Joaquim M S Cabral

List of Publications by Year
in descending order

467	18,122	22548	32181
papers	citations	61 h-index	105 g-index

477	477	477	19922
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microbial conversion of steroid compounds: recent developments. Enzyme and Microbial Technology, 2003, 32, 688-705.	1.6	501
2	A complex human gut microbiome cultured in an anaerobic intestine-on-a-chip. Nature Biomedical Engineering, 2019, 3, 520-531.	11.6	487
3	Hydrophobic interaction chromatography of proteins. Journal of Biotechnology, 2001, 87, 143-159.	1.9	351
4	Phytosterols: Applications and recovery methods. Bioresource Technology, 2007, 98, 2335-2350.	4.8	275
5	Whole-cell biocatalysis in organic media. Enzyme and Microbial Technology, 1998, 23, 483-500.	1.6	269
6	High-throughput cellular microarray platforms: applications in drug discovery, toxicology and stem cell research. Trends in Biotechnology, 2009, 27, 342-349.	4.9	255
7	Ex vivo expansion of human mesenchymal stem cells: A more effective cell proliferation kinetics and metabolism under hypoxia. Journal of Cellular Physiology, 2010, 223, 27-35.	2.0	252
8	Horseradish peroxidase: a valuable tool in biotechnology. Biotechnology Annual Review, 2003, 9, 199-247.	2.1	235
9	Large-scale production of pharmaceutical-grade plasmid DNA for gene therapy: problems and bottlenecks. Trends in Biotechnology, 1999, 17, 169-174.	4.9	230
10	Ethanol biosensors based on alcohol oxidase. Biosensors and Bioelectronics, 2005, 21, 235-247.	5.3	213
11	Mesenchymal stem cells from umbilical cord matrix, adipose tissue and bone marrow exhibit different capability to suppress peripheral blood B, natural killer and T cells. Stem Cell Research and Therapy, 2013, 4, 125.	2.4	213
12	Cutinase: From molecular level to bioprocess development. , 1999, 66, 17-34.		209
13	Reverse micelles as reaction media for lipases. Biochimie, 2000, 82, 1063-1085.	1.3	209
14	Toward a Clinical-Grade Expansion of Mesenchymal Stem Cells from Human Sources: A Microcarrier-Based Culture System Under Xeno-Free Conditions. Tissue Engineering - Part C: Methods, 2011, 17, 1201-1210.	1.1	209
15	Tonic 4-1BB Costimulation in Chimeric Antigen Receptors Impedes T Cell Survival and Is Vector-Dependent. Cell Reports, 2017, 21, 17-26.	2.9	203
16	Supercritical CO2 extraction of carotenoids and other lipids from Chlorella vulgaris. Food Chemistry, 1995, 53, 99-103.	4.2	197
17	Downstream processing of plasmid DNA for gene therapy and DNA vaccine applications. Trends in Biotechnology, 2000, 18, 380-388.	4.9	191
18	Stem cell cultivation in bioreactors. Biotechnology Advances, 2011, 29, 815-829.	6.0	183

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19	A comparative study of titanium nitrides, TiN, TiNbN and TiCN, as coatings for biomedical applications. Surface and Coatings Technology, 2009, 203, 3701-3707.	2.2	182
20	Biodetection using magnetically labeled biomolecules and arrays of spin valve sensors (invited). Journal of Applied Physics, 2003, 93, 7281-7286.	1.1	179
21	The influence of culture conditions on mycelial structure and cellulase production by Trichoderma reesei Rut C-30. Enzyme and Microbial Technology, 2000, 26, 394-401.	1.6	172
22	Real-time bioprocess monitoring. Sensors and Actuators B: Chemical, 2006, 114, 1083-1091.	4.0	171
23	Single magnetic microsphere placement and detection on-chip using current line designs with integrated spin valve sensors: Biotechnological applications. Journal of Applied Physics, 2002, 91, 7786.	1.1	164
