## MÃ;rio A Barbosa

List of Publications by Year in descending order

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244 papers

12,448 citations

20817 60 h-index 96

247 all docs

 $\begin{array}{c} 247 \\ \text{docs citations} \end{array}$ 

247 times ranked

16397 citing authors

g-index

| #  | Article   | IF           | Citations |
|----|---|--------------|-----------|
| 1  | Chemical modification of chitosan by phosphorylation: an XPS, FT-IR and SEM study. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 1575-1593.                                       | 3.5          | 379       |
| 2  | Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. Frontiers in Immunology, 2018, 9, 2837.   | 4.8          | 350       |
| 3  | Inflammation in intervertebral disc degeneration and regeneration. Journal of the Royal Society Interface, 2015, 12, 20141191.  | 3.4          | 291       |
| 4  | Corrosion behaviour of commercially pure titanium shot blasted with different materials and sizes of shot particles for dental implant applications. Biomaterials, 2003, 24, 263-273.           | 11.4         | 259       |
| 5  | Calcium phosphate-alginate microspheres as enzyme delivery matrices. Biomaterials, 2004, 25, 4363-4373.   | 11.4         | 235       |
| 6  | Impact of 3-D printed PLA- and chitosan-based scaffolds on human monocyte/macrophage responses: Unraveling the effect of 3-D structures on inflammation. Acta Biomaterialia, 2014, 10, 613-622. | 8.3          | 235       |
| 7  | Fibrinogen adsorption, platelet adhesion and activation on mixed hydroxyl-/methyl-terminated self-assembled monolayers. Biomaterials, 2006, 27, 5357-5367.                                      | 11.4         | 217       |
| 8  | Pectin-Based Injectable Biomaterials for Bone Tissue Engineering. Biomacromolecules, 2011, 12, 568-577.   | 5 <b>.</b> 4 | 213       |
| 9  | The effect of the co-immobilization of human osteoprogenitors and endothelial cells within alginate microspheres on mineralization in a bone defect. Biomaterials, 2009, 30, 3271-3278.         | 11.4         | 192       |
| 10 | Corrosion behaviour of titanium in biofluids containing H2O2 studied by electrochemical impedance spectroscopy. Corrosion Science, 2001, 43, 547-559.   | 6.6          | 187       |
| 11 | The correlation between the adsorption of adhesive proteins and cell behaviour on hydroxyl-methyl mixed self-assembled monolayers. Biomaterials, 2009, 30, 307-316.                             | 11.4         | 147       |
| 12 | Injectable in situ crosslinkable RGD-modified alginate matrix for endothelial cells delivery.<br>Biomaterials, 2011, 32, 7897-7904.   | 11.4         | 145       |
| 13 | Improving chitosan-mediated gene transfer by the introduction of intracellular buffering moieties into the chitosan backbone. Acta Biomaterialia, 2009, 5, 2995-3006.                           | 8.3          | 144       |
| 14 | The Two Faces of Tumor-Associated Macrophages and Their Clinical Significance in Colorectal Cancer. Frontiers in Immunology, 2019, 10, 1875.  | 4.8          | 144       |
| 15 | Upregulation of bone cell differentiation through immobilization within a synthetic extracellular matrix. Biomaterials, 2007, 28, 3644-3655.  | 11.4         | 139       |
| 16 | lonizing radiation modulates human macrophages towards a pro-inflammatory phenotype preserving their pro-invasive and pro-angiogenic capacities. Scientific Reports, 2016, 6, 18765.            | 3.3          | 139       |
