Ana Colette MaurÃ®cio

List of Publications by Year
in descending order

106 papers	2,309 citations	201674 27 h-index	265206 42 g-index
116 all docs	116 docs citations	116 times ranked	2812 citing authors

#	Article	IF	Citations
1	Use of hybrid chitosan membranes and N1E-115 cells for promoting nerve regeneration in an axonotmesis rat model. Biomaterials, 2008, 29, 4409-4419.	11.4	115
2	Long-term functional and morphological assessment of a standardized rat sciatic nerve crush injury with a non-serrated clamp. Journal of Neuroscience Methods, 2007, 163, 92-104.	2.5	97
3	Biocompatibility and hemocompatibility of polyvinyl alcohol hydrogel used for vascular grafting-In vitroandin vivostudies. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	4.0	84
4	Effect of skin movement on the analysis of hindlimb kinematics during treadmill locomotion in rats. Journal of Neuroscience Methods, 2006, 153, 55-61.	2.5	77
5	Peripheral Nerve Injury Treatments and Advances: One Health Perspective. International Journal of Molecular Sciences, 2022, 23, 918.	4.1	70
6	PLGA 90/10 and caprolactone biodegradable nerve guides for the reconstruction of the rat sciatic nerve. Microsurgery, 2007, 27, 125-137.	1.3	66
7	Peripheral nerve injury and axonotmesis: State of the art and recent advances. Cogent Medicine, 2018, 5, 1466404.	0.7	65
8	Use of poly(DL-lactide-Îµ-caprolactone) membranes and mesenchymal stem cells from the Wharton's jelly of the umbilical cord for promoting nerve regeneration in axonotmesis: In vitro and in vivo analysis. Differentiation, 2012, 84, 355-365.	1.9	62
9	A comparison analysis of hindlimb kinematics during overground and treadmill locomotion in rats. Behavioural Brain Research, 2006, 172, 212-218.	2.2	61
10	Studies on the biocompatibility of bacterial cellulose. Journal of Bioactive and Compatible Polymers, 2013, 28, 97-112.	2.1	59
11	MSCs Conditioned Media and Umbilical Cord Blood Plasma Metabolomics and Composition. PLoS ONE, 2014, 9, e113769.	2.5	59
12	Methylprednisolone fails to improve functional and histological outcome following spinal cord injury in rats. Experimental Neurology, 2009, 220, 71-81.	4.1	58
13	Cell Therapy with Human MSCs Isolated from the Umbilical Cord Wharton Jelly Associated to a PVA Membrane in the Treatment of Chronic Skin Wounds. International Journal of Medical Sciences, 2014, 11, 979-987.	2.5	53
14	Rolipram promotes functional recovery after contusive thoracic spinal cord injury in rats. Behavioural Brain Research, 2013, 243, 66-73.	2.2	48
15	Neuromuscular Regeneration: Perspective on the Application of Mesenchymal Stem Cells and Their Secretion Products. Stem Cells International, 2016, 2016, 1-16.	2.5	48
16	Mesenchymal Stem/Stromal Cells and Their Paracrine Activityâ€"Immunomodulation Mechanisms and How to Influence the Therapeutic Potential. Pharmaceutics, 2022, 14, 381.	4.5	46
17	A comparison of two-dimensional and three-dimensional techniques for the determination of hindlimb kinematics during treadmill locomotion in rats following spinal cord injury. Journal of Neuroscience Methods, 2008, 173, 193-200.	2.5	44
18	Use of PLGA 90:10 Scaffolds Enriched withIn Vitroâ€"Differentiated Neural Cells for Repairing Rat Sciatic Nerve Defects. Tissue Engineering - Part A, 2008, 14, 979-993.	3.1	44

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19	Effects of collagen membranes enriched with in vitro-differentiated N1E-115 cells on rat sciatic nerve regeneration after end-to-end repair. Journal of NeuroEngineering and Rehabilitation, 2010, 7, 7.	4.6	41
20	Biological evaluation of alginate-based hydrogels, with antimicrobial features by Ce(III) incorporation, as vehicles for a bone substitute. Journal of Materials Science: Materials in Medicine, 2013, 24, 2145-2155.	3.6	40