24	Maximizing the ex vivo expansion of human mesenchymal stem cells using a microcarrier-based stirred culture system. Journal of Biotechnology, 2010, 146, 194-197.	1.9	158
25	Advanced cell therapies for articular cartilage regeneration. Trends in Biotechnology, 2015, 33, 35-42.	4.9	156
26	Enzymatic membrane bioreactors and their applications. Enzyme and Microbial Technology, 1994, 16, 738-750.	1.6	149
27	Mouse embryonic stem cell expansion in a microcarrier-based stirred culture system. Journal of Biotechnology, 2007, 132, 227-236.	1.9	145
28	Liquid-Liquid Extraction of Proteins with Reversed Micelles. Biotechnology Progress, 1996, 12, 290-301.	1.3	139
29	Modeling radiation injury-induced cell death and countermeasure drug responses in a human Gut-on-a-Chip. Cell Death and Disease, 2018, 9, 223.	2.7	138
30	High sensitivity detection of molecular recognition using magnetically labelled biomolecules and magnetoresistive sensors. Biosensors and Bioelectronics, 2003, 18, 483-488.	5.3	137
31	Solvent tolerance in bacteria: role of efflux pumps and cross-resistance with antibiotics. International Journal of Antimicrobial Agents, 2003, 22, 211-216.	1.1	134
32	A xenogeneicâ€free bioreactor system for the clinicalâ€scale expansion of human mesenchymal stem/stromal cells. Biotechnology and Bioengineering, 2014, 111, 1116-1127.	1.7	129
33	Hematopoietic stem cells: from the bone to the bioreactor. Trends in Biotechnology, 2003, 21, 233-240.	4.9	119
34	Expansion of mouse embryonic stem cells on microcarriers. Biotechnology and Bioengineering, 2007, 96, 1211-1221.	1.7	119
35	A human stromal-based serum-free culture system supports the ex vivo expansion/maintenance of bone marrow and cord blood hematopoietic stem/progenitor cells. Experimental Hematology, 2005, 33, 828-835.	0.2	109
36	Cutinase?A new tool for biomodification of synthetic fibers. Journal of Polymer Science Part A, 2005, 43, 2448-2450.	2.5	106

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37	Bioreactor design for clinicalâ€grade expansion of stem cells. Biotechnology Journal, 2013, 8, 644-654.	1.8	98
38	CD7 CAR T Cells for the Therapy of Acute Myeloid Leukemia. Molecular Therapy, 2019, 27, 272-280.	3.7	97
39	Review Properties and Applications of Urease. Biocatalysis and Biotransformation, 2002, 20, 1-14.	1.1	96
40	A comparative study of biocatalysis in non-conventional solvents: Ionic liquids, supercritical fluids and organic media. Green Chemistry, 2004, 6, 466-470.	4.6	93
41	Threeâ€dimensional cell culture microarray for highâ€throughput studies of stem cell fate. Biotechnology and Bioengineering, 2010, 106, 106-118.	1.7	92
42	Bioprocess scaleâ€up: quest for the parameters to be used as criterion to move from microreactors to labâ€scale. Journal of Chemical Technology and Biotechnology, 2010, 85, 1184-1198.	1.6	89
43	Co-culture cell-derived extracellular matrix loaded electrospun microfibrous scaffolds for bone tissue engineering. Materials Science and Engineering C, 2019, 99, 479-490.	3.8	89
44	Partial purification of penicillin acylase from Escherichia coli in poly(ethylene glycol)â€“sodium citrate aqueous two-phase systems. Biomedical Applications, 1999, 734, 15-22.	1.7	87
45	Isolation of plasmid DNA from cell lysates by aqueous two-phase systems. Biotechnology and Bioengineering, 2002, 78, 376-384.	1.7	87
46	Kartogenin-loaded coaxial PGS/PCL aligned nanofibers for cartilage tissue engineering. Materials Science and Engineering C, 2020, 107, 110291.	3.8	86
47	Ion jelly: a tailor-made conducting material for smart electrochemical devices. Chemical Communications, 2008, , 5842.	2.2	83