| 17 | Cellulose phosphates as biomaterials. I. Synthesis and characterization of highly phosphorylated cellulose gels. Journal of Applied Polymer Science, 2001, 82, 3341-3353.                       | 2.6          | 133       |
| 18 | Immobilization of Human Mesenchymal Stem Cells within RGD-Grafted Alginate Microspheres and Assessment of Their Angiogenic Potential. Biomacromolecules, 2010, 11, 1956-1964.                   | 5.4          | 131       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | The uptake of titanium ions by hydroxyapatite particlesâ€"structural changes and possible mechanisms. Biomaterials, 2006, 27, 1749-1761.  | 11.4 | 130       |
| 20 | The inflammatory response in the regression of lumbar disc herniation. Arthritis Research and Therapy, 2018, 20, 251.   | 3.5  | 130       |
| 21 | Human Serum Albumin Adsorption on TiO2from Single Protein Solutions and from Plasma. Langmuir, 2004, 20, 9745-9754.   | 3.5  | 125       |
| 22 | Chitosan drives anti-inflammatory macrophage polarisation and pro-inflammatory dendritic cell stimulation., 2012, 24, 136-153.  |      | 125       |
| 23 | A Novel Dry Active Electrode for EEG Recording. IEEE Transactions on Biomedical Engineering, 2007, 54, 162-165.   | 4.2  | 124       |
| 24 | Protein adsorption on mixtures of hydroxyl- and methyl-terminated alkanethiols self-assembled monolayers. Journal of Biomedical Materials Research Part B, 2003, 67A, 158-171.          | 3.1  | 122       |
| 25 | Modulation of the inflammatory response to chitosan through M2 macrophage polarization using pro-resolution mediators. Biomaterials, 2015, 37, 116-123.                                 | 11.4 | 122       |
| 26 | Macrophage polarization following chitosan implantation. Biomaterials, 2013, 34, 9952-9959.   | 11.4 | 121       |
| 27 | Cellulose phosphates as biomaterials. In vivo biocompatibility studies. Biomaterials, 2002, 23, 971-980.  | 11.4 | 120       |
| 28 | Apatite deposition on titanium surfaces $\hat{a} \in \text{``}$ the role of albumin adsorption. Biomaterials, 1997, 18, 963-968.  | 11.4 | 111       |
| 29 | Albumin and fibrinogen adsorption on PU–PHEMA surfaces. Biomaterials, 2003, 24, 2067-2076.  | 11.4 | 110       |
| 30 | TNF-alpha-induced microglia activation requires miR-342: impact on NF-kB signaling and neurotoxicity. Cell Death and Disease, 2020, 11, 415.  | 6.3  | 108       |
| 31 | Layer-by-Layer Self-Assembly of Chitosan and Poly( $\hat{l}^3$ -glutamic acid) into Polyelectrolyte Complexes. Biomacromolecules, 2011, 12, 4183-4195.                                  | 5.4  | 107       |
| 32 | Constructing thromboresistant surface on biomedical stainless steel via layer-by-layer deposition anticoagulant. Biomaterials, 2003, 24, 4699-4705.                                     | 11.4 | 106       |
| 33 | Decellularized human colorectal cancer matrices polarize macrophages towards an anti-inflammatory phenotype promoting cancer cell invasion via CCL18. Biomaterials, 2017, 124, 211-224. | 11.4 | 104       |
| 34 | Macrophages stimulate gastric and colorectal cancer invasion through EGFR Y1086, c-Src, Erk1/2 and Akt phosphorylation and smallGTPase activity. Oncogene, 2014, 33, 2123-2133.         | 5.9  | 103       |
| 35 | Effect of hydroxyapatite thickness on metal ion release from Ti6Al4V substrates. Biomaterials, 1996, 17, 397-404.   | 11.4 | 101       |
| 36 | Phenotypic and proliferative modulation of human mesenchymal stem cells via crosstalk with endothelial cells. Stem Cell Research, 2011, 7, 186-197.                                     | 0.7  | 98        |

