

Zhanfeng Cui

List of Publications by Year in descending order

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194
papers

6,923
citations

61984

43
h-index

82547

72
g-index

202
all docs

202
docs citations

202
times ranked

9874
citing authors

#	ARTICLE	IF	CITATIONS
1	Adipose-derived stem cell: a better stem cell than BMSC. <i>Cell Biochemistry and Function</i> , 2008, 26, 664-675.	2.9	499
2	RT-LAMP for rapid diagnosis of coronavirus SARS-CoV-2. <i>Microbial Biotechnology</i> , 2020, 13, 950-961.	4.2	408
3	Effect of freezing and thawing rates on denaturation of proteins in aqueous solutions. <i>Biotechnology and Bioengineering</i> , 2003, 82, 684-690.	3.3	291
4	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, 3915-3924.	6.7	219
5	Microfibrils, elastin fibres and collagen fibres in the human intervertebral disc and bovine tail disc. <i>Journal of Anatomy</i> , 2007, 210, 460-471.	1.5	144
6	Two-dimensional MXene incorporated chitosan mixed-matrix membranes for efficient solvent dehydration. <i>Journal of Membrane Science</i> , 2018, 563, 625-632.	8.2	135
7	3D Bioprinting: A Novel Avenue for Manufacturing Tissues and Organs. <i>Engineering</i> , 2019, 5, 777-794.	6.7	133
8	Culture of Neural Stem Cells in Calcium Alginate Beads. <i>Biotechnology Progress</i> , 2006, 22, 1683-1689.	2.6	123
9	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.	12.7	118
10	3D bioprinting: an emerging technology full of opportunities and challenges. <i>Bio-Design and Manufacturing</i> , 2018, 1, 2-13.	7.7	110
11	The roles of apoptotic pathways in the low recovery rate after cryopreservation of dissociated human embryonic stem cells. <i>Biotechnology Progress</i> , 2010, 26, 827-837.	2.6	99
12	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.	3.8	96
13	Development of PDMS microbio reactor with well-defined and homogenous culture environment for chondrocyte 3-D culture. <i>Biomedical Microdevices</i> , 2006, 8, 331-340.	2.8	96
14	CFD modelling of gas-sparged ultrafiltration in tubular membranes. <i>Journal of Membrane Science</i> , 2002, 210, 13-27.	8.2	92
15	Cryopreservation of human bone marrow-derived mesenchymal stem cells with reduced dimethylsulfoxide and well-defined freezing solutions. <i>Biotechnology Progress</i> , 2010, 26, 1635-1643.	2.6	87
16	A high throughput perfusion-based microbio reactor platform integrated with pneumatic micropumps for three-dimensional cell culture. <i>Biomedical Microdevices</i> , 2008, 10, 309-319.	2.8	86
17	The elastin network: its relationship with collagen and cells in articular cartilage as visualized by multiphoton microscopy. <i>Journal of Anatomy</i> , 2009, 215, 682-691.	1.5	80
18	Neural tissue engineering with structured hydrogels in CNS models and therapies. <i>Biotechnology Advances</i> , 2020, 42, 107370.	11.7	78

