Lino S Ferreira

List of Publications by Year
in descending order

141 papers	9,828 citations	38660 50 h-index	37111 96 g-index

144 all docs	144 docs citations	144 times ranked	15417 citing authors

#	Article	IF	Citations
1	Nanoparticle-mediated brain drug delivery: Overcoming bloodâ€“brain barrier to treat neurodegenerative diseases. Journal of Controlled Release, 2016, 235, 34-47.	4.8	1,018
2	Hyaluronic acid hydrogel for controlled self-renewal and differentiation of human embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11298-11303.	3.3	615
3	A biodegradable and biocompatible gecko-inspired tissue adhesive. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2307-2312.	3.3	490
4	Synthesis and Characterization of Photocurable Elastomers from Poly(glycerol-co-sebacate). Biomacromolecules, 2007, 8, 3067-3073.	2.6	266
5	New Opportunities: The Use of Nanotechnologies to Manipulate and Track Stem Cells. Cell Stem Cell, 2008, 3, 136-146.	5.2	265
6	Bioactive hydrogel scaffolds for controllable vascular differentiation of human embryonic stem cells. Biomaterials, 2007, 28, 2706-2717.	5.7	262
7	A Blood-Resistant Surgical Glue for Minimally Invasive Repair of Vessels and Heart Defects. Science Translational Medicine, 2014, 6, 218ra6.	5.8	253
8	A Stable and Reproducible Human Blood-Brain Barrier Model Derived from Hematopoietic Stem Cells. PLoS ONE, 2014, 9, e99733.	1.1	249
9	Native and bioengineered extracellular vesicles for cardiovascular therapeutics. Nature Reviews Cardiology, 2020, 17, 685-697.	6.1	228
10	Vascular Progenitor Cells Isolated From Human Embryonic Stem Cells Give Rise to Endothelial and Smooth Muscleâ€“Like Cells and Form Vascular Networks In Vivo. Circulation Research, 2007, 101, 286-294.	2.0	219
11	Synthesis and characterization of new injectable and degradable dextran-based hydrogels. Polymer, 2005, 46, 9604-9614.	1.8	209
12	Three-dimensional biomaterials for the study of human pluripotent stem cells. Nature Methods, 2011, 8, 731-736.	9.0	205
13	Co-culture of human embryonic stem cells with murine embryonic fibroblasts on microwell-patterned substrates. Biomaterials, 2006, 27, 5968-5977.	5.7	198
14	PLGA nanoparticles loaded with host defense peptide LL37 promote wound healing. Journal of Controlled Release, 2014, 194, 138-147.	4.8	193
15	Exosomes secreted by cardiomyocytes subjected to ischaemia promote cardiac angiogenesis. Cardiovascular Research, 2017, 113, 1338-1350.	1.8	193
16	Intracellular delivery of coreâ€“shell fluorescent silica nanoparticles. Biomaterials, 2008, 29, 1526-1532.	5.7	178
17	Cultivation of Human Embryonic Stem Cells Without the Embryoid Body Step Enhances Osteogenesis In Vitro. Stem Cells, 2006, 24, 835-843.	1.4	163
18	Non-leaching surfaces capable of killing microorganisms on contact. Journal of Materials Chemistry, 2009, 19, 7796.	6.7	153