21	Chapter 7 Methods and Protocols in Peripheral Nerve Regeneration Experimental Research. International Review of Neurobiology, 2009, 87, 127-139.	2.0	35
22	Effects of Human Mesenchymal Stem Cells Isolated from Whartonâ€™s Jelly of the Umbilical Cord and Conditioned Media on Skeletal Muscle Regeneration Using a Myectomy Model. Stem Cells International, 2014, 2014, 1-16.	2.5	34
23	The use of sheep as a model for studying peripheral nerve regeneration following nerve injury: review of the literature. Neurological Research, 2017, 39, 926-939.	1.3	33
24	Effect of Zona Pellucida Removal on DNA Methylation in Early Mouse Embryos1. Biology of Reproduction, 2006, 74, 307-313.	2.7	32
25	Promoting Nerve Regeneration in a Neurotmesis Rat Model Using Poly(DL-lactide-<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Mesenchymal Stem Cells from the Whartonâ€™s Jelly:In VitroandIn VivoAnalysis. BioMed Research International, 2014, 2014, 1-17.	1.9	31
26	The Nasal Cavity of the Rat and Mouseâ€"Source of Mesenchymal Stem Cells for Treatment of Peripheral Nerve Injury. Anatomical Record, 2018, 301, 1678-1689.	1.4	31
27	Neural cell transplantation effects on sciatic nerve regeneration after a standardized crush injury in the rat. Microsurgery, 2008, 28, 458-470.	1.3	30
28	In vitroandin vivoevaluation of blood coagulation activation of polyvinyl alcohol hydrogel plus dextran-based vascular grafts. Journal of Biomedical Materials Research - Part A, 2015, 103, 1366-1379.	4.0	29
29	Development of a Zona-Free Method of Nuclear Transfer in the Mouse. Cloning and Stem Cells, 2005, 7, 126-138.	2.6	28
30	Dental pulp stem cells and BonelikeÂ® for bone regeneration in ovine model. International Journal of Energy Production and Management, 2019, 6, 49-59.	3.7	28
31	Mesenchymal Stem/ Stromal Cells metabolomic and bioactive factors profiles: A comparative analysis on the umbilical cord and dental pulp derived Stem/ Stromal Cells secretome. PLoS ONE, 2019, 14, e0221378.	2.5	27
32	Use of hybrid chitosan membranes and human mesenchymal stem cells from the Wharton jelly of umbilical cord for promoting nerve regeneration in an axonotmesis rat model. Neural Regeneration Research, 2012, 7, 2247-58.	3.0	27
33	A Clinical Report of Bone Regeneration in Maxillofacial Surgery using Bonelike Â® Synthetic Bone Graft. Journal of Biomaterials Applications, 2008, 22, 373-385.	2.4	26
34	Perspectives of Employing Mesenchymal Stem Cells from the Whartonâ€™s Jelly of the Umbilical Cord for Peripheral Nerve Repair. International Review of Neurobiology, 2013, 108, 79-120.	2.0	26
35	Characterization and preliminary in vivo evaluation of a novel modified hydroxyapatite produced by extrusion and spheronization techniques. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 99B, 170-179.	3.4	25
36	The in vivo performance of an alkaliâ€free bioactive glass for bone grafting, <scp>F</scp>ast<scp>O</scp>s^{Â®}<scp>BG</scp>, assessed with an ovine model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 30-38.	3.4	25

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37	Mesenchymal Stem Cells (MSCs) as a Potential Therapeutic Strategy in COVID-19 Patients: Literature Research. Frontiers in Cell and Developmental Biology, 2020, 8, 602647.	3.7	25
38	Combined Use of Chitosan and Olfactory Mucosa Mesenchymal Stem/Stromal Cells to Promote Peripheral Nerve Regeneration In Vivo. Stem Cells International, 2021, 2021, 1-32.	2.5	25
39	Deoxycholic acid (DOC) affects the transport properties of distal colon. Pflugers Archiv European Journal of Physiology, 2000, 439, 532-540.	2.8	24
