

Loredana De Bartolo

List of Publications by Year in descending order

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142
papers

3,001
citations

136885

32
h-index

182361

51
g-index

151
all docs

151
docs citations

151
times ranked

3125
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass transfer and metabolic reactions in hepatocyte spheroids cultured in rotating wall gas-permeable membrane system. <i>Biomaterials</i> , 2007, 28, 5487-5497.	5.7	222
2	A Novel Full-Scale Flat Membrane Bioreactor Utilizing Porcine Hepatocytes: Cell Viability and Tissue-Specific Functions. <i>Biotechnology Progress</i> , 2000, 16, 102-108.	1.3	147
3	Evaluation of cell behaviour related to physico-chemical properties of polymeric membranes to be used in bioartificial organs. <i>Biomaterials</i> , 2002, 23, 2485-2497.	5.7	139
4	Human hepatocyte functions in a crossed hollow fiber membrane bioreactor. <i>Biomaterials</i> , 2009, 30, 2531-2543.	5.7	115
5	Biotransformation and liver-specific functions of human hepatocytes in culture on RGD-immobilized plasma-processed membranes. <i>Biomaterials</i> , 2005, 26, 4432-4441.	5.7	89
6	Improving the bioactivity of Zn(ii)-curcumin based complexes. <i>Dalton Transactions</i> , 2013, 42, 9679.	1.6	85
7	Influence of membrane surface properties on the growth of neuronal cells isolated from hippocampus. <i>Journal of Membrane Science</i> , 2008, 325, 139-149.	4.1	81
8	Long-term maintenance of human hepatocytes in oxygen-permeable membrane bioreactor. <i>Biomaterials</i> , 2006, 27, 4794-4803.	5.7	71
9	Influence of micro-patterned PLLA membranes on outgrowth and orientation of hippocampal neurites. <i>Biomaterials</i> , 2010, 31, 7000-7011.	5.7	70
10	Diffusive and convective transport through hollow fiber membranes for liver cell culture. <i>Journal of Biotechnology</i> , 2005, 117, 309-321.	1.9	68
11	Human hepatocytes and endothelial cells in organotypic membrane systems. <i>Biomaterials</i> , 2011, 32, 8848-8859.	5.7	63
12	The influence of polymeric membrane surface free energy on cell metabolic functions. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 959-963.	1.7	61
13	Enhanced Oxygen Delivery Reverses Anaerobic Metabolic States in Prolonged Sandwich Rat Hepatocyte Culture. <i>Experimental Cell Research</i> , 1999, 246, 221-232.	1.2	56
14	Coupled transport of amino acids through a supported liquid membrane. I. Experimental optimization. <i>Journal of Membrane Science</i> , 1992, 73, 203-215.	4.1	55
15	Neuroprotective effect of human mesenchymal stem cells in a compartmentalized neuronal membrane system. <i>Acta Biomaterialia</i> , 2015, 24, 297-308.	4.1	54
16	Osteogenic and osteoclastogenic differentiation of co-cultured cells in polylactic acid/nanohydroxyapatite fiber scaffolds. <i>Journal of Biotechnology</i> , 2015, 204, 53-62.	1.9	54
17	Polymeric electrospun scaffolds for bone morphogenetic protein 2 delivery in bone tissue engineering. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 126-137.	5.0	54
18	Improved functions of human hepatocytes on NH ₃ plasma-grafted PEEK-WC/PU membranes. <i>Biomaterials</i> , 2009, 30, 4348-4356.	5.7	51

