

Mohamed Al-Rubeai

List of Publications by Year in descending order

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113
papers

8,528
citations

126907

33
h-index

48315

88
g-index

123
all docs

123
docs citations

123
times ranked

16618
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Selection methods for high-producing mammalian cell lines. <i>Trends in Biotechnology</i> , 2007, 25, 425-432.	9.3	219
3	Apoptosis in cell culture. <i>Current Opinion in Biotechnology</i> , 1998, 9, 152-156.	6.6	138
4	Cell death (apoptosis) in cell culture systems. <i>Trends in Biotechnology</i> , 1995, 13, 150-155.	9.3	135
5	Mechanisms and kinetics of monoclonal antibody synthesis and secretion in synchronous and asynchronous hybridoma cell cultures. <i>Journal of Biotechnology</i> , 1990, 16, 67-85.	3.8	133
6	Retroviral vectors for human gene delivery. <i>Biotechnology Advances</i> , 2002, 20, 1-31.	11.7	127
7	Prevention of hybridoma cell death by bcl-2 during suboptimal culture conditions. , 1997, 54, 1-16.		125
8	Uncoupling of cell growth and proliferation results in enhancement of productivity in p21CIP1-arrested CHO cells. <i>Biotechnology and Bioengineering</i> , 2004, 85, 741-749.	3.3	125
9	Use of intracellular pH and annexin-V flow cytometric assays to monitor apoptosis and its suppression by bcl-2 over-expression in hybridoma cell culture. <i>Journal of Immunological Methods</i> , 1998, 221, 43-57.	1.4	120
10	Specific monoclonal antibody productivity and the cell cycle-comparisons of batch, continuous and perfusion cultures. <i>Cytotechnology</i> , 1992, 9, 85-97.	1.6	115
11	Cell death in mammalian cell culture: molecular mechanisms and cell line engineering strategies. <i>Cytotechnology</i> , 2010, 62, 175-188.	1.6	104
12	Monitoring pH and dissolved oxygen in mammalian cell culture using optical sensors. <i>Cytotechnology</i> , 2008, 57, 245-250.	1.6	91
13	Introduction to Viral Vectors. <i>Methods in Molecular Biology</i> , 2011, 737, 1-25.	0.9	91
14	Bioreactor systems for the production of biopharmaceuticals from animal cells. <i>Biotechnology and Applied Biochemistry</i> , 2006, 45, 1.	3.1	90
15	Enhancement of survivability of mammalian cells by overexpression of the apoptosis-suppressor gene bcl-2. , 1996, 52, 166-175.		85
16	Relationship between cell size, cell cycle and specific recombinant protein productivity. <i>Cytotechnology</i> , 2000, 34, 59-70.	1.6	76
17	Expansion of chondroprogenitor cells on macroporous microcarriers as an alternative to conventional monolayer systems. <i>Biomaterials</i> , 2006, 27, 2970-2979.	11.4	75
18	The selection of high-producing cell lines using flow cytometry and cell sorting. <i>Expert Opinion on Biological Therapy</i> , 2004, 4, 1821-1829.	3.1	73

