

# Mrio A Barbosa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

242  
papers

9,801  
citations

55  
h-index

85  
g-index

247  
ext. papers

11,086  
ext. citations

7  
avg. IF

6.21  
L-index

#	Paper	IF	Citations
242	Fibrotic alterations in human annulus fibrosus correlate with progression of intervertebral disc herniation.. <i>Arthritis Research and Therapy</i> , <b>2022</b> , 24, 25	5.7	0
241	Stress-induced depressive-like behavior in male rats is associated with microglial activation and inflammation dysregulation in the hippocampus in adulthood. <i>Brain, Behavior, and Immunity</i> , <b>2022</b> , 99, 397-408	16.6	3
240	Harnessing chitosan and poly-( $\beta$ -glutamic acid)-based biomaterials towards cancer immunotherapy. <i>Materials Today Advances</i> , <b>2022</b> , 15, 100252	7.4	0
239	IL-1 $\beta$ -pre-conditioned mesenchymal stem/stromal cellsPsecretome modulates the inflammatory response and aggrecan deposition in intervertebral disc. <i>European Cells and Materials</i> , <b>2021</b> , 41, 431-453	4.3	5
238	Alkaline phosphatase dual-binding sites for collagen dictate cell migration and microvessel assembly in vitro. <i>Journal of Cellular Biochemistry</i> , <b>2021</b> , 122, 116-129	4.7	2
237	Immunomodulatory potential of chitosan-based materials for cancer therapy: a systematic review of , and clinical studies. <i>Biomaterials Science</i> , <b>2021</b> , 9, 3209-3227	7.4	7
236	Immunomodulatory properties of <i>Musa paradisiaca</i> L. inflorescence in Combined Allergic Rhinitis and Asthma Syndrome (CARAS) model towards NFB pathway inhibition. <i>Journal of Functional Foods</i> , <b>2021</b> , 83, 104540	5.1	1
235	TNF-alpha-induced microglia activation requires miR-342: impact on NF-kB signaling and neurotoxicity. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 415	9.8	36
234	Decellularized Scaffolds for Intervertebral Disc Regeneration. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 947-951	5.1	4
233	Modulation of the In Vivo Inflammatory Response by Pro- Versus Anti-Inflammatory Intervertebral Disc Treatments. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	8
232	Articular Repair/Regeneration in Healthy and Inflammatory Conditions: From Advanced In Vitro to In Vivo Models. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909523	15.6	1
231	miR-99a in bone homeostasis: Regulating osteogenic lineage commitment and osteoclast differentiation. <i>Bone</i> , <b>2020</b> , 134, 115303	4.7	9
230	Osteoclasts degrade fibrinogen scaffolds and induce mesenchymal stem/stromal osteogenic differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2020</b> , 108, 851-862	5.4	2
229	Chitosan/EPGA nanoparticles-based immunotherapy as adjuvant to radiotherapy in breast cancer. <i>Biomaterials</i> , <b>2020</b> , 257, 120218	15.6	27
228	Fibrinogen and magnesium combination biomaterials modulate macrophage phenotype, NF-kB signaling and crosstalk with mesenchymal stem/stromal cells. <i>Acta Biomaterialia</i> , <b>2020</b> , 114, 471-484	10.8	18
227	The blood compatibility challenge. Part 4: Surface modification for hemocompatible materials: Passive and active approaches to guide blood-material interactions. <i>Acta Biomaterialia</i> , <b>2019</b> , 94, 33-43	10.8	41
226	Chitosan/poly( $\beta$ -glutamic acid) nanoparticles incorporating IFN- $\gamma$ for immune response modulation in the context of colorectal cancer. <i>Biomaterials Science</i> , <b>2019</b> , 7, 3386-3403	7.4	21

