Robert J Levy

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9,278 177 49 92 h-index g-index citations papers 184 5.64 9,925 7.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
177	Gastrointestinal uptake of biodegradable microparticles: effect of particle size. <i>Pharmaceutical Research</i> , 1996 , 13, 1838-45	4.5	703
176	The mechanism of uptake of biodegradable microparticles in Caco-2 cells is size dependent. <i>Pharmaceutical Research</i> , 1997 , 14, 1568-73	4.5	655
175	Calcification of tissue heart valve substitutes: progress toward understanding and prevention. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 1072-80	2.7	509
174	Polymer degradation and in vitro release of a model protein from poly(D,L-lactide-co-glycolide) nano- and microparticles. <i>Journal of Controlled Release</i> , 2003 , 92, 173-87	11.7	398
173	Progression of aortic valve stenosis: TGF-beta1 is present in calcified aortic valve cusps and promotes aortic valve interstitial cell calcification via apoptosis. <i>Annals of Thoracic Surgery</i> , 2003 , 75, 457-65; discussion 465-6	2.7	338
172	Founder's Award, 25th Annual Meeting of the Society for Biomaterials, perspectives. Providence, RI, April 28-May 2, 1999. Tissue heart valves: current challenges and future research perspectives. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 439-65		334
171	High field gradient targeting of magnetic nanoparticle-loaded endothelial cells to the surfaces of steel stents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 698-703	11.5	213
170	Gene delivery from a DNA controlled-release stent in porcine coronary arteries. <i>Nature Biotechnology</i> , 2000 , 18, 1181-4	44.5	204
169	Prevention of bioprosthetic heart valve calcification by ethanol preincubation. Efficacy and mechanisms. <i>Circulation</i> , 1997 , 95, 479-88	16.7	182
168	Targeting stents with local delivery of paclitaxel-loaded magnetic nanoparticles using uniform fields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8346-	·5 ¹ 1 ^{1.5}	158
167	Serotonin mechanisms in heart valve disease I: serotonin-induced up-regulation of transforming growth factor-beta1 via G-protein signal transduction in aortic valve interstitial cells. <i>American Journal of Pathology</i> , 2002 , 161, 2111-21	5.8	154
166	Arterial uptake of biodegradable nanoparticles: effect of surface modifications. <i>Journal of Pharmaceutical Sciences</i> , 1998 , 87, 1229-34	3.9	142
165	Matrix metalloproteinase-2 is associated with tenascin-C in calcific aortic stenosis. <i>American Journal of Pathology</i> , 2001 , 159, 321-7	5.8	141
164	Use of Hancock porcine xenografts in children and adolescents. <i>American Journal of Cardiology</i> , 1980 , 46, 429-38	3	139
163	Nanoparticle drug delivery system for restenosis. <i>Advanced Drug Delivery Reviews</i> , 1997 , 24, 63-85	18.5	126
162	Transforming growth factor-beta1 mechanisms in aortic valve calcification: increased alkaline phosphatase and related events. <i>Annals of Thoracic Surgery</i> , 2007 , 83, 946-53	2.7	120
161	Arterial uptake of biodegradable nanoparticles for intravascular local drug delivery: results with an acute dog model. <i>Journal of Controlled Release</i> , 1998 , 54, 201-11	11.7	111

(1983-2006)

160	In-vivo dynamic deformation of the mitral valve anterior leaflet. <i>Annals of Thoracic Surgery</i> , 2006 , 82, 1369-77	2.7	111
159	Mechanisms of bioprosthetic heart valve failure: fatigue causes collagen denaturation and glycosaminoglycan loss. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 44-50		110
158	Pathological considerations in replacement cardiac valves. Cardiovascular Pathology, 1992 , 1, 29-52	3.8	106
157	Magnetically driven plasmid DNA delivery with biodegradable polymeric nanoparticles. <i>FASEB Journal</i> , 2007 , 21, 2510-9	0.9	104
156	Serotonin mechanisms in heart valve disease II: the 5-HT2 receptor and its signaling pathway in aortic valve interstitial cells. <i>American Journal of Pathology</i> , 2002 , 161, 2209-18	5.8	97