40	Human umbilical cord blood plasma as an alternative to animal sera for mesenchymal stromal cells in vitro expansion â€“ A multicomponent metabolomic analysis. PLoS ONE, 2018, 13, e0203936.	2.5	22
41	The sensitivity of two-dimensional hindlimb joint kinematics analysis in assessing functional recovery in rats after sciatic nerve crush. Behavioural Brain Research, 2011, 225, 562-573.	2.2	21
42	Evaluation of biodegradable electric conductive tube-guides and mesenchymal stem cells. World Journal of Stem Cells, 2015, 7, 956.	2.8	20
43	Morphology effect of bioglassâ€reinforced hydroxyapatite (<scp>Bonelike^{Â®}</scp>) on osteoregeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 292-304.	3.4	19
44	Evaluation of PVA biodegradable electric conductive membranes for nerve regeneration in axonotmesis injuries: the rat sciatic nerve animal model. Journal of Biomedical Materials Research - Part A, 2017, 105, 1267-1280.	4.0	19
45	A glass-reinforced hydroxyapatite and surgical-grade calcium sulfate for bone regeneration:InÂvivobiological behavior in a sheep model. Journal of Biomaterials Applications, 2012, 27, 201-217.	2.4	18
46	Long term performance evaluation of small-diameter vascular grafts based on polyvinyl alcohol hydrogel and dextran and MSCs-based therapies using the ovine pre-clinical animal model. International Journal of Pharmaceutics, 2017, 523, 515-530.	5.2	17
47	Titanium dental implants coated with BonelikeÂ®: Clinical case report. Thin Solid Films, 2006, 515, 279-284.	1.8	16
48	Jaw avascular osteonecrosis after treatment of multiple myeloma with zoledronate. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2008, 61, 99-106.	1.0	16
49	Challenges for Nerve Repair Using Chitosan-Siloxane Hybrid Porous Scaffolds. BioMed Research International, 2014, 2014, 1-7.	1.9	16
50	Small Ruminants and Its Use in Regenerative Medicine: Recent Works and Future Perspectives. Biology, 2021, 10, 249.	2.8	16
51	Modifications to Improve the Efficiency of Zona-Free Mouse Nuclear Transfer. Cloning and Stem Cells, 2006, 8, 10-15.	2.6	15
52	Long term performance evaluation of small-diameter vascular grafts based on polyvinyl alcohol hydrogel and dextran and MSCs-based therapies using the ovine pre-clinical animal model. International Journal of Pharmaceutics, 2016, 513, 332-346.	5.2	15
53	Use of chitosan scaffolds for repairing rat sciatic nerve defects. Italian Journal of Anatomy and Embryology, 2010, 115, 190-210.	0.1	14
54	Assessment of BonelikeÂ® graft with a resorbable matrix using an animal model. Thin Solid Films, 2006, 515, 362-367.	1.8	13

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55	Preparation and characterization of electrical conductive PVA based materials for peripheral nerve tube-guides. Journal of Biomedical Materials Research - Part A, 2016, 104, 1981-1987.	4.0	12
56	Inflammatory response to dextrin-based hydrogel associated with human mesenchymal stem cells, urinary bladder matrix and Bonelike ^{Â®} granules in rat subcutaneous implants. Biomedical Materials (Bristol), 2016, 11, 065004.	3.3	12
57	Establishment of a Sheep Model for Hind Limb Peripheral Nerve Injury: Common Peroneal Nerve. International Journal of Molecular Sciences, 2021, 22, 1401.	4.1	12
58	3D Printed Poly(?-caprolactone)/Hydroxyapatite Scaffolds for Bone Tissue Engineering: A Comparative Study on a Composite Preparation by Melt Blending or Solvent Casting Techniques and the Influence of Bioceramic Content on Scaffold Properties. International Journal of Molecular Sciences, 2022, 23, 2318.	4.1	12
59	Dextran-based tube-guides for the regeneration of the rat sciatic nerve after neurotmesis injury. Biomaterials Science, 2020, 8, 798-811.	5.4	11
