

Zhanfeng Cui

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6822573/zhanfeng-cui-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

189
papers

5,349
citations

38
h-index

63
g-index

202
ext. papers

6,108
ext. citations

5.4
avg, IF

5.77
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 189 | Impact of fast-track regulatory designations on strategic commercialization decisions for autologous cell therapies.. <i>Regenerative Medicine</i> , 2022 , 17, 155-174 | 2.5 | |
| 188 | Increased connectivity of hiPSC-derived neural networks in multiphase granular hydrogel scaffolds. <i>Bioactive Materials</i> , 2022 , 9, 358-372 | 16.7 | 5 |
| 187 | Comparison between centralized and decentralized supply chains of autologous chimeric antigen receptor T-cell therapies: a UK case study based on discrete event simulation. <i>Cytotherapy</i> , 2021 , 23, 433-451 | 4.8 | 4 |
| 186 | Electrospinning and electrospraying in biomedical engineering 2021 , 375-393 | | 1 |
| 185 | Clinical validation of optimised RT-LAMP for the diagnosis of SARS-CoV-2 infection. <i>Scientific Reports</i> , 2021 , 11, 16193 | 4.9 | 6 |
| 184 | Characterization of regional meniscal cell and chondrocyte phenotypes and chondrogenic differentiation with histological analysis in osteoarthritic donor-matched tissues. <i>Scientific Reports</i> , 2020 , 10, 21658 | 4.9 | 2 |
| 183 | Development of a rapid test kit for SARS-CoV-2: an example of product design. <i>Bio-Design and Manufacturing</i> , 2020 , 3, 1-4 | 4.7 | 13 |
| 182 | (CD166) as a gene expression marker for human mesenchymal stromal cell characterisation. <i>Gene: X</i> , 2020 , 5, 100031 | 2.1 | 11 |
| 181 | Chromosome-free bacterial cells are safe and programmable platforms for synthetic biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6752-6761 | 11.5 | 16 |
| 180 | An additive manufacturing approach to bioreactor design for mesenchymal stem cell culture. <i>Biochemical Engineering Journal</i> , 2020 , 156, 107515 | 4.2 | 4 |
| 179 | Development of an in situ injectable hydrogel containing hyaluronic acid for neural regeneration. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 055005 | 3.5 | 10 |
| 178 | RT-LAMP for rapid diagnosis of coronavirus SARS-CoV-2. <i>Microbial Biotechnology</i> , 2020 , 13, 950-961 | 6.3 | 244 |
| 177 | Decisions in the Development Lifecycle of Cell and Gene Therapies 2020 , 597-632 | | 1 |
| 176 | A tri-component knee plug for the 3rd generation of autologous chondrocyte implantation. <i>Scientific Reports</i> , 2020 , 10, 17048 | 4.9 | 2 |
| 175 | A single-cell Raman-based platform to identify developmental stages of human pluripotent stem cell-derived neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18412-18423 | 11.5 | 23 |
| 174 | Numerical study of the formation and drying kinetics of a capillary bridge of trehalose solution between two parallel hydrophilic fibres. <i>Chemical Engineering Science</i> , 2020 , 226, 115849 | 4.4 | |
| 173 | Neural tissue engineering with structured hydrogels in CNS models and therapies. <i>Biotechnology Advances</i> , 2020 , 42, 107370 | 17.8 | 36 |