225	3D chitosan scaffolds impair NLRP3 inflammasome response in macrophages. <i>Acta Biomaterialia</i> , <b>2019</b> , 91, 123-134	10.8	15
224	Comparable Decellularization of Fetal and Adult Cardiac Tissue Explants as 3D-like Platforms for In Vitro Studies. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
223	Long noncoding RNAs: a missing link in osteoporosis. <i>Bone Research</i> , <b>2019</b> , 7, 10	13.3	41
222	The Two Faces of Tumor-Associated Macrophages and Their Clinical Significance in Colorectal Cancer. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 1875	8.4	93
221	Macrophages Down-Regulate Gene Expression of Intervertebral Disc Degenerative Markers Under a Pro-inflammatory Microenvironment. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 1508	8.4	17
220	Genetically Engineered-MSC Therapies for Non-unions, Delayed Unions and Critical-size Bone Defects. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	17
219	The Contribution of Inflammation to Autism Spectrum Disorders: Recent Clinical Evidence. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2011, 493-510	1.4	15
218	Peripheral Biomarkers of Inflammation in Depression: Evidence from Animal Models and Clinical Studies. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2011, 467-492	1.4	5
217	The Systemic Immune Response to Collagen-Induced Arthritis and the Impact of Bone Injury in Inflammatory Conditions. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	4
216	Osteogenic, anti-osteoclastogenic and immunomodulatory properties of a strontium-releasing hybrid scaffold for bone repair. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 1289-1303	8.3	29
215	Fibroblast growth factor improves the motility of human mesenchymal stem cells expanded in a human plasma-derived xeno-free medium through $\alpha 5 \beta 1$ integrin. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 36-45	4.4	2
214	The inflammasome in host response to biomaterials: Bridging inflammation and tissue regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 83, 1-12	10.8	50
213	Chitosan porous 3D scaffolds embedded with resolvin D1 to improve in vivo bone healing. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 1626-1633	5.4	15
212	Age-Related Phenotypic Alterations in Cells Isolated From Human Degenerated Intervertebral Discs With Contained Hernias. <i>Spine</i> , <b>2018</b> , 43, E274-E284	3.3	10
211	A co-culture system with three different primary human cell populations reveals that biomaterials and MSC modulate macrophage-driven fibroblast recruitment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e1433-e1440	4.4	14
210	Fundamentals of protein and cell interactions in biomaterials <b>2018</b> , 1-27		11
209	Profiling the circulating miRnome reveals a temporal regulation of the bone injury response. <i>Theranostics</i> , <b>2018</b> , 8, 3902-3917	12.1	8
208	Stromal Cell Derived Factor-1-Mediated Migration of Mesenchymal Stem Cells Enhances Collagen Type II Expression in Intervertebral Disc. <i>Tissue Engineering - Part A</i> , <b>2018</b> ,	3.9	6