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19	3D liver membrane system by co-culturing human hepatocytes, sinusoidal endothelial and stellate cells. <i>Biofabrication</i> , 2017, 9, 025022.	3.7	51
20	High level benzodiazepine and ammonia clearance by flat membrane bioreactors with porcine liver cells. <i>Journal of Biotechnology</i> , 2000, 81, 95-105.	1.9	48
21	Neuroprotective Effect of Didymin on Hydrogen Peroxide-Induced Injury in the Neuronal Membrane System. <i>Cells Tissues Organs</i> , 2014, 199, 184-200.	1.3	46
22	The effect of surface roughness of microporous membranes on the kinetics of oxygen consumption and ammonia elimination by adherent hepatocytes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 641-655.	1.9	45
23	Biodegradable and synthetic membranes for the expansion and functional differentiation of rat embryonic liver cells. <i>Acta Biomaterialia</i> , 2011, 7, 171-179.	4.1	41
24	Bioengineering Organs for Blood Detoxification. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800430.	3.9	41
25	New modified polyetheretherketone membrane for liver cell culture in biohybrid systems: adhesion and specific functions of isolated hepatocytes. <i>Biomaterials</i> , 2004, 25, 3621-3629.	5.7	40
26	Novel membranes and surface modification able to activate specific cellular responses. <i>New Biotechnology</i> , 2007, 24, 23-26.	2.7	40
27	Distinct α subunits of the GABA _A receptor are responsible for early hippocampal silent neuron-related activities. <i>Hippocampus</i> , 2009, 19, 1103-1114.	0.9	40
28	Effect of isoliquiritigenin on viability and differentiated functions of human hepatocytes maintained on PEEK-WC polyurethane membranes. <i>Biomaterials</i> , 2005, 26, 6625-6634.	5.7	38
29	Human Hepatocyte Morphology and Functions in a Multibore Fiber Bioreactor. <i>Macromolecular Bioscience</i> , 2007, 7, 671-680.	2.1	37
30	Oxygen mass transfer in a human tissue-engineered trachea. <i>Biomaterials</i> , 2010, 31, 5131-5136.	5.7	36
31	Morphology and metabolism of hepatocytes cultured in Petri dishes on films and in non-woven fabrics of hyaluronic acid esters. <i>Biomaterials</i> , 2001, 22, 659-665.	5.7	35
32	Human lymphocyte PEEK-WC hollow fiber membrane bioreactor. <i>Journal of Biotechnology</i> , 2007, 132, 65-74.	1.9	35
33	Laser-treated electrospun fibers loaded with nano-hydroxyapatite for bone tissue engineering. <i>International Journal of Pharmaceutics</i> , 2017, 525, 112-122.	2.6	35
34	Sustainable fabrication and pervaporation application of bio-based membranes: Combining a polyhydroxyalkanoate (PHA) as biopolymer and Cyrene [®] as green solvent. <i>Journal of Membrane Science</i> , 2022, 643, 120061.	4.1	35
35	Polymeric membranes for hybrid liver support devices: The effect of membrane surface wettability on hepatocyte viability and functions. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1996, 7, 1017-1027.	1.9	32
36	Novel PEEK-WC membranes with low plasma protein affinity related to surface free energy parameters. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 877-883.	1.7	32