| | | | |
|-----|---|------|----|
| 172 | 3D Bioprinting: A Novel Avenue for Manufacturing Tissues and Organs. <i>Engineering</i> , 2019 , 5, 777-794 | 9.7 | 74 |
| 171 | 3D bioprinting for artificial cornea: Challenges and perspectives. <i>Medical Engineering and Physics</i> , 2019 , 71, 68-78 | 2.4 | 34 |
| 170 | Development of thermo-responsive polycaprolactone macrocarriers conjugated with Poly(N-isopropyl acrylamide) for cell culture. <i>Scientific Reports</i> , 2019 , 9, 3477 | 4.9 | 16 |
| 169 | Culture surfaces induce hypoxia-regulated genes in human mesenchymal stromal cells. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 035012 | 3.5 | 7 |
| 168 | Defensive Function of Transposable Elements in Bacteria. <i>ACS Synthetic Biology</i> , 2019 , 8, 2141-2151 | 5.7 | 13 |
| 167 | Systematic review protocol: an assessment of the post-approval challenges of autologous CAR-T therapy delivery. <i>BMJ Open</i> , 2019 , 9, e026172 | 3 | 2 |
| 166 | Design of a new 3D-printed joint plug. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019 , 14, e2360 | 1.3 | 1 |
| 165 | Effect of Substrate Topography and Chemistry on Human Mesenchymal Stem Cell Markers: A Transcriptome Study. <i>International Journal of Stem Cells</i> , 2019 , 12, 84-94 | 3 | 16 |
| 164 | Cryopreservation: Organ Preservation 2019 , 689-708 | | |
| 163 | 3D superhydrophobic sponge with a novel compression strategy for effective water-in-oil emulsion separation and its separation mechanism. <i>Chemical Engineering Journal</i> , 2019 , 359, 149-158 | 14.7 | 63 |
| 162 | 3D bioprinting: an emerging technology full of opportunities and challenges. <i>Bio-Design and Manufacturing</i> , 2018 , 1, 2-13 | 4.7 | 78 |
| 161 | Aligned electrospun fibers for neural patterning. <i>Biotechnology Letters</i> , 2018 , 40, 601-607 | 3 | 14 |
| 160 | Engineered method for directional growth of muscle sheets on electrospun fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1165-1176 | 5.4 | 11 |
| 159 | Fluid dynamic characterization of a fluidized-bed perfusion bioreactor with CFDDEM simulation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 2316-2330 | 3.5 | 7 |
| 158 | 3D-printed thick structured gelatin membrane for engineering of heterogeneous tissues. <i>Materials Letters</i> , 2018 , 217, 39-43 | 3.3 | 10 |
| 157 | Assembly of 2D MXene nanosheets and TiO ₂ nanoparticles for fabricating mesoporous TiO ₂ -MXene membranes. <i>Journal of Membrane Science</i> , 2018 , 564, 35-43 | 9.6 | 37 |
| 156 | Selective Swelling of Electrospun Block Copolymers: From Perforated Nanofibers to High Flux and Responsive Ultrafiltration Membranes. <i>Macromolecules</i> , 2018 , 51, 2283-2292 | 5.5 | 29 |
| 155 | Cancer cells growing on perfused 3D collagen model produced higher reactive oxygen species level and were more resistant to cisplatin compared to the 2D model. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018 , 16, 144-150 | 1.8 | 7 |

| | | | |
|-----|--|------|----|
| 154 | 3D-Printed membrane as an alternative to amniotic membrane for ocular surface/conjunctival defect reconstruction: An in vitro & in vivo study. <i>Biomaterials</i> , 2018 , 174, 95-112 | 15.6 | 30 |
| 153 | Differential and Interactive Effects of Substrate Topography and Chemistry on Human Mesenchymal Stem Cell Gene Expression. <i>International Journal of Molecular Sciences</i> , 2018 , 19, | 6.3 | 23 |
| 152 | Manufacture and characterisation of EmDerm-novel hierarchically structured bio-active scaffolds for tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 79 | 4.5 | 5 |
| 151 | Decision Support Tools for Regenerative Medicine: Systematic Review. <i>Journal of Medical Internet Research</i> , 2018 , 20, e12448 | 7.6 | 3 |
| 150 | 3D-printed membrane for guided tissue regeneration. <i>Materials Science and Engineering C</i> , 2018 , 84, 1488158 | 3.2 | 32 |
| 149 | Improving characterisation of human Multipotent Stromal Cells cultured in 2D and 3D: Design and evaluation of primer sets for accurate gene expression normalisation. <i>PLoS ONE</i> , 2018 , 13, e0209772 | 3.7 | 5 |
| 148 | Human menstrual blood: a renewable and sustainable source of stem cells for regenerative medicine. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 325 | 8.3 | 17 |
| 147 | Sacrificial Core-Based Electrospinning: a Facile and Versatile Approach to Fabricate Devices for Potential Cell and Tissue Encapsulation Applications. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 8 |
| 146 | A Perfused Microfluidic System to Study the Differentiation of Neural Stem Cells in vitro. <i>Cells Tissues Organs</i> , 2018 , 206, 157-164 | 2.1 | 1 |
| 145 | Research lab on 3D bioprinting of Zhejiang University. <i>Bio-Design and Manufacturing</i> , 2018 , 1, 211-214 | 4.7 | 1 |
| 144 | Microfluidic-Directed Hydrogel Fabrics Based on Interfibrillar Self-Healing Effects. <i>Chemistry of Materials</i> , 2018 , 30, 8822-8828 | 9.6 | 22 |
| 143 | On the use of 3D-printed flow distributors to control particle movement in a fluidized bed. <i>Chemical Engineering Research and Design</i> , 2018 , 140, 194-204 | 5.5 | 7 |
| 142 | A closer look at neuron interaction with track-etched microporous membranes. <i>Scientific Reports</i> , 2018 , 8, 15552 | 4.9 | 15 |
| 141 | Two-dimensional MXene incorporated chitosan mixed-matrix membranes for efficient solvent dehydration. <i>Journal of Membrane Science</i> , 2018 , 563, 625-632 | 9.6 | 81 |
| 140 | Transcriptomics of human multipotent mesenchymal stromal cells: Retrospective analysis and future prospects. <i>Biotechnology Advances</i> , 2017 , 35, 407-418 | 17.8 | 18 |
| 139 | Cryoprotection and banking of living cells in a 3D multiple emulsion-based carrier. <i>Biotechnology Journal</i> , 2017 , 12, 1600692 | 5.6 | 12 |
| 138 | Perfused Three-dimensional Organotypic Culture of Human Cancer Cells for Therapeutic Evaluation. <i>Scientific Reports</i> , 2017 , 7, 9408 | 4.9 | 11 |
| 137 | Fabrication and characterization of conductive poly (3,4-ethylenedioxythiophene) doped with hyaluronic acid/poly (L-lactic acid) composite film for biomedical application. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 116-125 | 3.3 | 33 |