207	Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration: Insights From a Proinflammatory/Degenerative Ex Vivo Model. <i>Spine</i> , <b>2018</b> , 43, E673-E682 <sup>3,3</sup>	34
206	The inflammatory response in the regression of lumbar disc herniation. <i>Arthritis Research and Therapy</i> , <b>2018</b> , 20, 251	5.7 56
205	Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 2837	8.4 203
204	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. <i>Journal of Controlled Release</i> , <b>2018</b> , 289, 56-69	11.7 58
203	Joint analysis of IVD herniation and degeneration by rat caudal needle puncture model. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 258-268	3.8 25
202	Decellularized human colorectal cancer matrices polarize macrophages towards an anti-inflammatory phenotype promoting cancer cell invasion via CCL18. <i>Biomaterials</i> , <b>2017</b> , 124, 211-224 <sup>15,6</sup>	70
201	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7979-7989	9.5 37
200	Dendritic Cell-derived Extracellular Vesicles mediate Mesenchymal Stem/Stromal Cell recruitment. <i>Scientific Reports</i> , <b>2017</b> , 7, 1667	4.9 41
199	miR-195 inhibits macrophages pro-inflammatory profile and impacts the crosstalk with smooth muscle cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188530	3.7 32
198	Bridging Autism Spectrum Disorders and Schizophrenia through inflammation and biomarkers - pre-clinical and clinical investigations. <i>Journal of Neuroinflammation</i> , <b>2017</b> , 14, 179	10.1 72
197	Human Bone Marrow Mesenchymal Stem/Stromal Cells Preserve Their Immunomodulatory and Chemotactic Properties When Expanded in a Human Plasma Derived Xeno-Free Medium. <i>Stem Cells International</i> , <b>2017</b> , 2017, 2185351	5 9
196	Pro-inflammatory chitosan/poly(Eglutamic acid) nanoparticles modulate human antigen-presenting cells phenotype and revert their pro-invasive capacity. <i>Acta Biomaterialia</i> , <b>2017</b> , 63, 96-109	10.8 30
195	and clinical application of strontium-enriched biomaterials for bone regeneration: A systematic review. <i>Bone and Joint Research</i> , <b>2017</b> , 6, 366-375	4.2 39
194	Injectable hybrid system for strontium local delivery promotes bone regeneration in a rat critical-sized defect model. <i>Scientific Reports</i> , <b>2017</b> , 7, 5098	4.9 28
193	Adsorbed Fibrinogen stimulates TLR-4 on monocytes and induces BMP-2 expression. <i>Acta Biomaterialia</i> , <b>2017</b> , 49, 296-305	10.8 19
192	Stiffness of polyelectrolyte multilayer film influences endothelial function of endothelial cell monolayer. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 149, 379-387	6 20
191	Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1029-1039	6.9 23
190	Poly(Eglutamic acid) and poly(Eglutamic acid)-based nanocomplexes enhance type II collagen production in intervertebral disc. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 6	4.5 14

189	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 98, 86-95	5.1	63
188	Ibuprofen-loaded poly(trimethylene carbonate-co-ε-caprolactone) electrospun fibres for nerve regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, E154-66	4.4	38
187	Immune response and innervation signatures in aseptic hip implant loosening. <i>Journal of Translational Medicine</i> , <b>2016</b> , 14, 205	8.5	15
186	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. <i>Scientific Reports</i> , <b>2016</b> , 6, 33836	4.9	28
185	The two faces of metal ions: From implants rejection to tissue repair/regeneration. <i>Biomaterials</i> , <b>2016</b> , 84, 262-275	15.6	76
184	Self-Healing Spongy Coating for Drug "Cocktail" Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4309-13	9.5	30
183	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An Ex Vivo Model for Anti-inflammatory Drug and Cell Therapy. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 8-19	2.9	28
182	Strontium-rich injectable hybrid system for bone regeneration. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 818-827	8.3	22
181	miR-195 in human primary mesenchymal stromal/stem cells regulates proliferation, osteogenesis and paracrine effect on angiogenesis. <i>Oncotarget</i> , <b>2016</b> , 7, 7-22	3.3	61
180	Nanostructured lipid carriers loaded with resveratrol modulate human dendritic cells. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 3501-16	7.3	25
179	Intricate Macrophage-Colorectal Cancer Cell Communication in Response to Radiation. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160891	3.7	12
178	Anti-inflammatory Chitosan/Poly-ε-glutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. <i>Acta Biomaterialia</i> , <b>2016</b> , 42, 168-179 <sup>10.8</sup>	10.8	44
177	Three-dimensional scaffolds of fetal decellularized hearts exhibit enhanced potential to support cardiac cells in comparison to the adult. <i>Biomaterials</i> , <b>2016</b> , 104, 52-64	15.6	40
176	Chapter 10 Corrosion of Metallic Implants <b>2016</b> , 509-548		1
175	Ionizing radiation modulates human macrophages towards a pro-inflammatory phenotype preserving their pro-invasive and pro-angiogenic capacities. <i>Scientific Reports</i> , <b>2016</b> , 6, 18765	4.9	107
174	NAP-2 Secreted by Human NK Cells Can Stimulate Mesenchymal Stem/Stromal Cell Recruitment. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 466-473	8	46
173	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. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13,	4.1	29
172	Fibrinogen scaffolds with immunomodulatory properties promote in vivo bone regeneration. <i>Biomaterials</i> , <b>2016</b> , 111, 163-178	15.6	43

