

Zhanfeng Cui

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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	Adipose-derived stem cell: a better stem cell than BMSC. <i>Cell Biochemistry and Function</i> , 2008 , 26, 664-75	4.2	423
188	RT-LAMP for rapid diagnosis of coronavirus SARS-CoV-2. <i>Microbial Biotechnology</i> , 2020 , 13, 950-961	6.3	244
187	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
186	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
185	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
184	Culture of Neural Stem Cells in Calcium Alginate Beads. <i>Biotechnology Progress</i> , 2006 , 22, 1683-1689	2.8	115
183	Development of PDMS microreactor with well-defined and homogenous culture environment for chondrocyte 3-D culture. <i>Biomedical Microdevices</i> , 2006 , 8, 331-40	3.7	84
182	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
181	A high throughput perfusion-based microreactor platform integrated with pneumatic micropumps for three-dimensional cell culture. <i>Biomedical Microdevices</i> , 2008 , 10, 309-19	3.7	81
180	CFD modelling of gas-sparged ultrafiltration in tubular membranes. <i>Journal of Membrane Science</i> , 2002 , 210, 13-27	9.6	81
179	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
178	3D bioprinting: an emerging technology full of opportunities and challenges. <i>Bio-Design and Manufacturing</i> , 2018 , 1, 2-13	4.7	78
177	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
176	3D Bioprinting: A Novel Avenue for Manufacturing Tissues and Organs. <i>Engineering</i> , 2019 , 5, 777-794	9.7	74
175	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
174	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
173	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

172	Lysozyme separation by hollow-fibre ultrafiltration. <i>Biochemical Engineering Journal</i> , 2000 , 6, 19-24	4.2	66
171	Nutrient gradients in engineered cartilage: metabolic kinetics measurement and mass transfer modeling. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 408-21	4.9	65
170	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
169	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
168	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
167	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
166	Three-dimensional perfused cell culture. <i>Biotechnology Advances</i> , 2014 , 32, 243-54	17.8	52
165	Separation of lysozyme from chicken egg white using ultrafiltration. <i>Separation and Purification Technology</i> , 2006 , 48, 133-142	8.3	51
164	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
163	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
162	Fractionation of BSA and lysozyme using ultrafiltration: Effect of gas sparging. <i>AIChE Journal</i> , 1998 , 44, 61-67	3.6	48
161	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
160	High-resolution plasma protein fractionation using ultrafiltration. <i>Desalination</i> , 2002 , 144, 301-306	10.3	46
159	ADSCs differentiated into cardiomyocytes in cardiac microenvironment. <i>Molecular and Cellular Biochemistry</i> , 2009 , 324, 117-29	4.2	42
158	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
157	In situ three-dimensional characterization of membrane fouling by protein suspensions using multiphoton microscopy. <i>Langmuir</i> , 2006 , 22, 6266-72	4	41
156	Effect of solution conditions on protein damage in foam. <i>Biochemical Engineering Journal</i> , 2000 , 4, 107-114	4.4	40
155	Thermo-responsive microcarriers based on poly(N-isopropylacrylamide). <i>European Polymer Journal</i> , 2015 , 67, 346-364	5.2	39

154	Modified alumina nanofiber membranes for protein separation. <i>Separation and Purification Technology</i> , 2013 , 120, 239-244	8.3	39
153	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
152	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
151	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
150	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
149	Purification and characterization of a hyperthermostable Mn-superoxide dismutase from <i>Thermus thermophilus</i> HB27. <i>Extremophiles</i> , 2011 , 15, 221-6	3	37
148	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
147	Neural tissue engineering with structured hydrogels in CNS models and therapies. <i>Biotechnology Advances</i> , 2020 , 42, 107370	17.8	36
146	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
145	3D bioprinting for artificial cornea: Challenges and perspectives. <i>Medical Engineering and Physics</i> , 2019 , 71, 68-78	2.4	34
144	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
143	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
142	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
141	Parameter scanning ultrafiltration: rapid optimisation of protein separation. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 673-82	4.9	33
140	Protein separation using ultrafiltration: An example of multi-scale complex systems. <i>Particuology: Science and Technology of Particles</i> , 2005 , 3, 343-348		33
139	Some observations on the chemical cleaning of fouled membranes. <i>Desalination</i> , 2008 , 227, 132-138	10.3	32
138	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
137	3D-printed membrane for guided tissue regeneration. <i>Materials Science and Engineering C</i> , 2018 , 84, 1488158	15.8	32

