

Thomas Groth

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.

188
papers

5,749
citations

39
h-index

67
g-index

202
ext. papers

6,410
ext. citations

5.8
avg. IF

5.86
L-index

#	Paper	IF	Citations
188	Enhanced wound healing in diabetic mice by hyaluronan/chitosan multilayer-coated PLLA nanofibrous mats with sustained release of insulin. <i>Applied Surface Science</i> , 2022 , 576, 151825	6.7	2
187	Recent Progress on Cellulose-Based Ionic Compounds for Biomaterials. <i>Advanced Materials</i> , 2021 , 33, e2000717	24	35
186	Arteriovenous access in hemodialysis: A multidisciplinary perspective for future solutions. <i>International Journal of Artificial Organs</i> , 2021 , 44, 3-16	1.9	3
185	A Study of the Velocity Field in the Sputnik Left Ventricular Assist Device. <i>Bio-Medical Engineering</i> , 2021 , 55, 278	0.5	1
184	Extracellular matrix-inspired surface coatings functionalized with dexamethasone-loaded liposomes to induce osteo- and chondrogenic differentiation of multipotent stem cells. <i>Materials Science and Engineering C</i> , 2021 , 131, 112516	8.3	3
183	Tissue response to biphasic calcium phosphate covalently modified with either heparin or hyaluronic acid in a mouse subcutaneous implantation model. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 1353-1365	5.4	1
182	ImplantatBerzöge für die in situ-Transfektion in der regenerativen Medizin. <i>BioSpektrum</i> , 2021 , 27, 445-447	0.1	0
181	Hydrogels Based on Oxidized Cellulose Sulfates and Carboxymethyl Chitosan: Studies on Intrinsic Gel Properties, Stability, and Biocompatibility. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100098	5.5	1
180	Effect of metal ions on the physical properties of multilayers from hyaluronan and chitosan, and the adhesion, growth and adipogenic differentiation of multipotent mouse fibroblasts. <i>Soft Matter</i> , 2021 , 17, 8394-8410	3.6	1
179	Chapter 13: Biomimetic Surface Modifications of Biomaterials Using a Layer-by-layer Technique. <i>RSC Soft Matter</i> , 2021 , 326-362	0.5	1
178	Crosstalk between Macrophages and Mesenchymal Stem Cells Regulated by Biomaterials and Its Role in Bone Regeneration. <i>Advances in Materials Science and Engineering</i> , 2021 , 2021, 1-21	1.5	0
177	Studies on the Mechanisms of Anti-Inflammatory Activity of Heparin- and Hyaluronan-Containing Multilayer Coatings-Targeting NF- κ B Signalling Pathway. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
176	Study on the potential mechanism of anti-inflammatory activity of covalently immobilized hyaluronan and heparin. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 1099-1111	5.4	11
175	Thermoresponsive polymers and their biomedical application in tissue engineering - a review. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 607-628	7.3	102
174	Effect of Sulfation Route and Subsequent Oxidation on Derivatization Degree and Biocompatibility of Cellulose Sulfates. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900403	5.5	6
173	Contact-Triggered Lipofection from Multilayer Films Designed as Surfaces for in Situ Transfection Strategies in Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8963-8977	9.5	8
172	Effect of microenvironment on adhesion and differentiation of murine C3H10T1/2 cells cultured on multilayers containing collagen I and glycosaminoglycans. <i>Journal of Tissue Engineering</i> , 2020 , 11, 2041731-420940560	7.5	9

