

# James M Anderson

## List of Publications by Citations

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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.

186  
papers

18,487  
citations

61  
h-index

134  
g-index

193  
ext. papers

19,940  
ext. citations

6.8  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
186	Foreign body reaction to biomaterials. <i>Seminars in Immunology</i> , <b>2008</b> , 20, 86-100	10.7	3186
185	Biodegradation and biocompatibility of PLA and PLGA microspheres. <i>Advanced Drug Delivery Reviews</i> , <b>1997</b> , 28, 5-24	18.5	1721
184	Biological Responses to Materials. <i>Annual Review of Materials Research</i> , <b>2001</b> , 31, 81-110	12.8	1102
183	Biodegradation and biocompatibility of PLA and PLGA microspheres. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 72-82	18.5	558
182	Host response to tissue engineered devices. <i>Advanced Drug Delivery Reviews</i> , <b>1998</b> , 33, 111-139	18.5	453
181	Inflammatory response to implants. <i>ASAIO Journal</i> , <b>1988</b> , 34, 101-7	3.6	453
180	Biocompatibility and biofouling of MEMS drug delivery devices. <i>Biomaterials</i> , <b>2003</b> , 24, 1959-67	15.6	444
179	Protein adsorption from human plasma is reduced on phospholipid polymers. <i>Journal of Biomedical Materials Research Part B</i> , <b>1991</b> , 25, 1397-407		392
178	Biomaterial biocompatibility and the macrophage. <i>Biomaterials</i> , <b>1984</b> , 5, 5-10	15.6	332
177	Polyurethane elastomer biostability. <i>Journal of Biomaterials Applications</i> , <b>1995</b> , 9, 321-54	2.9	303
176	Chapter 4 Mechanisms of inflammation and infection with implanted devices. <i>Cardiovascular Pathology</i> , <b>1993</b> , 2, 33-41	3.8	285
175	First-in-human testing of a wirelessly controlled drug delivery microchip. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 122ra21	17.5	283
174	In vitro and in vivo interactions of cells with biomaterials. <i>Biomaterials</i> , <b>1988</b> , 9, 5-13	15.6	283
173	Characterization of topographical effects on macrophage behavior in a foreign body response model. <i>Biomaterials</i> , <b>2010</b> , 31, 3479-91	15.6	273
172	Multinucleated giant cells. <i>Current Opinion in Hematology</i> , <b>2000</b> , 7, 40-7	3.3	247
171	Proteomic analysis and quantification of cytokines and chemokines from biomaterial surface-adherent macrophages and foreign body giant cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 83, 585-96	5.4	243
170	Adsorbed serum proteins responsible for surface dependent human macrophage behavior. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 49, 435-47		236