48	Purification of lipases. Journal of Biotechnology, 1992, 26, 111-142.	1.9	82
49	Design and characterisation of an enzyme system for inulin hydrolysis. Food Chemistry, 2006, 95, 77-82.	4.2	82
50	Nonviral Gene Delivery to Mesenchymal Stem Cells Using Cationic Liposomes for Gene and Cell Therapy. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-12.	3.0	81
51	Cutinase structure, function and biocatalytic applications. Electronic Journal of Biotechnology, 1998, 1, 160-173.	1.2	80
52	Stability of free and immobilised peroxidase in aqueousâ€“organic solvents mixtures. Journal of Molecular Catalysis B: Enzymatic, 2001, 15, 147-153.	1.8	78
53	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. Frontiers in Cell and Developmental Biology, 2020, 8, 553444.	1.8	78
54	Transcriptomic analysis of 3D Cardiac Differentiation of Human Induced Pluripotent Stem Cells Reveals Faster Cardiomyocyte Maturation Compared to 2D Culture. Scientific Reports, 2019, 9, 9229.	1.6	77

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55	Solâ€“gel encapsulation: An efficient and versatile immobilization technique for cutinase in non-aqueous media. Journal of Biotechnology, 2006, 121, 23-33.	1.9	76
56	Applications of supercritical CO2 extraction to microalgae and plants. Journal of Chemical Technology and Biotechnology, 1995, 62, 53-59.	1.6	72
57	On-Chip, Cell-Based Microarray Immunofluorescence Assay for High-Throughput Analysis of Target Proteins. Analytical Chemistry, 2008, 80, 6633-6639.	3.2	72
58	Application of factorial design to the study of transesterification reactions using cutinase in AOT-reversed micelles. Enzyme and Microbial Technology, 1997, 21, 117-123.	1.6	69
59	Development of Process Flow Sheets for the Purification of Supercoiled Plasmids for Gene Therapy Applications. Biotechnology Progress, 1999, 15, 725-731.	1.3	67
60	Magnetoresistive chip cytometer. Lab on A Chip, 2011, 11, 2255.	3.1	64
61	Scalable microcarrier-based manufacturing of mesenchymal stem/stromal cells. Journal of Biotechnology, 2016, 236, 88-109.	1.9	64
62	Kinetic studies of the urease-catalyzed hydrolysis of urea in a buffer-free system. Applied Biochemistry and Biotechnology, 1994, 49, 217-240.	1.4	63
63	Zeolites as supports for an enzymatic alcoholysis reaction. Journal of Molecular Catalysis B: Enzymatic, 1998, 4, 303-311.	1.8	63
64	Supercritical CO2 generating chitosan devices with controlled morphology. Potential application for drug delivery and mesenchymal stem cell culture. Journal of Supercritical Fluids, 2009, 48, 269-277.	1.6	62
65	Sterol side-chain cleavage with immobilized Mycobacterium cells in water-immiscible organic solvents. Enzyme and Microbial Technology, 1994, 16, 708-714.	1.6	60
66	A Stro-1+ human universal stromal feeder layer to expand/maintain human bone marrow hematopoietic stem/progenitor cells in a serum-free culture system. Experimental Hematology, 2006, 34, 1353-1359.	0.2	60
67	Human mesenchymal stem cells from the umbilical cord matrix: Successful isolation and ex vivo expansion using serumâ€/xenoâ€free culture media. Biotechnology Journal, 2013, 8, 448-458.	1.8	60
68	Defined and Scalable Differentiation of Human Oligodendrocyte Precursors from Pluripotent Stem Cells in a 3D Culture System. Stem Cell Reports, 2017, 8, 1770-1783.	2.3	59
69	Supercritical carbon dioxide extraction of bioactive compounds from microalgae and volatile oils from aromatic plants. Journal of Supercritical Fluids, 2011, 60, 21-27.	1.6	58
