

Pedro S Gomes

List of Publications by Year in descending order

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98
papers

2,693
citations

159585

30
h-index

206112

48
g-index

104
all docs

104
docs citations

104
times ranked

4971
citing authors

#	ARTICLE	IF	CITATIONS
1	Rodent models in bone-related research: the relevance of calvarial defects in the assessment of bone regeneration strategies. <i>Laboratory Animals</i> , 2011, 45, 14-24.	1.0	189
2	Effect of Sterilization Methods on Electrospun Poly(lactic acid) (PLA) Fiber Alignment for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3241-3249.	8.0	171
3	Engineering a multifunctional 3D-printed PLA-collagen-minocycline-nanoHydroxyapatite scaffold with combined antimicrobial and osteogenic effects for bone regeneration. <i>Materials Science and Engineering C</i> , 2019, 101, 15-26.	7.3	127
4	Nanocrystalline diamond: <i>in vitro</i> biocompatibility assessment by MG63 and human bone marrow cells cultures. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 91-99.	4.0	120
5	Effect of therapeutic levels of doxycycline and minocycline in the proliferation and differentiation of human bone marrow osteoblastic cells. <i>Archives of Oral Biology</i> , 2007, 52, 251-259.	1.8	84
6	Biocompatibility evaluation of DLC-coated Si3N4 substrates for biomedical applications. <i>Diamond and Related Materials</i> , 2008, 17, 878-881.	3.9	73
7	Uncovering the molecular networks in periodontitis. <i>Proteomics - Clinical Applications</i> , 2014, 8, 748-761.	1.6	69
8	The NAD ⁺ -dependent deacetylase SIRT2 attenuates oxidative stress and mitochondrial dysfunction and improves insulin sensitivity in hepatocytes. <i>Human Molecular Genetics</i> , 2017, 26, 4105-4117.	2.9	67
9	Biomimetic Mineralization on a Macroporous Cellulose-Based Matrix for Bone Regeneration. <i>BioMed Research International</i> , 2013, 2013, 1-9.	1.9	64
10	Cytotoxicity evaluation of nanocrystalline diamond coatings by fibroblast cell cultures. <i>Acta Biomaterialia</i> , 2009, 5, 755-763.	8.3	62
11	Aging increases Oxidative Stress and Renal Expression of Oxidant and Antioxidant Enzymes that Are Associated with an Increased Trend in Systolic Blood Pressure. <i>Oxidative Medicine and Cellular Longevity</i> , 2009, 2, 138-145.	4.0	59
12	Alginate-nanohydroxyapatite hydrogel system: Optimizing the formulation for enhanced bone regeneration. <i>Materials Science and Engineering C</i> , 2019, 105, 109985.	7.3	53
13	Glutaraldehyde-crosslinking chitosan scaffolds reinforced with calcium phosphate spray-dried granules for bone tissue applications. <i>Materials Science and Engineering C</i> , 2020, 109, 110557.	7.3	53
14	Evaluation of human osteoblastic cell response to plasma-sprayed silicon-substituted hydroxyapatite coatings over titanium substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 94B, 337-346.	3.4	51
15	Cell-induced response by tetracyclines on human bone marrow colonized hydroxyapatite and Bonelike®. <i>Acta Biomaterialia</i> , 2008, 4, 630-637.	8.3	50
16	Defensins in the oral cavity: distribution and biological role. <i>Journal of Oral Pathology and Medicine</i> , 2010, 39, 1-9.	2.7	49
17	Novel cerium doped glass-reinforced hydroxyapatite with antibacterial and osteoconductive properties for bone tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 055008.	3.3	45
18	Cross-species comparison of mammalian saliva using an LC-MALDI based proteomic approach. <i>Proteomics</i> , 2015, 15, 1598-1607.	2.2	44