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19	Lysozyme separation by hollow-fibre ultrafiltration. <i>Biochemical Engineering Journal</i> , 2000, 6, 19-24.	3.6	74
20	Nutrient gradients in engineered cartilage: Metabolic kinetics measurement and mass transfer modeling. <i>Biotechnology and Bioengineering</i> , 2008, 101, 408-421.	3.3	74
21	Effect of bubble size and frequency on mass transfer in flat sheet MBR. <i>Journal of Membrane Science</i> , 2009, 332, 30-37.	8.2	74
22	Modelling nutrient transport in hollow fibre membrane bioreactors for growing three-dimensional bone tissue. <i>Journal of Membrane Science</i> , 2006, 272, 169-178.	8.2	71
23	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.	3.6	66
24	Separation of lysozyme from chicken egg white using ultrafiltration. <i>Separation and Purification Technology</i> , 2006, 48, 133-142.	7.9	65
25	Three-dimensional perfused cell culture. <i>Biotechnology Advances</i> , 2014, 32, 243-254.	11.7	64
26	3D bioprinting for artificial cornea: Challenges and perspectives. <i>Medical Engineering and Physics</i> , 2019, 71, 68-78.	1.7	61
27	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, 86A, 323-332.	4.0	60
28	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.	7.1	59
29	Application of multiple parallel perfused microbioreactors and three-dimensional stem cell culture for toxicity testing. <i>Toxicology in Vitro</i> , 2007, 21, 1318-1324.	2.4	57
30	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.	8.2	57
31	Network Receptive Field Modeling Reveals Extensive Integration and Multi-feature Selectivity in Auditory Cortical Neurons. <i>PLoS Computational Biology</i> , 2016, 12, e1005113.	3.2	56
32	Hearts beating through decellularized scaffolds: whole-organ engineering for cardiac regeneration and transplantation. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 705-715.	9.0	56
33	Fractionation of BSA and lysozyme using ultrafiltration: Effect of gas sparging. <i>AIChE Journal</i> , 1998, 44, 61-67.	3.6	54
34	Preparation, fabrication and biocompatibility of novel injectable temperature-sensitive chitosan/glycerophosphate/collagen hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2835-2842.	3.6	53
35	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.	2.2	52
36	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.	11.4	51

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37	High-resolution plasma protein fractionation using ultrafiltration. <i>Desalination</i> , 2002, 144, 301-306.	8.2	49
38	In Situ Three-Dimensional Characterization of Membrane Fouling by Protein Suspensions Using Multiphoton Microscopy. <i>Langmuir</i> , 2006, 22, 6266-6272.	3.5	49
39	Modified alumina nanofiber membranes for protein separation. <i>Separation and Purification Technology</i> , 2013, 120, 239-244.	7.9	49
40	Thermo-responsive microcarriers based on poly(N-isopropylacrylamide). <i>European Polymer Journal</i> , 2015, 67, 346-364.	5.4	48
41	Effect of solution conditions on protein damage in foam. <i>Biochemical Engineering Journal</i> , 2000, 4, 107-114.	3.6	47
42	Effects of osmotic and cold shock on adherent human mesenchymal stem cells during cryopreservation. <i>Journal of Biotechnology</i> , 2012, 162, 224-231.	3.8	47
43	Development of high throughput optical sensor array for on-line pH monitoring in micro-scale cell culture environment. <i>Biomedical Microdevices</i> , 2009, 11, 265-273.	2.8	46
44	3D-printed membrane for guided tissue regeneration. <i>Materials Science and Engineering C</i> , 2018, 84, 148-158.	7.3	46
45	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.	8.2	45
46	ADSCs differentiated into cardiomyocytes in cardiac microenvironment. <i>Molecular and Cellular Biochemistry</i> , 2009, 324, 117-129.	3.1	45
47	Influence of perfusion on metabolism and matrix production by bovine articular chondrocytes in hydrogel scaffolds. <i>Biotechnology and Bioengineering</i> , 2006, 93, 1103-1111.	3.3	44
48	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, 1541-1548.	0.7	43
49	Purification and characterization of a hyperthermostable Mn-superoxide dismutase from <i>Thermus thermophilus</i> HB27. <i>Extremophiles</i> , 2011, 15, 221-226.	2.3	43
50	Enhancement of ultrafiltration using gas sparging: a comparison of different membrane modules. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 249-253.	3.2	42
51	Microfluidic-Directed Hydrogel Fabrics Based on Interfibrillar Self-Healing Effects. <i>Chemistry of Materials</i> , 2018, 30, 8822-8828.	6.7	42
52	Modelling transdermal delivery of high molecular weight drugs from microneedle systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2951-2967.	3.4	41
53	Protein separation using ultrafiltration – an example of multi-scale complex systems. <i>Particuology: Science and Technology of Particles</i> , 2005, 3, 343-348.	0.4	40
54	Culture of Neural Stem Cells in Calcium Alginate Beads. <i>Biotechnology Progress</i> , 2006, 22, 1683-1689.	2.6	40