169	Biomaterial adherent macrophage apoptosis is increased by hydrophilic and anionic substrates in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10287-92	11.5	192
168	Adherent endotoxin on orthopedic wear particles stimulates cytokine production and osteoclast differentiation. <i>Journal of Bone and Mineral Research</i> , <b>2001</b> , 16, 2082-91	6.3	186
167	Beta1 and beta2 integrins mediate adhesion during macrophage fusion and multinucleated foreign body giant cell formation. <i>American Journal of Pathology</i> , <b>2002</b> , 160, 621-30	5.8	176
166	Oxidative mechanisms of poly(carbonate urethane) and poly(ether urethane) biodegradation: in vivo and in vitro correlations. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 70, 245-55		167
165	Biocompatibility of implants: lymphocyte/macrophage interactions. <i>Seminars in Immunopathology</i> , <b>2011</b> , 33, 221-33	12	164
164	In vivo biocompatibility and biostability of modified polyurethanes. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 36, 246-57		163
163	Influence of biomaterial surface chemistry on the apoptosis of adherent cells. <i>Journal of Biomedical Materials Research Part B</i> , <b>2001</b> , 55, 661-8		160
162	In vivo biocompatibility studies. I. The cage implant system and a biodegradable hydrogel. <i>Journal of Biomedical Materials Research Part B</i> , <b>1983</b> , 17, 301-25		159
161	Giant cell formation and function. <i>Current Opinion in Hematology</i> , <b>2009</b> , 16, 53-7	3.3	150
160	In vivo leukocyte cytokine mRNA responses to biomaterials are dependent on surface chemistry. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 64, 320-9		149
159	Poly(carbonate urethane) and poly(ether urethane) biodegradation: in vivo studies. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 69, 407-16		137
158	Biocompatibility and degradation characteristics of PLGA-based electrospun nanofibrous scaffolds with nanoapatite incorporation. <i>Biomaterials</i> , <b>2012</b> , 33, 6604-14	15.6	134
157	Role for interleukin-4 in foreign-body giant cell formation on a poly(etherurethane urea) in vivo. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 1267-75		126
156	Biodegradation of polyether polyurethane inner insulation in bipolar pacemaker leads. <i>Journal of Biomedical Materials Research Part B</i> , <b>2001</b> , 58, 302-7		124
155	Issues and perspectives on the biocompatibility and immunotoxicity evaluation of implanted controlled release systems. <i>Journal of Controlled Release</i> , <b>1999</b> , 57, 107-13	11.7	118
154	Macrophage fusion and multinucleated giant cells of inflammation. <i>Advances in Experimental Medicine and Biology</i> , <b>2011</b> , 713, 97-111	3.6	115
153	Tenogenic Induction of Human MSCs by Anisotropically Aligned Collagen Biotextiles. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5762-5770	15.6	111
152	The topographical effect of electrospun nanofibrous scaffolds on the in vivo and in vitro foreign body reaction. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 1151-9	5.4	109

151	Oxidative biodegradation mechanisms of biaxially strained poly(etherurethane urea) elastomers. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 337-47		103
150	In vitro cytotoxicity and in vivo biocompatibility of poly(propylene fumarate-co-ethylene glycol) hydrogels. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 46, 22-32		100
149	Role of oxygen in biodegradation of poly(etherurethane urea) elastomers. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 34, 519-30		98
148	Enzymatic degradation of poly(ether urethane) and poly(carbonate urethane) by cholesterol esterase. <i>Biomaterials</i> , <b>2006</b> , 27, 3920-6	15.6	97
147	Vitronectin is a critical protein adhesion substrate for IL-4-induced foreign body giant cell formation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 86, 535-43	5.4	95
146	Lymphocytes and the foreign body response: lymphocyte enhancement of macrophage adhesion and fusion. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 222-9	5.4	93
145	Effects of surface-coupled polyethylene oxide on human macrophage adhesion and foreign body giant cell formation in vitro. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 44, 206-16		93
144	In vivo biocompatibility studies of medisorb <sup>®</sup> 65/35 D,L-lactide/glycolide copolymer microspheres. <i>Journal of Controlled Release</i> , <b>1993</b> , 24, 81-93	11.7	93
143	In vivo biocompatibility study of ABA triblock copolymers consisting of poly(L-lactic-co-glycolic acid) A blocks attached to central poly(oxyethylene) B blocks. <i>Journal of Biomedical Materials Research Part B</i> , <b>1996</b> , 30, 31-40		92
142	Phenotypic dichotomies in the foreign body reaction. <i>Biomaterials</i> , <b>2007</b> , 28, 5114-20	15.6	87
141	Protein adsorption and macrophage activation on polydimethylsiloxane and silicone rubber. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>1995</b> , 7, 159-69	3.5	84
140	Matrix metalloproteinases and their inhibitors in the foreign body reaction on biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 84, 158-66	5.4	83
139	Recent advances in biomedical polyurethane biostability and biodegradation. <i>Polymer International</i> , <b>1998</b> , 46, 163-171	3.3	81
138	Human monocyte/macrophage adhesion, macrophage motility, and IL-4-induced foreign body giant cell formation on silane-modified surfaces in vitro. Student Research Award in the Master's Degree Candidate Category, 24th Annual Meeting of the Society for Biomaterials, San Diego, CA, April 22-26, 1998. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 41, 171-84		77
137	In vitro and in vivo degradation of poly(propylene fumarate-co-ethylene glycol) hydrogels. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 42, 312-20		77
136	Controlling fibrous capsule formation through long-term down-regulation of collagen type I (COL1A1) expression by nanofiber-mediated siRNA gene silencing. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 4513-24	10.8	74
135	Lymphocyte/macrophage interactions: biomaterial surface-dependent cytokine, chemokine, and matrix protein production. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 87, 676-87	5.4	71
134	Cytoskeletal and adhesive structural polarizations accompany IL-13-induced human macrophage fusion. <i>Journal of Histochemistry and Cytochemistry</i> , <b>1999</b> , 47, 65-74	3.4	71