155	Effects of antisense c-myb oligonucleotides on vascular smooth muscle cell proliferation and response to vessel wall injury. <i>Circulation Research</i> , 1995 , 76, 505-13	15.7	93
154	Endothelial delivery of antioxidant enzymes loaded into non-polymeric magnetic nanoparticles. <i>Journal of Controlled Release</i> , 2010 , 146, 144-51	11.7	91
153	Bioprosthetic Heart Valve Failure: Pathology and Pathogenesis. <i>Cardiology Clinics</i> , 1984 , 2, 717-739	2.5	89
152	Gene delivery to pig coronary arteries from stents carrying antibody-tethered adenovirus. <i>Human Gene Therapy</i> , 2002 , 13, 443-54	4.8	87
151	Bisphosphonate-mediated gene vector delivery from the metal surfaces of stents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 159-64	11.5	85
150	Elastin calcification and its prevention with aluminum chloride pretreatment. <i>American Journal of Pathology</i> , 1999 , 155, 973-82	5.8	83
149	Calcification of cardiac valve bioprostheses. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1982 , 83, 602-609	1.5	80
148	Gene therapy for tissue repair and regeneration. Advanced Drug Delivery Reviews, 1998, 33, 53-69	18.5	79
147	Atherocalcin, a gamma-carboxyglutamic acid containing protein from atherosclerotic plaque. <i>Biochemical and Biophysical Research Communications</i> , 1979 , 91, 41-9	3.4	78
146	Delivery and expression of pDNA embedded in collagen matrices. <i>Journal of Controlled Release</i> , 2004 , 95, 309-20	11.7	71
145	Inhibition of matrix metalloproteinase activity attenuates tenascin-C production and calcification of implanted purified elastin in rats. <i>American Journal of Pathology</i> , 2000 , 157, 885-93	5.8	69
144	Initiation of mineralization in bioprosthetic heart valves: studies of alkaline phosphatase activity and its inhibition by AlCl3 or FeCl3 preincubations. <i>Journal of Biomedical Materials Research Part B</i> , 1991 , 25, 905-35		68
143	Mechanism of calcification of porcine bioprosthetic aortic valve cusps: role of T-lymphocytes. <i>American Journal of Cardiology</i> , 1983 , 52, 629-31	3	68

142	Endothelial targeting of nanocarriers loaded with antioxidant enzymes for protection against vascular oxidative stress and inflammation. <i>Biomaterials</i> , 2014 , 35, 3708-15	15.6	67
141	A DNA controlled-release coating for gene transfer: transfection in skeletal and cardiac muscle. <i>Journal of Pharmaceutical Sciences</i> , 1998 , 87, 1347-50	3.9	67
140	Onset and progression of calcification in porcine aortic bioprosthetic valves Implanted as orthotopic mitral valve replacements in juvenile sheep. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1994 , 108, 880-887	1.5	67
139	Triglycidylamine crosslinking of porcine aortic valve cusps or bovine pericardium results in improved biocompatibility, biomechanics, and calcification resistance: chemical and biological mechanisms. <i>American Journal of Pathology</i> , 2005 , 166, 1-13	5.8	65
138	Pathology of substitute heart valves: new concepts and developments. <i>Journal of Cardiac Surgery</i> , 1994 , 9, 222-7	1.3	63
137	Cardiovascular implant calcification: a survey and update. <i>Biomaterials</i> , 1991 , 12, 707-14	15.6	63
136	Controlled-release drug delivery of diphosphonates to inhibit bioprosthetic heart valve calcification: release rate modulation with silicone matrices via drug solubility and membrane coating. <i>Journal of Pharmaceutical Sciences</i> , 1987 , 76, 271-6	3.9	63
135	Local delivery of gene vectors from bare-metal stents by use of a biodegradable synthetic complex inhibits in-stent restenosis in rat carotid arteries. <i>Circulation</i> , 2008 , 117, 2096-103	16.7	60
134	The effect of CD47 modified polymer surfaces on inflammatory cell attachment and activation. <i>Biomaterials</i> , 2011 , 32, 4317-26	15.6	58
133	Antimineralization treatments for bioprosthetic heart valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1992 , 104, 1285-1288	1.5	58