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19	Metabolomics as a complementary tool in cell culture. <i>Biotechnology and Applied Biochemistry</i> , 2007, 47, 71.	3.1	72
20	Improved cell line development by a high throughput affinity capture surface display technique to select for high secretors. <i>Journal of Immunological Methods</i> , 1999, 230, 141-147.	1.4	71
21	Regulation of cell cycle and productivity in NS0 cells by the over-expression of p21CIP1. <i>Biotechnology and Bioengineering</i> , 2002, 77, 1-7.	3.3	71
22	Cell cycle and cell size dependence of susceptibility to hydrodynamic forces. <i>Biotechnology and Bioengineering</i> , 1995, 46, 88-92.	3.3	59
23	A flow cytometric study of hydrodynamic damage to mammalian cells. <i>Journal of Biotechnology</i> , 1993, 31, 161-177.	3.8	52
24	Effects of Culture Parameters on the Production of Retroviral Vectors by a Human Packaging Cell Line. <i>Biotechnology Progress</i> , 2000, 16, 859-865.	2.6	52
25	Modulation of Cell Cycle for Enhancement of Antibody Productivity in Perfusion Culture of NS0 Cells. <i>Biotechnology Progress</i> , 2003, 19, 224-228.	2.6	50
26	Metabolic characterization of a hyper-productive state in an antibody producing NS0 myeloma cell line. <i>Metabolic Engineering</i> , 2009, 11, 199-211.	7.0	48
27	NucleoCounter® An efficient technique for the determination of cell number and viability in animal cell culture processes. <i>Cytotechnology</i> , 2006, 51, 39-44.	1.6	47
28	Using cell engineering and omic tools for the improvement of cell culture processes. <i>Cytotechnology</i> , 2007, 53, 3-22.	1.6	42
29	Regulation of Cell Proliferation and Apoptosis in CHO-K1 Cells by the Coexpression of c-Myc and Bcl-2. <i>Biotechnology Progress</i> , 2008, 21, 671-677.	2.6	40
30	Osteoconductivity and growth factor production by MG63 osteoblastic cells on bioglass-coated orthopedic implants. <i>Biotechnology and Bioengineering</i> , 2011, 108, 454-464.	3.3	39
31	Flow cytometric study of cultured mammalian cells. <i>Journal of Biotechnology</i> , 1991, 19, 67-81.	3.8	38
32	Flow Cytometry in Animal Cell Culture. <i>Nature Biotechnology</i> , 1993, 11, 572-579.	17.5	38
33	In vitro and in vivo bioactivity of CoBlast hydroxyapatite coating and the effect of impaction on its osteoconductivity. <i>Biotechnology Advances</i> , 2012, 30, 352-362.	11.7	38
34	The potential of human peripheral blood derived CD34+ cells for ex vivo red blood cell production. <i>Journal of Biotechnology</i> , 2009, 144, 127-134.	3.8	36
35	ACSD labelling and magnetic cell separation: a rapid method of separating antibody secreting cells from non-secreting cells. <i>Journal of Immunological Methods</i> , 2005, 296, 171-178.	1.4	35
36	Cellular and transcriptomic analysis of human mesenchymal stem cell response to plasma-activated hydroxyapatite coating. <i>Acta Biomaterialia</i> , 2012, 8, 1627-1638.	8.3	35

