

Karen Coopman

List of Publications by Year in descending order

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46
papers

2,019
citations

236925

25
h-index

243625

44
g-index

50
all docs

50
docs citations

50
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	The translation of cell-based therapies: clinical landscape and manufacturing challenges. <i>Regenerative Medicine</i> , 2015, 10, 49-64.	1.7	253
2	Culture of human mesenchymal stem cells on microcarriers in a 5Â stirred-tank bioreactor. <i>Biotechnology Letters</i> , 2013, 35, 1233-1245.	2.2	160
3	A potentially scalable method for the harvesting of hMSCs from microcarriers. <i>Biochemical Engineering Journal</i> , 2014, 85, 79-88.	3.6	127
4	Systematic microcarrier screening and agitated culture conditions improves human mesenchymal stem cell yield in bioreactors. <i>Biotechnology Journal</i> , 2016, 11, 473-486.	3.5	117
5	The physical characterisation of a microscale parallel bioreactor platform with an industrial CHO cell line expressing an IgG4. <i>Biochemical Engineering Journal</i> , 2013, 76, 25-36.	3.6	109
6	Large-scale expansion and exploitation of pluripotent stem cells for regenerative medicine purposes: beyond the T flask. <i>Regenerative Medicine</i> , 2012, 7, 71-84.	1.7	78
7	Agitation conditions for the culture and detachment of hMSCs from microcarriers in multiple bioreactor platforms. <i>Biochemical Engineering Journal</i> , 2016, 108, 24-29.	3.6	73
8	Characterization of human mesenchymal stem cells from multiple donors and the implications for large scale bioprocess development. <i>Biochemical Engineering Journal</i> , 2016, 108, 14-23.	3.6	72
9	Expansion, harvest and cryopreservation of human mesenchymal stem cells in a serum-free microcarrier process. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1696-1707.	3.3	71
10	The impact of cryopreservation on bone marrow-derived mesenchymal stem cells: a systematic review. <i>Journal of Translational Medicine</i> , 2019, 17, 397.	4.4	69
11	Temporal variation in CB2R levels following T lymphocyte activation: Evidence that cannabinoids modulate CXCL12-induced chemotaxis. <i>International Immunopharmacology</i> , 2007, 7, 360-371.	3.8	60
12	Scale-up of human mesenchymal stem cell culture: current technologies and future challenges. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 8-16.	7.8	58
13	Biocompatibility Assessment of Conducting PANI/Chitosan Nanofibers for Wound Healing Applications. <i>Polymers</i> , 2017, 9, 687.	4.5	58
14	Comparative Effects of the Endogenous Agonist Glucagon-Like Peptide-1 (GLP-1)-(7-36) Amide and the Small-Molecule Ago-Allosteric Agent "Compound 2" at the GLP-1 Receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 334, 795-808.	2.5	48
15	Residues within the Transmembrane Domain of the Glucagon-Like Peptide-1 Receptor Involved in Ligand Binding and Receptor Activation: Modelling the Ligand-Bound Receptor. <i>Molecular Endocrinology</i> , 2011, 25, 1804-1818.	3.7	45
16	Conductive PANI fibers and determining factors for the electrospinning window. <i>Polymer</i> , 2015, 77, 143-151.	3.8	42
17	Qualitative and quantitative demonstration of bead-to-bead transfer with bone marrow-derived human mesenchymal stem cells on microcarriers: Utilising the phenomenon to improve culture performance. <i>Biochemical Engineering Journal</i> , 2018, 135, 11-21.	3.6	41
18	Scalability and process transfer of mesenchymal stromal cell production from monolayer to microcarrier culture using human platelet lysate. <i>Cytotherapy</i> , 2016, 18, 523-535.	0.7	35