171	Circulating extracellular vesicles: Their role in tissue repair and regeneration. <i>Transfusion and Apheresis Science</i> , <b>2016</b> , 55, 53-61	2.4	23
170	Improvement of Bovine Nucleus Pulposus Cells Isolation Leads to Identification of Three Phenotypically Distinct Cell Subpopulations. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 2216-27	3.9	11
169	Development of an immunomodulatory biomaterial: using resolvin D1 to modulate inflammation. <i>Biomaterials</i> , <b>2015</b> , 53, 566-73	15.6	60
168	Poly(EGlutamic Acid) as an Exogenous Promoter of Chondrogenic Differentiation of Human Mesenchymal Stem/Stromal Cells. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 1869-85	3.9	9
167	Macrophage response to chitosan/poly-(Eglutamic acid) nanoparticles carrying an anti-inflammatory drug. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 167	4.5	25
166	Inflammation in intervertebral disc degeneration and regeneration. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20141191	4.1	169
165	Ultrastructural and biochemical characterization of mechanically adaptable collagenous structures in the edible sea urchin <i>Paracentrotus lividus</i> . <i>Zoology</i> , <b>2015</b> , 118, 147-60	1.7	11
164	Effect of Polyelectrolyte Film Stiffness on Endothelial Cells During Endothelial-to-Mesenchymal Transition. <i>Biomacromolecules</i> , <b>2015</b> , 16, 3584-93	6.9	47
163	E-cadherin-defective gastric cancer cells depend on Laminin to survive and invade. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 5891-900	5.6	15
162	Matrix metalloproteases as maestros for the dual role of LPS- and IL-10-stimulated macrophages in cancer cell behaviour. <i>BMC Cancer</i> , <b>2015</b> , 15, 456	4.8	15
161	Dynamic stiffness of polyelectrolyte multilayer films based on disulfide bonds for in situ control of cell adhesion. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 7546-7553	7.3	24
160	Modulation of the inflammatory response to chitosan through M2 macrophage polarization using pro-resolution mediators. <i>Biomaterials</i> , <b>2015</b> , 37, 116-23	15.6	97
159	Finding and tracing human MSC in 3D microenvironments with the photoconvertible protein Dendra2. <i>Scientific Reports</i> , <b>2015</b> , 5, 10079	4.9	5
158	An interferon- $\beta$ delivery system based on chitosan/poly(Eglutamic acid) polyelectrolyte complexes modulates macrophage-derived stimulation of cancer cell invasion in vitro. <i>Acta Biomaterialia</i> , <b>2015</b> , 23, 157-171	10.8	34
157	Impact of 3-D printed PLA- and chitosan-based scaffolds on human monocyte/macrophage responses: unraveling the effect of 3-D structures on inflammation. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 613-22	10.8	200
156	The effect of hyaluronan-based delivery of stromal cell-derived factor-1 on the recruitment of MSCs in degenerating intervertebral discs. <i>Biomaterials</i> , <b>2014</b> , 35, 8144-53	15.6	59
155	Selective albumin-binding surfaces modified with a thrombin-inhibiting peptide. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 1227-37	10.8	5
154	Macrophages stimulate gastric and colorectal cancer invasion through EGFR Y(1086), c-Src, Erk1/2 and Akt phosphorylation and smallGTPase activity. <i>Oncogene</i> , <b>2014</b> , 33, 2123-33	9.2	77