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37	Over-expression of hTERT in CHO K1 results in decreased apoptosis and reduced serum dependency. <i>Journal of Biotechnology</i> , 2006, 121, 109-123.	3.8	34
38	Surface biotechnology for refining cochlear implants. <i>Trends in Biotechnology</i> , 2013, 31, 678-687.	9.3	33
39	Detailed understanding of enhanced specific antibody productivity in NS0 myeloma cells. <i>Biotechnology and Bioengineering</i> , 2009, 102, 188-199.	3.3	32
40	Using the Microcyte Flow Cytometer To Monitor Cell Number, Viability, and Apoptosis in Mammalian Cell Culture. <i>Biotechnology Progress</i> , 2000, 16, 800-802.	2.6	31
41	Improved Titers of Retroviral Vectors from the Human FLYRD18 Packaging Cell Line in Serum- and Protein-Free Medium. <i>Human Gene Therapy</i> , 1999, 10, 1965-1974.	2.7	30
42	Nanoscale infrared absorption imaging permits non-destructive intracellular photosensitizer localization for subcellular uptake analysis. <i>RSC Advances</i> , 2013, 3, 13789.	3.6	29
43	Recent advances in the implant-based drug delivery in otorhinolaryngology. <i>Acta Biomaterialia</i> , 2020, 108, 46-55.	8.3	28
44	cMyc increases cell number through uncoupling of cell division from cell size in CHO cells. <i>BMC Biotechnology</i> , 2009, 9, 76.	3.3	27
45	Apoptosis and cell culture technology. , 1998, 59, 225-249.		26
46	Quantifying nanoscale biochemical heterogeneity in human epithelial cancer cells using combined AFM and PTIR absorption nanoimaging. <i>Journal of Biophotonics</i> , 2015, 8, 133-141.	2.3	26
47	Functional genome-wide analysis of antibody producing NS0 cell line cultivated at different temperatures. <i>Biotechnology and Bioengineering</i> , 2007, 98, 616-630.	3.3	25
48	A genome-wide transcriptional analysis of producer and non-producer NS0 myeloma cell lines. <i>Biotechnology and Applied Biochemistry</i> , 2007, 47, 85.	3.1	24
49	Controlling stem cell fate using cold atmospheric plasma. <i>Stem Cell Research and Therapy</i> , 2020, 11, 368.	5.5	23
50	Effect of Bcl-2 overexpression on cell cycle and antibody productivity in chemostat cultures of myeloma NS0 cells. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 303-310.	2.2	22
51	Cell Culture Processes for the Production of Viral Vectors for Gene Therapy Purposes. <i>Cytotechnology</i> , 2006, 50, 141-162.	1.6	22
52	Optimal in-vitro expansion of chondroprogenitor cells in monolayer culture. <i>Biotechnology and Bioengineering</i> , 2006, 93, 519-533.	3.3	22
53	Using Molecular Markers to Characterize Productivity in Chinese Hamster Ovary Cell Lines. <i>PLoS ONE</i> , 2013, 8, e75935.	2.5	22
54	The effect of Pluronic F-68 on hybridoma cells in continuous culture. <i>Applied Microbiology and Biotechnology</i> , 1992, 37, 44-5.	3.6	21

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55	Stable transfection of CHO cells with the c-myc gene results in increased proliferation rates, reduces serum dependency, and induces anchorage independence. <i>Cytotechnology</i> , 2003, 41, 1-10.	1.6	21
56	Cryopreservation and in Vitro Expansion of Chondroprogenitor Cells Isolated from the Superficial Zone of Articular Cartilage. <i>Biotechnology Progress</i> , 2008, 21, 168-177.	2.6	21
57	Differential Sensitivity of Mammalian Cell Lines to Non-Thermal Atmospheric Plasma. <i>Plasma Processes and Polymers</i> , 2014, 11, 391-400.	3.0	21
58	The role of p21cip1 in adaptation of CHO cells to suspension and protein-free culture. <i>Journal of Biotechnology</i> , 2007, 130, 282-290.	3.8	20
59	Online flow cytometry for monitoring apoptosis in mammalian cell cultures as an application for process analytical technology. <i>Cytotechnology</i> , 2016, 68, 399-408.	1.6	20
60	Use of a spin-filter can reduce disruption of hybridoma cells in a bioreactor. <i>Biotechnology Letters</i> , 1993, 7, 351-356.	0.5	19
61	The role of Bcl-2 and its combined effect with p21CIP1 in adaptation of CHO cells to suspension and protein-free culture. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 391-399.	3.6	19
62	Automated flow cytometry for monitoring CHO cell cultures. <i>Methods</i> , 2012, 56, 358-365.	3.8	19
63	The relationship between mTOR signalling pathway and recombinant antibody productivity in CHO cell lines. <i>BMC Biotechnology</i> , 2014, 14, 15.	3.3	19
64	Cold atmospheric plasma as an interface biotechnology for enhancing surgical implants. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 425-440.	9.0	19
65	A proteomic study of cMyc improvement of CHO culture. <i>BMC Biotechnology</i> , 2010, 10, 25.	3.3	18
66	Revisiting Verhulst and Monod models: analysis of batch and fed-batch cultures. <i>Cytotechnology</i> , 2015, 67, 515-530.	1.6	18
67	Insect cell line dependent gene expression of recombinant human tumor necrosis factor- β . <i>Enzyme and Microbial Technology</i> , 1996, 18, 126-132.	3.2	16
68	Production of Retroviral Vectors for Gene Therapy with the Human Packaging Cell Line FLYRD18. <i>Biotechnology Progress</i> , 1999, 15, 941-948.	2.6	15
69	The effect of mild agitation on in vitro erythroid development. <i>Journal of Immunological Methods</i> , 2010, 360, 20-29.	1.4	15
70	The relationship of metabolic burden to productivity levels in CHO cell lines. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 173-180.	3.1	15
71	Defining viability in mammalian cell cultures. <i>Biotechnology Letters</i> , 2011, 33, 1745-1749.	2.2	14
72	The application of SELDI-TOF mass spectrometry to mammalian cell culture. <i>Biotechnology Advances</i> , 2009, 27, 177-184.	11.7	13