171	Engineering osteogenic microenvironments by combination of multilayers from collagen type I and chondroitin sulfate with novel cationic liposomes. <i>Materials Today Bio</i> , 2020 , 7, 100071	9.9	5
170	Synthesis and Characterization of Oxidized Polysaccharides for In Situ Forming Hydrogels. <i>Biomolecules</i> , 2020 , 10,	5.9	12
169	Spectral analysis combined with nonlinear optical measurement of laser printed biopolymer composites comprising chitosan/SWCNT. <i>Analytical Biochemistry</i> , 2020 , 598, 113710	3.1	9
168	Anti-inflammatory Surface Coatings Based on Polyelectrolyte Multilayers of Heparin and Polycationic Nanoparticles of Naproxen-Bearing Polymeric Drugs. <i>Biomacromolecules</i> , 2019 , 20, 4015-4025	6.9	18
167	Polyelectrolyte multilayers of poly (L-lysine) and hyaluronic acid on nanostructured surfaces affect stem cell response. <i>Nanoscale</i> , 2019 , 11, 2878-2891	7.7	17
166	A comprehensive map of human elastin cross-linking during elastogenesis. <i>FEBS Journal</i> , 2019 , 286, 3594-3610	5.3	17
165	Fabrication and properties of an injectable sodium alginate/PRP composite hydrogel as a potential cell carrier for cartilage repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 2076-2087	5.4	22
164	Protective Effect of N-Arachidonoyl Glycine-GPR18 Signaling after Excitotoxic Lesion in Murine Organotypic Hippocampal Slice Cultures. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	11
163	Switchable and Obedient Interfacial Properties That Grant New Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25637-25653	9.5	7
162	Development of hydrogels based on oxidized cellulose sulfates and carboxymethyl chitosan. <i>Cellulose</i> , 2019 , 26, 7371-7382	5.5	12
161	Effect of Different Crosslinking Strategies on Physical Properties and Biocompatibility of Freestanding Multilayer Films Made of Alginate and Chitosan. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900181	5.5	14
160	Recent Developments in Layer-by-Layer Technique for Drug Delivery Applications.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5512-5527	4.1	33
159	A triple chain polycationic peptide-mimicking amphiphile - efficient DNA-transfer without co-lipids. <i>Biomaterials Science</i> , 2019 , 8, 232-249	7.4	2
158	Recent Advances in Artificially Sulfated Polysaccharides for Applications in Cell Growth and Differentiation, Drug Delivery, and Tissue Engineering. <i>ChemBioChem</i> , 2019 , 20, 737-746	3.8	19
157	Endothelial and beta cell composite aggregates for improved function of a bioartificial pancreas encapsulation device. <i>International Journal of Artificial Organs</i> , 2018 , 41, 152-159	1.9	19
156	Stimuli-Responsive Multilayers Based on Thiolated Polysaccharides That Affect Fibroblast Cell Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8507-8518	9.5	15
155	Cross-linking multilayers of poly-L-lysine and hyaluronic acid: Effect on mesenchymal stem cell behavior. <i>International Journal of Artificial Organs</i> , 2018 , 41, 223-235	1.9	14
154	Introduction of Laser Interference Lithography to Make Nanopatterned Surfaces for Fundamental Studies on Stem Cell Response. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1820-1832	5.5	9

153	Medical application of glycosaminoglycans: a review. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e23-e41	4.4	112
152	Biomineralization improves mechanical and osteogenic properties of multilayer-modified PLGA porous scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2714-2725	5.4	15
151	Host Responses to Biomaterials and Anti-Inflammatory Design-a Brief Review. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800112	5.5	44
150	Novel Surface Coatings Using Oxidized Glycosaminoglycans as Delivery Systems of Bone Morphogenetic Protein 2 (BMP-2) for Bone Regeneration. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800283	5.5	29
149	Cyclic Redox-Mediated Switching of Surface Properties of Thiolated Polysaccharide Multilayers and Its Effect on Fibroblast Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31168-31177	9.5	9
148	Comparative Study of Osteogenic Activity of Multilayers Made of Synthetic and Biogenic Polyelectrolytes. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700078	5.5	6
147	Fast therapeutic DNA internalization - A high potential transfection system based on a peptide mimicking cationic lipid. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 118, 38-47	5.7	7
146	Materials, surfaces, and systems for extracorporeal therapies and beyond. <i>International Journal of Artificial Organs</i> , 2017 , 40, 1-3	1.9	
145	Tailoring Bulk and Surface Composition of Polylactides for Application in Engineering of Skeletal Tissues. <i>Advances in Polymer Science</i> , 2017 , 79-108	1.3	4
144	Synthesis of thiolated polysaccharides for formation of polyelectrolyte multilayers with improved cellular adhesion. <i>Carbohydrate Polymers</i> , 2017 , 157, 1205-1214	10.3	20
143	Mechanical properties and biocompatibility of in situ enzymatically cross-linked gelatin hydrogels. <i>International Journal of Artificial Organs</i> , 2017 , 40, 159-168	1.9	18
142	Effect of thiolated glycosaminoglycans on the behavior of breast cancer cells: toward the development of in vitro models of cancer. <i>International Journal of Artificial Organs</i> , 2017 , 40, 31-39	1.9	5
141	ESAO Presidential Message. <i>International Journal of Artificial Organs</i> , 2017 , 40, 368-368	1.9	
140	Functionality of surface-coupled oxidised glycosaminoglycans towards fibroblast adhesion. <i>Journal of Bioactive and Compatible Polymers</i> , 2016 , 31, 191-207	2	12
139	In vitro study of the host responses to model biomaterials via a fibroblast/macrophage co-culture system. <i>Biomaterials Science</i> , 2016 , 5, 141-152	7.4	9
138	Poly (L-lactic acid) porous scaffold-supported alginate hydrogel with improved mechanical properties and biocompatibility. <i>International Journal of Artificial Organs</i> , 2016 , 39, 435-443	1.9	13
137	Effect of Immobilized Thiolated Glycosaminoglycans on Fibronectin Adsorption and Behavior of Fibroblasts. <i>Macromolecular Bioscience</i> , 2016 , 16, 381-94	5.5	12
136	Covalent immobilization of glycosaminoglycans to reduce the inflammatory effects of biomaterials. <i>International Journal of Artificial Organs</i> , 2016 , 39, 37-44	1.9	25