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19	Novel cellulose/hydroxyapatite scaffolds for bone tissue regeneration: <i>in vitro</i> and <i>in vivo</i> study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1195-1208.	2.7	44
20	Encapsulated bacteriophages in alginate-nanohydroxyapatite hydrogel as a novel delivery system to prevent orthopedic implant-associated infections. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102145.	3.3	44
21	Osteogenic and Angiogenic Response to Calcium Silicate-based Endodontic Sealers. <i>Journal of Endodontics</i> , 2016, 42, 113-119.	3.1	42
22	Samarium doped glass-reinforced hydroxyapatite with enhanced osteoblastic performance and antibacterial properties for bone tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5872-5881.	5.8	40
23	Multifunctional PLLA-ceramic fiber membranes for bone regeneration applications. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 101-110.	9.4	40
24	Relevance of the sterilization-induced effects on the properties of different hydroxyapatite nanoparticles and assessment of the osteoblastic cell response. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3397-3410.	3.4	38
25	Understanding intracellular trafficking and anti-inflammatory effects of minocycline chitosan-nanoparticles in human gingival fibroblasts for periodontal disease treatment. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118821.	5.2	37
26	Nanocrystalline Diamond as a Coating for Joint Implants: Cytotoxicity and Biocompatibility Assessment. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-9.	2.7	36
27	The biomaterial-mediated healing of critical size bone defects in the ovariectomized rat. <i>Osteoporosis International</i> , 2014, 25, 1535-1545.	3.1	36
28	Levofloxacin-loaded bone cement delivery system: Highly effective against intracellular bacteria and <i>Staphylococcus aureus</i> biofilms. <i>International Journal of Pharmaceutics</i> , 2017, 532, 241-248.	5.2	35
29	Citrate zinc hydroxyapatite nanorods with enhanced cytocompatibility and osteogenesis for bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 115, 111147.	7.3	35
30	Dental stem cells for craniofacial tissue engineering. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2012, 113, 728-733.	0.4	32
31	<i>Equisetum arvense</i> hydromethanolic extracts in bone tissue regeneration: <i>in vitro</i> osteoblastic modulation and antibacterial activity. <i>Cell Proliferation</i> , 2012, 45, 386-396.	5.3	32
32	Cytotoxicity of denture adhesives. <i>Clinical Oral Investigations</i> , 2011, 15, 885-893.	3.0	31
33	Orofacial manifestations in outpatients with anorexia nervosa and bulimia nervosa focusing on the vomiting behavior. <i>Clinical Oral Investigations</i> , 2018, 22, 1915-1922.	3.0	31
34	Development of hydroxyapatite nanoparticles loaded with folic acid to induce osteoblastic differentiation. <i>International Journal of Pharmaceutics</i> , 2017, 516, 185-195.	5.2	28
35	A Molecular Perspective on Sirtuin Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8609.	4.1	28
36	Gold-dotted hydroxyapatite nanoparticles as multifunctional platforms for medical applications. <i>RSC Advances</i> , 2015, 5, 69184-69195.	3.6	27

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37	Vascular biosafety of commercial hydroxyapatite particles: discrepancy between blood compatibility assays and endothelial cell behavior. <i>Journal of Nanobiotechnology</i> , 2018, 16, 27.	9.1	27
38	Diels-Alder functionalized carbon nanotubes for bone tissue engineering: in vitro/in vivo biocompatibility and biodegradability. <i>Nanoscale</i> , 2015, 7, 9238-9251.	5.6	26
39	Bisphosphonates induce the osteogenic gene expression in co-cultured human endothelial and mesenchymal stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 27-37.	3.6	24
40	Dichotomous Sirtuins: Implications for Drug Discovery in Neurodegenerative and Cardiometabolic Diseases. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 1021-1039.	8.7	24
41	The yin and yang faces of the mitochondrial deacetylase sirtuin 3 in age-related disorders. <i>Ageing Research Reviews</i> , 2020, 57, 100983.	10.9	23
42	Silicate and borate glasses as composite fillers: a bioactivity and biocompatibility study. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1501-1510.	3.6	22
43	In the trail of a new bio-sensor for measuring strain in bone: Osteoblastic biocompatibility. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4046-4052.	10.1	22
44	Diagnostic Approaches to Sjögren's Syndrome: a Literature Review and Own Clinical Experience. <i>Journal of Oral & Maxillofacial Research</i> , 2012, 3, e3.	1.0	22
45	Toward the definition of a peptidome signature and protease profile in chronic periodontitis. <i>Proteomics - Clinical Applications</i> , 2015, 9, 917-927.	1.6	21
46	A biocompatible hybrid material with simultaneous calcium and strontium release capability for bone tissue repair. <i>Materials Science and Engineering C</i> , 2016, 62, 429-438.	7.3	21
47	Smart electroconductive bioactive ceramics to promote in situ electrostimulation of bone. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1831-1845.	5.8	20
48	Bone Cells Dynamics during Peri-Implantitis: a Theoretical Analysis. <i>Journal of Oral & Maxillofacial Research</i> , 2016, 7, e6.	1.0	20
49	3D-printed platform multi-loaded with bioactive, magnetic nanoparticles and an antibiotic for re-growing bone tissue. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120097.	5.2	19
50	Multifunctional Carbon Nanotube/Bioceramics Modulate the Directional Growth and Activity of Osteoblastic Cells. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 725-743.	1.1	18
51	Incorporation of glass-reinforced hydroxyapatite microparticles into poly(lactic acid) electrospun fibre mats for biomedical applications. <i>Materials Science and Engineering C</i> , 2017, 75, 1184-1190.	7.3	17
52	Exploring the potential of chitosan-based particles as delivery-carriers for promising antimicrobial glycolipid biosurfactants. <i>Carbohydrate Polymers</i> , 2021, 254, 117433.	10.2	17
53	The Osteogenic Priming of Mesenchymal Stem Cells is Impaired in Experimental Diabetes. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 1658-1667.	2.6	16
54	Inhibition of ATG3 ameliorates liver steatosis by increasing mitochondrial function. <i>Journal of Hepatology</i> , 2022, 76, 11-24.	3.7	16

