Loredana De Bartolo

List of Publications by Year
in descending order

142	3,001	136885	182361
papers	citations	32 h-index	51 g-index

151	151	151	3125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioartificial Organs: Ongoing Research and Future Trends. Cells Tissues Organs, 2022, , 125-127.	1.3	1
2	Sustainable fabrication and pervaporation application of bio-based membranes: Combining a polyhydroxyalkanoate (PHA) as biopolymer and Cyreneâ„¢ as green solvent. Journal of Membrane Science, 2022, 643, 120061.	4.1	35
3	Membrane and Membrane Bioreactors Applied to Health and Life Sciences. Membranes, 2022, 12, 598.	1.4	0
4	Multifunctional membranes for lipidic nanovesicle capture. Separation and Purification Technology, 2022, 298, 121561.	3.9	4
5	PLGA Multiplex Membrane Platform for Disease Modelling and Testing of Therapeutic Compounds. Membranes, 2021, 11, 112.	1.4	5
6	Hollow Fiber and Nanofiber Membranes in Bioartificial Liver and Neuronal Tissue Engineering. Cells Tissues Organs, 2021, , 1-30.	1.3	9
7	Nano- and Micro-Porous Chitosan Membranes for Human Epidermal Stratification and Differentiation. Membranes, 2021, 11, 394.	1.4	7
8	Inaugural Young Investigator Issue for Cells Tissues Organs. Cells Tissues Organs, 2021, , .	1.3	0
9	Antiâ€neuroinflammatory effect of daidzein in human hypothalamic <scp>GnRH</scp> neurons in an in vitro membraneâ€based model. BioFactors, 2021, 47, 93-111.	2.6	15
10	Membrane Systems for Tissue Engineering 2020. Membranes, 2021, 11, 763.	1.4	4
11	Zinc(II) Complexes of Acylpyrazolones Decorated with a Cyclohexyl Group Display Antiproliferative Activity Against Human Breast Cancer Cells. European Journal of Inorganic Chemistry, 2020, 2020, 1027-1039.	1.0	14
12	Potential Implantable Nanofibrous Biomaterials Combined with Stem Cells for Subchondral Bone Regeneration. Materials, 2020, 13, 3087.	1.3	7
13	Poly(Îµ-Caprolactone) Hollow Fiber Membranes for the Biofabrication of a Vascularized Human Liver Tissue. Membranes, 2020, 10, 112.	1.4	19
14	Double porous poly (Æ•caprolactone)/chitosan membrane scaffolds as niches for human mesenchymal stem cells. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110493.	2.5	9
15	Membrane bioreactor for investigation of neurodegeneration. Materials Science and Engineering C, 2019, 103, 109793.	3.8	17
16	Composite scaffold obtained by electro-hydrodynamic technique for infection prevention and treatment in bone repair. International Journal of Pharmaceutics, 2019, 557, 162-169.	2.6	30
17	Membrane Bioreactors for Bioartificial Organs. , 2019, , 394-413.		0
18	Membrane Bioreactors for Production and Separation. , 2019, , 374-393.		0