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37	Rat embryonic liver cell expansion and differentiation on NH3 plasma-grafted PEEK-WC-PU membranes. <i>Biomaterials</i> , 2009, 30, 6514-6521.	5.7	31
38	Human liver microtissue spheroids in hollow fiber membrane bioreactor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 272-280.	2.5	31
39	Composite scaffold obtained by electro-hydrodynamic technique for infection prevention and treatment in bone repair. <i>International Journal of Pharmaceutics</i> , 2019, 557, 162-169.	2.6	30
40	Membrane Bioreactor for Cell Tissues and Organoids. <i>Artificial Organs</i> , 2006, 30, 793-802.	1.0	28
41	Oxygen transport in hollow fibre membrane bioreactors for hepatic 3D cell culture: A parametric study. <i>Journal of Membrane Science</i> , 2017, 544, 312-322.	4.1	28
42	Fetuin-A gene expression, synthesis and release in primary human hepatocytes cultured in a galactosylated membrane bioreactor. <i>Biomaterials</i> , 2007, 28, 4836-4844.	5.7	27
43	Membrane Bioreactor for Expansion and Differentiation of Embryonic Liver Cells. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10387-10395.	1.8	26
44	Neuronal growth and differentiation on biodegradable membranes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 106-117.	1.3	25
45	Microtube array membrane bioreactor promotes neuronal differentiation and orientation. <i>Biofabrication</i> , 2017, 9, 025018.	3.7	24
46	Human hepatocyte functions in a galactosylated membrane bioreactor. <i>Journal of Membrane Science</i> , 2007, 302, 27-35.	4.1	23
47	Flat and tubular membrane systems for the reconstruction of hippocampal neuronal network. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, 299-313.	1.3	23
48	Neuronal membrane bioreactor as a tool for testing crocin neuroprotective effect in Alzheimer's disease. <i>Chemical Engineering Journal</i> , 2016, 305, 69-78.	6.6	22
49	Galactose Derivative Immobilized Glow Discharge Processed Polyethersulfone Membranes Maintain the Liver Cell Metabolic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2344-2353.	0.9	21
50	Bio-hybrid organs and tissues for patient therapy: A future vision for 2030. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 51, 79-87.	1.8	20
51	Human lymphocytes cultured in 3-D bioreactors: Influence of configuration on metabolite transport and reactions. <i>Biomaterials</i> , 2012, 33, 8296-8303.	5.7	19
52	Kinetics of oxygen uptake by cells potentially used in a tissue engineered trachea. <i>Biomaterials</i> , 2014, 35, 6829-6837.	5.7	19
53	Poly(μ -Caprolactone) Hollow Fiber Membranes for the Biofabrication of a Vascularized Human Liver Tissue. <i>Membranes</i> , 2020, 10, 112.	1.4	19
54	Membrane bioreactor for investigation of neurodegeneration. <i>Materials Science and Engineering C</i> , 2019, 103, 109793.	3.8	17

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55	Polyethersulfone membrane biohybrid system using pig hepatocytes: Effect of diclofenac on cell biotransformation and synthetic functions. <i>Journal of Membrane Science</i> , 2006, 278, 133-143.	4.1	16
56	A translational approach to micro-inflammation in end-stage renal disease: molecular effects of low levels of interleukin-6. <i>Clinical Science</i> , 2010, 119, 163-174.	1.8	16
57	Gas permeable membrane bioreactor for the co-culture of human skin derived mesenchymal stem cells with hepatocytes and endothelial cells. <i>Journal of Membrane Science</i> , 2018, 563, 694-707.	4.1	15
58	Anti-inflammatory effect of daidzein in human hypothalamic GnRH neurons in an in vitro membrane-based model. <i>BioFactors</i> , 2021, 47, 93-111.	2.6	15
59	Membrane bioreactor using pig hepatocytes for in vitro evaluation of anti-inflammatory drugs. <i>Catalysis Today</i> , 2006, 118, 172-180.	2.2	14
60	Zinc(II) Complexes of Acylpyrazolones Decorated with a Cyclohexyl Group Display Antiproliferative Activity Against Human Breast Cancer Cells. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1027-1039.	1.0	14
61	Technique for the Kinetic Characterization of the Metabolic Reactions of Hepatocytes in Adhesion Culture. <i>Biotechnology Progress</i> , 1998, 14, 500-507.	1.3	13
62	Membrane bioreactors for regenerative medicine: an example of the bioartificial liver. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010, 5, 146-159.	0.8	12
63	PAN hollow fiber membranes elicit functional hippocampal neuronal network. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 149-156.	1.7	12
64	Self-assembly of tissue spheroids on polymeric membranes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2090-2103.	1.3	12
65	Development of biohybrid immuno-selective membranes for target antigen recognition. <i>Biosensors and Bioelectronics</i> , 2017, 92, 54-60.	5.3	10
66	Erythropoietin enhances cell proliferation and survival of human fetal neuronal progenitors in normoxia. <i>Brain Research</i> , 2012, 1452, 18-28.	1.1	9
67	Double porous poly (ϵ -caprolactone)/chitosan membrane scaffolds as niches for human mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110493.	2.5	9
68	Hollow Fiber and Nanofiber Membranes in Bioartificial Liver and Neuronal Tissue Engineering. <i>Cells Tissues Organs</i> , 2021, , 1-30.	1.3	9
69	Overstimulation of Glutamate Signals Leads to Hippocampal Transcriptional Plasticity in Hamsters. <i>Cellular and Molecular Neurobiology</i> , 2014, 34, 501-509.	1.7	8
70	Dermal-epidermal membrane systems by using human keratinocytes and mesenchymal stem cells isolated from dermis. <i>Materials Science and Engineering C</i> , 2017, 71, 943-953.	3.8	8
71	Membrane bioreactor to guide hepatic differentiation of human mesenchymal stem cells. <i>Journal of Membrane Science</i> , 2018, 564, 832-841.	4.1	8
72	Recent Strategies Combining Biomaterials and Stem Cells for Bone, Liver and Skin Regeneration. <i>Current Stem Cell Research and Therapy</i> , 2016, 11, 676-691.	0.6	8