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|----|---|------|-----------|
| 37 | Preparation and characterisation of calcium-phosphate porous microspheres with a uniform size for biomedical applications. Journal of Materials Science: Materials in Medicine, 2006, 17, 455-463.                    | 3.6  | 96        |
| 38 | The two faces of metal ions: From implants rejection to tissue repair/regeneration. Biomaterials, 2016, 84, 262-275.  | 11.4 | 95        |
| 39 | Concept, design and fabrication of smart orthopedic implants. Medical Engineering and Physics, 2000, 22, 469-479.   | 1.7  | 93        |
| 40 | Bridging Autism Spectrum Disorders and Schizophrenia through inflammation and biomarkers - pre-clinical and clinical investigations. Journal of Neuroinflammation, 2017, 14, 179.                                     | 7.2  | 92        |
| 41 | In vitro degradation behavior of a novel bioresorbable composite material based on PLA and a soluble CaP glass. Acta Biomaterialia, 2005, 1, 411-419.   | 8.3  | 90        |
| 42 | Osteoblast adhesion and morphology on TiO <sub>2</sub> depends on the competitive preadsorption of albumin and fibronectin. Journal of Biomedical Materials Research - Part A, 2008, 84A, 281-290.                    | 4.0  | 90        |
| 43 | Title is missing!. Journal of Materials Science, 2001, 36, 2163-2172.   | 3.7  | 88        |
| 44 | Polysaccharides as scaffolds for bone regeneration. IRBM News, 2005, 26, 212-217.   | 0.1  | 88        |
| 45 | Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. European Journal of Pharmaceutical Sciences, 2017, 98, 86-95.   | 4.0  | 87        |
| 46 | Extracellular vesicles: intelligent delivery strategies for therapeutic applications. Journal of Controlled Release, 2018, 289, 56-69.  | 9.9  | 85        |
| 47 | The inflammasome in host response to biomaterials: Bridging inflammation and tissue regeneration. Acta Biomaterialia, 2019, 83, 1-12.   | 8.3  | 84        |
| 48 | miR-195 in human primary mesenchymal stromal/stem cells regulates proliferation, osteogenesis and paracrine effect on angiogenesis. Oncotarget, 2016, 7, 7-22.  | 1.8  | 83        |
| 49 | The effect of hyaluronan-based delivery of stromal cell-derived factor-1 on the recruitment of MSCs in degenerating intervertebral discs. Biomaterials, 2014, 35, 8144-8153.  | 11.4 | 78        |
| 50 | The blood compatibility challenge. Part 4: Surface modification for hemocompatible materials: Passive and active approaches to guide blood-material interactions. Acta Biomaterialia, 2019, 94, 33-43.                | 8.3  | 78        |
| 51 | Engineering Endochondral Bone: <i>In Vivo</i> Studies. Tissue Engineering - Part A, 2009, 15, 635-643.  | 3.1  | 77        |
| 52 | Long noncoding RNAs: a missing link in osteoporosis. Bone Research, 2019, 7, 10.  | 11.4 | 77        |
| 53 | Attachment, spreading and short-term proliferation of human osteoblastic cells cultured on chitosan films with different degrees of acetylation. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 469-485. | 3.5  | 75        |
| 54 | Biofunctional chemically modified pectin for cell delivery. Soft Matter, 2012, 8, 4731.   | 2.7  | 74        |