132	Vitamin K-dependent calcium binding proteins in aortic valve calcification. <i>Journal of Clinical Investigation</i> , 1980 , 65, 563-6	15.9	57
131	Gene transfection using biodegradable nanospheres: results in tissue culture and a rat osteotomy model. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999 , 16, 281-290	6	54
130	Prevention of calcification of glutaraldehyde-crosslinked porcine aortic cusps by ethanol preincubation: mechanistic studies of protein structure and water-biomaterial relationships. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 577-85		53
129	Sustained behavioral recovery from unilateral nigrostriatal damage produced by the controlled release of dopamine from a silicone polymer pellet placed into the denervated striatum. <i>Brain Research</i> , 1990 , 508, 60-4	3.7	53
128	Inhibition of aortic wall calcification in bioprosthetic heart valves by ethanol pretreatment: biochemical and biophysical mechanisms. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 30-7	7	48
127	Inhibition of calcification of glutaraldehyde pretreated porcine aortic valve cusps with sodium dodecyl sulfate: preincubation and controlled release studies. <i>Journal of Biomedical Materials Research Part B</i> , 1993 , 27, 1477-84		47
126	Prevention of leaflet calcification of bioprosthetic heart valves with diphosphonate injection therapy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1987 , 94, 551-557	1.5	47
125	Inhibition of bioprosthetic heart valve calcification with aminodiphosphonate covalently bound to residual aldehyde groups. <i>Annals of Thoracic Surgery</i> , 1988 , 46, 309-16	2.7	47

(2005-1986)

124	Controlled release of diphosphonate to inhibit bioprosthetic heart valve calcification: Dose-response and mechanistic studies. <i>Journal of Controlled Release</i> , 1986 , 4, 181-194	11.7	47
123	Effect of 2-amino oleic acid exposure conditions on the inhibition of calcification of glutaraldehyde cross-linked porcine aortic valves. <i>Journal of Biomedical Materials Research Part B</i> , 1994 , 28, 1485-95		42
122	Mechanisms of the in vivo inhibition of calcification of bioprosthetic porcine aortic valve cusps and aortic wall with triglycidylamine/mercapto bisphosphonate. <i>Biomaterials</i> , 2007 , 28, 690-9	15.6	41
121	Tissue heart valves: Current challenges and future research perspectives 1999 , 47, 439		41
120	Aortic valve cyclic stretch causes increased remodeling activity and enhanced serotonin receptor responsiveness. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 147-53	2.7	39
119	Fenfluramine disrupts the mitral valve interstitial cell response to serotonin. <i>American Journal of Pathology</i> , 2009 , 175, 988-97	5.8	39
118	Epicardial administration of ibutilide from polyurethane matrices: effects on defibrillation threshold and electrophysiologic parameters. <i>Journal of Cardiovascular Pharmacology</i> , 1994 , 24, 826-40	3.1	39
117	Prevention of calcification of glutaraldehyde pretreated bovine pericardium through controlled release polymeric implants: studies of Fe3+, Al3+, protamine sulphate and levamisole. <i>Biomaterials</i> , 1990 , 11, 718-23	15.6	39
116	Endovascular microcoil gene delivery using immobilized anti-adenovirus antibody for vector tethering. <i>Stroke</i> , 2002 , 33, 1376-82	6.7	38
115	Diminished adhesion and activation of platelets and neutrophils with CD47 functionalized blood contacting surfaces. <i>Biomaterials</i> , 2012 , 33, 5803-11	15.6	37
114	Current Progress in Anticalcif ication for Bioprosthetic and Polymeric Heart Valves. <i>Cardiovascular Pathology</i> , 1997 , 6, 219-29	3.8	36
113	Prevention of polyurethane valve cusp calcification with covalently attached bisphosphonate diethylamino moieties. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 385-95		35
112	Porcine bioprosthetic valve calcification in bovine left ventricle-aorta shunts: studies of the deposition of vitamin K-dependent proteins. <i>Annals of Thoracic Surgery</i> , 1983 , 36, 187-92	2.7	35