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73	Customizable Implant-specific and Tissue-Specific Extracellular Matrix Protein Coatings Fabricated Using Atmospheric Plasma. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 247.	4.1	13
74	Bcl-2 over-expression reduced the serum dependency and improved the nutrient metabolism in a NSO cells culture. <i>Biotechnology and Bioprocess Engineering</i> , 2005, 10, 254-261.	2.6	12
75	Evaluation of Cell Behaviour on Atmospheric Plasma Deposited Siloxane and Fluorosiloxane Coatings. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 889-903.	2.6	12
76	Bioreactor Systems for Producing Antibody from Mammalian Cells. <i>Cell Engineering</i> , 2011, , 25-52.	0.4	12
77	Measurement of Apoptosis in Cell Culture. <i>Methods in Biotechnology</i> , 2007, , 285-299.	0.2	12
78	Metabolic profiling of hematopoietic stem and progenitor cells during proliferation and differentiation into red blood cells. <i>New Biotechnology</i> , 2016, 33, 179-186.	4.4	11
79	Transcriptome and proteome analysis of antibody-producing mouse myeloma NSO cells cultivated at different cell densities in perfusion culture. <i>Biotechnology and Applied Biochemistry</i> , 2008, 50, 133.	3.1	10
80	Prediction of recombinant protein production in an insect cellâ€“baculovirus system using a flow cytometric technique. <i>Journal of Immunological Methods</i> , 2007, 325, 104-113.	1.4	9
81	Cellular and transcriptomic analysis of NSO cell response during exposure to hypoxia. <i>Journal of Biotechnology</i> , 2008, 134, 103-111.	3.8	9
82	Measuring dissolved oxygen to track erythroid differentiation of hematopoietic progenitor cells in culture. <i>Journal of Biotechnology</i> , 2014, 187, 135-138.	3.8	9
83	Modelling of Mammalian Cell Cultures. <i>Cell Engineering</i> , 2015, , 259-326.	0.4	9
84	Enhanced growth in NSO cells expressing aminoglycoside phosphotransferase is associated with changes in metabolism, productivity, and apoptosis. <i>Biotechnology and Bioengineering</i> , 2005, 92, 589-599.	3.3	8
85	The isolation and identification of a secreted biomarker associated with cell stress in serumâ€“free CHO cell culture. <i>Biotechnology and Bioengineering</i> , 2009, 104, 590-600.	3.3	8
86	The effect of Bclâ€“2, YAMA, and XIAP overâ€“expression on apoptosis and adenovirus production in HEK293 cell line. <i>Biotechnology and Bioengineering</i> , 2009, 104, 752-765.	3.3	8
87	Multimodal treatment combining cold atmospheric plasma and acidic fibroblast growth factor for multiâ€“tissue regeneration. <i>FASEB Journal</i> , 2021, 35, e21442.	0.5	8
88	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 137-141.	2.2	7
89	Mammalian Cell Line Selection Strategies for High-Producers. <i>Cell Engineering</i> , 2015, , 327-372.	0.4	7
90	A multifunctional dexamethasone-delivery implant fabricated using atmospheric plasma and its effects on apoptosis, osteogenesis and inflammation. <i>Drug Delivery and Translational Research</i> , 2021, 11, 86-102.	5.8	7