70	Polyaniline-polycaprolactone blended nanofibers for neural cell culture. European Polymer Journal, 2019, 117, 28-37.	2.6	58
71	Differentiation of Human Umbilical Cord Matrix Mesenchymal Stem Cells into Neural-Like Progenitor Cells and Maturation into an Oligodendroglial-Like Lineage. PLoS ONE, 2014, 9, e111059.	1.1	57
72	Three dimensional cellular microarray platform for human neural stem cell differentiation and toxicology. Stem Cell Research, 2014, 13, 36-47.	0.3	57

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73	Defined Essential 8â„¢ Medium and Vitronectin Efficiently Support Scalable Xeno-Free Expansion of Human Induced Pluripotent Stem Cells in Stirred Microcarrier Culture Systems. PLoS ONE, 2016, 11, e0151264.	1.1	57
74	Stirred tank bioreactor culture combined with serumâ€/xenogeneicâ€free culture medium enables an efficient expansion of umbilical cordâ€derived mesenchymal stem/stromal cells. Biotechnology Journal, 2016, 11, 1048-1059.	1.8	56
75	Thermal unfolding of proteins at high pH range studied by UV absorbance. Journal of Proteomics, 1997, 34, 45-59.	2.4	55
76	Mycobacterium sp.,Rhodococcus erythropolis, andPseudomonas putida behavior in the presence of organic solvents. Microscopy Research and Technique, 2004, 64, 215-222.	1.2	55
77	A xenoâ€free microcarrierâ€based stirred culture system for the scalable expansion of human mesenchymal stem/stromal cells isolated from bone marrow and adipose tissue. Biotechnology Journal, 2015, 10, 1235-1247.	1.8	55
78	Anion exchange purification of plasmid DNA using expanded bed adsorption. Bioseparation, 2000, 9, 1-6.	0.7	54
79	Scale-up of recombinant cutinase recovery by whole broth extraction with PEG-phosphate aqueous two-phase. Bioseparation, 2000, 9, 231-238.	0.7	54
80	Assay of H2O2 by HRP catalysed co-oxidation of phenol-4-sulphonic acid and 4-aminoantipyrine: characterisation and optimisation. Journal of Molecular Catalysis B: Enzymatic, 2004, 28, 129-135.	1.8	54
81	Whole-cell bioconversion of Î²-sitosterol in aqueousâ€“organic two-phase systems. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 579-585.	1.8	53
82	Modeling the Human Body on Microfluidic Chips. Trends in Biotechnology, 2021, 39, 838-852.	4.9	53
83	Dissolvable Microcarriers Allow Scalable Expansion And Harvesting Of Human Induced Pluripotent Stem Cells Under Xenoâ€Free Conditions. Biotechnology Journal, 2019, 14, e1800461.	1.8	52
84	Extracellular matrix decorated polycaprolactone scaffolds for improved mesenchymal stem/stromal cell osteogenesis towards a patientâ€tailored bone tissue engineering approach. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2153-2166.	1.6	52
85	Continuous production of isovaleraldehyde through extractive bioconversion in a hollow-fiber membrane bioreactor. Enzyme and Microbial Technology, 1997, 20, 604-611.	1.6	51
86	Studies on the Batch Adsorption of Plasmid DNA onto Anion-Exchange Chromatographic Supports. Biotechnology Progress, 2000, 16, 416-424.	1.3	51
87	Impact of hypoxia and long-term cultivation on the genomic stability and mitochondrial performance of ex vivo expanded human stem/stromal cells. Stem Cell Research, 2012, 9, 225-236.	0.3	51
88	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. Journal of Biotechnology, 2016, 234, 71-82.	1.9	51
89	Human Mesenchymal Stem Cell Expression Program upon Extended Ex-Vivo Cultivation, as Revealed by 2-DE-Based Quantitative Proteomics. PLoS ONE, 2012, 7, e43523.	1.1	51
90	Triglyceride hydrolysis and stability of a recombinant cutinase fromFusarium solani in AOT-iso-octane reversed micelles. Applied Biochemistry and Biotechnology, 1995, 50, 45-56.	1.4	50