153	Production, characterization and biocompatibility of marine collagen matrices from an alternative and sustainable source: the sea urchin <i>Paracentrotus lividus</i> . <i>Marine Drugs</i> , <b>2014</b> , 12, 4912-33	6	54
152	Neonatal human dermal fibroblasts immobilized in RGD-alginate induce angiogenesis. <i>Cell Transplantation</i> , <b>2014</b> , 23, 945-57	4	18
151	Resveratrol as a natural anti-tumor necrosis factor- $\alpha$ molecule: implications to dendritic cells and their crosstalk with mesenchymal stromal cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e91406	3.7	21
150	Adsorbed fibrinogen enhances production of bone- and angiogenic-related factors by monocytes/macrophages. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 250-63	3.9	30
149	Modulation of stability and mucoadhesive properties of chitosan microspheres for therapeutic gastric application. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 454, 116-24	6.5	44
148	Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 7209-17	10.8	43
147	Macrophage polarization following chitosan implantation. <i>Biomaterials</i> , <b>2013</b> , 34, 9952-9	15.6	90
146	Endothelialization of chitosan porous conduits via immobilization of a recombinant fibronectin fragment (rhFNIII7-10). <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5643-52	10.8	14
145	Fibrinogen promotes resorption of chitosan by human osteoclasts. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6553-62	10.8	15
144	Kinetics and isotherm of fibronectin adsorption to three-dimensional porous chitosan scaffolds explored by $^{14}$ C radiolabelling. <i>Biomatter</i> , <b>2013</b> , 3,		4
143	Multinuclear Cell Analysis Using Laplacian of Gaussian and Delaunay Graphs. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 441-449	0.9	4
142	The mechanically adaptive connective tissue of echinoderms: its potential for bio-innovation in applied technology and ecology. <i>Marine Environmental Research</i> , <b>2012</b> , 76, 108-13	3.3	26
141	Correlations between the biochemistry and mechanical states of a sea-urchin ligament: a mutable collagenous structure. <i>Biointerphases</i> , <b>2012</b> , 7, 38	1.8	14
140	Biofunctional chemically modified pectin for cell delivery. <i>Soft Matter</i> , <b>2012</b> , 8, 4731	3.6	63
139	Enhanced mesenchymal stromal cell recruitment via natural killer cells by incorporation of inflammatory signals in biomaterials. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 261-71	4.1	51
138	The effect of octadecyl chain immobilization on the hemocompatibility of poly (2-hydroxyethyl methacrylate). <i>Biomaterials</i> , <b>2012</b> , 33, 7677-85	15.6	13
137	Bioengineered surfaces to improve the blood compatibility of biomaterials through direct thrombin inactivation. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 4101-10	10.8	19
136	The effect of adsorbed fibronectin and osteopontin on macrophage adhesion and morphology on hydrophilic and hydrophobic model surfaces. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 3669-77	10.8	18