136	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
135	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
134	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
133	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
132	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
131	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
130	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
129	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
128	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
127	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
126	Enhancement of cell recovery for dissociated human embryonic stem cells after cryopreservation. <i>Biotechnology Progress</i> , 2010 , 26, 781-8	2.8	26
125	Separation of monoclonal antibody alemtuzumab monomer and dimers using ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 422-32	4.9	26
124	Three-dimensional perfused tumour spheroid model for anti-cancer drug screening. <i>Biotechnology Letters</i> , 2016 , 38, 1389-95	3	25
123	Culture of neural stem cells in calcium alginate beads. <i>Biotechnology Progress</i> , 2006 , 22, 1683-9	2.8	25
122	Electrical Property Characterization of Neural Stem Cells in Differentiation. <i>PLoS ONE</i> , 2016 , 11, e0158044	3.7	24
121	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
120	Ex vivo expansion of adipose tissue-derived stem cells in spinner flasks. <i>Biotechnology Journal</i> , 2009 , 4, 1198-209	5.6	23
119	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

118	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
117	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
116	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
115	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
114	Modeling of cryopreservation of engineered tissues with one-dimensional geometry. <i>Biotechnology Progress</i> , 2002 , 18, 354-61	2.8	22
113	Microfluidic-Directed Hydrogel Fabrics Based on Interfibrillar Self-Healing Effects. <i>Chemistry of Materials</i> , 2018 , 30, 8822-8828	9.6	22
112	A multi-paradigm modeling framework to simulate dynamic reciprocity in a bioreactor. <i>PLoS ONE</i> , 2013 , 8, e59671	3.7	21
111	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
110	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
109	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
108	Enhancing hollow fibre ultrafiltration using slug-flow in hydrodynamic study. <i>Desalination</i> , 2002 , 146, 69-74	10.3	20
107	Transcriptomics of human multipotent mesenchymal stromal cells: Retrospective analysis and future prospects. <i>Biotechnology Advances</i> , 2017 , 35, 407-418	17.8	18
106	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
105	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
104	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
103	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
102	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
101	Monitoring of metabolite gradients in tissue-engineered constructs. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 637-48	4.1	18

100	Effects of rapid cooling on articular cartilage. <i>Cryobiology</i> , 2006 , 52, 430-9	2.7	18
99	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
98	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
97	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
96	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
95	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
94	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
93	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
92	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
91	Development of in vitro 3D TissueFlex islet model for diabetic drug efficacy testing. <i>PLoS ONE</i> , 2013 , 8, e72612	3.7	16
90	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
89	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
88	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
87	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
86	Bioencapsulation technologies in tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016 , 14, e395-e403	1.8	15
85	A closer look at neuron interaction with track-etched microporous membranes. <i>Scientific Reports</i> , 2018 , 8, 15552	4.9	15
84	Aligned electrospun fibers for neural patterning. <i>Biotechnology Letters</i> , 2018 , 40, 601-607	3	14
83	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

82	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
81	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
80	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
79	Defensive Function of Transposable Elements in Bacteria. <i>ACS Synthetic Biology</i> , 2019 , 8, 2141-2151	5.7	13
78	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
77	Cryoprotection and banking of living cells in a 3D multiple emulsion-based carrier. <i>Biotechnology Journal</i> , 2017 , 12, 1600692	5.6	12
76	A new membrane based process to isolate immunoglobulin from chicken egg yolk. <i>Food Chemistry</i> , 2010 , 122, 747-752	8.5	12
75	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
74	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
73	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
72	(CD166) as a gene expression marker for human mesenchymal stromal cell characterisation. <i>Gene: X</i> , 2020 , 5, 100031	2.1	11
71	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
70	Perfused Three-dimensional Organotypic Culture of Human Cancer Cells for Therapeutic Evaluation. <i>Scientific Reports</i> , 2017 , 7, 9408	4.9	11
69	Characterization of photosystem I from spinach: effect of solution pH. <i>Photosynthesis Research</i> , 2012 , 112, 63-70	3.7	11
68	Purification and characterization of superoxide dismutase from garlic. <i>Food and Bioprocess Processing</i> , 2011 , 89, 294-299	4.9	11
67	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
66	Application of microdialysis in tissue engineering monitoring. <i>Progress in Natural Science: Materials International</i> , 2008 , 18, 503-511	3.6	11
65	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

64	Development of an in situ injectable hydrogel containing hyaluronic acid for neural regeneration. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 055005	3.5	10
63	3D-printed thick structured gelatin membrane for engineering of heterogeneous tissues. <i>Materials Letters</i> , 2018 , 217, 39-43	3.3	10
62	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
61	Bioabsorbable stent quo vadis: a case for nano-theranostics. <i>Theranostics</i> , 2014 , 4, 514-33	12.1	10
60	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
59	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
58	Analysis of developing laminar pipe flow in application to gas slug enhanced hollow fibre ultrafiltration. <i>Chemical Engineering Science</i> , 2004 , 59, 5975-5986	4.4	10
57	Separation of proteins using sandwich membranes. <i>Desalination</i> , 2009 , 245, 597-605	10.3	9
56	Fractionation of Proteins Using Ultrafiltration: Developments and Challenges. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2008 , 13, 121-136		9
55	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
54	Separation of human serum albumin and human immunoglobulins using carrier phase ultrafiltration. <i>Biotechnology Progress</i> , 2004 , 20, 1103-12	2.8	9
53	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
52	Flat sheet MBRs: analysis of TMP rise and surface mass transfer coefficient. <i>Desalination and Water Treatment</i> , 2011 , 35, 82-91		8
51	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
50	Virus removal from bioproducts using ultrafiltration membranes modified with latex particle pretreatment. <i>Bioseparation</i> , 1998 , 7, 79-88		8
49	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
48	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
47	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