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91	Thermal and operational stabilities of Hansenula polymorpha alcohol oxidase. Journal of Molecular Catalysis B: Enzymatic, 2004, 27, 37-45.	1.8	50
92	Acellular Urethra Bioscaffold: Decellularization of Whole Urethras for Tissue Engineering Applications. Scientific Reports, 2017, 7, 41934.	1.6	50
93	Bone Matrix Non-Collagenous Proteins in Tissue Engineering: Creating New Bone by Mimicking the Extracellular Matrix. Polymers, 2021, 13, 1095.	2.0	50
94	Enzymatic esterification of ethanol and oleic acid â€" a kinetic study. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 999-1005.	1.8	49
95	Immobilization of inulinase for sucrose hydrolysis. Food Chemistry, 2005, 91, 517-520.	4.2	49
96	Strategies for the expansion of human induced pluripotent stem cells as aggregates in single-use Vertical-Wheelâ„¢ bioreactors. Journal of Biological Engineering, 2019, 13, 74.	2.0	49
97	Modeling Rett Syndrome With Human Patient-Specific Forebrain Organoids. Frontiers in Cell and Developmental Biology, 2020, 8, 610427.	1.8	49
98	Isolation of a Î²-Carotene Over-Producing Soil Bacterium, Sphingomonas sp.. Biotechnology Letters, 2004, 26, 257-262.	1.1	48
99	Systematic delineation of optimal cytokine concentrations to expand hematopoietic stem/progenitor cells in co-culture with mesenchymal stem cells. Molecular BioSystems, 2010, 6, 1207.	2.9	48
100	Intraoperative Stem Cell Therapy. Annual Review of Biomedical Engineering, 2012, 14, 325-349.	5.7	48
101	Integrated culture platform based on a human platelet lysate supplement for the isolation and scalable manufacturing of umbilical cord matrix-derived mesenchymal stem/stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1630-1640.	1.3	48
102	Purification and identification of cutinases from Colletotrichum kahawae and Colletotrichum gloeosporioides. Applied Microbiology and Biotechnology, 2007, 73, 1306-1313.	1.7	46
103	Separation technologies for stem cell bioprocessing. Biotechnology and Bioengineering, 2012, 109, 2699-2709.	1.7	46
104	Plasmid DNA Size Does Affect Nonviral Gene Delivery Efficiency in Stem Cells. Cellular Reprogramming, 2012, 14, 130-137.	0.5	46
105	Biomimetic matrices for rapidly forming mineralized bone tissue based on stem cell-mediated osteogenesis. Scientific Reports, 2018, 8, 14388.	1.6	46
106	Towards Multi-Organoid Systems for Drug Screening Applications. Bioengineering, 2018, 5, 49.	1.6	45
107	Cultured cellâ€derived extracellular matrices to enhance the osteogenic differentiation and angiogenic properties of human mesenchymal stem/stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1544-1558.	1.3	45
108	Trehalose delays the reversible but not the irreversible thermal denaturation of cutinase. Biotechnology and Bioengineering, 2000, 70, 699-703.	1.7	44

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109	Microlitre/millilitre shaken bioreactors in fermentative and biotransformation processes â€“ a review. Biocatalysis and Biotransformation, 2006, 24, 237-252.	1.1	44
110	Tridimensional configurations of human mesenchymal stem/stromal cells to enhance cell paracrine potential towards wound healing processes. Journal of Biotechnology, 2017, 262, 28-39.	1.9	44
111	Liquid-liquid extraction of a recombinant protein with a reverse micelle phase. Biotechnology Progress, 1993, 9, 647-650.	1.3	43
112	Effect of the immobilization support on the hydrolytic activity of a cutinase from Fusarium solani pisi. Enzyme and Microbial Technology, 1997, 20, 93-101.	1.6	43