| | | | |
|-----|--|------|----|
| 136 | Morphological analysis of human umbilical vein endothelial cells co-cultured with ovarian cancer cells in 3D: An oncogenic angiogenesis assay. <i>PLoS ONE</i> , 2017 , 12, e0180296 | 3.7 | 9 |
| 135 | Hearts beating through decellularized scaffolds: whole-organ engineering for cardiac regeneration and transplantation. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 705-15 | 9.4 | 46 |
| 134 | Study of neuroprotective function of Ginkgo biloba extract (EGb761) derived-flavonoid monomers using a three-dimensional stem cell-derived neural model. <i>Biotechnology Progress</i> , 2016 , 32, 735-44 | 2.8 | 18 |
| 133 | Three-dimensional perfused tumour spheroid model for anti-cancer drug screening. <i>Biotechnology Letters</i> , 2016 , 38, 1389-95 | 3 | 25 |
| 132 | A computational analysis of the impact of mass transport and shear on three-dimensional stem cell cultures in perfused micro-bioreactors. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 163-174 | 3.2 | 6 |
| 131 | Electrical Property Characterization of Neural Stem Cells in Differentiation. <i>PLoS ONE</i> , 2016 , 11, e0158044 | 3.7 | 24 |
| 130 | Bioencapsulation technologies in tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016 , 14, e395-e403 | 1.8 | 15 |
| 129 | Network Receptive Field Modeling Reveals Extensive Integration and Multi-feature Selectivity in Auditory Cortical Neurons. <i>PLoS Computational Biology</i> , 2016 , 12, e1005113 | 5 | 30 |
| 128 | Pyroloquinoline quinone against glutamate-induced neurotoxicity in cultured neural stem and progenitor cells. <i>International Journal of Developmental Neuroscience</i> , 2015 , 42, 37-45 | 2.7 | 11 |
| 127 | Thermo-responsive microcarriers based on poly(N-isopropylacrylamide). <i>European Polymer Journal</i> , 2015 , 67, 346-364 | 5.2 | 39 |
| 126 | A polyhedral oligomeric silsesquioxane-based bilayered dermal scaffold seeded with adipose tissue-derived stem cells: in vitro assessment of biomechanical properties. <i>Journal of Surgical Research</i> , 2014 , 188, 361-72 | 2.5 | 16 |
| 125 | Three-dimensional perfused cell culture. <i>Biotechnology Advances</i> , 2014 , 32, 243-54 | 17.8 | 52 |
| 124 | Quantitative assessment of barriers to the clinical development and adoption of cellular therapies: A pilot study. <i>Journal of Tissue Engineering</i> , 2014 , 5, 2041731414551764 | 7.5 | 18 |
| 123 | Bioabsorbable stent quo vadis: a case for nano-theranostics. <i>Theranostics</i> , 2014 , 4, 514-33 | 12.1 | 10 |
| 122 | Effects of cryopreservation on human mesenchymal stem cells attached to different substrates. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 664-72 | 4.4 | 14 |
| 121 | Culture and differentiation of rat neural stem/progenitor cells in a three-dimensional collagen scaffold. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 170, 406-19 | 3.2 | 28 |
| 120 | Modified alumina nanofiber membranes for protein separation. <i>Separation and Purification Technology</i> , 2013 , 120, 239-244 | 8.3 | 39 |
| 119 | Stress fermentation strategies for the production of hyperthermostable superoxide dismutase from <i>Thermus thermophilus</i> HB27: effects of ions. <i>Extremophiles</i> , 2013 , 17, 995-1002 | 3 | 10 |