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|----|---|------|-----------|
| 55 | Development of an immunomodulatory biomaterial: Using resolvin D1 to modulate inflammation. Biomaterials, 2015, 53, 566-573.  | 11.4 | 73        |
| 56 | Production, Characterization and Biocompatibility of Marine Collagen Matrices from an Alternative and Sustainable Source: The Sea Urchin Paracentrotus lividus. Marine Drugs, 2014, 12, 4912-4933.                        | 4.6  | 71        |
| 57 | Dynamics of Fibronectin Adsorption on TiO2Surfaces. Langmuir, 2007, 23, 7046-7054.  | 3.5  | 69        |
| 58 | Anti-inflammatory Chitosan/Poly-Î <sup>3</sup> -glutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. Acta Biomaterialia, 2016, 42, 168-179.         | 8.3  | 68        |
| 59 | The influence of functional groups of self-assembled monolayers on fibrous capsule formation and cell recruitment. Journal of Biomedical Materials Research - Part A, 2006, 76A, 737-743.                                 | 4.0  | 65        |
| 60 | Three-dimensional culture of human osteoblastic cells in chitosan sponges: The effect of the degree of acetylation. Journal of Biomedical Materials Research - Part A, 2006, 76A, 335-346.                                | 4.0  | 64        |
| 61 | Surface Engineering of Poly(dl-lactide) via Electrostatic Self-Assembly of Extracellular Matrix-like Molecules. Biomacromolecules, 2003, 4, 378-386.  | 5.4  | 62        |
| 62 | Dendritic Cell-derived Extracellular Vesicles mediate Mesenchymal Stem/Stromal Cell recruitment. Scientific Reports, 2017, 7, 1667.   | 3.3  | 62        |
| 63 | Inflammatory responses and cell adhesion to self-assembled monolayers of alkanethiolates on gold.<br>Biomaterials, 2004, 25, 2557-2563.   | 11.4 | 61        |
| 64 | Chitosan/ $\hat{l}^3$ -PGA nanoparticles-based immunotherapy as adjuvant to radiotherapy in breast cancer. Biomaterials, 2020, 257, 120218.   | 11.4 | 60        |
| 65 | Interactions between calcium, phosphate, and albumin on the surface of titanium. Journal of Biomedical Materials Research Part B, 2001, 55, 45-53.  | 3.1  | 59        |
| 66 | Rat bone marrow stromal cell osteogenic differentiation and fibronectin adsorption on chitosan membranes: The effect of the degree of acetylation. Journal of Biomedical Materials Research - Part A, 2005, 75A, 387-397. | 4.0  | 59        |
| 67 | <i>In vivo</i> and clinical application of strontium-enriched biomaterials for bone regeneration. Bone and Joint Research, 2017, 6, 366-375.  | 3.6  | 59        |
| 68 | Effect of Polyelectrolyte Film Stiffness on Endothelial Cells During Endothelial-to-Mesenchymal Transition. Biomacromolecules, 2015, 16, 3584-3593.   | 5.4  | 57        |
| 69 | Three-dimensional scaffolds of fetal decellularized hearts exhibit enhanced potential to support cardiac cells in comparison to the adult. Biomaterials, 2016, 104, 52-64.  | 11.4 | 57        |
| 70 | NAP-2 Secreted by Human NK Cells Can Stimulate Mesenchymal Stem/Stromal Cell Recruitment. Stem Cell Reports, 2016, 6, 466-473.  | 4.8  | 57        |
| 71 | Osteogenic, anti-osteoclastogenic and immunomodulatory properties of a strontium-releasing hybrid scaffold for bone repair. Materials Science and Engineering C, 2019, 99, 1289-1303.                                     | 7.3  | 55        |
| 72 | Fibrinogen scaffolds with immunomodulatory properties promote inÂvivo bone regeneration. Biomaterials, 2016, 111, 163-178.  | 11.4 | 54        |