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19	Process development of human multipotent stromal cell microcarrier culture using an automated high-throughput microbioreactor. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2253-2266.	3.3	35
20	Serum-free process development: improving the yield and consistency of human mesenchymal stromal cell production. <i>Cytotherapy</i> , 2015, 17, 1524-1535.	0.7	34
21	Low temperature cell pausing: an alternative short-term preservation method for use in cell therapies including stem cell applications. <i>Biotechnology Letters</i> , 2014, 36, 201-209.	2.2	30
22	Amphipathic polymer-mediated uptake of trehalose for dimethyl sulfoxide-free human cell cryopreservation. <i>Cryobiology</i> , 2013, 67, 305-311.	0.7	29
23	Agitation and aeration of stirred-bioreactors for the microcarrier culture of human mesenchymal stem cells and potential implications for large-scale bioprocess development. <i>Biochemical Engineering Journal</i> , 2018, 136, 9-17.	3.6	28
24	Large-scale compatible methods for the preservation of human embryonic stem cells: Current perspectives. <i>Biotechnology Progress</i> , 2011, 27, 1511-1521.	2.6	25
25	The use of bioreactors as in vitro models in pharmaceutical research. <i>Drug Discovery Today</i> , 2013, 18, 922-935.	6.4	24
26	Quantitative assessment of the impact of cryopreservation on human bone marrow-derived mesenchymal stem cells: up to 24Ah post-thaw and beyond. <i>Stem Cell Research and Therapy</i> , 2020, 11, 540.	5.5	23
27	A quantitative approach for understanding small-scale human mesenchymal stem cell culture implications for large-scale bioprocess development. <i>Biotechnology Journal</i> , 2013, 8, 459-471.	3.5	21
28	Expansion of bone marrow-derived human mesenchymal stem/stromal cells (hMSCs) using a two-phase liquid/liquid system. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1577-1589.	3.2	21
29	The Role of Dissolved Oxygen Levels on Human Mesenchymal Stem Cell Culture Success, Regulatory Compliance, and Therapeutic Potential. <i>Stem Cells and Development</i> , 2018, 27, 1303-1321.	2.1	20
30	The effect of Me ₂ SO overexposure during cryopreservation on HOS TE85 and hMSC viability, growth and quality. <i>Cryobiology</i> , 2016, 73, 367-375.	0.7	19
31	From production to patient: challenges and approaches for delivering cell therapies. <i>Stembook</i> , 2014, , .	0.3	19
32	Differential regulation of prostaglandin E biosynthesis by interferon- β in colonic epithelial cells. <i>British Journal of Pharmacology</i> , 2004, 141, 1091-1097.	5.4	17
33	Multiparameter flow cytometry for the characterisation of extracellular markers on human mesenchymal stem cells. <i>Biotechnology Letters</i> , 2014, 36, 731-741.	2.2	16
34	Development of an optical system for the non-invasive tracking of stem cell growth on microcarriers. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2032-2042.	3.3	16
35	Expansion of human mesenchymal stem/stromal cells on temporary liquid microcarriers. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 930-940.	3.2	15
36	Chitosan & Conductive PANI/Chitosan Composite Nanofibers - Evaluation of Antibacterial Properties. <i>Current Nanomaterials</i> , 2019, 4, 6-20.	0.4	14

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37	Development of a process control strategy for the serum-free microcarrier expansion of human mesenchymal stem cells towards cost-effective and commercially viable manufacturing. <i>Biochemical Engineering Journal</i> , 2019, 141, 200-209.	3.6	14
38	Engineering considerations on the use of liquid/liquid two-phase systems as a cell culture platform. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1690-1698.	3.2	12
39	Understanding the contribution of operator measurement variability within Flow Cytometry data analysis for Quality Control of Cell and Gene Therapy manufacturing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 150, 106998.	5.0	9
40	Quantifying Operator Subjectivity within Flow Cytometry Data Analysis as a Source of Measurement Uncertainty and the Impact of Experience on Results. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2021, 75, 33-47.	0.5	8
41	Mixing theory for culture and harvest in bioreactors of human mesenchymal stem cells on microcarriers. <i>Theoretical Foundations of Chemical Engineering</i> , 2016, 50, 895-900.	0.7	6
42	The role of biopreservation in cell and gene therapy bioprocessing. <i>Cell & Gene Therapy Insights</i> , 2017, 3, 335-344.	0.1	5
43	Development of a hollow fibre-based renal module for active transport studies. <i>Journal of Artificial Organs</i> , 2021, 24, 473-484.	0.9	4
44	Assessment of Protocol Impact on Subjectivity Uncertainty When Analyzing Peripheral Blood Mononuclear Cell Flow Cytometry Data Files. <i>Methods and Protocols</i> , 2021, 4, 24.	2.0	3
45	Multiparameter flow cytometry for the characterization of human embryonic stem cells. <i>Biotechnology Letters</i> , 2013, 35, 55-65.	2.2	2
46	A liquid/liquid two phase system as an economic alternative for the large-scale expansion of bone marrow-derived human mesenchymal stem/stromal cells (hMSCs). <i>Journal of Biotechnology</i> , 2017, 256, S43.	3.8	0