135	Protein adsorption characterization. <i>Methods in Molecular Biology</i> , <b>2012</b> , 811, 141-61	1.4	15
134	Biosynthesis of highly pure poly- $\gamma$ -glutamic acid for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1583-91	4.5	24
133	Implanted neonatal human dermal fibroblasts influence the recruitment of endothelial cells in mice. <i>Biomatter</i> , <b>2012</b> , 2, 43-52		13
132	Matrix metalloproteinases in a sea urchin ligament with adaptable mechanical properties. <i>PLoS ONE</i> , <b>2012</b> , 7, e49016	3.7	21
131	Mesenchymal stem cell recruitment by stromal derived factor-1-delivery systems based on chitosan/poly( $\gamma$ -glutamic acid) polyelectrolyte complexes. <i>European Cells and Materials</i> , <b>2012</b> , 23, 249-60; discussion 260-1	4.3	38
130	Chitosan drives anti-inflammatory macrophage polarisation and pro-inflammatory dendritic cell stimulation. <i>European Cells and Materials</i> , <b>2012</b> , 24, 136-52; discussion 152-3	4.3	104
129	Layer-by-layer self-assembly of chitosan and poly( $\gamma$ -glutamic acid) into polyelectrolyte complexes. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4183-95	6.9	92
128	Pectin-based injectable biomaterials for bone tissue engineering. <i>Biomacromolecules</i> , <b>2011</b> , 12, 568-77	6.9	174
127	Phenotypic and proliferative modulation of human mesenchymal stem cells via crosstalk with endothelial cells. <i>Stem Cell Research</i> , <b>2011</b> , 7, 186-97	1.6	84
126	Injectable in situ crosslinkable RGD-modified alginate matrix for endothelial cells delivery. <i>Biomaterials</i> , <b>2011</b> , 32, 7897-904	15.6	126
125	Platelet and leukocyte adhesion to albumin binding self-assembled monolayers. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 2053-63	4.5	16
124	Interactions of leukocytes and platelets with poly(lysine/leucine) immobilized on tetraethylene glycol-terminated self-assembled monolayers. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 1949-55	10.8	6
123	New insights into mutable collagenous tissue: correlations between the microstructure and mechanical state of a sea-urchin ligament. <i>PLoS ONE</i> , <b>2011</b> , 6, e24822	3.7	34
122	Immobilization of human mesenchymal stem cells within RGD-grafted alginate microspheres and assessment of their angiogenic potential. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1956-64	6.9	119
121	Adhesion of human leukocytes on mixtures of hydroxyl- and methyl-terminated self-assembled monolayers: effect of blood protein adsorption. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 12-9	5.4	7
120	Evaluation of the effect of the degree of acetylation on the inflammatory response to 3D porous chitosan scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 20-8	5.4	33
119	Characterization of polymeric solutions as injectable vehicles for hydroxyapatite microspheres. <i>AAPS PharmSciTech</i> , <b>2010</b> , 11, 852-8	3.9	17
118	The effect of immobilization of thrombin inhibitors onto self-assembled monolayers on the adsorption and activity of thrombin. <i>Biomaterials</i> , <b>2010</b> , 31, 3772-80	15.6	23



117	Targeted gene delivery into peripheral sensorial neurons mediated by self-assembled vectors composed of poly(ethylene imine) and tetanus toxin fragment c. <i>Journal of Controlled Release</i> , <b>2010</b> , 143, 350-8	11.7	40
116	Bioactivity of immobilized EGF on self-assembled monolayers: optimization of the immobilization process. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 576-85	5.4	9
115	The stability of self-assembled monolayers with time and under biological conditions. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 833-43	5.4	8
114	Engineering endochondral bone: in vitro studies. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 625-34	3.9	46
113	Cellular response to the surface chemistry of nanostructured biomaterials <b>2009</b> , 85-113		1
112	Engineering endochondral bone: in vivo studies. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 635-43	3.9	48
111	Molecularly designed surfaces for blood deheparinization using an immobilized heparin-binding peptide. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 162-73	5.4	26
110	Selective protein adsorption modulates platelet adhesion and activation to oligo(ethylene glycol)-terminated self-assembled monolayers with C18 ligands. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 89, 642-53	5.4	21
109	The effect of the co-immobilization of human osteoprogenitors and endothelial cells within alginate microspheres on mineralization in a bone defect. <i>Biomaterials</i> , <b>2009</b> , 30, 3271-8	15.6	171
108	Protein adsorption and clotting time of pHEMA hydrogels modified with C18 ligands to adsorb albumin selectively and reversibly. <i>Biomaterials</i> , <b>2009</b> , 30, 5541-51	15.6	27
107	Fibronectin-mediated endothelialisation of chitosan porous matrices. <i>Biomaterials</i> , <b>2009</b> , 30, 5465-75	15.6	41
106	The correlation between the adsorption of adhesive proteins and cell behaviour on hydroxyl-methyl mixed self-assembled monolayers. <i>Biomaterials</i> , <b>2009</b> , 30, 307-16	15.6	132
105	Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. <i>Biomaterials</i> , <b>2009</b> , 30, 6879-87	15.6	27
104	Improving chitosan-mediated gene transfer by the introduction of intracellular buffering moieties into the chitosan backbone. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2995-3006	10.8	129
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