111	Calcification and Oxidative Modifications Are Associated With Progressive Bioprosthetic Heart Valve Dysfunction. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	33
110	Capillary electrophoresis of supercoiled and linear DNA in dilute hydroxyethyl cellulose solution. <i>Analytical Chemistry</i> , 1997 , 69, 1192-6	7.8	33
109	Inhibition of cusp and aortic wall calcification in ethanol- and aluminum-treated bioprosthetic heart valves in sheep: background, mechanisms, and synergism. <i>Journal of Heart Valve Disease</i> , 2003 , 12, 209-16; discussion 216		33
108	Magnetically responsive biodegradable nanoparticles enhance adenoviral gene transfer in cultured smooth muscle and endothelial cells. <i>Molecular Pharmaceutics</i> , 2009 , 6, 1380-7	5.6	32
107	A novel mercapto-bisphosphonate as an efficient anticalcification agent for bioprosthetic tissues. Journal of Organometallic Chemistry, 2005 , 690, 2543-2547	2.3	32

106	Cholesterol-modified polyurethane valve cusps demonstrate blood outgrowth endothelial cell adhesion post-seeding in vitro and in vivo. <i>Annals of Thoracic Surgery</i> , 2006 , 81, 47-55	2.7	31
105	Site specific gene delivery in the cardiovascular system. <i>Journal of Controlled Release</i> , 2005 , 109, 37-48	11.7	31
104	The susceptibility of bioprosthetic heart valve leaflets to oxidation. <i>Biomaterials</i> , 2014 , 35, 2097-102	15.6	29
103	Site-specific gene delivery to stented arteries using magnetically guided zinc oleate-based nanoparticles loaded with adenoviral vectors. <i>FASEB Journal</i> , 2013 , 27, 2198-206	0.9	29
102	Site-specific dexamethasone delivery for the prevention of neointimal thickening after vascular stent implantation. <i>Coronary Artery Disease</i> , 1994 , 5, 435-42	1.4	29
101	Covalent binding of aminopropanehydroxydiphosphonate to glutaraldehyde residues in pericardial bioprosthetic tissue: stability and calcification inhibition studies. <i>Experimental and Molecular Pathology</i> , 1989 , 50, 291-302	4.4	29
100	Serotonin transporter mechanisms and cardiac disease. <i>Circulation</i> , 2006 , 113, 2-4	16.7	28
99	gamma-Carboxyglutamate excretion and warfarin therapy. <i>Clinical Pharmacology and Therapeutics</i> , 1979 , 25, 562-70	6.1	28
98	Refinement of the alpha aminooleic acid bioprosthetic valve anticalcification technique. <i>Annals of Thoracic Surgery</i> , 1997 , 64, 50-8	2.7	27
97	Immobilization of plasmid DNA on an anti-DNA antibody modified coronary stent for intravascular site-specific gene therapy. <i>Journal of Gene Medicine</i> , 2008 , 10, 421-9	3.5	27
96	Nanoparticle-mediated delivery of a rapidly activatable prodrug of SN-38 for neuroblastoma therapy. <i>Biomaterials</i> , 2015 , 51, 22-29	15.6	26
95	Adenoviral gene vector tethering to nanoparticle surfaces results in receptor-independent cell entry and increased transgene expression. <i>Molecular Therapy</i> , 2006 , 14, 382-91	11.7	26
94	The incorporation of an ion channel gene mutation associated with the long QT syndrome (Q9E-hMiRP1) in a plasmid vector for site-specific arrhythmia gene therapy: in vitro and in vivo feasibility studies. <i>Human Gene Therapy</i> , 2003 , 14, 907-22	4.8	26
93	Nanoparticle delivery of an SN38 conjugate is more effective than irinotecan in a mouse model of neuroblastoma. <i>Cancer Letters</i> , 2015 , 360, 205-12	9.9	25
92	Cholesterol-derivatized polyurethane: characterization and endothelial cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 72, 200-12	5.4	25
91	Calcification of valved aortic allografts in rats: effects of age, crosslinking, and inhibitors. <i>Journal of Biomedical Materials Research Part B</i> , 1995 , 29, 217-26		25
90	Growth after surgical repair of simple D-transposition of the great arteries. <i>Annals of Thoracic Surgery</i> , 1978 , 25, 225-30	2.7	25
89	Enhanced biocompatibility of CD47-functionalized vascular stents. <i>Biomaterials</i> , 2016 , 87, 82-92	15.6	25