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19	Evaluation of poly(2-hydroxyethyl methacrylate) gels as drug delivery systems at different pH values. International Journal of Pharmaceutics, 2000, 194, 169-180.	2.6	147
20	Human embryonic stem cell-derived microvascular grafts for cardiac tissue preservation after myocardial infarction. Biomaterials, 2011, 32, 1102-1109.	5.7	139
21	Stem Cell-Based Human Bloodâ€“Brain Barrier Models for Drug Discovery and Delivery. Trends in Biotechnology, 2016, 34, 382-393.	4.9	137
22	Nanoparticles and Surfaces Presenting Antifungal, Antibacterial and Antiviral Properties. Langmuir, 2012, 28, 7646-7656.	1.6	129
23	One-step synthesis of high-density peptide-conjugated gold nanoparticles with antimicrobial efficacy in a systemic infection model. Biomaterials, 2016, 85, 99-110.	5.7	127
24	Cell-responsive hydrogel for encapsulation of vascular cells. Biomaterials, 2009, 30, 4318-4324.	5.7	125
25	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. Applied in Vitro Toxicology, 2016, 2, 82-96.	0.6	124
26	Antifungal hydrogels. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12994-12998.	3.3	101
27	The Kinetics of Small Extracellular Vesicle Delivery Impacts Skin Tissue Regeneration. ACS Nano, 2019, 13, 8694-8707.	7.3	100
28	Histamine modulates microglia function. Journal of Neuroinflammation, 2012, 9, 90.	3.1	95
29	A Highly Tunable Biocompatible and Multifunctional Biodegradable Elastomer. Advanced Materials, 2013, 25, 1209-1215.	11.1	94
30	High-density antimicrobial peptide coating with broad activity and low cytotoxicity against human cells. Acta Biomaterialia, 2016, 33, 64-77.	4.1	93
31	Improved Survival, Vascular Differentiation and Wound Healing Potential of Stem Cells Co-Cultured with Endothelial Cells. PLoS ONE, 2011, 6, e16114.	1.1	88
32	Controlling the Neuronal Differentiation of Stem Cells by the Intracellular Delivery of Retinoic Acid-Loaded Nanoparticles. ACS Nano, 2011, 5, 97-106.	7.3	87
33	Polymeric Nanoparticles to Control the Differentiation of Neural Stem Cells in the Subventricular Zone of the Brain. ACS Nano, 2012, 6, 10463-10474.	7.3	85
34	Isolation, differentiation and characterization of vascular cells derived from human embryonic stem cells. Nature Protocols, 2010, 5, 1115-1126.	5.5	84
35	Proliferation and skeletal myotube formation capability of C2C12 and H9c2 cells on isotropic and anisotropic electrospun nanofibrous PHB scaffolds. Biomedical Materials (Bristol), 2012, 7, 035010.	1.7	84
36	Nanoparticles for intracellular-targeted drug delivery. Nanotechnology, 2011, 22, 494002.	1.3	83

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37	Antifungal Nanoparticles and Surfaces. Biomacromolecules, 2010, 11, 2810-2817.	2.6	75
38	Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model. Small, 2017, 13, 1603737.	5.2	75
39	Enzymatic synthesis of dextran-containing hydrogels. Biomaterials, 2002, 23, 3957-3967.	5.7	72
40	Influence of different silica derivatives in the immobilization and stabilization of a Bacillus licheniformis protease (Subtilisin Carlsberg). Journal of Molecular Catalysis B: Enzymatic, 2003, 21, 189-199.	1.8	68
41	Human Embryoid Bodies Containing Nanoâ€and Microparticulate Delivery Vehicles. Advanced Materials, 2008, 20, 2285-2291.	11.1	68
42	Retinoic acid-loaded polymeric nanoparticles induce neuroprotection in a mouse model for Parkinson's disease. Frontiers in Aging Neuroscience, 2015, 7, 20.	1.7	67
43	Boron Nitride Nanotube-Mediated Stimulation of Cell Co-Culture on Micro-Engineered Hydrogels. PLoS ONE, 2013, 8, e71707.	1.1	66
44	Biocatalytic synthesis of highly ordered degradable dextran-based hydrogels. Biomaterials, 2005, 26, 4707-4716.	5.7	65
45	Advances and challenges in retinoid delivery systems in regenerative and therapeutic medicine. Nature Communications, 2020, 11, 4265.	5.8	65
46	Nanoparticles as tools to study and control stem cells. Journal of Cellular Biochemistry, 2009, 108, 746-752.	1.2	62
47	High Antimicrobial Activity and Low Human Cell Cytotoxicity of Coreâ€“Shell Magnetic Nanoparticles Functionalized with an Antimicrobial Peptide. ACS Applied Materials & Interfaces, 2016, 8, 11366-11378.	4.0	56
48	Preparation and characterisation of gels based on sucrose modified with glycidyl methacrylate. Carbohydrate Polymers, 2000, 41, 15-24.	5.1	55
49	Interaction of Fullerene Nanoparticles With Biomembranes: From the Partition in Lipid Membranes to Effects on Mitochondrial Bioenergetics. Toxicological Sciences, 2014, 138, 117-129.	1.4	53
50	Biocompatibility of chemoenzymatically derived dextran-acrylate hydrogels. Journal of Biomedical Materials Research Part B, 2004, 68A, 584-596.	3.0	52
51	Antimicrobial peptide-gold nanoscale therapeutic formulation with high skin regenerative potential. Journal of Controlled Release, 2017, 262, 58-71.	4.8	48
52	Antimicrobial peptide-based materials: opportunities and challenges. Journal of Materials Chemistry B, 2022, 10, 2384-2429.	2.9	47
53	Histamine Stimulates Neurogenesis in the Rodent Subventricular Zone. Stem Cells, 2012, 30, 773-784.	1.4	46
54	Restoring heart function and electrical integrity: closing the circuit. Npj Regenerative Medicine, 2017, 2, 9.	2.5	44