133	Generation of IL-1-like activity in response to biomedical polymer implants: a comparison of in vitro and in vivo models. <i>Journal of Biomedical Materials Research Part B</i> , <b>1989</b> , 23, 1007-26		69
132	Theoretical analysis of in vivo macrophage adhesion and foreign body giant cell formation on polydimethylsiloxane, low density polyethylene, and polyetherurethanes. <i>Journal of Biomedical Materials Research Part B</i> , <b>1994</b> , 28, 73-9		67
131	Effects of photochemically immobilized polymer coatings on protein adsorption, cell adhesion, and the foreign body reaction to silicone rubber. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 44, 298-307		64
130	Morphologic characteristics of adsorbed human plasma proteins on vascular grafts and biomaterials. <i>Journal of Vascular Surgery</i> , <b>1990</b> , 11, 599-606	3.5	63
129	Bacterial surface properties of clinically isolated Staphylococcus epidermidis strains determine adhesion on polyethylene. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 42, 425-32		62
128	Adsorbed IgG: a potent adhesive substrate for human macrophages. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 50, 281-90		62
127	Spatial regulation and surface chemistry control of monocyte/macrophage adhesion and foreign body giant cell formation by photochemically micropatterned surfaces. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 45, 148-54		62
126	Plasma protein adsorbed biomedical polymers: activation of human monocytes and induction of interleukin 1. <i>Journal of Biomedical Materials Research Part B</i> , <b>1989</b> , 23, 535-48		61
125	Disruption of filamentous actin inhibits human macrophage fusion. <i>FASEB Journal</i> , <b>1999</b> , 13, 823-32	0.9	60
124	Surface chemistry mediates adhesive structure, cytoskeletal organization, and fusion of macrophages. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 71, 439-48		59
123	Adhesion of Staphylococcus epidermidis to biomedical polymers: contributions of surface thermodynamics and hemodynamic shear conditions. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 485-93		59
122	Macrophage behavior on surface-modified polyurethanes. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2004</b> , 15, 567-84	3.5	57
121	Biocompatibility studies of naltrexone sustained release formulations. <i>Journal of Controlled Release</i> , <b>1992</b> , 19, 299-314	11.7	57
120	Multinucleated giant cell formation exhibits features of phagocytosis with participation of the endoplasmic reticulum. <i>Experimental and Molecular Pathology</i> , <b>2005</b> , 79, 126-35	4.4	55
119	Student Research Award in the Undergraduate Degree Candidate category, 30th Annual Meeting of the Society for Biomaterials, Memphis, Tennessee, April 27-30, 2005. Monocyte/lymphocyte interactions and the foreign body response: in vitro effects of biomaterial surface chemistry. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 285-93	5.4	55
118	Iron oxide nanoparticles promote macrophage autophagy and inflammatory response through activation of toll-like Receptor-4 signaling. <i>Biomaterials</i> , <b>2019</b> , 203, 23-30	15.6	55
117	Foreign body-type multinucleated giant cell formation is potently induced by alpha-tocopherol and prevented by the diacylglycerol kinase inhibitor R59022. <i>American Journal of Pathology</i> , <b>2003</b> , 163, 1147-56	5.8	53
116	Biocompatibility studies on plasma polymerized interface materials encompassing both hydrophobic and hydrophilic surfaces. <i>Journal of Biomedical Materials Research Part B</i> , <b>1992</b> , 26, 915-35		53