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88	Calcification resistance with aluminum-ethanol treated porcine aortic valve bioprostheses in juvenile sheep. <i>Annals of Thoracic Surgery</i> , 2003 , 75, 1267-73	2.7	23
87	Sotalol controlled-release systems for arrhythmias: in vitro characterization, in vivo drug disposition, and electrophysiologic effects. <i>Journal of Pharmaceutical Sciences</i> , 1994 , 83, 156-64	3.9	23
86	Magnetically enhanced cell delivery for accelerating recovery of the endothelium in injured arteries. <i>Journal of Controlled Release</i> , 2016 , 222, 169-75	11.7	22
85	Posttranslational control of a cardiac ion channel transgene in vivo: clarithromycin-hMiRP1-Q9E interactions. <i>Human Gene Therapy</i> , 2005 , 16, 906-10	4.8	22
84	Effects of metallic ions and diphosphonates on inhibition of pericardial bioprosthetic tissue calcification and associated alkaline phosphatase activity. <i>Biomaterials</i> , 1993 , 14, 371-7	15.6	22
83	Phosphonated polyurethanes that resist calcification. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1994 , 5, 65-77		21
82	Serotonin and catecholamines in the development and progression of heart valve diseases. <i>Cardiovascular Research</i> , 2017 , 113, 849-857	9.9	20
81	Formulation and in vitro characterization of composite biodegradable magnetic nanoparticles for magnetically guided cell delivery. <i>Pharmaceutical Research</i> , 2012 , 29, 1232-41	4.5	20
80	The effect of intramural delivery of polymeric nanoparticles loaded with the antiproliferative 2-aminochromone U-86983 on neointimal hyperplasia development in balloon-injured porcine coronary arteries. <i>Advanced Drug Delivery Reviews</i> , 1997 , 24, 87-108	18.5	20
79	Elastomeric polyurethanes modified with geminal bisphosphonate groups. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 105-116	2.5	20
78	Calcification of polyurethanes implanted subdermally in rats is enhanced by calciphylaxis. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 31, 201-7		20
77	Modulated drug release using iontophoresis through heterogeneous cation exchange membranes: membrane preparation and influence of resin crosslinkage. <i>Macromolecules</i> , 1992 , 25, 2531-2540	5.5	20
76	Cardiac controlled release for arrhythmia therapy: Lidocaine-polyurethane matrix studies. <i>Journal of Controlled Release</i> , 1988 , 8, 157-165	11.7	20
75	Triglycidyl amine crosslinking combined with ethanol inhibits bioprosthetic heart valve calcification. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 858-65	2.7	19
74	Prevention of calcification of bioprosthetic heart valve leaflets by Ca2+ diphosphonate pretreatment. <i>Journal of Pharmaceutical Sciences</i> , 1988 , 77, 740-4	3.9	19
73	Real-time analysis of composite magnetic nanoparticle disassembly in vascular cells and biomimetic media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4245	- 50 .5	18
72	In vivo biomechanical assessment of triglycidylamine crosslinked pericardium. <i>Biomaterials</i> , 2007 , 28, 5390-8	15.6	18
71	Retardation of calcification of bovine pericardium used in bioprosthetic heart valves by phosphocitrate and a synthetic analogue. <i>Biomaterials</i> , 1988 , 9, 393-7	15.6	18

70	Comparative pathology of human and canine myxomatous mitral valve degeneration: 5HT and TGF-Imechanisms. <i>Cardiovascular Pathology</i> , 2020 , 46, 107196	3.8	18
69	Serotonin receptor 2B signaling with interstitial cell activation and leaflet remodeling in degenerative mitral regurgitation. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 115, 94-103	5.8	17
68	The use of CD47-modified biomaterials to mitigate the immune response. <i>Experimental Biology and Medicine</i> , 2016 , 241, 1033-41	3.7	17
67	Differential calcification of cusps and aortic wall of failed stented porcine bioprosthetic valves. Journal of Biomedical Materials Research Part B, 1997, 34, 411-5		17