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73	Potential Implantable Nanofibrous Biomaterials Combined with Stem Cells for Subchondral Bone Regeneration. <i>Materials</i> , 2020, 13, 3087.	1.3	7
74	Nano- and Micro-Porous Chitosan Membranes for Human Epidermal Stratification and Differentiation. <i>Membranes</i> , 2021, 11, 394.	1.4	7
75	Biohybrid Membrane Systems and Bioreactors as Tools for In Vitro Drug Testing. <i>Current Pharmaceutical Design</i> , 2017, 23, 319-327.	0.9	7
76	Advanced Membrane Systems for Tissue Engineering. <i>Current Organic Chemistry</i> , 2017, 21, .	0.9	7
77	Polycaprolactone-Hydroxyapatite Composite Membrane Scaffolds for Bone Tissue Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1502, 1.	0.1	6
78	Polymeric membranes modulate human keratinocyte differentiation in specific epidermal layers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 352-362.	2.5	6
79	New Zinc-Based Active Chitosan Films: Physicochemical Characterization, Antioxidant, and Antimicrobial Properties. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	6
80	H ₂ /NH ₃ Plasma Grafting of PEEK-WC/PU Membrane to Improve their cyto Compatibility with Hepatocytes. <i>Plasma Processes and Polymers</i> , 2009, 6, S81.	1.6	5
81	Neuronal Differentiation Modulated by Polymeric Membrane Properties. <i>Cells Tissues Organs</i> , 2017, 204, 164-178.	1.3	5
82	Automation and control system for fluid dynamic stability in hollow fiber membrane bioreactor for cell culture. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 710-719.	1.6	5
83	PLGA Multiplex Membrane Platform for Disease Modelling and Testing of Therapeutic Compounds. <i>Membranes</i> , 2021, 11, 112.	1.4	5
84	Membrane Systems for Tissue Engineering 2020. <i>Membranes</i> , 2021, 11, 763.	1.4	4
85	Multifunctional membranes for lipidic nanovesicle capture. <i>Separation and Purification Technology</i> , 2022, 298, 121561.	3.9	4
86	Human galactosylated membrane bioreactor for the long-term maintenance of liver specific functions. <i>Desalination</i> , 2006, 199, 147-149.	4.0	3
87	Distinct α GABAAR subunits influence structural and transcriptional properties of CA1 hippocampal neurons. <i>Neuroscience Letters</i> , 2011, 496, 106-110.	1.0	3
88	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. <i>Molecular Neurobiology</i> , 2017, 54, 7369-7381.	1.9	3
89	Biocompatibility of Modified Polyetheretherketone (Peek-Wc) Membranes: Human Plasma Adsorption. <i>Materials Research Society Symposia Proceedings</i> , 2002, 752, 1.	0.1	2
90	Diffusive and convective transport in HF membrane reactors for biomedical applications. <i>Desalination</i> , 2006, 199, 135-137.	4.0	2