115	Future challenges in the in vitro and in vivo evaluation of biomaterial biocompatibility. <i>International Journal of Energy Production and Management</i> , <b>2016</b> , 3, 73-7	5-3	52
114	Phospholipid polymer surfaces reduce bacteria and leukocyte adhesion under dynamic flow conditions. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 73, 359-66	5-4	50
113	Antioxidant inhibition of poly(carbonate urethane) in vivo biodegradation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 480-90	5-4	48
112	Biostability and macrophage-mediated foreign body reaction of silicone-modified polyurethanes. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 141-55	5-4	48
111	Morphologic characteristics of adsorbed human plasma proteins on vascular grafts and biomaterials. <i>Journal of Vascular Surgery</i> , <b>1990</b> , 11, 599-606	3-5	48
110	Blood and tissue compatibility of modified polyester: thrombosis, inflammation, and healing. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 39, 130-40		47
109	Effects of adsorbed heat labile serum proteins and fibrinogen on adhesion and apoptosis of monocytes/macrophages on biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 671-5	4-5	46
108	alpha subunit partners to beta1 and beta2 integrins during IL-4-induced foreign body giant cell formation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 82, 568-74	5-4	45
107	Alkylsilane-modified surfaces: inhibition of human macrophage adhesion and foreign body giant cell formation. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 46, 11-21		45
106	Paracrine and juxtacrine lymphocyte enhancement of adherent macrophage and foreign body giant cell activation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 89, 490-8	5-4	44
105	Macroporous condensed poly(tetrafluoroethylene). I. In vivo inflammatory response and healing characteristics. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 234-42	5-4	44
104	Theoretical analysis of in vivo macrophage adhesion and foreign body giant cell formation on strained poly(etherurethane urea) elastomers. <i>Journal of Biomedical Materials Research Part B</i> , <b>1994</b> , 28, 819-29		44
103	Detection of bacterial adherence on biomedical polymers. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 39, 415-22		43
102	Shear stress effects on bacterial adhesion, leukocyte adhesion, and leukocyte oxidative capacity on a polyetherurethane. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 46, 511-9		43
101	The future of biomedical materials. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2006</b> , 17, 1025-8	4-5	42
100	Phenotypic expression in human monocyte-derived interleukin-4-induced foreign body giant cells and macrophages in vitro: dependence on material surface properties. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1380-90	5-4	41
99	Lymphocyte adhesion and interactions with biomaterial adherent macrophages and foreign body giant cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 1210-20	5-4	41
98	Adhesion of Staphylococcus epidermidis and transposon mutant strains to hydrophobic polyethylene. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 39, 341-50		41