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19	Automation and control system for fluid dynamic stability in hollowâ€fiber membrane bioreactor for cell culture. Journal of Chemical Technology and Biotechnology, 2018, 93, 710-719.	1.6	5
20	Bioengineering Organs for Blood Detoxification. Advanced Healthcare Materials, 2018, 7, e1800430.	3.9	41
21	Gas permeable membrane bioreactor for the co-culture of human skin derived mesenchymal stem cells with hepatocytes and endothelial cells. Journal of Membrane Science, 2018, 563, 694-707.	4.1	15
22	Membrane bioreactor to guide hepatic differentiation of human mesenchymal stem cells. Journal of Membrane Science, 2018, 564, 832-841.	4.1	8
23	Polymeric electrospun scaffolds for bone morphogenetic protein 2 delivery in bone tissue engineering. Journal of Colloid and Interface Science, 2018, 531, 126-137.	5.0	54
24	Self-assembly of tissue spheroids on polymeric membranes. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2090-2103.	1.3	12
25	Development of biohybrid immuno-selective membranes for target antigen recognition. Biosensors and Bioelectronics, 2017, 92, 54-60.	5.3	10
26	Laser-treated electrospun fibers loaded with nano-hydroxyapatite for bone tissue engineering. International Journal of Pharmaceutics, 2017, 525, 112-122.	2.6	35
27	3D liver membrane system by co-culturing human hepatocytes, sinusoidal endothelial and stellate cells. Biofabrication, 2017, 9, 025022.	3.7	51
28	Microtube array membrane bioreactor promotes neuronal differentiation and orientation. Biofabrication, 2017, 9, 025018.	3.7	24
29	Human liver microtissue spheroids in hollow fiber membrane bioreactor. Colloids and Surfaces B: Biointerfaces, 2017, 160, 272-280.	2.5	31
30	Oxygen transport in hollow fibre membrane bioreactors for hepatic 3D cell culture: A parametric study. Journal of Membrane Science, 2017, 544, 312-322.	4.1	28
31	New Advanced Biomaterials for Tissue and Organ Regeneration/Repair. Cells Tissues Organs, 2017, 204, 123-124.	1.3	0
32	Neuronal Differentiation Modulated by Polymeric Membrane Properties. Cells Tissues Organs, 2017, 204, 164-178.	1.3	5
33	Application of the Co-culture Membrane System Pointed to a Protective Role of Catestatin on Hippocampal Plus Hypothalamic Neurons Exposed to Oxygen and Glucose Deprivation. Molecular Neurobiology, 2017, 54, 7369-7381.	1.9	3
34	Dermal-epidermal membrane systems by using human keratinocytes and mesenchymal stem cells isolated from dermis. Materials Science and Engineering C, 2017, 71, 943-953.	3.8	8
35	Editorial: Nanotechnology and Biomaterials for Cell and Drug Therapy. Current Pharmaceutical Design, 2017, 23, 3757-3758.	0.9	1
36	4.12 Membrane Approaches for Liver and Neuronal Tissue Engineering. , 2017, , 248-271.		0

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37	Biohybrid Membrane Systems and Bioreactors as Tools for In Vitro Drug Testing. Current Pharmaceutical Design, 2017, 23, 319-327.	0.9	7
38	Biohybrid Membrane Systems for Testing Molecules and Stem Cell Therapy in Neuronal Tissue Engineering. Current Pharmaceutical Design, 2017, 23, 3858-3870.	0.9	2
39	Advanced Membrane Systems for Tissue Engineering. Current Organic Chemistry, 2017, 21, .	0.9	7
40	7 Membrane bioartificial organs. , 2017, , 187-240.		0
41	6 Cell-membrane interactions. , 2017, , 165-186.		0
42	1 Natural and synthetic membranes. , 2017, , 1-48.		0
43	2 Basic issues in membrane separation for biomedical devices. , 2017, , 49-80.		0
44	3 Artificial organs. , 2017, , 81-118.		0
45	8 Regulatory framework and ethical issues. , 2017, , 241-260.		0
46	5 Engineering of membrane bio-hybrid organs. , 2017, , 139-164.		0
47	4 Blood-membrane interactions. , 2017, , 119-138.		0
48	Editorial (Thematic Issue: New Approaches in Stem Cell Technology and Innovative Biomaterials for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 604-604.	0.6	1
49	Cell Culture. , 2016, , 336-338.		0
50	Polymeric membranes modulate human keratinocyte differentiation in specific epidermal layers. Colloids and Surfaces B: Biointerfaces, 2016, 146, 352-362.	2.5	6
51	Neuronal membrane bioreactor as a tool for testing crocin neuroprotective effect in Alzheimerâ€™s disease. Chemical Engineering Journal, 2016, 305, 69-78.	6.6	22
52	Recent Strategies Combining Biomaterials and Stem Cells for Bone, Liver and Skin Regeneration. Current Stem Cell Research and Therapy, 2016, 11, 676-691.	0.6	8
53	Embryonic Stem (ES) Cell. , 2016, , 672-673.		0
54	Cell Adhesion. , 2016, , 333-334.		0