| | | | |
|-----|--|------|----|
| 118 | 4th Annual Predictive Toxicology Summit 2012. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2013 , 9, 1061-6 | 5.5 | |
| 117 | Biological engineering. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 1-2 | 5.4 | 4 |
| 116 | A novel membrane based process to isolate recombinant human chemokine receptor CCR3 produced in Escherichia coli. <i>Journal of Membrane Science</i> , 2013 , 425-426, 98-104 | 9.6 | |
| 115 | High Photocatalytic Activity of Fe ₃ O ₄ -SiO ₂ -TiO ₂ Functional Particles with Core-Shell Structure. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8 | 3.2 | 7 |
| 114 | A multi-paradigm modeling framework to simulate dynamic reciprocity in a bioreactor. <i>PLoS ONE</i> , 2013 , 8, e59671 | 3.7 | 21 |
| 113 | Development of in vitro 3D TissueFlex [®] islet model for diabetic drug efficacy testing. <i>PLoS ONE</i> , 2013 , 8, e72612 | 3.7 | 16 |
| 112 | Effects of osmotic and cold shock on adherent human mesenchymal stem cells during cryopreservation. <i>Journal of Biotechnology</i> , 2012 , 162, 224-31 | 3.7 | 34 |
| 111 | Electrophysiological properties and synaptic function of mesenchymal stem cells during neurogenic differentiation - a mini-review. <i>International Journal of Artificial Organs</i> , 2012 , 35, 323-37 | 1.9 | 16 |
| 110 | Characterization of photosystem I from spinach: effect of solution pH. <i>Photosynthesis Research</i> , 2012 , 112, 63-70 | 3.7 | 11 |
| 109 | Isolation of Immunoglobulin from Chicken Egg Yolk using Single-Stage Ultrafiltration with 100-kDa Regenerated Cellulose Membranes. <i>International Journal of Food Engineering</i> , 2011 , 7, | 1.9 | 1 |
| 108 | Effect of the bubbling regimes on the performance and energy cost of flat sheet MBRs. <i>Desalination</i> , 2011 , 283, 221-226 | 10.3 | 27 |
| 107 | Purification and characterization of superoxide dismutase from garlic. <i>Food and Bioproducts Processing</i> , 2011 , 89, 294-299 | 4.9 | 11 |
| 106 | Dead cell counts during serum cultivation are underestimated by the fluorescent live/dead assay. <i>Biotechnology Journal</i> , 2011 , 6, 513-8 | 5.6 | 27 |
| 105 | A novel membrane based process to isolate photosystem-I membrane complex from spinach. <i>Photosynthesis Research</i> , 2011 , 107, 187-93 | 3.7 | 4 |
| 104 | Enzymatic hydrolysis of cellulose in a membrane bioreactor: assessment of operating conditions. <i>Bioprocess and Biosystems Engineering</i> , 2011 , 34, 525-32 | 3.7 | 14 |
| 103 | Purification and characterization of a hyperthermostable Mn-superoxide dismutase from <i>Thermus thermophilus</i> HB27. <i>Extremophiles</i> , 2011 , 15, 221-6 | 3 | 37 |
| 102 | Production of cold-adapted amylase by marine bacterium <i>Wangia</i> sp. C52: optimization, modeling, and partial characterization. <i>Marine Biotechnology</i> , 2011 , 13, 837-44 | 3.4 | 18 |
| 101 | Perfusion culture enhanced human endometrial stromal cell growth in alginate-multivalent integrin $\alpha 5 \beta 1$ ligand scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 211-20 | 5.4 | 10 |