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55	Suitability of PLLA as Piezoelectric Substrates for Tissue Engineering Evidenced by Microscopy Techniques. <i>Microscopy and Microanalysis</i> , 2012, 18, 63-64.	0.4	13
56	Loss of oxidative stress tolerance in hypertension is linked to reduced catalase activity and increased c-Jun NH2-terminal kinase activation. <i>Free Radical Biology and Medicine</i> , 2013, 56, 112-122.	2.9	13
57	Using plasma-mediated covalent functionalization of rhamnolipids on polydimethylsiloxane towards the antimicrobial improvement of catheter surfaces. <i>Materials Science and Engineering C</i> , 2022, 134, 112563.	7.3	13
58	A minocycline-releasing PMMA system as a space maintainer for staged bone reconstructionsâ€” <i>in vitro</i> antibacterial, cytocompatibility and anti-inflammatory characterization. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 035009.	3.3	11
59	Development and Characterization of Ag ₂ O Doped ZnLB Glasses and Biological Assessment of Ag ₂ O Hydroxyapatite Composites. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2732-2740.	3.8	10
60	PDMS-SiO ₂ -TiO ₂ -CaO hybrid materials â€” Cytocompatibility and nanoscale surface features. <i>Materials Science and Engineering C</i> , 2016, 64, 74-86.	7.3	10
61	Growth and phenotypic expression of human endothelial cells cultured on a glass-reinforced hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 725-731.	3.6	9
62	New titanium and titanium/hydroxyapatite coatings on ultra-high-molecular-weight polyethyleneâ€” <i>in vitro</i> osteoblastic performance. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 035014.	3.3	9
63	Mastocytosis: oral implications of a rare disease. <i>Journal of Oral Pathology and Medicine</i> , 2011, 40, 441-450.	2.7	9
64	endoProteoFASP: A novel FASP approach to profile salivary peptidome and disclose salivary proteases. <i>Talanta</i> , 2015, 132, 486-493.	5.5	9
65	Microgap and bacterial microleakage during the osseointegration period: An <i>in vitro</i> assessment of the cover screw and healing abutment in a platform-switched implant system. <i>Journal of Prosthetic Dentistry</i> , 2023, 130, 87-95.	2.8	9
66	<i>In vivo</i> tissue response and antibacterial efficacy of minocycline delivery system based on polymethylmethacrylate bone cement. <i>Journal of Biomaterials Applications</i> , 2018, 33, 380-391.	2.4	8
67	Development and Characterization of Lanthanides Doped Hydroxyapatite Composites for Bone Tissue Application. , 2013, , 87-115.		8
68	Doxycycline restores the impaired osteogenic commitment of diabetic-derived bone marrow mesenchymal stromal cells by increasing the canonical WNT signaling. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 110975.	3.2	7
69	Efficacy and Cytotoxicity of Binary Mixtures as Root Canal Filling Solvents. <i>Materials</i> , 2020, 13, 3237.	2.9	7
70	A new <i>ex vivo</i> model of the bone tissue response to the hyperglycemic environment â€” The embryonic chicken femur organotypic culture in high glucose conditions. <i>Bone</i> , 2022, 158, 116355.	2.9	7
71	Bonding antimicrobial rhamnolipids onto medical grade PDMS: A strategy to overcome multispecies vascular catheter-related infections. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112679.	5.0	7
72	Processing strategies for smart electroconductive carbon nanotube-based bioceramic bone grafts. <i>Nanotechnology</i> , 2014, 25, 145602.	2.6	6