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55	Parameter scanning ultrafiltration: Rapid optimisation of protein separation. <i>Biotechnology and Bioengineering</i> , 2003, 81, 673-682.	3.3	37
56	Measurement of the chondrocyte membrane permeability to Me ₂ SO, glycerol and 1,2-propanediol. <i>Medical Engineering and Physics</i> , 2003, 25, 573-579.	1.7	37
57	Macrophagic response to human mesenchymal stem cell and poly(ϵ -caprolactone) implantation in nonobese diabetic/severe combined immunodeficient mice. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 538-548.	3.1	37
58	Human menstrual blood: a renewable and sustainable source of stem cells for regenerative medicine. <i>Stem Cell Research and Therapy</i> , 2018, 9, 325.	5.5	37
59	Analysis of protein transport and polarization through membranes using pulsed sample injection technique. <i>Journal of Membrane Science</i> , 2000, 175, 75-84.	8.2	36
60	Some observations on the chemical cleaning of fouled membranes. <i>Desalination</i> , 2008, 227, 132-138.	8.2	36
61	Selective Swelling of Electrospun Block Copolymers: From Perforated Nanofibers to High Flux and Responsive Ultrafiltration Membranes. <i>Macromolecules</i> , 2018, 51, 2283-2292.	4.8	36
62	Fabrication and detection of tissue-engineered bones with bio-derived scaffolds in a rotating bioreactor. <i>Biotechnology and Applied Biochemistry</i> , 2006, 45, 65.	3.1	34
63	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, 641-648.	3.6	33
64	Enhancement of cell recovery for dissociated human embryonic stem cells after cryopreservation. <i>Biotechnology Progress</i> , 2010, 26, 781-788.	2.6	33
65	Dead cell counts during serum cultivation are underestimated by the fluorescent live/dead assay. <i>Biotechnology Journal</i> , 2011, 6, 513-518.	3.5	33
66	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.	7.1	32
67	<i>Ex vivo</i> expansion of adipose tissue-derived stem cells in spinner flasks. <i>Biotechnology Journal</i> , 2009, 4, 1198-1209.	3.5	31
68	Effect of the bubbling regimes on the performance and energy cost of flat sheet MBRs. <i>Desalination</i> , 2011, 283, 221-226.	8.2	31
69	Culture and Differentiation of Rat Neural Stem/Progenitor Cells in a Three-Dimensional Collagen Scaffold. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 406-419.	2.9	31
70	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.	2.6	30
71	Three-dimensional perfused tumour spheroid model for anti-cancer drug screening. <i>Biotechnology Letters</i> , 2016, 38, 1389-1395.	2.2	30
72	Electrical Property Characterization of Neural Stem Cells in Differentiation. <i>PLoS ONE</i> , 2016, 11, e0158044.	2.5	29