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55	Exogenous loading of miRNAs into small extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12111.	5.5	43
56	Anti-Inflammatory Strategy for M2 Microglial Polarization Using Retinoic Acid-Loaded Nanoparticles. Mediators of Inflammation, 2017, 2017, 1-11.	1.4	41
57	Derivation of Brain Capillary-like Endothelial Cells from Human Pluripotent Stem Cell-Derived Endothelial Progenitor Cells. Stem Cell Reports, 2019, 13, 599-611.	2.3	41
58	A positron-emission tomography (PET)/magnetic resonance imaging (MRI) platform to track in vivo small extracellular vesicles. Nanoscale, 2019, 11, 13243-13248.	2.8	40
59	Efficient Pro-survival/angiogenic miRNA Delivery by an MRI-Detectable Nanomaterial. ACS Nano, 2013, 7, 3362-3372.	7.3	38
60	Modulation of Angiogenic Activity by Light-Activatable miRNA-Loaded Nanocarriers. ACS Nano, 2018, 12, 5207-5220.	7.3	36
61	High-throughput identification of small molecules that affect human embryonic vascular development. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3022-E3031.	3.3	35
62	Synthetic microparticles conjugated with VEGF165 improve the survival of endothelial progenitor cells via microRNA-17 inhibition. Nature Communications, 2017, 8, 747.	5.8	35
63	Spatially resolved analysis of FFPE tissue proteomes by quantitative mass spectrometry. Nature Protocols, 2020, 15, 2956-2979.	5.5	35
64	A photodynamic antibacterial spray-coating based on the hostâ€“guest immobilization of the photosensitizer methylene blue. Journal of Materials Chemistry B, 2019, 7, 5089-5095.	2.9	33
65	Towards the Maturation and Characterization of Smooth Muscle Cells Derived from Human Embryonic Stem Cells. PLoS ONE, 2011, 6, e17771.	1.1	32
66	MicroRNA-124-loaded nanoparticles increase survival and neuronal differentiation of neural stem cells in vitro but do not contribute to stroke outcome in vivo. PLoS ONE, 2018, 13, e0193609.	1.1	31
67	Improving the adhesion of poly(ethylene terephthalate) fibers to poly(hydroxyethyl methacrylate) hydrogels by ozone treatment: Surface characterization and pull-out tests. Polymer, 2005, 46, 9840-9850.	1.8	30
68	A nanoformulation for the preferential accumulation in adult neurogenic niches. Journal of Controlled Release, 2018, 284, 57-72.	4.8	30
69	Design of a Drug-Delivery System Based On Polyacrylamide Hydrogels. Evaluation of Structural Properties. The Chemical Educator, 2001, 6, 100-103.	0.0	28
70	A High Throughput Phenotypic Screening reveals compounds that counteract premature osteogenic differentiation of HGPS iPS-derived mesenchymal stem cells. Scientific Reports, 2016, 6, 34798.	1.6	28
71	Nanomedicine Approaches to Modulate Neural Stem Cells in Brain Repair. Trends in Biotechnology, 2016, 34, 437-439.	4.9	28
72	Bioprocess decision support tool for scalable manufacture of extracellular vesicles. Biotechnology and Bioengineering, 2019, 116, 307-319.	1.7	28