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| 73 | Proliferation, activity, and osteogenic differentiation of bone marrow stromal cells cultured on calcium titanium phosphate microspheres. Journal of Biomedical Materials Research Part B, 2005, 72A, 57-66.                 | 3.1  | 53        |
| 74 | Enhanced mesenchymal stromal cell recruitment via natural killer cells by incorporation of inflammatory signals in biomaterials. Journal of the Royal Society Interface, 2012, 9, 261-271.                                   | 3.4  | 53        |
| 75 | Modulation of stability and mucoadhesive properties of chitosan microspheres for therapeutic gastric application. International Journal of Pharmaceutics, 2013, 454, 116-124.  | 5.2  | 53        |
| 76 | Biocompatibility of chemoenzymatically derived dextran-acrylate hydrogels. Journal of Biomedical Materials Research Part B, 2004, 68A, 584-596.  | 3.1  | 52        |
| 77 | TiO2 type influences fibronectin adsorption. Journal of Materials Science: Materials in Medicine, 2005, 16, 1173-1178.   | 3.6  | 52        |
| 78 | The pitting resistance of AISI 316 stainless steel passivated in diluted nitric acid. Corrosion Science, 1983, 23, 1293-1305.  | 6.6  | 50        |
| 79 | Macrophages Down-Regulate Gene Expression of Intervertebral Disc Degenerative Markers Under a Pro-inflammatory Microenvironment. Frontiers in Immunology, 2019, 10, 1508.  | 4.8  | 50        |
| 80 | Injectability of a bone filler system based on hydroxyapatite microspheres and a vehicle with ⟨i⟩in situ⟨/i⟩ gelâ€forming ability. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 49-58. | 3.4  | 49        |
| 81 | miR-195 inhibits macrophages pro-inflammatory profile and impacts the crosstalk with smooth muscle cells. PLoS ONE, 2017, 12, e0188530.  | 2.5  | 49        |
| 82 | Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration. Spine, 2018, 43, E673-E682.  | 2.0  | 49        |
| 83 | Differential effects of eight metal ions on lymphocyte differentiation antigensin vitro. Journal of Biomedical Materials Research Part B, 1990, 24, 1059-1068.   | 3.1  | 48        |
| 84 | Ibuprofen-loaded poly(trimethylene carbonate-co-ε-caprolactone) electrospun fibres for nerve regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E154-E166.                                     | 2.7  | 48        |
| 85 | Corrosion resistance of titanium CP in saline physiological solutions with calcium phosphate and proteins. Clinical Materials, 1993, 14, 287-294.  | 0.5  | 47        |
| 86 | Albumin adsorption on alkanethiols self-assembled monolayers on gold electrodes studied by chronopotentiometry. Biomaterials, 2003, 24, 3697-3706.   | 11.4 | 47        |
| 87 | Engineering Endochondral Bone: <i>In Vitro</i> Studies. Tissue Engineering - Part A, 2009, 15, 625-634.  | 3.1  | 47        |
| 88 | Leptin effect on RANKL and OPG expression in MC3T3-E1 osteoblasts. Journal of Cellular Biochemistry, 2006, 98, 1123-1129.  | 2.6  | 46        |
| 89 | Surface characterization and cell response of a PLA/CaP glass biodegradable composite material.<br>Journal of Biomedical Materials Research - Part A, 2008, 85A, 477-486.  | 4.0  | 46        |
| 90 | Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. Acta Biomaterialia, 2013, 9, 7209-7217.   | 8.3  | 46        |