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55	Langerhans Islet. , 2016, , 1087-1089.		0
56	Hollow Fiber Membrane Bioreactor for Cell Growth. , 2016, , 953-955.		2
57	Artificial Liver, Membrane Operations. , 2016, , 119-122.		0
58	Central Nervous System in Relation to Membranes. , 2016, , 349-352.		0
59	Acute Kidney Injury (AKI). , 2016, , 7-7.		0
60	Artificial Blood Cell. , 2016, , 113-115.		0
61	Artificial Lung. , 2016, , 122-123.		0
62	Cell Adhesion in Bioartificial Organs. , 2016, , 334-336.		0
63	Cell Separation. , 2016, , 342-343.		0
64	Comparison between a non-linear and linearized three-compartment model of a bioreactor for hepatocyte culturing. IFAC-PapersOnLine, 2015, 48, 703-704.	0.5	0
65	Acute Kidney Injury (AKI). , 2015, , 1-1.		0
66	Neuroprotective effect of human mesenchymal stem cells in a compartmentalized neuronal membrane system. Acta Biomaterialia, 2015, 24, 297-308.	4.1	54
67	Osteogenic and osteoclastogenic differentiation of co-cultured cells in polylactic acidâ€“nanohydroxyapatite fiber scaffolds. Journal of Biotechnology, 2015, 204, 53-62.	1.9	54
68	Neuronal growth and differentiation on biodegradable membranes. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 106-117.	1.3	25
69	Cell Culture. , 2015, , 1-3.		0
70	Membrane Bioreactors for Cell Growth. , 2015, , 1-3.		0
71	Artificial Liver, Membrane Operations. , 2015, , 1-3.		0
72	Central Nervous System in Relation to Membranes. , 2015, , 1-4.		0

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73	Artificial Blood Cell. , 2015, , 1-3.		0
74	Hollow Fiber Membrane Bioreactor for Cell Growth. , 2015, , 1-3.		0
75	Membrane Biomaterial. , 2015, , 1-2.		0
76	Artificial Lung. , 2014, , 1-2.		0
77	Neuroprotective Effect of Didymin on Hydrogen Peroxide-Induced Injury in the Neuronal Membrane System. Cells Tissues Organs, 2014, 199, 184-200.	1.3	46
78	Overstimulation of Glutamate Signals Leads to Hippocampal Transcriptional Plasticity in Hamsters. Cellular and Molecular Neurobiology, 2014, 34, 501-509.	1.7	8
79	Kinetics of oxygen uptake by cells potentially used in a tissue engineered trachea. Biomaterials, 2014, 35, 6829-6837.	5.7	19
80	Cell Adhesion. , 2014, , 1-2.		1
81	Membrane Biocompatibility. , 2014, , 1-2.		0
82	Cell Adhesion in Bio Artificial Organs. , 2014, , 1-2.		0
83	Embryonic Stem (ES) Cell. , 2014, , 1-2.		0
84	Membrane Bioreactor for Expansion and Differentiation of Embryonic Liver Cells. Industrial & Engineering Chemistry Research, 2013, 52, 10387-10395.	1.8	26
85	Improving the bioactivity of Zn(ii)-curcumin based complexes. Dalton Transactions, 2013, 42, 9679.	1.6	85
86	Polymeric Membranes for the Biofabrication of Tissues and Organs. , 2013, , 81-94.		2
87	Polycaprolactone-Hydroxyapatite Composite Membrane Scaffolds for Bone Tissue Engineering. Materials Research Society Symposia Proceedings, 2013, 1502, 1.	0.1	6
88	Biofabrication of Layered Membrane Systems by Using Human Hepatocytes and Endothelial Cells: A Comparative Study. Current Tissue Engineering, 2013, 2, 109-118.	0.2	2
89	Human Liver Organotypic Membrane Systems. Procedia Engineering, 2012, 44, 456-458.	1.2	0
90	Human lymphocytes cultured in 3-D bioreactors: Influence of configuration on metabolite transport and reactions. Biomaterials, 2012, 33, 8296-8303.	5.7	19