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73	Experimental study on the enhancement of yeast microfiltration with gas sparging. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 477-484.	3.2	27
74	Separation of monoclonal antibody alemtuzumab monomer and dimers using ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005, 90, 422-432.	3.3	27
75	Defensive Function of Transposable Elements in Bacteria. <i>ACS Synthetic Biology</i> , 2019, 8, 2141-2151.	3.8	27
76	An in line non-invasive optical system to monitor pH in cell and tissue culture. <i>Medical Engineering and Physics</i> , 2006, 28, 468-474.	1.7	26
77	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, 2344.	4.1	26
78	Efficient characterisation of human cellâ€“bioceramic interactions in vitro and in vivo by using enhanced GFP-labelled mesenchymal stem cells. <i>Biomaterials</i> , 2005, 26, 5790-5800.	11.4	25
79	Macrophage-mediated biodegradation of poly(DL-lactide-co-glycolide) in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 582-590.	4.0	25
80	A Multi-Paradigm Modeling Framework to Simulate Dynamic Reciprocity in a Bioreactor. <i>PLoS ONE</i> , 2013, 8, e59671.	2.5	25
81	Study of neuroprotective function of <i>EGCG</i> derived flavonoid monomers using a three-dimensional stem cell-derived neural model. <i>Biotechnology Progress</i> , 2016, 32, 735-744.	2.6	25
82	Modeling of Cryopreservation of Engineered Tissues with One-Dimensional Geometry. <i>Biotechnology Progress</i> , 2002, 18, 354-361.	2.6	24
83	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.	2.2	24
84	Enhancement of Adipose-Derived Stem Cell Differentiation in Scaffolds with <i>IGF-I</i> Gene Impregnation Under Dynamic Microenvironment. <i>Stem Cells and Development</i> , 2010, 19, 1547-1556.	2.1	24
85	Development of an in situ injectable hydrogel containing hyaluronic acid for neural regeneration. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055005.	3.3	24
86	Monitoring of metabolite gradients in tissue-engineered constructs. <i>Journal of the Royal Society Interface</i> , 2006, 3, 637-648.	3.4	23
87	Innate immune response to human bone marrow fibroblastic cell implantation in CB17 scid/beige mice. <i>Journal of Cellular Biochemistry</i> , 2006, 98, 966-980.	2.6	23
88	Electrophysiological Properties and Synaptic Function of Mesenchymal Stem Cells during Neurogenic Differentiation â€“ a Mini-Review. <i>International Journal of Artificial Organs</i> , 2012, 35, 323-337.	1.4	23
89	Development of thermo-responsive polycaprolactone macrocarriers conjugated with Poly(N-isopropyl acrylamide) for cell culture. <i>Scientific Reports</i> , 2019, 9, 3477.	3.3	23
90	Enhancing hollow fibre ultrafiltration using slug-flow â€” a hydrodynamic study. <i>Desalination</i> , 2002, 146, 69-74.	8.2	22

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91	Effects of rapid cooling on articular cartilage. <i>Cryobiology</i> , 2006, 52, 430-439.	0.7	22
92	Transcriptomics of human multipotent mesenchymal stromal cells: Retrospective analysis and future prospects. <i>Biotechnology Advances</i> , 2017, 35, 407-418.	11.7	22
93	ALCAM (CD166) as a gene expression marker for human mesenchymal stromal cell characterisation. <i>Gene: X</i> , 2020, 763, 100031.	2.3	22
94	Fractionation of BSA and Lysozyme Using Gas-Sparged Ultrafiltration in Hollow Fiber Membrane Modules. <i>Biotechnology Progress</i> , 1997, 13, 869-872.	2.6	21
95	Production of Cold-Adapted Amylase by Marine Bacterium <i>Wangia</i> sp. C52: Optimization, Modeling, and Partial Characterization. <i>Marine Biotechnology</i> , 2011, 13, 837-844.	2.4	21
96	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, 361-372.	1.6	21
97	A closer look at neuron interaction with track-etched microporous membranes. <i>Scientific Reports</i> , 2018, 8, 15552.	3.3	21
98	Development of a rapid test kit for SARS-CoV-2: an example of product design. <i>Bio-Design and Manufacturing</i> , 2020, 3, 83-86.	7.7	21
99	Increased connectivity of hiPSC-derived neural networks in multiphase granular hydrogel scaffolds. <i>Bioactive Materials</i> , 2022, 9, 358-372.	15.6	21
100	Clinical validation of optimised RT-LAMP for the diagnosis of SARS-CoV-2 infection. <i>Scientific Reports</i> , 2021, 11, 16193.	3.3	21
101	Enhancement of microfiltration of yeast suspensions using gas sparging effect of feed conditions. <i>Separation and Purification Technology</i> , 2005, 41, 313-319.	7.9	20
102	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.	3.8	19
103	Analysis on forces and movement of cultivated particles in a rotating wall vessel bioreactor. <i>Biochemical Engineering Journal</i> , 2004, 18, 97-104.	3.6	19
104	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.	1.0	19
105	Carbon nanotube length reduction techniques, and characterisation of oxidation state using quasi-elastic light scattering. <i>Carbon</i> , 2011, 49, 862-868.	10.3	19
106	Quantitative assessment of barriers to the clinical development and adoption of cellular therapies: A pilot study. <i>Journal of Tissue Engineering</i> , 2014, 5, 204173141455176.	5.5	19
107	Bioencapsulation Technologies in Tissue Engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 395-403.	1.6	19
108	Perfused Three-dimensional Organotypic Culture of Human Cancer Cells for Therapeutic Evaluation. <i>Scientific Reports</i> , 2017, 7, 9408.	3.3	19