113	Application of surface response analysis to the optimization of penicillin acylase purification in aqueous two-phase systems. Enzyme and Microbial Technology, 2002, 31, 1006-1014.	1.6	43
114	Supercritical antisolvent micronization of minocycline hydrochloride. Journal of Supercritical Fluids, 2008, 44, 238-244.	1.6	43
115	Differences amid bone marrow and cord blood hematopoietic stem/progenitor cell division kinetics. Journal of Cellular Physiology, 2009, 220, 102-111.	2.0	43
116	Concise Review: Genomic Instability in Human Stem Cells: Current Status and Future Challenges. Stem Cells, 2014, 32, 2824-2832.	1.4	43
117	Denaturation of a Recombinant Cutinase from Fusarium solani in AOT-iso-Octane Reverse Micelles: a Steady-State Fluorescence Study. Photochemistry and Photobiology, 1996, 63, 169-175.	1.3	42
118	Different stages of pluripotency determine distinct patterns of proliferation, metabolism, and lineage commitment of embryonic stem cells under hypoxia. Stem Cell Research, 2010, 5, 76-89.	0.3	42
119	OPTIMIZATION OF FLAVOR ESTERS SYNTHESIS BY FUSARIUM SOLANI PISI CUTINASE. Journal of Food Biochemistry, 2012, 36, 275-284.	1.2	42
120	Scalable Manufacturing of Human Mesenchymal Stromal Cells in the Verticalâ€Wheel Bioreactor System: An Experimental and Economic Approach. Biotechnology Journal, 2019, 14, e1800716.	1.8	42
121	Operational stability of immobilised horseradish peroxidase in mini-packed bed bioreactors. Journal of Molecular Catalysis B: Enzymatic, 2004, 28, 121-128.	1.8	41
122	Biosynthesis of ethyl caproate and other short ethyl esters catalyzed by cutinase in organic solvent. Journal of Molecular Catalysis B: Enzymatic, 2009, 60, 178-185.	1.8	41
123	Improved purification protocol of a Fusarium solani pisi recombinant cutinase by phase partitioning in aqueous two-phase systems of polyethylene glycol and phosphate. Enzyme and Microbial Technology, 1996, 18, 251-260.	1.6	40
124	Biotransformation in organic media by enzymes and whole cells. Journal of Biotechnology, 1997, 59, 133-143.	1.9	40
125	Cutinase stability in AOT reversed micelles: system optimization using the factorial design methodology. Enzyme and Microbial Technology, 1999, 24, 569-576.	1.6	40
126	Synergistic effect of extracellularly supplemented osteopontin and osteocalcin on stem cell proliferation, osteogenic differentiation, and angiogenic properties. Journal of Cellular Biochemistry, 2019, 120, 6555-6569.	1.2	40

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127	Sitosterol bioconversion with resting cells in liquid polymer based systems. Bioresource Technology, 2009, 100, 4050-4053.	4.8	39
128	Functionalization of Electrospun Nanofibers and Fiber Alignment Enhance Neural Stem Cell Proliferation and Neuronal Differentiation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 580135.	2.0	39
129	Maturation of Human Pluripotent Stem Cell-Derived Cerebellar Neurons in the Absence of Co-culture. Frontiers in Bioengineering and Biotechnology, 2020, 8, 70.	2.0	39
130	Variation of penicillin acylase partition coefficient with phase volume ratio in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Tc	1.7	38
131	Cutinase Activity and Enantioselectivity in Supercritical Fluids. Industrial & Engineering Chemistry Research, 1998, 37, 3189-3194.	1.8	38
132	Effect of phase composition on the whole-cell bioconversion of Î²-sitosterol in biphasic media. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 371-375.	1.8	38