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91	Flat and tubular membrane systems for the reconstruction of hippocampal neuronal network. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 299-313.	1.3	23
92	Effect of native and NH3 plasma-functionalized polymeric membranes on the gene expression profiles of primary hepatocytes. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 486-496.	1.3	2
93	Bio-hybrid organs and tissues for patient therapy: A future vision for 2030. Chemical Engineering and Processing: Process Intensification, 2012, 51, 79-87.	1.8	20
94	Erythropoietin enhances cell proliferation and survival of human fetal neuronal progenitors in normoxia. Brain Research, 2012, 1452, 18-28.	1.1	9
95	PAN hollow fiber membranes elicit functional hippocampal neuronal network. Journal of Materials Science: Materials in Medicine, 2012, 23, 149-156.	1.7	12
96	Distinct Î± GABAAR subunits influence structural and transcriptional properties of CA1 hippocampal neurons. Neuroscience Letters, 2011, 496, 106-110.	1.0	3
97	Human hepatocytes and endothelial cells in organotypic membrane systems. Biomaterials, 2011, 32, 8848-8859.	5.7	63
98	Biodegradable and synthetic membranes for the expansion and functional differentiation of rat embryonic liver cells. Acta Biomaterialia, 2011, 7, 171-179.	4.1	41
99	Membrane bioreactors for regenerative medicine: an example of the bioartificial liver. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 146-159.	0.8	12
100	Oxygen mass transfer in a human tissue-engineered trachea. Biomaterials, 2010, 31, 5131-5136.	5.7	36
101	Influence of micro-patterned PLLA membranes on outgrowth and orientation of hippocampal neurites. Biomaterials, 2010, 31, 7000-7011.	5.7	70
102	A translational approach to micro-inflammation in end-stage renal disease: molecular effects of low levels of interleukin-6. Clinical Science, 2010, 119, 163-174.	1.8	16
103	Distinct Î± subunits of the GABA_A receptor are responsible for early hippocampal silent neuronâ€related activities. Hippocampus, 2009, 19, 1103-1114.	0.9	40
104	Human hepatocyte functions in a crossed hollow fiber membrane bioreactor. Biomaterials, 2009, 30, 2531-2543.	5.7	115
105	Improved functions of human hepatocytes on NH3 plasma-grafted PEEK-WCâ€“PU membranes. Biomaterials, 2009, 30, 4348-4356.	5.7	51
106	H₂/NH₃ Plasmaâ€Grafting of PEEKâ€WCâ€PU Membrane to Improve their cytoâ€Compatibility with Hepatocytes. Plasma Processes and Polymers, 2009, 6, S81.	1.6	5
107	Rat embryonic liver cell expansion and differentiation on NH3 plasma-grafted PEEK-WC-PU membranes. Biomaterials, 2009, 30, 6514-6521.	5.7	31
108	Influence of membrane surface properties on the growth of neuronal cells isolated from hippocampus. Journal of Membrane Science, 2008, 325, 139-149.	4.1	81

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109	Human lymphocyte PEEK-WC hollow fiber membrane bioreactor. Journal of Biotechnology, 2007, 132, 65-74.	1.9	35
110	Human Hepatocyte Morphology and Functions in a Multibore Fiber Bioreactor. Macromolecular Bioscience, 2007, 7, 671-680.	2.1	37
111	Novel membranes and surface modification able to activate specific cellular responses. New Biotechnology, 2007, 24, 23-26.	2.7	40
112	Mass transfer and metabolic reactions in hepatocyte spheroids cultured in rotating wall gas-permeable membrane system. Biomaterials, 2007, 28, 5487-5497.	5.7	222
113	Fetuin-A gene expression, synthesis and release in primary human hepatocytes cultured in a galactosylated membrane bioreactor. Biomaterials, 2007, 28, 4836-4844.	5.7	27
114	Human hepatocyte functions in a galactosylated membrane bioreactor. Journal of Membrane Science, 2007, 302, 27-35.	4.1	23
115	Membrane Bioreactor for Cell Tissues and Organoids. Artificial Organs, 2006, 30, 793-802.	1.0	28
116	Diffusive and convective transport in HF membrane reactors for biomedical applications. Desalination, 2006, 199, 135-137.	4.0	2
117	Human lymphocyte hollow fiber bioreactor. Desalination, 2006, 199, 141-143.	4.0	2
118	Human galactosylated membrane bioreactor for the long-term maintenance of liver specific functions. Desalination, 2006, 199, 147-149.	4.0	3
119	Novel bioactive polymeric membranes to elicit specific human hepatocyte responses. Desalination, 2006, 199, 261-262.	4.0	1
120	Hepatocellular functions of human liver cells in oxygen-permeable membrane device. Desalination, 2006, 200, 488-490.	4.0	0
121	Long-term maintenance of human hepatocytes in oxygen-permeable membrane bioreactor. Biomaterials, 2006, 27, 4794-4803.	5.7	71
122	Membrane bioreactor using pig hepatocytes for in vitro evaluation of anti-inflammatory drugs. Catalysis Today, 2006, 118, 172-180.	2.2	14
123	Polyethersulfone membrane biohybrid system using pig hepatocytes: Effect of diclofenac on cell biotransformation and synthetic functions. Journal of Membrane Science, 2006, 278, 133-143.	4.1	16
124	Galactose Derivative Immobilized Glow Discharge Processed Polyethersulfone Membranes Maintain the Liver Cell Metabolic Activity. Journal of Nanoscience and Nanotechnology, 2006, 6, 2344-2353.	0.9	21
125	Biotransformation and liver-specific functions of human hepatocytes in culture on RGD-immobilized plasma-processed membranes. Biomaterials, 2005, 26, 4432-4441.	5.7	89
126	Effect of isoliquiritigenin on viability and differentiated functions of human hepatocytes maintained on PEEK-WCâ€“polyurethane membranes. Biomaterials, 2005, 26, 6625-6634.	5.7	38