66	Prevention of oxidative degradation of polyurethane by covalent attachment of di-tert-butylphenol residues. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 653-61	5.4	17
65	Controlled release implants for cardiovascular disease. <i>Journal of Controlled Release</i> , 1990 , 11, 245-254	11.7	17
64	Prevention of calcification of bioprosthetic heart valve cusp and aortic wall with ethanol and aluminum chloride. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 897-904	2.7	16
63	Synergistic inhibition of the calcification of glutaraldehyde pretreated bovine pericardium in a rat subdermal model by FeCl3 and ethanehydroxydiphosphonate: preincubation and polymeric controlled release studies. <i>Biomaterials</i> , 1993 , 14, 705-11	15.6	16
62	Modulation of NO and ROS production by AdiNOS transduced vascular cells through supplementation with L-Arg and BH4: implications for gene therapy of restenosis. <i>Atherosclerosis</i> , 2013 , 230, 23-32	3.1	15
61	Intracellular signaling mechanisms associated with CD47 modified surfaces. <i>Biomaterials</i> , 2013 , 34, 864	013 .6	14
60	Addressing the Inflammatory Response to Clinically Relevant Polymers by Manipulating the Host Response Using ITIM Domain-Containing Receptors. <i>Polymers</i> , 2014 , 6, 2526-2551	4.5	14
59	High reactivity of alkyl sulfides towards epoxides under conditions of collagen fixationa convenient approach to 2-amino-4-butyrolactones. <i>Biomaterials</i> , 2001 , 22, 2501-6	15.6	14
58	Inhibition of bioprosthetic heart valve calcification by sustained local delivery of Ca and Na diphosphonate via controlled release matrices. <i>ASAIO Transactions</i> , 1986 , 32, 587-90		14
57	Sustained-release local hirulog therapy decreases early thrombosis but not neointimal thickening after arterial stenting. <i>American Heart Journal</i> , 1996 , 131, 211-8	4.9	13
56	Determinants of the modulated release of antiarrhythmic drugs by iontophoresis through polymer membranes. <i>Macromolecules</i> , 1993 , 26, 2264-2272	5.5	13
55	Ethanol inhibition of porcine bioprosthetic heart valve cusp calcification is enhanced by reduction with sodium borohydride. <i>Journal of Heart Valve Disease</i> , 2004 , 13, 487-93		13
54	Gene-based therapies for restenosis. Advanced Drug Delivery Reviews, 1997, 24, 109-120	18.5	12
53	Biological stability of polyurethane modified with covalent attachment of di-tert-butyl-phenol. Journal of Biomedical Materials Research - Part A, 2007 , 82, 1004-11	5.4	12

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52	Thymosin beta4 regulation, expression and function in aortic valve interstitial cells. <i>Journal of Heart Valve Disease</i> , 2002 , 11, 726-35		12
51	The effects of the covalent attachment of 3-(4-hydroxy-3,5-di-tert-butylphenyl) propyl amine to glutaraldehyde pretreated bovine pericardium on structural degeneration, oxidative modification, and calcification of rat subdermal implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 ,	5.4	11
50	Porphyrin-Based SOD Mimic MnTnBu OE -2-PyP Inhibits Mechanisms of Aortic Valve Remodeling in Human and Murine Models of Aortic Valve Sclerosis. <i>Journal of the American Heart Association</i> , 2018 , 7, e007861	6	11
49	Adenoviral vector tethering to metal surfaces via hydrolyzable cross-linkers for the modulation of vector release and transduction. <i>Biomaterials</i> , 2013 , 34, 6938-48	15.6	10
48	The efficacy of controlled release D-sotalol-polyurethane epicardial implants for ventricular arrhythmias due to acute ischemia in dogs. <i>Journal of Controlled Release</i> , 1993 , 23, 75-85	11.7	10
47	Efficacy of epicardial controlled-release lidocaine for ventricular tachycardia induced by rapid ventricular pacing in dogs. <i>Journal of Cardiovascular Pharmacology</i> , 1990 , 16, 812-7	3.1	10
46	Birthweight of infants with congenital heart disease. <i>JAMA Pediatrics</i> , 1978 , 132, 249-54		10