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91	Human lymphocyte hollow fiber bioreactor. Desalination, 2006, 199, 141-143.	4.0	2
92	Effect of native and NH ₃ 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	Polymeric Membranes for the Biofabrication of Tissues and Organs. , 2013, , 81-94.		2
94	Biohybrid Membrane Systems for Testing Molecules and Stem Cell Therapy in Neuronal Tissue Engineering. Current Pharmaceutical Design, 2017, 23, 3858-3870.	0.9	2
95	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
96	Hollow Fiber Membrane Bioreactor for Cell Growth. , 2016, , 953-955.		2
97	Novel bioactive polymeric membranes to elicit specific human hepatocyte responses. Desalination, 2006, 199, 261-262.	4.0	1
98	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
99	Editorial: Nanotechnology and Biomaterials for Cell and Drug Therapy. Current Pharmaceutical Design, 2017, 23, 3757-3758.	0.9	1
100	Bioartificial Organs: Ongoing Research and Future Trends. Cells Tissues Organs, 2022, , 125-127.	1.3	1
101	Cell Adhesion. , 2014, , 1-2.		1
102	Performance of a flat membrane bioreactor utilizing porcine hepatocytes cultured in an extracellular matrix. , 2000, , 585-595.		1
103	Hepatocellular functions of human liver cells in oxygen-permeable membrane device. Desalination, 2006, 200, 488-490.	4.0	0
104	Human Liver Organotypic Membrane Systems. Procedia Engineering, 2012, 44, 456-458.	1.2	0
105	Artificial Lung. , 2014, , 1-2.		0
106	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
107	Acute Kidney Injury (AKI). , 2015, , 1-1.		0
108	Cell Culture. , 2016, , 336-338.		0

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109	New Advanced Biomaterials for Tissue and Organ Regeneration/Repair. Cells Tissues Organs, 2017, 204, 123-124.	1.3	0
110	4.12 Membrane Approaches for Liver and Neuronal Tissue Engineering. , 2017, , 248-271.		0
111	Inaugural Young Investigator Issue for Cells Tissues Organs. Cells Tissues Organs, 2021, , .	1.3	0
112	Membrane Biocompatibility. , 2014, , 1-2.		0
113	Cell Adhesion in Bio Artificial Organs. , 2014, , 1-2.		0
114	Embryonic Stem (ES) Cell. , 2014, , 1-2.		0
115	Cell Culture. , 2015, , 1-3.		0
116	Membrane Bioreactors for Cell Growth. , 2015, , 1-3.		0
117	Artificial Liver, Membrane Operations. , 2015, , 1-3.		0
118	Central Nervous System in Relation to Membranes. , 2015, , 1-4.		0
119	Artificial Blood Cell. , 2015, , 1-3.		0
120	Hollow Fiber Membrane Bioreactor for Cell Growth. , 2015, , 1-3.		0
121	Membrane Biomaterial. , 2015, , 1-2.		0
122	Embryonic Stem (ES) Cell. , 2016, , 672-673.		0
123	Cell Adhesion. , 2016, , 333-334.		0
124	Langerhans Islet. , 2016, , 1087-1089.		0
125	Artificial Liver, Membrane Operations. , 2016, , 119-122.		0
126	Central Nervous System in Relation to Membranes. , 2016, , 349-352.		0

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127	Acute Kidney Injury (AKI). , 2016, , 7-7.		0
128	Artificial Blood Cell. , 2016, , 113-115.		0
129	Artificial Lung. , 2016, , 122-123.		0
130	Cell Adhesion in Bioartificial Organs. , 2016, , 334-336.		0
131	Cell Separation. , 2016, , 342-343.		0
132	7 Membrane bioartificial organs. , 2017, , 187-240.		0
133	6 Cell-membrane interactions. , 2017, , 165-186.		0
134	1 Natural and synthetic membranes. , 2017, , 1-48.		0
135	2 Basic issues in membrane separation for biomedical devices. , 2017, , 49-80.		0
136	3 Artificial organs. , 2017, , 81-118.		0
137	8 Regulatory framework and ethical issues. , 2017, , 241-260.		0
138	5 Engineering of membrane bio-hybrid organs. , 2017, , 139-164.		0
139	4 Blood-membrane interactions. , 2017, , 119-138.		0
140	Membrane Bioreactors for Bioartificial Organs. , 2019, , 394-413.		0
141	Membrane Bioreactors for Production and Separation. , 2019, , 374-393.		0
142	Membrane and Membrane Bioreactors Applied to Health and Life Sciences. Membranes, 2022, 12, 598.	1.4	0