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| 91  | Mesenchymal stem cell recruitment by stromal derived factor-1-delivery systems based on chitosan/poly( $\hat{l}^3$ -glutamic acid) polyelectrolyte complexes., 2012, 23, 249-261.  |      | 46        |
| 92  | Cellulose phosphates as biomaterials. II. Surface chemical modification of regenerated cellulose hydrogels. Journal of Applied Polymer Science, 2001, 82, 3354-3365.   | 2.6  | 45        |
| 93  | An interferon- $\hat{I}^3$ -delivery system based on chitosan/poly( $\hat{I}^3$ -glutamic acid) polyelectrolyte complexes modulates macrophage-derived stimulation of cancer cell invasion in vitro. Acta Biomaterialia, 2015, 23, 157-171.                  | 8.3  | 45        |
| 94  | Pro-inflammatory chitosan/poly( $\hat{l}^3$ -glutamic acid) nanoparticles modulate human antigen-presenting cells phenotype and revert their pro-invasive capacity. Acta Biomaterialia, 2017, 63, 96-109.  | 8.3  | 45        |
| 95  | Investigation of the dissolution of the bioceramic hydroxyapatite in the presence of titanium ions using ToF-SIMS and XPS. Biomaterials, 1997, 18, 311-316.  | 11.4 | 44        |
| 96  | Octadecyl Chains Immobilized onto Hyaluronic Acid Coatings by Thiol–ene "Click Chemistry―Increase the Surface Antimicrobial Properties and Prevent Platelet Adhesion and Activation to Polyurethane. ACS Applied Materials & Diterfaces, 2017, 9, 7979-7989. | 8.0  | 44        |
| 97  | Biological evaluation of calcium alginate microspheres as a vehicle for the localized delivery of a therapeutic enzyme. Journal of Biomedical Materials Research - Part A, 2005, 74A, 545-552.   | 4.0  | 43        |
| 98  | Evaluation of the effect of the degree of acetylation on the inflammatory response to 3D porous chitosan scaffolds. Journal of Biomedical Materials Research - Part A, 2010, 93A, 20-28.   | 4.0  | 43        |
| 99  | Fibrinogen and magnesium combination biomaterials modulate macrophage phenotype, NF-kB signaling and crosstalk with mesenchymal stem/stromal cells. Acta Biomaterialia, 2020, 114, 471-484.  | 8.3  | 42        |
| 100 | Fibronectin-mediated endothelialisation of chitosan porous matrices. Biomaterials, 2009, 30, 5465-5475.  | 11.4 | 41        |
| 101 | Targeted gene delivery into peripheral sensorial neurons mediated by self-assembled vectors composed of poly(ethylene imine) and tetanus toxin fragment c. Journal of Controlled Release, 2010, 143, 350-358.  | 9.9  | 41        |
| 102 | Adhesion of human leukocytes to biomaterials: Anin vitrostudy using alkanethiolate monolayers with different chemically functionalized surfaces. Journal of Biomedical Materials Research - Part A, 2003, 65A, 429-434.                                      | 4.0  | 40        |
| 103 | Self-Healing Spongy Coating for Drug "Cocktail―Delivery. ACS Applied Materials & amp; Interfaces, 2016, 8, 4309-4313.  | 8.0  | 39        |
| 104 | New Insights into Mutable Collagenous Tissue: Correlations between the Microstructure and Mechanical State of a Sea-Urchin Ligament. PLoS ONE, 2011, 6, e24822.  | 2.5  | 39        |
| 105 | Mineralization of regenerated cellulose hydrogels. Journal of Materials Science: Materials in Medicine, 2001, 12, 785-791.   | 3.6  | 38        |
| 106 | Protein adsorption on 18-alkyl chains immobilized on hydroxyl-terminated self-assembled monolayers. Biomaterials, 2005, 26, 3891-3899.   | 11.4 | 38        |
| 107 | Injectable hybrid system for strontium local delivery promotes bone regeneration in a rat critical-sized defect model. Scientific Reports, 2017, 7, 5098.  | 3.3  | 38        |
| 108 | Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc<br>Regeneration through Extracellular Matrix Remodeling. Scientific Reports, 2016, 6, 33836.  | 3.3  | 37        |