97	Interleukin-4 inhibits tumor necrosis factor-alpha-induced and spontaneous apoptosis of biomaterial-adherent macrophages. <i>Translational Research</i> , <b>2002</b> , 139, 90-100		41
96	Vascular graft-associated complement activation and leukocyte adhesion in an artificial circulation. <i>Journal of Biomedical Materials Research Part B</i> , <b>1987</b> , 21, 379-97		41
95	Vitamin E as an antioxidant for poly(etherurethane urea): in vivo studies. Student Research Award in the Doctoral Degree Candidate Category, Fifth World Biomaterials Congress (22nd Annual Meeting of the Society for Biomaterials), Toronto, Canada, May 29-June 2, 1996. <i>Journal of Biomedical Materials Research Part B</i> , <b>1996</b> , 32, 493-504		40
94	In vivo leucocyte interactions with the NHLBI-DTB primary reference materials: polyethylene and silica-free polydimethylsiloxane. <i>Biomaterials</i> , <b>1987</b> , 8, 12-7	15.6	39
93	Host Reactions to Biomaterials and Their Evaluation <b>1996</b> , 165-214		38
92	Quantitative in vivo cytokine analysis at synthetic biomaterial implant sites. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 89, 152-9	5.4	38
91	Adhesion behavior of monocytes, macrophages, and foreign body giant cells on poly (N-isopropylacrylamide) temperature-responsive surfaces. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 59, 136-43		38
90	Exploiting the inflammatory response on biomaterials research and development. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 121	4.5	36
89	In vitro and in vivo evaluation of the inflammatory response to nanoscale grooved substrates. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 308-17	6	34
88	Healing response to the Clamshell device for closure of intracardiac defects in humans. <i>Catheterization and Cardiovascular Interventions</i> , <b>2001</b> , 54, 101-11	2.7	34
87	Electroanalytical and biocompatibility studies on microfabricated array sensors. <i>Electroanalysis</i> , <b>1995</b> , 7, 864-870	3	34
86	Protein adsorption onto poly(ether urethane ureas) containing Methacrol 2138F: a surface-active amphiphilic additive. <i>Journal of Biomedical Materials Research Part B</i> , <b>1993</b> , 27, 255-67		33
85	Comparison of two antioxidants for poly(etherurethane urea) in an accelerated in vitro biodegradation system. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 34, 493-505		32
84	Ion-Selective Microchemical Sensors with Reduced Preconditioning Time. Membrane Biostability Studies and Applications in Blood Analysis. <i>Analytical Letters</i> , <b>1994</b> , 27, 3039-3063	2.2	32
83	Photochemically immobilized polymer coatings: effects on protein adsorption, cell adhesion, and leukocyte activation. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>1999</b> , 10, 1063-74	3.5	31
82	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
81	In vivo leucocyte interactions on Pellethane surfaces. <i>Biomaterials</i> , <b>1990</b> , 11, 370-8	15.6	30
80	Foreign body-type multinucleated giant cells induced by interleukin-4 express select lymphocyte co-stimulatory molecules and are phenotypically distinct from osteoclasts and dendritic cells. <i>Experimental and Molecular Pathology</i> , <b>2011</b> , 91, 673-81	4.4	29

79	Laboratory-scale mass production of a multi-micropatterned grafted surface with different polymer regions. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 53, 584-91		29
78	Effect of surgical wound classification on biologic graft performance in complex hernia repair: an experimental study. <i>Surgery</i> , <b>2013</b> , 153, 481-92	3.6	28
77	The effect of strain state on the biostability of a poly(etherurethane urea) elastomer. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 35, 319-28		28
76	Shear stress and material surface effects on adherent human monocyte apoptosis. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 60, 148-58		28
75	Protein adsorption to poly(ether urethane ureas) modified with acrylate and methacrylate polymer and copolymer additives. <i>Journal of Biomedical Materials Research Part B</i> , <b>1993</b> , 27, 367-77		28
74	In vivo quantitative and qualitative assessment of foreign body giant cell formation on biomaterials in mice deficient in natural killer lymphocyte subsets, mast cells, or the interleukin-4 receptor and in severe combined immunodeficient mice. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 100, 2017-23	5.4	27
73	The biocompatibility of solution cast and acetone-extracted cast Biomer. <i>Journal of Biomedical Materials Research Part B</i> , <b>1986</b> , 20, 799-815		27
72	Woven collagen biotextiles enable mechanically functional rotator cuff tendon regeneration during repair of segmental tendon defects in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 1864-1876	3.5	26
71	In vivo inflammatory and wound healing effects of gold electrode voltammetry for MEMS micro-reservoir drug delivery device. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2004</b> , 51, 627-35	5	25
70	Platelet-mediated adhesion of <i>Staphylococcus epidermidis</i> to hydrophobic NHLBI reference polyethylene. <i>Journal of Biomedical Materials Research Part B</i> , <b>1993</b> , 27, 1119-28		25
69	Surface chemistry control of monocyte and macrophage adhesion, morphology, and fusion. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 49, 141-5		24
68	Complement-mediated leukocyte adhesion on poly(etherurethane ureas) under shear stress in vitro. <i>Journal of Biomedical Materials Research Part B</i> , <b>1996</b> , 32, 99-109		24
67	Biocompatibility of ABA triblock copolymer microparticles consisting of poly(L-lactic-co-glycolic-acid) A-blocks attached to central poly(oxyethylene) B-blocks in rats after intramuscular injection. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>1997</b> , 43, 19-28	5.7	23
66	Cyclic-strain-induced endothelial cell expression of adhesion molecules and their roles in monocyte-endothelial interaction. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 44, 87-97		23
65	Blood-biomaterial interactions in a flow system in the presence of bacteria: effect of protein adsorption. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 247-56		23
64	Biocompatibility of a new semisolid bioerodible poly(ortho ester) intended for the ocular delivery of 5-fluorouracil. <i>Journal of Biomedical Materials Research Part B</i> , <b>1994</b> , 28, 1037-46		22
63	Biotolerance of a semisolid hydrophobic biodegradable poly(ortho ester) for controlled drug delivery. <i>Journal of Biomedical Materials Research Part B</i> , <b>1993</b> , 27, 677-81		22
62	The effect of hydrocortisone acetate loaded poly(DL-lactide) films on the inflammatory response. <i>Journal of Controlled Release</i> , <b>1985</b> , 2, 197-203	11.7	22