60	Rat Olfactory Mucosa Mesenchymal Stem/Stromal Cells (OM-MSCs): A Characterization Study. International Journal of Cell Biology, 2020, 2020, 1-21.	2.5	11
61	In Vitro and In Vivo Characterization of PLLA-316L Stainless Steel Electromechanical Devices for Bone Tissue Engineeringâ€"A Preliminary Study. International Journal of Molecular Sciences, 2021, 22, 7655.	4.1	11
62	A new sheep model with automatized analysis of biomaterial-induced bone tissue regeneration. Journal of Materials Science: Materials in Medicine, 2014, 25, 1885-1901.	3.6	10
63	Kinematic and kinetic gait analysis to evaluate functional recovery in thoracic spinal cord injured rats. Neuroscience and Biobehavioral Reviews, 2019, 98, 18-28.	6.1	10
64	Assessment of the Potential of Bonelike^{Â®} Graft for Bone Regeneration by Using an Animal Model. Key Engineering Materials, 2005, 284-286, 877-880.	0.4	9
65	Neuro-muscular Regeneration Using Scaffolds with Mesenchymal Stem Cells (MSCs) Isolated from Human Umbilical Cord Wharton's Jelly: Functional and Morphological Analysis Using Rat Sciatic Nerve Neurotmesis Injury Model. Procedia Engineering, 2015, 110, 106-113.	1.2	9
66	The role of hybrid chitosan membranes on scarring process following lumbar surgery: post-laminectomy experimental model. Neurological Research, 2015, 37, 23-29.	1.3	9
67	Regeneration of critical-sized defects, in a goat model, using a dextrin-based hydrogel associated with granular synthetic bone substitute. International Journal of Energy Production and Management, 2021, 8, rbaa036.	3.7	9
68	Molecular and Functional Characterization of CBAVD-Causing Mutations Located in CFTR Nucleotide-Binding Domains. Cellular Physiology and Biochemistry, 2008, 22, 079-092.	1.6	8
69	Anatomical Reference Frame versus Planar Analysis: Implications for the Kinematics of the Rat Hindlimb during Locomotion. Reviews in the Neurosciences, 2010, 21, .	2.9	8
70	Kinematic patterns for hindlimb obstacle avoidance during sheep locomotion. Neurological Research, 2018, 40, 963-971.	1.3	8
71	The Application of Mesenchymal Stem Cells on Wound Repair and Regeneration. Applied Sciences (Switzerland), 2021, 11, 3000.	2.5	8
72	Central airway obstruction: is it time to move forward?. BMC Pulmonary Medicine, 2022, 22, 68.	2.0	8

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73	The Effect of Gait Speed on Three-Dimensional Analysis of Hindlimb Kinematics during Treadmill Locomotion in Rats. Reviews in the Neurosciences, 2010, 21, 487-97.	2.9	7
74	Scaffolds for Peripheral Nerve Regeneration, the Importance of In Vitro and In Vivo Studies for the Development of Cell-Based Therapies and Biomaterials: State of the Art. , 2017, , .		6
75	Application of BonelikeÂ® as synthetic bone graft in orthopaedic and oral surgery in veterinary clinical cases. Biomaterials Research, 2018, 22, 38.	6.9	6
76	Anatomical reference frame versus planar analysis: implications for the kinematics of the rat hindlimb during locomotion. Reviews in the Neurosciences, 2010, 21, 469-85.	2.9	6
77	Mesenchymal Stem Cells and Biomaterials Systems â€“ Perspectives for Skeletal Muscle Tissue Repair and Regeneration. Procedia Engineering, 2015, 110, 90-97.	1.2	5
78	Activation of ionic channels by deoxycholate in frog and human cell lines. Experimental Physiology, 1999, 84, 489-499.	2.0	5
79	Determination of the intracellular Ca2+ concentration in the N1E-115 neuronal cell line in perspective of its use for peripheric nerve regeneration. Bio-Medical Materials and Engineering, 2005, 15, 455-65.	0.6	5
80	Hybrid Chitosan Membranes Tested in Sheep for Guided Tissue Regeneration. Key Engineering Materials, 2007, 361-363, 1265-1268.	0.4	4