46	Culture surfaces induce hypoxia-regulated genes in human mesenchymal stromal cells. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 035012	3.5	7
45	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
44	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
43	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
42	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
41	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
40	Clinical validation of optimised RT-LAMP for the diagnosis of SARS-CoV-2 infection. <i>Scientific Reports</i> , 2021 , 11, 16193	4.9	6
39	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
38	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
37	A Maxwell-Stefan-Debye-Hückel model of the concentration profile of a charged solute in the polarisation layer. <i>Desalination</i> , 2006 , 200, 175-177	10.3	5
36	Increased connectivity of hiPSC-derived neural networks in multiphase granular hydrogel scaffolds. <i>Bioactive Materials</i> , 2022 , 9, 358-372	16.7	5
35	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
34	An additive manufacturing approach to bioreactor design for mesenchymal stem cell culture. <i>Biochemical Engineering Journal</i> , 2020 , 156, 107515	4.2	4
33	Biological engineering. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 1-2	5.4	4
32	A novel membrane based process to isolate photosystem-I membrane complex from spinach. <i>Photosynthesis Research</i> , 2011 , 107, 187-93	3.7	4
31	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
30	Evaluation of fouling and concentration polarisation during protein ultrafiltration by pulsed sample injection technique. <i>Desalination</i> , 2006 , 199, 539-540	10.3	4
29	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

28	Multiphoton microscopy [New insights into membrane fouling. <i>Desalination</i> , 2006 , 199, 23-25	10.3	3
27	Strategy to separate lysozyme and ovalbumin from CEW using UF. <i>Desalination</i> , 2006 , 200, 477-479	10.3	3
26	Decision Support Tools for Regenerative Medicine: Systematic Review. <i>Journal of Medical Internet Research</i> , 2018 , 20, e12448	7.6	3
25	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
24	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
23	Neural network analysis of ex-vivo expansion of hematopoietic stem cells. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 1404-13	4.7	2
22	Design of cone-and-plate test cell for ultrafiltration. <i>Desalination</i> , 2002 , 146, 219-224	10.3	2
21	A tri-component knee plug for the 3rd generation of autologous chondrocyte implantation. <i>Scientific Reports</i> , 2020 , 10, 17048	4.9	2
20	Design of a new 3D-printed joint plug. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019 , 14, e2360	1.3	1
19	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
18	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
17	3-D Numerical Simulation of Temperature and Concentration Field 2008 ,		1
16	Decisions in the Development Lifecycle of Cell and Gene Therapies 2020 , 597-632		1
15	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
14	Electrospinning and electrospaying in biomedical engineering 2021 , 375-393		1
13	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
12	Research lab on 3D bioprinting of Zhejiang University. <i>Bio-Design and Manufacturing</i> , 2018 , 1, 211-214	4.7	1
11	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

- 10 4th Annual Predictive Toxicology Summit 2012. *Expert Opinion on Drug Metabolism and Toxicology*, **2013**, 9, 1061-6 5.5
- 9 A novel membrane based process to isolate recombinant human chemokine receptor CCR3 produced in *Escherichia coli*. *Journal of Membrane Science*, **2013**, 425-426, 98-104 9.6
- 8 Membrane Application in Soy Sauce Processing **2010**, 45-62
- 7 In Situ Characterization of Membrane Fouling and Cleaning Using a Multiphoton Microscope 151-174
- 6 Tissue Engineering with Membranes 407-433
- 5 Cell carrier function of hollow-fiber membrane in rotating wall vessel bioreactor. *Frontiers of Chemical Engineering in China*, **2008**, 2, 34-39
- 4 Impact of fast-track regulatory designations on strategic commercialization decisions for autologous cell therapies.. *Regenerative Medicine*, **2022**, 17, 155-174 2.5
- 3 Tissue-Engineering Monitoring Using Microdialysis **2008**, 401-420
- 2 Numerical study of the formation and drying kinetics of a capillary bridge of trehalose solution between two parallel hydrophilic fibres. *Chemical Engineering Science*, **2020**, 226, 115849 4.4
- 1 Cryopreservation: Organ Preservation **2019**, 689-708