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73	In vivo assessment of a new multifunctional coating architecture for improved Mg alloy biocompatibility. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045007.	3.3	6
74	Effects of 660nm and 780nm Laser Therapy on ST88 Schwann Cells. <i>Photochemistry and Photobiology</i> , 2021, 97, 198-204.	2.5	6
75	Rosehip Extract-Functionalized Magnesium Hydroxide Nanoparticles and Its Effect on Osteoblastic and Osteoclastic Cells. <i>Materials</i> , 2021, 14, 4172.	2.9	6
76	The Embryonic Chick Femur Organotypic Model as a Tool to Analyze the Angiotensin II Axis on Bone Tissue. <i>Pharmaceuticals</i> , 2021, 14, 469.	3.8	5
77	Assessment of the Bone Healing Process Mediated by Periosteum-Derived Mesenchymal Stem Cells™ Secretome and a Xenogenic Bioceramic™ An In Vivo Study in the Rabbit Critical Size Calvarial Defect Model. <i>Materials</i> , 2021, 14, 3512.	2.9	5
78	The Osteogenic Assessment of Mineral Trioxide Aggregate™-based Endodontic Sealers in an Organotypic Ex Vivo Bone Development Model. <i>Journal of Endodontics</i> , 2021, 47, 1461-1466.	3.1	4
79	From Blood to Bone™ The Osteogenic Activity of L-PRF Membranes on the Ex Vivo Embryonic Chick Femur Development Model. <i>Materials</i> , 2021, 14, 7830.	2.9	4
80	Surgical Treatment of Ameloblastoma: How Does It Impact the Oral Health-Related Quality of Life? A Systematic Review. <i>Journal of Oral and Maxillofacial Surgery</i> , 2022, 80, 1103-1114.	1.2	4
81	Microanalysis of Bioactive Samarium Doped Glass-Reinforced Hydroxyapatite. <i>Microscopy and Microanalysis</i> , 2015, 21, 31-32.	0.4	3
82	Processing, Characterization, and in Vivo Evaluation of Poly(L-lactic acid)-Fish Gelatin Electrospun Membranes for Biomedical Applications. <i>ACS Applied Bio Materials</i> , 2018, 1, 226-236.	4.6	3
83	Advances in the Aetiopathogenesis of Sjögren's™ Syndrome: a Literature Review. <i>Journal of Oral & Maxillofacial Research</i> , 2012, 3, e2.	1.0	3
84	The 1st Baltic Osseointegration Academy and Lithuanian University of Health Sciences Consensus Conference 2016. Summary and Consensus Statements: Group I - Peri-Implantitis Aetiology, Risk Factors and Pathogenesis. <i>Journal of Oral & Maxillofacial Research</i> , 2016, 7, e7.	1.0	3
85	Simulating In Vitro the Bone Healing Potential of a Degradable and Tailored Multifunctional Mg-Based Alloy Platform. <i>Bioengineering</i> , 2022, 9, 255.	3.5	3
86	Purmorphamine-induced osteoblastic commitment of adipose tissue-derived mesenchymal cells. <i>Bone</i> , 2009, 44, S314-S315.	2.9	2
87	Osteonecrose dos Maxilares Associada ao Uso de Bifosfonatos. Parte II: Linhas de Orientação na Consulta de Medicina Dentária. <i>Revista Portuguesa De Estomatologia, Medicina Dentaria E Cirurgia Maxilofacial</i> , 2010, 51, 185-191.	0.0	2
88	The diagnosis of eating disorders through mid-infrared spectroscopy of the gingival crevicular fluid: a pilot trial. <i>Eating and Weight Disorders</i> , 2020, 25, 1111-1115.	2.5	2
89	COVID-19. <i>Clinical Guidelines Dentistry</i> , 2020, , .		2
90	EndoProteoFASP as a Tool to Unveil the Peptidome-Protease Profile: Application to Salivary Diagnostics. <i>Methods in Molecular Biology</i> , 2018, 1719, 293-310.	0.9	1

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91	Calcium Phosphate Ceramics in Periodontal Regeneration. , 2013, , 116-141.		1
92	Assessment of the osteoblastic cell response to a zinc glass reinforced hydroxyapatite composite (Zn-GRHA). International Journal of Nano and Biomaterials, 2009, 2, 100.	0.1	0
93	The effects of intense pulsed light in a mouse model of skin carcinogenesis. British Journal of Dermatology, 2016, 174, 216-218.	1.5	0
94	Increased DNA damage and cell death on exfoliated buccal epithelial cells upon CPAP therapy with oro-nasal interface. Sleep Medicine, 2017, 29, 92-93.	1.6	0
95	Biological Assessment of Bioceramics: In Vitro and In Vivo Tests. , 2021, , 798-816.		0
96	Microgap and microleakage of a hybrid connection platform-switched implant system in the absence or presence of a silicone-based sealing agent. Odontology / the Society of the Nippon Dental University, 2021, , 1.	1.9	0
97	COVID-19. Clinical Guidelines Dentistry Orthodontics Extension. , 2020, , .		0
98	Oral lichen planus identification by mid-infrared spectroscopy of oral biofluids: A case-control study. Clinica Chimica Acta, 2022, 530, 126-133.	1.1	0