81	Synthesis of PEGylated methotrexate conjugated with a novel CPP6, in sillico structural insights and activity in MCF-7â€¯cells. Journal of Molecular Structure, 2019, 1192, 201-207.	3.6	4
82	Innovative tailor made dextran based membranes with excellent non-inflammatory response: In vivo assessment. Materials Science and Engineering C, 2020, 107, 110243.	7.3	4
83	Intracellular Ca2+ concentration in the N1E-115 neuronal cell line and its use for peripheric nerve regeneration. Acta Medica Portuguesa, 2005, 18, 323-8.	0.4	4
84	Activity-Based Strategies in the Rehabilitation of Peripheral Nerve Injuries. , 0, , .		3
85	Processing, Characterization, and in Vivo Evaluation of Poly(<scp>l</scp>-lactic acid)-Fish Gelatin Electrospun Membranes for Biomedical Applications. ACS Applied Bio Materials, 2018, 1, 226-236.	4.6	3
86	Biomaterials and Cellular Systems at the Forefront of Peripheral Nerve Regeneration. , 0, , .		3
87	A Comparison of Two-Dimensional and Three-Dimensional Techniques for Kinematic Analysis of the Sagittal Motion of Sheep Hindlimbs During Walking on a Treadmill. Frontiers in Veterinary Science, 2021, 8, 545708.	2.2	3
88	CAN GLOBAL OPTIMIZATION TECHNIQUE COMPENSATE FOR MARKER SKIN MOVEMENT IN RAT KINEMATICS?. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450065.	0.7	2
89	Neuro-muscular regeneration using scaffolds with mesenchymal stem cells (MSCs) isolated from human umbilical cord Wharton's jelly. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e135-e139.	0.5	2
90	Dynamic feet distance: A new functional assessment during treadmill locomotion in normal and thoracic spinal cord injured rats. Behavioural Brain Research, 2017, 335, 132-135.	2.2	2

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91	The application of BonelikeÂ® Poro as a synthetic bone substitute for the management of critical-sized bone defects - A comparative approach to the autograft technique - A preliminary study. Bone Reports, 2021, 14, 101064.	0.4	2
92	Nerve Regeneration by Using of Chitosan-Silicate Hybrid Porous Membranes. Key Engineering Materials, 0, 529-530, 361-364.	0.4	1
93	Regeneration of the peripheral nerve â€" Development and evaluation of guide tubes of biodegradable polymer. , 2017, , .		1
94	Clinical Application of Macroporous Ceramic to Promote Bone Healing in Veterinary Clinical Cases. , 0, , .		1
95	Maxilla osseus sequestre and oral exposure: effects of the treatment of multiple myeloma with bisphosphonates. Acta Medica Portuguesa, 2007, 20, 185-92.	0.4	1
96	Effects of Olfactory Mucosa Stem/Stromal Cell and Olfactory Ensheating Cells Secretome on Peripheral Nerve Regeneration. Biomolecules, 2022, 12, 818.	4.0	1
97	Anatomical reference frame versus planar analysis: implications for the kinematics of the rat hindlimb during locomotion. Reviews in the Neurosciences, 2011, 22, 241.	2.9	0
98	KINEMATICS ANALYSIS OF RAT'S HINDLIMB. Journal of Biomechanics, 2012, 45, S8.	2.1	0
99	BonelikeÂ® Graft for Regenerative Bone Applications. , 2016, , 409-437.		0
100	Two-dimensional and three-dimensional techniques for determining the kinematic patterns for hindlimb obstacle avoidance during sheep locomotion. Ciencia Rural, 2021, 51, .	0.5	0
101	Preparation of inorganic-organic hybrid membrane for peripheral nerve reconstruction. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2013, 2013, 000173-000176.	0.2	0
102	Title is missing!. , 2019, 14, e0221378.		0
103	Title is missing!. , 2019, 14, e0221378.		0
104	Title is missing!. , 2019, 14, e0221378.		0
105	Title is missing!. , 2019, 14, e0221378.		0
106	Production, Characterisation, and In Vitro Evaluation of 3D Printed PCL/HANp/PEGDA Scaffold for Bone Regeneration. , 0, , .		0