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73	Cooperative Transcription Factor Induction Mediates Hemogenic Reprogramming. Cell Reports, 2018, 25, 2821-2835.e7.	2.9	27
74	Unveiling the molecular crosstalk in a human induced pluripotent stem cellâ€derived cardiac model. Biotechnology and Bioengineering, 2019, 116, 1245-1252.	1.7	27
75	MicroRNA-124-3p-enriched small extracellular vesicles as a therapeutic approach for Parkinsonâ€™s disease. Molecular Therapy, 2022, 30, 3176-3192.	3.7	27
76	Nanomedicine boosts neurogenesis: new strategies for brain repair. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.6	26
77	Light-triggerable formulations for the intracellular controlled release of biomolecules. Drug Discovery Today, 2018, 23, 1062-1070.	3.2	26
78	Enzymatic Synthesis of Inulin-Containing Hydrogels. Biomacromolecules, 2002, 3, 333-341.	2.6	25
79	Engineered extracellular vesicles as brain therapeutics. Journal of Controlled Release, 2021, 338, 472-485.	4.8	25
80	Methods for Embryoid Body Formation: The Microwell Approach. Methods in Molecular Biology, 2011, 690, 151-162.	0.4	24
81	Blue light potentiates neurogenesis induced by retinoic acid-loaded responsive nanoparticles. Acta Biomaterialia, 2017, 59, 293-302.	4.1	24
82	A Lightâ€Triggerable Nanoparticle Library for the Controlled Release of Nonâ€Coding RNAs. Angewandte Chemie - International Edition, 2020, 59, 1985-1991.	7.2	24
83	Traceable microRNA-124 loaded nanoparticles as a new promising therapeutic tool for Parkinson's disease. Neurogenesis (Austin, Tex), 2016, 3, e1256855.	1.5	23
84	Lysophosphatidic acid enhances survival of human CD34+ cells in ischemic conditions. Scientific Reports, 2015, 5, 16406.	1.6	22
85	Stem cells as vehicles and targets of nanoparticles. Drug Discovery Today, 2018, 23, 1071-1078.	3.2	21
86	Biomedical applications of the peptide decorated gold nanoparticles. Critical Reviews in Biotechnology, 2021, 41, 186-215.	5.1	21
87	Refinement of a differentiation protocol using neuroblastoma SH-SY5Y cells for use in neurotoxicology research. Food and Chemical Toxicology, 2021, 149, 111967.	1.8	21
88	Prolonged intracellular accumulation of light-inducible nanoparticles in leukemia cells allows their remote activation. Nature Communications, 2017, 8, 15204.	5.8	20
89	Endothelial progenitor cells enhance bloodâ€“brain barrier permeability in subacute stroke. Neurology, 2018, 90, e127-e134.	1.5	20
90	Vulnerability of progeroid smooth muscle cells to biomechanical forces is mediated by MMP13. Nature Communications, 2020, 11, 4110.	5.8	20