61	Tailoring the foreign body response for in situ vascular tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 436-46	2.9	21
60	Effect of strain and strain rate on fatigue-accelerated biodegradation of polyurethane. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 66, 463-75		21
59	Lack of identifiable biologic behavior in a series of porcine mesh explants. <i>Surgery</i> , <b>2014</b> , 156, 183-9	3.6	20
58	Local release of dexamethasone from polymer millirods effectively prevents fibrosis after radiofrequency ablation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 174-82	5.4	20
57	Instability of self-assembled monolayers as a model material system for macrophage/FBGC cellular behavior. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 86, 261-8	5.4	19
56	Bioactive iron oxide nanoparticles suppress osteoclastogenesis and ovariectomy-induced bone loss through regulating the TRAF6-p62-CYLD signaling complex. <i>Acta Biomaterialia</i> , <b>2020</b> , 103, 281-292	10.8	19
55	Lactosylated -Alkyl polyethylenimine coated iron oxide nanoparticles induced autophagy in mouse dendritic cells. <i>International Journal of Energy Production and Management</i> , <b>2018</b> , 5, 141-149	5.3	18
54	Directions for improvement of substitute heart valves: National Heart, Lung, and Blood Institute Working Group report on heart valves. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 38, 263-6		18
53	The Effect of Heparin vs. Citrate on the Interaction of Platelets with Vascular Graft Materials. <i>Thrombosis and Haemostasis</i> , <b>1985</b> , 54, 842-848	7	17
52	Biomaterials: Factors Favoring Colonization and Infection <b>2014</b> , 89-109		16
51	Biomaterial surface-dependent neutrophil mobility. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 69, 611-20		16
50	Effect of fibrous capsule formation on doxorubicin distribution in radiofrequency ablated rat livers. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 69, 398-406		15
49	Activation of caspase 3 during shear stress-induced neutrophil apoptosis on biomaterials. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 62, 163-8		15
48	Surface modification of poly(ether urethane urea) with modified dehydroepiandrosterone for improved in vivo biostability. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 73, 108-15	5.4	15
47	Methodology of fibroblast and mesenchymal stem cell coating of surgical meshes: a pilot analysis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2014</b> , 102, 797-805	3.5	14
46	Ventricular assist device (VAD) pathology analyses: guidelines for clinical studies. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , <b>1990</b> , 1, 49-56		13
45	Iron oxide nanoparticles promote vascular endothelial cells survival from oxidative stress by enhancement of autophagy. <i>International Journal of Energy Production and Management</i> , <b>2019</b> , 6, 221-229	5.3	12
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