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109	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.	0.7	19
110	Separation of glucose oxidase and catalase using ultrafiltration with 300-kDa polyethersulfone membranes. <i>Journal of Membrane Science</i> , 2007, 299, 222-228.	8.2	18
111	Effects of cryopreservation on human mesenchymal stem cells attached to different substrates. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 664-672.	2.7	18
112	Aligned electrospun fibers for neural patterning. <i>Biotechnology Letters</i> , 2018, 40, 601-607.	2.2	18
113	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.	1.8	18
114	Fractionation of Lysozyme and Chicken Egg Albumin Using Ultrafiltration with 30-kDa Commercial Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7610-7616.	3.7	17
115	Development of In Vitro 3D TissueFlex [®] Islet Model for Diabetic Drug Efficacy Testing. <i>PLoS ONE</i> , 2013, 8, e72612.	2.5	17
116	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, 767-775.	2.2	16
117	Enzymatic hydrolysis of cellulose in a membrane bioreactor: assessment of operating conditions. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 525-532.	3.4	16
118	3D-printed thick structured gelatin membrane for engineering of heterogeneous tissues. <i>Materials Letters</i> , 2018, 217, 39-43.	2.6	16
119	Intracellular pH changes in isolated bovine articular chondrocytes during the loading and removal of cryoprotective agents. <i>Cryobiology</i> , 2003, 46, 161-173.	0.7	15
120	Effects of encapsulated rabbit mesenchymal stem cells on <i>ex vivo</i> expansion of human umbilical cord blood hematopoietic stem/progenitor cells. <i>Journal of Microencapsulation</i> , 2009, 26, 130-142.	2.8	15
121	Engineered method for directional growth of muscle sheets on electrospun fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1165-1176.	4.0	15
122	Virus removal from bioproducts using ultrafiltration membranes modified with latex particle pretreatment. <i>Bioseparation</i> , 1998, 7, 79-88.	0.7	14
123	Membrane fouling by cell-protein mixtures: In situ characterisation using multi-photon microscopy. <i>Biotechnology and Bioengineering</i> , 2007, 96, 1083-1091.	3.3	14
124	Pyroloquinoline quinone against glutamate-induced neurotoxicity in cultured neural stem and progenitor cells. <i>International Journal of Developmental Neuroscience</i> , 2015, 42, 37-45.	1.6	14
125	Fractionation of bovine serum albumin and monoclonal antibody alemtuzumab using carrier phase ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005, 90, 303-315.	3.3	13
126	A new membrane based process to isolate immunoglobulin from chicken egg yolk. <i>Food Chemistry</i> , 2010, 122, 747-752.	8.2	13