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127	Diffusive and convective transport through hollow fiber membranes for liver cell culture. Journal of Biotechnology, 2005, 117, 309-321.	1.9	68
128	Novel PEEK-WC membranes with low plasma protein affinity related to surface free energy parameters. Journal of Materials Science: Materials in Medicine, 2004, 15, 877-883.	1.7	32
129	New modified polyetheretherketone membrane for liver cell culture in biohybrid systems: adhesion and specific functions of isolated hepatocytes. Biomaterials, 2004, 25, 3621-3629.	5.7	40
130	Biocompatibility of Modified Polyetheretherketone (Peek-Wc) Membranes: Human Plasma Adsorption. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	2
131	Evaluation of cell behaviour related to physico-chemical properties of polymeric membranes to be used in bioartificial organs. Biomaterials, 2002, 23, 2485-2497.	5.7	139
132	Morphology and metabolism of hepatocytes cultured in Petri dishes on films and in non-woven fabrics of hyaluronic acid esters. Biomaterials, 2001, 22, 659-665.	5.7	35
133	The influence of polymeric membrane surface free energy on cell metabolic functions. Journal of Materials Science: Materials in Medicine, 2001, 12, 959-963.	1.7	61
134	A Novel Full-Scale Flat Membrane Bioreactor Utilizing Porcine Hepatocytes: Cell Viability and Tissue-Specific Functions. Biotechnology Progress, 2000, 16, 102-108.	1.3	147
135	High level benzodiazepine and ammonia clearance by flat membrane bioreactors with porcine liver cells. Journal of Biotechnology, 2000, 81, 95-105.	1.9	48
136	Performance of a flat membrane bioreactor utilizing porcine hepatocytes cultured in an extracellular matrix. , 2000, , 585-595.		1
137	The effect of surface roughness of microporous membranes on the kinetics of oxygen consumption and ammonia elimination by adherent hepatocytes. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 641-655.	1.9	45
138	Enhanced Oxygen Delivery Reverses Anaerobic Metabolic States in Prolonged Sandwich Rat Hepatocyte Culture. Experimental Cell Research, 1999, 246, 221-232.	1.2	56
139	Technique for the Kinetic Characterization of the Metabolic Reactions of Hepatocytes in Adhesion Culture. Biotechnology Progress, 1998, 14, 500-507.	1.3	13
140	Polymeric membranes for hybrid liver support devices: The effect of membrane surface wettability on hepatocyte viability and functions. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 1017-1027.	1.9	32
141	Coupled transport of amino acids through a supported liquid membrane. I. Experimental optimization. Journal of Membrane Science, 1992, 73, 203-215.	4.1	55
142	New Zinc-Based Active Chitosan Films: Physicochemical Characterization, Antioxidant, and Antimicrobial Properties. Frontiers in Chemistry, 0, 10, .	1.8	6