| | | | |
|-----|--|------|----|
| 100 | Co-culture of hematopoietic stem cells and mesenchymal stem cells derived from umbilical cord blood using human autoserum. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 840-849 | 1.3 | 1 |
| 99 | Carbon nanotube length reduction techniques, and characterisation of oxidation state using quasi-elastic light scattering. <i>Carbon</i> , 2011 , 49, 862-868 | 10.4 | 15 |
| 98 | Transmission of and fouling by long chain molecules during crossflow microfiltration of algal suspensions: influence of shear. <i>Desalination and Water Treatment</i> , 2011 , 35, 138-149 | | 4 |
| 97 | Flat sheet MBRs: analysis of TMP rise and surface mass transfer coefficient. <i>Desalination and Water Treatment</i> , 2011 , 35, 82-91 | | 8 |
| 96 | Membrane Application in Soy Sauce Processing 2010 , 45-62 | | |
| 95 | Enhancement of adipose-derived stem cell differentiation in scaffolds with IGF-I gene impregnation under dynamic microenvironment. <i>Stem Cells and Development</i> , 2010 , 19, 1547-56 | 4.4 | 22 |
| 94 | Enhancement of cell recovery for dissociated human embryonic stem cells after cryopreservation. <i>Biotechnology Progress</i> , 2010 , 26, 781-8 | 2.8 | 26 |
| 93 | Preparation, fabrication and biocompatibility of novel injectable temperature-sensitive chitosan/glycerophosphate/collagen hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2835-42 | 4.5 | 50 |
| 92 | The roles of apoptotic pathways in the low recovery rate after cryopreservation of dissociated human embryonic stem cells. <i>Biotechnology Progress</i> , 2010 , 26, 827-37 | 2.8 | 77 |
| 91 | Cryopreservation of human bone marrow-derived mesenchymal stem cells with reduced dimethylsulfoxide and well-defined freezing solutions. <i>Biotechnology Progress</i> , 2010 , 26, 1635-43 | 2.8 | 66 |
| 90 | A new membrane based process to isolate immunoglobulin from chicken egg yolk. <i>Food Chemistry</i> , 2010 , 122, 747-752 | 8.5 | 12 |
| 89 | Isolation and purification of superoxide dismutase from garlic using two-stage ultrafiltration. <i>Journal of Membrane Science</i> , 2010 , 352, 231-238 | 9.6 | 8 |
| 88 | Analysis of mesenchymal stem cell differentiation in vitro using classification association rule mining. <i>Journal of Bioinformatics and Computational Biology</i> , 2009 , 7, 905-30 | 1 | 0 |
| 87 | Effects of encapsulated rabbit mesenchymal stem cells on ex vivo expansion of human umbilical cord blood hematopoietic stem/progenitor cells. <i>Journal of Microencapsulation</i> , 2009 , 26, 130-42 | 3.4 | 11 |
| 86 | Optimization of primary culture condition for mesenchymal stem cells derived from umbilical cord blood with factorial design. <i>Biotechnology Progress</i> , 2009 , 25, 499-507 | 2.8 | 27 |
| 85 | ADSCs differentiated into cardiomyocytes in cardiac microenvironment. <i>Molecular and Cellular Biochemistry</i> , 2009 , 324, 117-29 | 4.2 | 42 |
| 84 | Effective expansion of umbilical cord blood hematopoietic stem/progenitor cells by regulation of microencapsulated osteoblasts under hypoxic condition. <i>Biotechnology Letters</i> , 2009 , 31, 923-8 | 3 | 10 |
| 83 | Development of high throughput optical sensor array for on-line pH monitoring in micro-scale cell culture environment. <i>Biomedical Microdevices</i> , 2009 , 11, 265-73 | 3.7 | 38 |

| | | | |
|----|--|------|-----|
| 82 | Collagen-chitosan polymer as a scaffold for the proliferation of human adipose tissue-derived stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 799-808 | 4.5 | 62 |
| 81 | The elastin network: its relationship with collagen and cells in articular cartilage as visualized by multiphoton microscopy. <i>Journal of Anatomy</i> , 2009 , 215, 682-91 | 2.9 | 69 |
| 80 | Effect of bubble size and frequency on mass transfer in flat sheet MBR. <i>Journal of Membrane Science</i> , 2009 , 332, 30-37 | 9.6 | 64 |
| 79 | Separation of proteins using sandwich membranes. <i>Desalination</i> , 2009 , 245, 597-605 | 10.3 | 9 |
| 78 | Ex vivo expansion of adipose tissue-derived stem cells in spinner flasks. <i>Biotechnology Journal</i> , 2009 , 4, 1198-209 | 5.6 | 23 |
| 77 | Limitations of resistance-in-series model for fouling analysis in membrane bioreactors: A cautionary note. <i>Desalination and Water Treatment</i> , 2009 , 8, 31-36 | | 18 |
| 76 | Application of Classification Association Rule Mining for Mammalian Mesenchymal Stem Cell Differentiation. <i>Lecture Notes in Computer Science</i> , 2009 , 51-61 | 0.9 | 1 |
| 75 | Application of microdialysis in tissue engineering monitoring. <i>Progress in Natural Science: Materials International</i> , 2008 , 18, 503-511 | 3.6 | 11 |
| 74 | 3-D Numerical Simulation of Temperature and Concentration Field 2008 , | | 1 |
| 73 | Effect of pumping methods on transmembrane pressure, fluid balance and relative recovery in microdialysis. <i>Journal of Membrane Science</i> , 2008 , 310, 237-245 | 9.6 | 11 |
| 72 | A high throughput perfusion-based microbioreactor platform integrated with pneumatic micropumps for three-dimensional cell culture. <i>Biomedical Microdevices</i> , 2008 , 10, 309-19 | 3.7 | 81 |
| 71 | Cell carrier function of hollow-fiber membrane in rotating wall vessel bioreactor. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 34-39 | | |
| 70 | Noninvasive 3D vital imaging and characterization of notochordal cells of the intervertebral disc by femtosecond near-infrared two-photon laser scanning microscopy and spatial-volume rendering. <i>Microscopy Research and Technique</i> , 2008 , 71, 298-304 | 2.8 | 22 |
| 69 | Adipose-derived stem cell: a better stem cell than BMSC. <i>Cell Biochemistry and Function</i> , 2008 , 26, 664-75 | 4.2 | 423 |
| 68 | Three-dimensional fabrication of engineered bone with human bio-derived bone scaffolds in a rotating wall vessel bioreactor. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 323-32 | 5.4 | 54 |
| 67 | Nutrient gradients in engineered cartilage: metabolic kinetics measurement and mass transfer modeling. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 408-21 | 4.9 | 65 |
| 66 | Fractionation of Proteins Using Ultrafiltration: Developments and Challenges. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2008 , 13, 121-136 | | 9 |
| 65 | Some observations on the chemical cleaning of fouled membranes. <i>Desalination</i> , 2008 , 227, 132-138 | 10.3 | 32 |