45	Site-specific gene therapy for cardiovascular disease. <i>Current Opinion in Drug Discovery & Development</i> , 2010 , 13, 203-13		10
44	Noncalcific Mechanisms of Bioprosthetic Structural Valve Degeneration. <i>Journal of the American Heart Association</i> , 2021 , 10, e018921	6	10
	CD47-dependent molecular mechanisms of blood outgrowth endothelial cell attachment on		
43	cholesterol-modified polyurethane. <i>Biomaterials</i> , 2010 , 31, 6394-9	15.6	9
43		15.67	9
	cholesterol-modified polyurethane. <i>Biomaterials</i> , 2010 , 31, 6394-9 Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. <i>Drug</i>		
42	cholesterol-modified polyurethane. <i>Biomaterials</i> , 2010 , 31, 6394-9 Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. <i>Drug Delivery</i> , 1996 , 3, 137-42 Synergistic inhibition of calcification of porcine aortic root with preincubation in FeCl3 and alpha-amino oleic acid in a rat subdermal model. <i>Journal of Biomedical Materials Research Part B</i> ,		9
4 ²	Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. <i>Drug Delivery</i> , 1996 , 3, 137-42 Synergistic inhibition of calcification of porcine aortic root with preincubation in FeCl3 and alpha-amino oleic acid in a rat subdermal model. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 38, 43-8 Modulated drug release using iontophoresis through heterogeneous cation-exchange membranes. 2. Influence of cation-exchanger content on membrane resistance and characteristic times. <i>Journal</i>	7	9
42 41 40	Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. <i>Drug Delivery</i> , 1996 , 3, 137-42 Synergistic inhibition of calcification of porcine aortic root with preincubation in FeCl3 and alpha-amino oleic acid in a rat subdermal model. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 38, 43-8 Modulated drug release using iontophoresis through heterogeneous cation-exchange membranes. 2. Influence of cation-exchanger content on membrane resistance and characteristic times. <i>Journal of Pharmaceutical Sciences</i> , 1994 , 83, 1482-94 Conversion of ouabain-induced ventricular tachycardia in dogs with epicardial lidocaine:	7 3·9 4·5	9 8 8
42 41 40 39	Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. <i>Drug Delivery</i> , 1996 , 3, 137-42 Synergistic inhibition of calcification of porcine aortic root with preincubation in FeCl3 and alpha-amino oleic acid in a rat subdermal model. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 38, 43-8 Modulated drug release using iontophoresis through heterogeneous cation-exchange membranes. 2. Influence of cation-exchanger content on membrane resistance and characteristic times. <i>Journal of Pharmaceutical Sciences</i> , 1994 , 83, 1482-94 Conversion of ouabain-induced ventricular tachycardia in dogs with epicardial lidocaine: pharmacodynamics and functional effects. <i>Pharmaceutical Research</i> , 1990 , 7, 28-33 Polymeric drug delivery systems for treatment of cardiovascular calcification, arrhythmias and	7 3.9 4.5	9 8 8 8
42 41 40 39 38	Controlled release implant dosage forms for cardiac arrhythmias: Review and perspectives. <i>Drug Delivery</i> , 1996 , 3, 137-42 Synergistic inhibition of calcification of porcine aortic root with preincubation in FeCl3 and alpha-amino oleic acid in a rat subdermal model. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 38, 43-8 Modulated drug release using iontophoresis through heterogeneous cation-exchange membranes. 2. Influence of cation-exchanger content on membrane resistance and characteristic times. <i>Journal of Pharmaceutical Sciences</i> , 1994 , 83, 1482-94 Conversion of ouabain-induced ventricular tachycardia in dogs with epicardial lidocaine: pharmacodynamics and functional effects. <i>Pharmaceutical Research</i> , 1990 , 7, 28-33 Polymeric drug delivery systems for treatment of cardiovascular calcification, arrhythmias and restenosis. <i>Journal of Controlled Release</i> , 1995 , 36, 137-147	7 3.9 4.5	9 8 8 8

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