133	Comparison of real-time polymerase chain reaction and hybridization assays for the detection of Escherichia coli genomic DNA in process samples and pharmaceutical-grade plasmid DNA products. Analytical Biochemistry, 2003, 322, 127-129.	1.1	38
134	Towards the development of a membrane reactor for enzymatic inulin hydrolysis. Journal of Membrane Science, 2006, 273, 152-158.	4.1	38
135	Compositional and structural analysis of glycosaminoglycans in cell-derived extracellular matrices. Glycoconjugate Journal, 2019, 36, 141-154.	1.4	38
136	Cutinase unfolding and stabilization by trehalose and mannosylglycerate. Proteins: Structure, Function and Bioinformatics, 2001, 42, 542-552.	1.5	37
137	Dynamic cell-cell interactions between cord blood haematopoietic progenitors and the cellular niche are essential for the expansion of CD34⁺, CD34⁺CD38^{â^'}and early lymphoid CD7⁺cells. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 149-158.	1.3	37
138	Steroid bioconversion: Towards green processes. Food and Bioproducts Processing, 2010, 88, 12-20.	1.8	36
139	Hypoxia enhances proliferation of mouse embryonic stem cellâ€derived neural stem cells. Biotechnology and Bioengineering, 2010, 106, 260-270.	1.7	36
140	Gene delivery to human bone marrow mesenchymal stem cells by microporation. Journal of Biotechnology, 2011, 151, 130-136.	1.9	36
141	Mesenchymal stromal cells induce regulatory T cells via epigenetic conversion of human conventional CD4 T cells in vitro. Stem Cells, 2020, 38, 1007-1019.	1.4	36
142	Integration of production and aqueous two-phase systems extraction of extracellular cutinase fusion proteins. Journal of Biotechnology, 2003, 100, 55-64.	1.9	35
143	Optimization of androstenedione production in an organicâ€“aqueous two-liquid phase system. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 19-23.	1.8	35
144	Scaleâ€up of mouse embryonic stem cell expansion in stirred bioreactors. Biotechnology Progress, 2011, 27, 1421-1432.	1.3	35

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145	Spatial and temporal control of cell aggregation efficiently directs human pluripotent stem cells towards neural commitment. Biotechnology Journal, 2015, 10, 1612-1624.	1.8	35
146	Biophysical study of human induced Pluripotent Stem Cell-Derived cardiomyocyte structural maturation during long-term culture. Biochemical and Biophysical Research Communications, 2018, 499, 611-617.	1.0	35
147	Effect of Electrical Stimulation Conditions on Neural Stem Cells Differentiation on Cross-Linked PEDOT:PSS Films. Frontiers in Bioengineering and Biotechnology, 2021, 9, 591838.	2.0	35
148	Dynamic light scattering of cutinase in AOT reverse micelles. Chemistry and Physics of Lipids, 2000, 106, 181-189.	1.5	34
149	Ex vivo expansion of hematopoietic stem cells in bioreactors. Biotechnology Letters, 2001, 23, 741-751.	1.1	34
150	Solvent partitioning and whole-cell sitosterol bioconversion activity in aqueous-organic two-phase systems. Enzyme and Microbial Technology, 2004, 34, 342-353.	1.6	34
151	Bienzymatic analytical microreactors for glucose, lactate, ethanol, galactose and l-amino acid monitoring in cell culture media. Analytica Chimica Acta, 2006, 565, 240-249.	2.6	34
152	Improving activity and stability of cutinase towards the anionic detergent AOT by complete saturation mutagenesis. Protein Engineering, Design and Selection, 2008, 21, 387-393.	1.0	34
153	A novel method for human hematopoietic stem/progenitor cell isolation from umbilical cord blood based on immunoaffinity aqueous two-phase partitioning. Biotechnology Letters, 2011, 33, 2373-2377.	1.1	34