| | | | |
|----|---|-----|-----|
| 64 | Tissue-Engineering Monitoring Using Microdialysis 2008 , 401-420 | | |
| 63 | Membrane fouling by cell-protein mixtures: in situ characterisation using multi-photon microscopy. <i>Biotechnology and Bioengineering</i> , 2007 , 96, 1083-91 | 4.9 | 12 |
| 62 | Separation of glucose oxidase and catalase using ultrafiltration with 300-kDa polyethersulfone membranes. <i>Journal of Membrane Science</i> , 2007 , 299, 222-228 | 9.6 | 17 |
| 61 | Microfibrils, elastin fibres and collagen fibres in the human intervertebral disc and bovine tail disc. <i>Journal of Anatomy</i> , 2007 , 210, 460-71 | 2.9 | 123 |
| 60 | Effect of neural stem cells on apoptosis of PC12 cells induced by serum deprivation. <i>Biotechnology Progress</i> , 2007 , 23, 952-7 | 2.8 | 5 |
| 59 | Studies on the use of hollow fibre membrane bioreactors for tissue generation by using rat bone marrow fibroblastic cells and a composite scaffold. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 641-8 | 4.5 | 29 |
| 58 | Neural network analysis of ex-vivo expansion of hematopoietic stem cells. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 1404-13 | 4.7 | 2 |
| 57 | Modelling transdermal delivery of high molecular weight drugs from microneedle systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 2951-67 | 3 | 36 |
| 56 | Application of multiple parallel perfused microbioreactors and three-dimensional stem cell culture for toxicity testing. <i>Toxicology in Vitro</i> , 2007 , 21, 1318-24 | 3.6 | 50 |
| 55 | In situ 3D characterization of membrane fouling by yeast suspensions using two-photon femtosecond near infrared non-linear optical imaging. <i>Journal of Membrane Science</i> , 2006 , 280, 124-133 | 9.6 | 38 |
| 54 | Influence of perfusion on metabolism and matrix production by bovine articular chondrocytes in hydrogel scaffolds. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 1103-11 | 4.9 | 42 |
| 53 | Macrophage-mediated biodegradation of poly(DL-lactide-co-glycolide) in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 582-90 | 5.4 | 22 |
| 52 | Innate immune response to human bone marrow fibroblastic cell implantation in CB17 scid/beige mice. <i>Journal of Cellular Biochemistry</i> , 2006 , 98, 966-80 | 4.7 | 22 |
| 51 | Femtosecond two-photon high-resolution 3D imaging, spatial-volume rendering and microspectral characterization of immunolocalized MHC-II and mLangerin/CD207 antigens in the mouse epidermis. <i>Microscopy Research and Technique</i> , 2006 , 69, 767-75 | 2.8 | 14 |
| 50 | Ex vivo expansion of hematopoietic stem cells derived from umbilical cord blood in rotating wall vessel. <i>Journal of Biotechnology</i> , 2006 , 124, 592-601 | 3.7 | 82 |
| 49 | Monitoring of metabolite gradients in tissue-engineered constructs. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 637-48 | 4.1 | 18 |
| 48 | In situ three-dimensional characterization of membrane fouling by protein suspensions using multiphoton microscopy. <i>Langmuir</i> , 2006 , 22, 6266-72 | 4 | 41 |
| 47 | Effects of rapid cooling on articular cartilage. <i>Cryobiology</i> , 2006 , 52, 430-9 | 2.7 | 18 |