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91	Antifungal activity of dental resins containing amphotericin B-conjugated nanoparticles. Dental Materials, 2013, 29, e252-e262.	1.6	18
92	Boron nitride nanotube-mediated stimulation modulates F/G-actin ratio and mechanical properties of human dermal fibroblasts. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	17
93	Human Extracellular-Matrix Functionalization of 3D hiPSC-Based Cardiac Tissues Improves Cardiomyocyte Maturation. ACS Applied Bio Materials, 2021, 4, 1888-1899.	2.3	17
94	Exquisite Regioselectivity and Increased Transesterification Activity of an Immobilized Bacillus subtilis Protease. Biotechnology Progress, 2002, 18, 986-993.	1.3	16
95	Combined Surface Micropatterning and Reactive Chemistry Maximizes Tissue Adhesion with Minimal Inflammation. Advanced Healthcare Materials, 2014, 3, 565-571.	3.9	16
96	Intravenous administration of retinoic acid-loaded polymeric nanoparticles prevents ischemic injury in the immature brain. Neuroscience Letters, 2018, 673, 116-121.	1.0	16
97	Interindividual heterogeneity affects the outcome of human cardiac tissue decellularization. Scientific Reports, 2021, 11, 20834.	1.6	16
98	Antimicrobial and pro-angiogenic properties of soluble and nanoparticle-immobilized LL37 peptides. Biomaterials Science, 2021, 9, 8153-8159.	2.6	16
99	Differential internalization of amphotericin B â€“ Conjugated nanoparticles in human cells and the expression of heat shock proteinÂ70. Biomaterials, 2013, 34, 5281-5293.	5.7	14
100	Cecropinâ€“Melittin Functionalized Polyurethane Surfaces Prevent Staphylococcus epidermidis Adhesion without Inducing Platelet Adhesion and Activation. Advanced Materials Interfaces, 2018, 5, 1801390.	1.9	14
101	Revisiting gene delivery to the brain: silencing and editing. Biomaterials Science, 2021, 9, 1065-1087.	2.6	14
102	Therapeutic Nanoparticles for the Different Phases of Ischemic Stroke. Life, 2021, 11, 482.	1.1	14
103	Sensing the Cardiac Environment: Exploiting Cues for Regeneration. Journal of Cardiovascular Translational Research, 2011, 4, 616-630.	1.1	12
104	Nanoparticles Conjugated with Photocleavable Linkers for the Intracellular Delivery of Biomolecules. Bioconjugate Chemistry, 2018, 29, 1485-1489.	1.8	12
105	Atomistic-Level Investigation of a LL37-Conjugated Gold Nanoparticle By Well-Tempered Metadynamics. Journal of Physical Chemistry B, 2018, 122, 8359-8366.	1.2	12
106	Antimicrobial Peptide-Tether Dressing Able to Enhance Wound Healing by Tissue Contact. ACS Applied Materials & Interfaces, 2022, 14, 24213-24228.	4.0	12
107	High-throughput screening of nanoparticles in drug delivery. APL Bioengineering, 2021, 5, 031511.	3.3	11
108	Biocatalytic Polytransesterification of Inulin with Divinyladipate. Chemistry of Materials, 2002, 14, 4009-4011.	3.2	10