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127	Purification and characterization of superoxide dismutase from garlic. <i>Food and Bioprocess Technology</i> , 2011, 89, 294-299.	3.6	13
128	Cryoprotection and banking of living cells in a 3D multiple emulsion-based carrier. <i>Biotechnology Journal</i> , 2017, 12, 1600692.	3.5	13
129	Effect of pumping methods on transmembrane pressure, fluid balance and relative recovery in microdialysis. <i>Journal of Membrane Science</i> , 2008, 310, 237-245.	8.2	12
130	Fractionation of Proteins Using Ultrafiltration: Developments and Challenges. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2005, 13, 121-136.	0.0	12
131	Flat sheet MBRs: analysis of TMP rise and surface mass transfer coefficient. <i>Desalination and Water Treatment</i> , 2011, 35, 82-91.	1.0	12
132	Sacrificial Core-Based Electrospinning: A Facile and Versatile Approach to Fabricate Devices for Potential Cell and Tissue Encapsulation Applications. <i>Nanomaterials</i> , 2018, 8, 863.	4.1	12
133	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.	2.5	12
134	Reprogramming Synthetic Cells for Targeted Cancer Therapy. <i>ACS Synthetic Biology</i> , 2022, 11, 1349-1360.	3.8	12
135	Separation of human serum albumin and human immunoglobulins using carrier phase ultrafiltration. <i>Biotechnology Progress</i> , 2004, 20, 1103-1112.	2.6	11
136	Analysis of developing laminar pipe flow—an application to gas slug enhanced hollow fibre ultrafiltration. <i>Chemical Engineering Science</i> , 2004, 59, 5975-5986.	3.8	11
137	A Maxwell–Stefan–Gouy–Debye model of the concentration profile of a charged solute in the polarisation layer. <i>Desalination</i> , 2006, 192, 356-363.	8.2	11
138	Application of microdialysis in tissue engineering monitoring. <i>Progress in Natural Science: Materials International</i> , 2008, 18, 503-511.	4.4	11
139	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, 99A, 211-220.	4.0	11
140	Characterization of photosystem I from spinach: effect of solution pH. <i>Photosynthesis Research</i> , 2012, 112, 63-70.	2.9	11
141	Bioabsorbable Stent Quo Vadis: A Case for Nano-Theranostics. <i>Theranostics</i> , 2014, 4, 514-533.	10.0	11
142	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.	3.6	11
143	Modeling of the Co-Transport of Cryoprotective Agents in a Porous Medium as a Model Tissue. <i>Biotechnology Progress</i> , 2003, 19, 972-981.	2.6	10
144	Effective expansion of umbilical cord blood hematopoietic stem/progenitor cells by regulation of microencapsulated osteoblasts under hypoxic condition. <i>Biotechnology Letters</i> , 2009, 31, 923-928.	2.2	10

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145	Separation of proteins using sandwich membranes. <i>Desalination</i> , 2009, 245, 597-605.	8.2	10
146	Isolation and purification of superoxide dismutase from garlic using two-stage ultrafiltration. <i>Journal of Membrane Science</i> , 2010, 352, 231-238.	8.2	10
147	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.	2.3	10
148	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.	2.7	10
149	Fluid dynamic characterization of a fluidized bed perfusion bioreactor with CFD DEM simulation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2316-2330.	3.2	10
150	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.	5.6	10
151	Monitoring of lactate and glucose levels in engineered cartilage construct by microdialysis. <i>Journal of Membrane Science</i> , 2006, 273, 77-83.	8.2	9
152	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.	1.6	9
153	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.	3.5	7
154	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.	2.5	7
155	Culture surfaces induce hypoxia-regulated genes in human mesenchymal stromal cells. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 035012.	3.3	7
156	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.	3.3	7
157	Strengths, weaknesses, and applications of computational axial lithography in tissue engineering. <i>Bio-Design and Manufacturing</i> , 2020, 3, 5-6.	7.7	7
158	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.	8.2	6
159	Effect of Neural Stem Cells on Apoptosis of PC12 Cells Induced by Serum Deprivation. <i>Biotechnology Progress</i> , 2007, 23, 952-957.	2.6	6
160	An additive manufacturing approach to bioreactor design for mesenchymal stem cell culture. <i>Biochemical Engineering Journal</i> , 2020, 156, 107515.	3.6	6
161	Strategy to separate lysozyme and ovalbumin from CEW using UF. <i>Desalination</i> , 2006, 200, 477-479.	8.2	5
162	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.	1.0	5