| | | | |
|----|---|------|-----|
| 46 | Multiphoton high-resolution 3D imaging of Langerhans cells and keratinocytes in the mouse skin model adopted for epidermal powdered immunization. <i>Journal of Investigative Dermatology</i> , 2006 , 126, 1541-8 | 4.3 | 38 |
| 45 | A Maxwell-Stefan-Couy-Debye model of the concentration profile of a charged solute in the polarisation layer. <i>Desalination</i> , 2006 , 192, 356-363 | 10.3 | 9 |
| 44 | Evaluation of fouling and concentration polarisation during protein ultrafiltration by pulsed sample injection technique. <i>Desalination</i> , 2006 , 199, 539-540 | 10.3 | 4 |
| 43 | Multiphoton microscopy ¶ new insights into membrane fouling. <i>Desalination</i> , 2006 , 199, 23-25 | 10.3 | 3 |
| 42 | A Maxwell-Stefan-Dejaguin-Grahame model of the concentration profile of a charged solute in the polarisation layer. <i>Desalination</i> , 2006 , 200, 175-177 | 10.3 | 5 |
| 41 | Strategy to separate lysozyme and ovalbumin from CEW using UF. <i>Desalination</i> , 2006 , 200, 477-479 | 10.3 | 3 |
| 40 | Modelling nutrient transport in hollow fibre membrane bioreactors for growing three-dimensional bone tissue. <i>Journal of Membrane Science</i> , 2006 , 272, 169-178 | 9.6 | 66 |
| 39 | Monitoring of lactate and glucose levels in engineered cartilage construct by microdialysis. <i>Journal of Membrane Science</i> , 2006 , 273, 77-83 | 9.6 | 8 |
| 38 | Separation of lysozyme from chicken egg white using ultrafiltration. <i>Separation and Purification Technology</i> , 2006 , 48, 133-142 | 8.3 | 51 |
| 37 | An in line non-invasive optical system to monitor pH in cell and tissue culture. <i>Medical Engineering and Physics</i> , 2006 , 28, 468-74 | 2.4 | 20 |
| 36 | Fabrication and detection of tissue-engineered bones with bio-derived scaffolds in a rotating bioreactor. <i>Biotechnology and Applied Biochemistry</i> , 2006 , 45, 65-74 | 2.8 | 31 |
| 35 | Development of PDMS microbioreactor with well-defined and homogenous culture environment for chondrocyte 3-D culture. <i>Biomedical Microdevices</i> , 2006 , 8, 331-40 | 3.7 | 84 |
| 34 | Culture of neural stem cells in calcium alginate beads. <i>Biotechnology Progress</i> , 2006 , 22, 1683-9 | 2.8 | 25 |
| 33 | Culture of Neural Stem Cells in Calcium Alginate Beads. <i>Biotechnology Progress</i> , 2006 , 22, 1683-1689 | 2.8 | 115 |
| 32 | Fractionation of Lysozyme and Chicken Egg Albumin Using Ultrafiltration with 30-kDa Commercial Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7610-7616 | 3.9 | 15 |
| 31 | Enhancement of microfiltration of yeast suspensions using gas sparging ¶ effect of feed conditions. <i>Separation and Purification Technology</i> , 2005 , 41, 313-319 | 8.3 | 17 |
| 30 | Fractionation of bovine serum albumin and monoclonal antibody alemtuzumab using carrier phase ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 303-15 | 4.9 | 12 |
| 29 | Separation of monoclonal antibody alemtuzumab monomer and dimers using ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 422-32 | 4.9 | 26 |