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91	Chemostat-based transcriptional analysis of growth rate change and BCL-2 overexpression in NSO cells. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1603-1615.	3.3	6
92	Monitoring of Growth, Physiology, and Productivity of Animal Cells by Flow Cytometry. <i>Methods in Biotechnology</i> , 2007, , 223-237.	0.2	6
93	Monitoring Animal Cell Growth and Productivity by Flow Cytometry. , 1999, , 145-154.		5
94	Production of Biologics from Animal Cell Cultures. <i>Focus on Biotechnology</i> , 2005, , 423-438.	0.4	5
95	Analysis of an artificially selected GS-NSO variant with increased resistance to apoptosis. <i>Biotechnology and Bioengineering</i> , 2011, 108, 880-892.	3.3	5
96	Mathematical approach for the optimal expansion of erythroid progenitors in monolayer culture. <i>Journal of Biotechnology</i> , 2012, 161, 308-319.	3.8	5
97	Understanding central carbon metabolism of rapidly proliferating mammalian cells based on analysis of key enzymatic activities in GS-CHO cell lines. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 642-651.	3.1	5
98	The Bcl-2 Family. , 2004, , 25-47.		5
99	Monitoring of Apoptosis. , 2004, , 281-306.		4
100	Application of statistical techniques for elucidating flow cytometric data of batch and fed-batch cultures. <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 536-545.	3.1	4
101	AFM-based bivariate morphological discrimination of apoptosis induced by photodynamic therapy using photosensitizer-functionalized gold nanoparticles. <i>RSC Advances</i> , 2015, 5, 82983-82991.	3.6	4
102	3D culture of mouse gastric stem cells using porous microcarriers. <i>Frontiers in Bioscience - Scholar</i> , 2017, 9, 172-179.	2.1	4
103	Apoptosis and Its Suppression in Hepatocytes Culture. <i>Cytotechnology</i> , 2004, 46, 79-95.	1.6	3
104	Enhancement of monoclonal antibody production in CHO cells by exposure to He-Ne laser radiation. <i>Cytotechnology</i> , 2014, 66, 761-767.	1.6	2
105	Verhulst and stochastic models for comparing mechanisms of MAb productivity in six CHO cell lines. <i>Cytotechnology</i> , 2016, 68, 1499-1511.	1.6	2
106	Physiological alterations of GS-CHO cells in response to adenosine monophosphate treatment. <i>Journal of Biotechnology</i> , 2019, 294, 49-57.	3.8	2
107	The Relationship Between Intracellular pH and Cell Cycle in Cultured Animal Cells Using SNARF-1 Indicator. , 2020, , 163-175.		1
108	Regulation of Cell Cycle and Productivity in NSO Cells by the Over-Expression of p21CIP1. , 2001, , 149-155.		0

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109	Viability in Late Stages of Ex Vivo Erythropoiesis Is Enhanced by Increased Cell Density. <i>Blood</i> , 2008, 112, 4748-4748.	1.4	0
110	Towards a Systems-Level Understanding of Increased Specific Productivity in Proliferation Arrested Myeloma NS0 Cells. , 2010, , 425-428.		0
111	Blood Cell Bioprocessing: The Haematopoietic System and Current Status of In-Vitro Production of Red Blood Cells. <i>Cell Engineering</i> , 2014, , 97-128.	0.4	0
112	The Mechanical Strength of Mammalian Cells During Mitotic Cell Division. , 1997, , 731-736.		0
113	Engineering of Cell Proliferation Via Myc Modulation. , 2007, , 157-183.		0