of Magnetic Hybrid Niosomes: Targeted siRNA-Delivery for Enhanced Breast Cancer Therapy. <i>Pharmaceutics</i> , 2021 , 13, | 6.4 | 13 |
| 135 | Functionalized Pt(II) and Ir(III) NIR Emitters and Their Covalent Conjugates with Polymer-Based Nanocarriers. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1327-1343 | 6.3 | 12 |
| 134 | Heat Shock Proteins Revisited: Using a Mutasynthetically Generated Reblastatin Library to Compare the Inhibition of Human and Leishmania Hsp90s. <i>ChemBioChem</i> , 2018 , 19, 562-574 | 3.8 | 12 |
| 133 | Heterologous Expression, Purification, and Biochemical Characterization of β -Humulene Synthase from Zingiber zerumbet Smith. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 474-89 | 3.2 | 12 |
| 132 | Analysis of aging in lager brewing yeast during serial repitching. <i>Journal of Biotechnology</i> , 2014 , 187, 60-70 | 3.7 | 12 |
| 131 | Aptamers as detection molecules on reverse phase protein microarrays for the analysis of cell lysates. <i>Engineering in Life Sciences</i> , 2012 , 12, 144-151 | 3.4 | 12 |
| 130 | Process analytical sensors and image-based techniques for single-use bioreactors. <i>Engineering in Life Sciences</i> , 2011 , 11, 550-553 | 3.4 | 12 |
| 129 | Cytotoxicity of titanium and silicon dioxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2009 , 170, 012022 | 0.3 | 12 |
| 128 | Hydrogel-based microfluidics for vascular tissue engineering. <i>BioNanoMaterials</i> , 2016 , 17, | | 12 |
| 127 | Polysialic acid production using K1 in a disposable bag reactor. <i>Engineering in Life Sciences</i> , 2017 , 17, 723-731 | 3.4 | 11 |
| 126 | Aptamer-based detection of adenosine triphosphate via qPCR. <i>Talanta</i> , 2017 , 172, 199-205 | 6.2 | 11 |
| 125 | Continuous purification of lipase B using 3-membrane adsorber periodic counter-current chromatography. <i>Engineering in Life Sciences</i> , 2018 , 18, 414-424 | 3.4 | 11 |
| 124 | In situ microscopy for in-line monitoring of the enzymatic hydrolysis of cellulose. <i>Analytical Chemistry</i> , 2013 , 85, 8121-6 | 7.8 | 11 |

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| 123 | Functionalized PLGA-doped zirconium oxide ceramics for bone tissue regeneration. <i>Biomedical Microdevices</i> , 2013 , 15, 1055-66 | 3.7 | 11 |
| 122 | Sustainability of industrial yeast serial repitching practice studied by gene expression and correlation analysis. <i>Journal of Biotechnology</i> , 2013 , 168, 718-28 | 3.7 | 11 |
| 121 | Additive manufactured customizable labware for biotechnological purposes. <i>Engineering in Life Sciences</i> , 2017 , 17, 931-939 | 3.4 | 11 |
| 120 | Purification of bone morphogenetic protein-2 from refolding mixtures using mixed-mode membrane chromatography. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 123-130 | 5.7 | 11 |
| 119 | Comparison of colorimetric methods for the quantification of model proteins in aqueous two-phase systems. <i>Analytical Biochemistry</i> , 2015 , 477, 35-7 | 3.1 | 11 |
| 118 | Non-invasive monitoring of bacterial growth and auto-induced protein production in a bioreactor with a closed-loop GC-IMS. <i>International Journal for Ion Mobility Spectrometry</i> , 2015 , 18, 9-15 | 1.5 | 11 |
| 117 | Disposable Sensor Systems 2011 , 67-81 | | 11 |
| 116 | Development of a novel membrane aerated hollow-fiber microbioreactor. <i>Biotechnology Progress</i> , 2008 , 24, 367-71 | 2.8 | 11 |
| 115 | Fast and efficient screening system for new biomaterials in tissue engineering: a model for peripheral nerve regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 736-47 | 5.4 | 11 |
| 114 | A study on polysialic acid as a biomaterial for cell culture applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 1-13 | 5.4 | 11 |
| 113 | 3D-Printed Flow Cells for Aptamer-Based Impedimetric Detection of Crooks Strain. <i>Sensors</i> , 2020 , 20, | 3.8 | 11 |
| 112 | Spectroscopic methods and their applicability for high-throughput characterization of mammalian cell cultures in automated cell culture systems. <i>Engineering in Life Sciences</i> , 2016 , 16, 405-416 | 3.4 | 11 |
| 111 | Characterization of a customized 3D-printed cell culture system using clear, translucent acrylate that enables optical online monitoring. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 055007 | 3.5 | 10 |
| 110 | Production of polycaprolactone nanoparticles with hydrodynamic diameters below 100nm. <i>Engineering in Life Sciences</i> , 2019 , 19, 658-665 | 3.4 | 10 |
| 109 | Downstream processing of high chain length polysialic acid using membrane adsorbers and clay minerals for application in tissue engineering. <i>Engineering in Life Sciences</i> , 2013 , 13, 140-148 | 3.4 | 10 |
| 108 | One-step-purification of penicillin G amidase from cell lysate using ion-exchange membrane adsorbers. <i>Journal of Membrane Science</i> , 2013 , 444, 359-364 | 9.6 | 10 |
| 107 | Monitoring and control of industrial downstream processing of sugar beet molasses. <i>Journal of Chromatography A</i> , 2000 , 882, 329-34 | 4.5 | 10 |
| 106 | An intelligent bioreactor system for the cultivation of a bioartificial vascular graft. <i>Engineering in Life Sciences</i> , 2017 , 17, 567-578 | 3.4 | 9 |

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|-----|--|-----|---|
| 105 | Bioproduction of Humulene in metabolically engineered and application in zerumbone synthesis. <i>Engineering in Life Sciences</i> , 2017 , 17, 900-907 | 3.4 | 9 |
| 104 | Charged aerosol detector HPLC as a characterization and quantification application of biopharmaceutically relevant polysialic acid from E. coli K1. <i>Journal of Chromatography A</i> , 2019 , 1599, 85-94 | 4.5 | 9 |
| 103 | Online analysis of protein inclusion bodies produced in E. coli by monitoring alterations in scattered and reflected light. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 4147-59 | 5.7 | 9 |
| 102 | Detection of ochratoxin A by aptamer-assisted real-time PCR-based assay (Apta-qPCR). <i>Engineering in Life Sciences</i> , 2017 , 17, 923-930 | 3.4 | 9 |
| 101 | Improved Production and In Situ Recovery of Sesquiterpene (+)-Zizaene from Metabolically-Engineered. <i>Molecules</i> , 2019 , 24, | 4.8 | 8 |
| 100 | Determination of aqueous two-phase system phase-forming components in the presence of bovine serum albumin. <i>Analytical Biochemistry</i> , 2014 , 455, 10-2 | 3.1 | 8 |
| 99 | Tubular membrane bioreactors for biotechnological processes. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 929-37 | 5.7 | 8 |
| 98 | In-situ microscopy and 2D fluorescence spectroscopy as online methods for monitoring CHO cells during cultivation. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P76 | 2.3 | 8 |
| 97 | Laminare Mischen in Miniatur-Hohlfasermembranreaktoren durch Ausnutzung von Sekundärstrahlungen (Teil 1). <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1066-1073 | 0.8 | 8 |
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