| | | | |
|----|--|------|-----|
| 28 | Efficient characterisation of human cell-bioceramic interactions in vitro and in vivo by using enhanced GFP-labelled mesenchymal stem cells. <i>Biomaterials</i> , 2005 , 26, 5790-800 | 15.6 | 21 |
| 27 | Protein separation using ultrafiltration – an example of multi-scale complex systems. <i>Particuology: Science and Technology of Particles</i> , 2005 , 3, 343-348 | | 33 |
| 26 | Separation of human serum albumin and human immunoglobulins using carrier phase ultrafiltration. <i>Biotechnology Progress</i> , 2004 , 20, 1103-12 | 2.8 | 9 |
| 25 | Analysis on forces and movement of cultivated particles in a rotating wall vessel bioreactor. <i>Biochemical Engineering Journal</i> , 2004 , 18, 97-104 | 4.2 | 15 |
| 24 | Factors influencing the oxygen concentration gradient from the synovial surface of articular cartilage to the cartilage-bone interface: a modeling study. <i>Arthritis and Rheumatism</i> , 2004 , 50, 3915-24 | | 175 |
| 23 | Macrophagic response to human mesenchymal stem cell and poly(epsilon-caprolactone) implantation in nonobese diabetic/severe combined immunodeficient mice. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 538-48 | | 33 |
| 22 | Analysis of developing laminar pipe flow – an application to gas slug enhanced hollow fibre ultrafiltration. <i>Chemical Engineering Science</i> , 2004 , 59, 5975-5986 | 4.4 | 10 |
| 21 | Enhancement of ultrafiltration using gas sparging: a comparison of different membrane modules. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 249-253 | 3.5 | 35 |
| 20 | Parameter scanning ultrafiltration: rapid optimisation of protein separation. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 673-82 | 4.9 | 33 |
| 19 | Effect of freezing and thawing rates on denaturation of proteins in aqueous solutions. <i>Biotechnology and Bioengineering</i> , 2003 , 82, 684-90 | 4.9 | 232 |
| 18 | Measurement of the chondrocyte membrane permeability to Me2SO, glycerol and 1,2-propanediol. <i>Medical Engineering and Physics</i> , 2003 , 25, 573-9 | 2.4 | 30 |
| 17 | Modeling of the co-transport of cryoprotective agents in a porous medium as a model tissue. <i>Biotechnology Progress</i> , 2003 , 19, 972-81 | 2.8 | 8 |
| 16 | Intracellular pH changes in isolated bovine articular chondrocytes during the loading and removal of cryoprotective agents. <i>Cryobiology</i> , 2003 , 46, 161-73 | 2.7 | 13 |
| 15 | CFD modelling of gas-sparged ultrafiltration in tubular membranes. <i>Journal of Membrane Science</i> , 2002 , 210, 13-27 | 9.6 | 81 |
| 14 | Modeling of cryopreservation of engineered tissues with one-dimensional geometry. <i>Biotechnology Progress</i> , 2002 , 18, 354-61 | 2.8 | 22 |
| 13 | High-resolution plasma protein fractionation using ultrafiltration. <i>Desalination</i> , 2002 , 144, 301-306 | 10.3 | 46 |
| 12 | Design of cone-and-plate test cell for ultrafiltration. <i>Desalination</i> , 2002 , 146, 219-224 | 10.3 | 2 |
| 11 | Enhancing hollow fibre ultrafiltration using slug-flow – a hydrodynamic study. <i>Desalination</i> , 2002 , 146, 69-74 | 10.3 | 20 |

| | | | |
|----|--|-----|---------|
| 10 | Experimental study on the enhancement of yeast microfiltration with gas sparging. <i>Journal of Chemical Technology and Biotechnology</i> , 2001 , 76, 477-484 | 3.5 | 21 |
| 9 | Lysozyme separation by hollow-fibre ultrafiltration. <i>Biochemical Engineering Journal</i> , 2000 , 6, 19-24 | 4.2 | 66 |
| 8 | Effect of solution conditions on protein damage in foam. <i>Biochemical Engineering Journal</i> , 2000 , 4, 107-114 | 4.4 | 40 |
| 7 | Analysis of protein transport and polarization through membranes using pulsed sample injection technique. <i>Journal of Membrane Science</i> , 2000 , 175, 75-84 | 9.6 | 32 |
| 6 | Virus removal from bioproducts using ultrafiltration membranes modified with latex particle pretreatment. <i>Bioseparation</i> , 1998 , 7, 79-88 | | 8 |
| 5 | A Maxwell-Stefan approach to modelling the cross-flow ultrafiltration of protein solutions in tubular membranes. <i>Chemical Engineering Science</i> , 1998 , 53, 2153-2166 | 4.4 | 17 |
| 4 | Fractionation of BSA and lysozyme using ultrafiltration: Effect of gas sparging. <i>AIChE Journal</i> , 1998 , 44, 61-67 | 3.6 | 48 |
| 3 | Fractionation of BSA and Lysozyme Using Gas-Sparged Ultrafiltration in Hollow Fiber Membrane Modules. <i>Biotechnology Progress</i> , 1997 , 13, 869-872 | 2.8 | 18 |
| 2 | In Situ Characterization of Membrane Fouling and Cleaning Using a Multiphoton Microscope | | 151-174 |
| 1 | Tissue Engineering with Membranes | | 407-433 |