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| 109 | Macrophage response to chitosan/poly- $(\hat{l}^3$ -glutamic acid) nanoparticles carrying an anti-inflammatory drug. Journal of Materials Science: Materials in Medicine, 2015, 26, 167.   | 3.6  | 36        |
| 110 | Macrophage interactions with polylactic acid and chitosan scaffolds lead to improved recruitment of human mesenchymal stem/stromal cells: a comprehensive study with different immune cells. Journal of the Royal Society Interface, 2016, 13, 20160570. | 3.4  | 36        |
| 111 | A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An <i>Ex Vivo</i> Model for Anti-inflammatory Drug and Cell Therapy. Tissue Engineering - Part C: Methods, 2016, 22, 8-19.   | 2.1  | 35        |
| 112 | Fabrication of alternating polycation and albumin multilayer coating onto stainless steel by electrostatic layer-by-layer adsorption. Colloids and Surfaces B: Biointerfaces, 2004, 34, 185-190.   | 5.0  | 33        |
| 113 | Adsorption of a therapeutic enzyme to self-assembled monolayers: effect of surface chemistry and solution pH on the amount and activity of adsorbed enzyme. Biomaterials, 2005, 26, 2695-2704.   | 11.4 | 33        |
| 114 | Cellulose phosphates as biomaterials. In vitro biocompatibility studies. Reactive and Functional Polymers, 2006, 66, 728-739.  | 4.1  | 33        |
| 115 | Adsorbed Fibrinogen Enhances Production of Bone- and Angiogenic-Related Factors by Monocytes/Macrophages. Tissue Engineering - Part A, 2014, 20, 250-263.  | 3.1  | 33        |
| 116 | Protein adsorption and clotting time of pHEMA hydrogels modified with C18 ligands to adsorb albumin selectively and reversibly. Biomaterials, 2009, 30, 5541-5551.   | 11.4 | 32        |
| 117 | Biosynthesis of highly pure poly- $\hat{l}^3$ -glutamic acid for biomedical applications. Journal of Materials Science: Materials in Medicine, 2012, 23, 1583-1591.  | 3.6  | 32        |
| 118 | The mechanically adaptive connective tissue of echinoderms: Its potential for bio-innovation in applied technology and ecology. Marine Environmental Research, 2012, 76, 108-113.  | 2.5  | 32        |
| 119 | Genetically Engineered-MSC Therapies for Non-unions, Delayed Unions and Critical-size Bone Defects.<br>International Journal of Molecular Sciences, 2019, 20, 3430.  | 4.1  | 32        |
| 120 | Chitosan/poly( $\hat{l}^3$ -glutamic acid) nanoparticles incorporating IFN- $\hat{l}^3$ for immune response modulation in the context of colorectal cancer. Biomaterials Science, 2019, 7, 3386-3403.  | 5.4  | 32        |
| 121 | Electrochemical and surface modifications on N+-ion implanted Ti-6A1-4V immersed in HBSS. Corrosion Science, 1995, 37, 1861-1866.  | 6.6  | 31        |
| 122 | Stearyl poly(ethylene oxide) grafted surfaces for preferential adsorption of albumin. Biomaterials, 2001, 22, 3015-3023.   | 11.4 | 31        |
| 123 | Dynamic stiffness of polyelectrolyte multilayer films based on disulfide bonds for in situ control of cell adhesion. Journal of Materials Chemistry B, 2015, 3, 7546-7553.   | 5.8  | 31        |
| 124 | Joint analysis of IVD herniation and degeneration by rat caudal needle puncture model. Journal of Orthopaedic Research, 2017, 35, 258-268.   | 2.3  | 31        |
| 125 | Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. Stem Cells Translational Medicine, 2017, 6, 1029-1039.   | 3.3  | 31        |
| 126 | Electrochemical and surface modifications on N+-ion-implanted 316 L stainless steel. Journal of Materials Science: Materials in Medicine, 1997, 8, 365-368.  | 3.6  | 30        |