#	ARTICLE	IF	CITATIONS
163	Biological engineering. Current Opinion in Chemical Engineering, 2013, 2, 1-2.	7.8	5
164	Electrospinning and electrospraying in biomedical engineering. , 2021, , 375-393.		5
165	Decision Support Tools for Regenerative Medicine: Systematic Review. Journal of Medical Internet Research, 2018, 20, e12448.	4.3	5
166	Application of Classification Association Rule Mining for Mammalian Mesenchymal Stem Cell Differentiation. Lecture Notes in Computer Science, 2009, , 51-61.	1.3	5
167	Evaluation of fouling and concentration polarisation during protein ultrafiltration by pulsed sample injection technique. Desalination, 2006, 199, 539-540.	8.2	4
168	Multiphoton microscopy “ new insights into membrane fouling. Desalination, 2006, 199, 23-25.	8.2	4
169	A novel membrane based process to isolate photosystem-I membrane complex from spinach. Photosynthesis Research, 2011, 107, 187-193.	2.9	4
170	Research lab on 3D bioprinting of Zhejiang University. Bio-Design and Manufacturing, 2018, 1, 211-214.	7.7	4
171	A tri-component knee plug for the 3rd generation of autologous chondrocyte implantation. Scientific Reports, 2020, 10, 17048.	3.3	4
172	Validation and scalability of homemade polycaprolactone macrobeads grafted with thermo-responsive poly(<i>N</i> -isopropylacrylamide) for mesenchymal stem cell expansion and harvesting. Biotechnology and Bioengineering, 2022, , .	3.3	3
173	Design of cone-and-plate test cell for ultrafiltration. Desalination, 2002, 146, 219-224.	8.2	2
174	Neural Network Analysis of Ex-vivo Expansion of Hematopoietic Stem Cells. Annals of Biomedical Engineering, 2007, 35, 1404-1413.	2.5	2
175	Co-culture of hematopoietic stem cells and mesenchymal stem cells derived from umbilical cord blood using human autoserum. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 840-849.	1.5	2
176	Unique journal: Bio-Design and Manufacturing. Bio-Design and Manufacturing, 2018, 1, 1-1.	7.7	2
177	Systematic review protocol: an assessment of the post-approval challenges of autologous CAR-T therapy delivery. BMJ Open, 2019, 9, e026172.	1.9	2
178	3-D Numerical Simulation of Temperature and Concentration Field. , 2008, , .		1
179	ANALYSIS OF MESENCHYMAL STEM CELL DIFFERENTIATION IN VITRO USING CLASSIFICATION ASSOCIATION RULE MINING. Journal of Bioinformatics and Computational Biology, 2009, 07, 905-930.	0.8	1
180	In Situ Characterization of Membrane Fouling and Cleaning Using a Multiphoton Microscope. , 0, , 151-174.		1

#	ARTICLE	IF	CITATIONS
181	Membrane Application in Soy Sauce Processing. , 2010, , 45-62.		1
182	Isolation of Immunoglobulin from Chicken Egg Yolk using Single-Stage Ultrafiltration with 100-kDa Regenerated Cellulose Membranes. International Journal of Food Engineering, 2011, 7, .	1.5	1
183	A Perfused Microfluidic System to Study the Differentiation of Neural Stem Cells in vitro. Cells Tissues Organs, 2018, 206, 157-164.	2.3	1
184	Design of a new 3Dâ€rinted joint plug. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2360.	1.5	1
185	Decisions in the Development Lifecycle of Cell and Gene Therapies. , 2020, , 597-632.		1
186	Cell carrier function of hollow-fiber membrane in rotating wall vessel bioreactor. Frontiers of Chemical Engineering in China, 2008, 2, 34-39.	0.6	0
187	Tissue Engineering with Membranes. , 0, , 407-433.		0
188	An association rule-based CLIPS program for interactive prediction of MSC differentiation in vitro. , 2010, , .		0
189	4th Annual predictive toxicology summit 2012. Expert Opinion on Drug Metabolism and Toxicology, 2013, 9, 1061-1066.	3.3	0
190	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.	8.2	0
191	Cryopreservation: Organ Preservation. , 2019, , 689-708.		0
192	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.	3.8	0
193	Tissue-Engineering Monitoring Using Microdialysis. , 2008, , 401-420.		0
194	Impact of fast-track regulatory designations on strategic commercialization decisions for autologous cell therapies. Regenerative Medicine, 2022, 17, 155-174.	1.7	0