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109	Intracellular delivery of more than one protein with spatio-temporal control. Nanoscale, 2017, 9, 18668-18680.	2.8	10
110	A near infrared light-triggerable modular formulation for the delivery of small biomolecules. Journal of Nanobiotechnology, 2019, 17, 97.	4.2	10
111	Inflammatory modulation of stem cells by Magnetic Resonance Imaging (MRI)-detectable nanoparticles. RSC Advances, 2014, 4, 31706-31709.	1.7	9
112	What human blood-brain barrier models can tell us about BBB function and drug discovery?. Expert Opinion on Drug Discovery, 2019, 14, 1113-1123.	2.5	9
113	Efficient spatially targeted gene editing using a near-infrared activatable protein-conjugated nanoparticle for brain applications. Nature Communications, 2022, 13, .	5.8	9
114	Findings on the interaction of the antimicrobial peptide cecropin-melittin with a gold surface from molecular dynamics studies. European Biophysics Journal, 2017, 46, 247-256.	1.2	8
115	Endothelial Progenitor Cells influence acute and subacute stroke hemodynamics. Journal of the Neurological Sciences, 2018, 385, 119-125.	0.3	8
116	Embryonic stem cells as a cell source for tissue engineering. , 2020, , 467-490.		8
117	A high-throughput screening platform to identify nanocarriers for efficient delivery of RNA-based therapies. Methods, 2020, 190, 13-25.	1.9	8
118	VEGF-Functionalized Dextran Has Longer Intracellular Bioactivity than VEGF in Endothelial Cells. Biomacromolecules, 2012, 13, 2906-2916.	2.6	7
119	STROKE34 Study Protocol: A Randomized Controlled Phase IIa Trial of Intra-Arterial CD34+ Cells in Acute Ischemic Stroke. Frontiers in Neurology, 2018, 9, 302.	1.1	7
120	A light-triggerable formulation to control the stability of pro-angiogenic transcription factor hypoxia inducible factor-1Î± (HIF-1Î±). Nanoscale, 2020, 12, 9935-9942.	2.8	7
121	Induced pluripotent stem cell-derived vascular networks to screen nanoâ€“bio interactions. Nanoscale Horizons, 2021, 6, 245-259.	4.1	7
122	Vascular Differentiation of Human Embryonic Stem Cells in Bioactive Hydrogel-Based Scaffolds. Methods in Molecular Biology, 2009, 584, 333-354.	0.4	7
123	Extracellular vesicles enriched with an endothelial cell pro-survival microRNA affects skin tissue regeneration. Molecular Therapy - Nucleic Acids, 2022, 28, 307-327.	2.3	7
124	Vascular disease modeling using induced pluripotent stem cells: Focus in Hutchinson-Gilford Progeria Syndrome. Biochemical and Biophysical Research Communications, 2016, 473, 710-718.	1.0	6
125	Substrate Topography Modulates Cell Aging on a Progeria Cell Model. ACS Biomaterials Science and Engineering, 2018, 4, 1498-1504.	2.6	6
126	Challenging the great vascular wall: Can we envision a simple yet comprehensive therapy for stroke?. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e350-e354.	1.3	6

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127	Embryonic Stem Cells as a Cell Source for Tissue Engineering. , 2014, , 609-638.		5
128	Spatially Confining Surface Roughness on Exponentially Growing Polyelectrolyte Multilayer Films. Advanced Materials Interfaces, 2019, 6, 1900702.	1.9	5
129	Nanoparticle-Based Drug Delivery Systems: Promising Approaches Against Bacterial Infections. , 2019, , 605-633.		5
130	Permeability of the blood-brain barrier through the phases of ischaemic stroke and relation with clinical outcome: protocol for a systematic review. BMJ Open, 2020, 10, e039280.	0.8	4
131	Overview of Tissue Engineering Concepts and Applications. , 2013, , 1122-1137.		3
132	A Lightâ€Triggerable Nanoparticle Library for the Controlled Release of Nonâ€Coding RNAs. Angewandte Chemie, 2020, 132, 2001-2007.	1.6	3
133	Multiâ€parametric surface plasmon resonanceâ€based intake quantification of labelâ€free lightâ€activated nanoparticles by therapeutic limbal stem cells for corneal blindness. Nano Select, 2022, 3, 1232-1241.	1.9	2
134	Scaffolding for Three-Dimensional Embryonic Vasculogenesis. Biological and Medical Physics Series, 2011, , 49-67.	0.3	1
135	Organâ€Onâ€Aâ€Chip: Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model (Small) Tj ETQq1 1 0.784	5.2	1
136	A Highâ€Throughput Screening Method to Identify Compounds Displaying Human Vascular Embryonic Toxicity. Current Protocols in Stem Cell Biology, 2019, 50, e93.	3.0	1
137	Part C: Directed Differentiation of Human Embryonic Stem Cells into Osteoblasts Cells. , 0, , 249-271.		0
138	Embryonic Stem Cells as a Cell Source for Tissue Engineering. , 2007, , 445-458.		0
139	Physiological and Pathological Vascular Aging. Biological and Medical Physics Series, 2018, , 51-72.	0.3	0
140	Gecko-Inspired Tape-Based Adhesives. , 2012, , 195-223.		0
141	Vascular Differentiation of Human Pluripotent Stem Cells. , 2012, , 97-115.		0