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|-----|---|------|-----------|
| 127 | 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. | 3.8  | 30        |
| 128 | Hip fractures cluster in space: an epidemiological analysis in Portugal. Osteoporosis International, 2008, 19, 1797-1804.   | 3.1  | 30        |
| 129 | Albumin adsorption on cibacron blue F3G-A immobilized onto oligo(ethylene glycol)-terminated self-assembled monolayers. Journal of Materials Science: Materials in Medicine, 2003, 14, 945-954.           | 3.6  | 29        |
| 130 | Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. Biomaterials, 2009, 30, 6879-6887.   | 11.4 | 29        |
| 131 | Nanostructured lipid carriers loaded with resveratrol modulate human dendritic cells. International Journal of Nanomedicine, 2016, Volume 11, 3501-3516.  | 6.7  | 29        |
| 132 | Molecularly designed surfaces for blood deheparinization using an immobilized heparinâ€binding peptide. Journal of Biomedical Materials Research - Part A, 2009, 88A, 162-173.                            | 4.0  | 28        |
| 133 | The effect of immobilization of thrombin inhibitors onto self-assembled monolayers on the adsorption and activity of thrombin. Biomaterials, 2010, 31, 3772-3780.   | 11.4 | 28        |
| 134 | E-cadherin-defective gastric cancer cells depend on Laminin to survive and invade. Human Molecular Genetics, 2015, 24, 5891-5900.   | 2.9  | 28        |
| 135 | Circulating extracellular vesicles: Their role in tissue repair and regeneration. Transfusion and Apheresis Science, 2016, 55, 53-61.   | 1.0  | 27        |
| 136 | Chitosan porous 3D scaffolds embedded with resolvin D1 to improve in vivo bone healing. Journal of Biomedical Materials Research - Part A, 2018, 106, 1626-1633.  | 4.0  | 27        |
| 137 | Surface pretreatments of aluminium for electroplating. Surface and Coatings Technology, 1988, 35, 321-331.  | 4.8  | 26        |
| 138 | Protein electrostatic self-assembly on poly(DL-lactide) scaffold to promote osteoblast growth. Journal of Biomedical Materials Research Part B, 2004, 71B, 159-165.                                       | 3.1  | 26        |
| 139 | Strontium-rich injectable hybrid system for bone regeneration. Materials Science and Engineering C, 2016, 59, 818-827.  | 7.3  | 26        |
| 140 | Stiffness of polyelectrolyte multilayer film influences endothelial function of endothelial cell monolayer. Colloids and Surfaces B: Biointerfaces, 2017, 149, 379-387.                                   | 5.0  | 26        |
| 141 | 3D chitosan scaffolds impair NLRP3 inflammasome response in macrophages. Acta Biomaterialia, 2019, 91, 123-134.   | 8.3  | 26        |
| 142 | Matrix Metalloproteinases in a Sea Urchin Ligament with Adaptable Mechanical Properties. PLoS ONE, 2012, 7, e49016.   | 2.5  | 26        |
| 143 | Functionalization of chitosan membranes through phosphorylation: Atomic force microscopy, wettability, and cytotoxicity studies. Journal of Applied Polymer Science, 2006, 102, 276-284.                  | 2.6  | 25        |
| 144 | Resveratrol as a Natural Anti-Tumor Necrosis Factor- $\hat{l}_{\pm}$ Molecule: Implications to Dendritic Cells and Their Crosstalk with Mesenchymal Stromal Cells. PLoS ONE, 2014, 9, e91406.             | 2.5  | 25        |

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|-----|---|--------------------|--------------------|
| 145 | Decellularized Scaffolds for Intervertebral Disc Regeneration. Trends in Biotechnology, 2020, 38, 947-951.  | 9.3                | 25                 |
| 146 | Impedance and photo electrochemical measurements on passive films formed on metallic biomaterials. Corrosion Engineering Science and Technology, 1990, 25, 136-140.   | 0.3                | 25                 |
| 147 | The surface composition and corrosion behaviour of AISI 304 stainless steel after immersion in 20% HNO3 solution. Corrosion Science, 1991, 32, 179-184.   | 6.6                | 24                 |
| 148 | Pretreatments of improve the adhesion of electrodeposits on aluminium. Surface and Interface Analysis, 1991, 17, 519-528.   | 1.8                | 24                 |
| 149 | Modifications in the molecular structure of hydroxyapatite induced by titanium ions. Journal of Materials Science: Materials in Medicine, 1995, 6, 829-834.   | 3.6                | 24                 |
| 150 | The Contribution of Inflammation to Autism Spectrum Disorders: Recent Clinical Evidence. Methods in Molecular Biology, 2019, 2011, 493-510.   | 0.9                | 24                 |
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