154	Dipeptide synthesis and separation in a reversed micellar membrane reactor. Enzyme and Microbial Technology, 1994, 16, 1064-1073.	1.6	33
155	Optimisation of culture conditions and characterisation of cutinase produced by recombinant Saccharomyces cerevisiae. Enzyme and Microbial Technology, 2002, 31, 161-170.	1.6	33
156	Adsorption of human IgG on to poly(N-isopropylacrylamide)-based polymer particles. Biotechnology Letters, 2006, 28, 2019-2025.	1.1	33
157	Production and characterization of recombinant cyprosin B in Saccharomyces cerevisiae (W303-1A) strain. Journal of Bioscience and Bioengineering, 2008, 105, 305-312.	1.1	33
158	Effect of pre-fermentation on the production of cutinase by a recombinant Saccharomyces cerevisiae. Journal of Bioscience and Bioengineering, 2002, 93, 354-359.	1.1	32
159	Penicillin acylase release fromEscherichia coli cells by mechanical cell disruption and permeabilization. Journal of Chemical Technology and Biotechnology, 2002, 77, 159-167.	1.6	32
160	Operation and performance of analytical packed-bed reactors with an immobilised alcohol oxidase. Journal of Molecular Catalysis B: Enzymatic, 2004, 28, 45-53.	1.8	32
161	Behaviour of Mycobacterium sp. NRRL B-3805 whole cells in aqueous, organic-aqueous and organic media studied by fluorescence microscopy. Applied Microbiology and Biotechnology, 2004, 64, 695-701.	1.7	32
162	Purification of thePenicillium citrinum Lipase Using AOT Reversed Micelles. Journal of Chemical Technology and Biotechnology, 1997, 69, 77-85.	1.6	31

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163	Isolation of a biodegradable sterol-rich fraction from industrial wastes. Bioresource Technology, 2002, 82, 253-260.	4.8	31
164	Trehalose Favors a Cutinase Compact Intermediate Off-Folding Pathway. Biochemistry, 2003, 42, 7611-7617.	1.2	31
165	Effect of immobilization support, water activity, and enzyme ionization state on cutinase activity and enantioselectivity in organic media. Biotechnology and Bioengineering, 2004, 85, 442-449.	1.7	31
166	Evaluation of bottlenecks in proinsulin secretion by Escherichia coli. Journal of Biotechnology, 2004, 109, 31-43.	1.9	31
167	Thermodynamics and mechanism of cutinase stabilization by trehalose. Biopolymers, 2008, 89, 538-547.	1.2	31
168	A simple method for biocatalyst immobilization using PVAâ€based hydrogel particles. Journal of Chemical Technology and Biotechnology, 2009, 84, 561-564.	1.6	31
169	Ex Vivo Expansion of Human Mesenchymal Stem Cells on Microcarriers. Methods in Molecular Biology, 2011, 698, 189-198.	0.4	31
170	Kinetics of soluble and immobilized horseradish peroxidase-mediated oxidation of phenolic compounds. Biochemical Engineering Journal, 2007, 35, 126-135.	1.8	30
171	Stem cell bioprocessing for regenerative medicine. Journal of Chemical Technology and Biotechnology, 2014, 89, 34-47.	1.6	30
172	Allogeneic cell therapy manufacturing: process development technologies and facility design options. Expert Opinion on Biological Therapy, 2017, 17, 1201-1219.	1.4	30
173	A Fully-Closed and Automated Hollow Fiber Bioreactor for Clinical-Grade Manufacturing of Human Mesenchymal Stem/Stromal Cells. Stem Cell Reviews and Reports, 2018, 14, 141-143.	5.6	30
174	Deactivation and conformational changes of cutinase in reverse micelles. , 1998, 58, 380-386.		29
175	Improving cutinase stability in aqueous solution and in reverse micelles by media engineering. Journal of Molecular Catalysis B: Enzymatic, 2003, 22, 299-306.	1.8	29
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