135	Reducing the inflammatory responses of biomaterials by surface modification with glycosaminoglycan multilayers. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 493-502	5.4	32
134	Molecular composition of GAG-collagen I multilayers affects remodeling of terminal layers and osteogenic differentiation of adipose-derived stem cells. <i>Acta Biomaterialia</i> , 2016 , 41, 86-99	10.8	37
133	Effect of Polyelectrolyte Multilayers Assembled on Ordered Nanostructures on Adhesion of Human Fibroblasts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25142-51	9.5	10
132	Adhesion of adipose-derived mesenchymal stem cells to glycosaminoglycan surfaces with different protein patterns. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10034-43	9.5	12
131	pH Responsiveness of Multilayered Films and Membranes Made of Polysaccharides. <i>Langmuir</i> , 2015 , 31, 11318-28	4	46
130	Composites of malonic acid diamides and phospholipids--Impact of lipoplex stability on transfection efficiency. <i>Journal of Controlled Release</i> , 2015 , 220, 295-307	11.7	17
129	A macrophage/fibroblast co-culture system using a cell migration chamber to study inflammatory effects of biomaterials. <i>Acta Biomaterialia</i> , 2015 , 26, 54-63	10.8	29
128	Tris(2-aminoethyl)amine-based β -branched fatty acid amides - Synthesis of lipids and comparative study of transfection efficiency of their lipid formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 96, 349-62	5.7	5
127	Engineered Microtissues Formed by Schiff Base Crosslinking Restore the Chondrogenic Potential of Aged Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1348-58	10.1	19
126	In memoriam Dieter Falkenhagen (1942-2015): Pioneer, enthusiast, visionary. <i>International Journal of Artificial Organs</i> , 2015 , 38, 615-6	1.9	5
125	Controlling Cell Adhesion Using pH-Modified Polyelectrolyte Multilayer Films 2015 , 1-30		2
124	Study on multilayer structures prepared from heparin and semi-synthetic cellulose sulfates as polyanions and their influence on cellular response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 116, 93-103	6	21
123	Multilayer films by blending heparin with semisynthetic cellulose sulfates: Physico-chemical characterization and cell responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4224-33	5.4	9
122	Novel mineralized heparin-gelatin nanoparticles for potential application in tissue engineering of bone. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 669-80	4.5	17
121	Improved stability and cell response by intrinsic cross-linking of multilayers from collagen I and oxidized glycosaminoglycans. <i>Biomacromolecules</i> , 2014 , 15, 4272-80	6.9	36
120	Synthesis of thiolated glycosaminoglycans and grafting to solid surfaces. <i>Carbohydrate Polymers</i> , 2014 , 114, 344-351	10.3	21
119	Both hyaluronan and collagen type II keep proteoglycan 4 (lubricin) at the cartilage surface in a condition that provides low friction during boundary lubrication. <i>Langmuir</i> , 2014 , 30, 14566-72	4	53
118	Novel Cellulose Derivatives with Mitogenic and Osteogenic Activity. <i>ACS Symposium Series</i> , 2013 , 259-270	4	4

117	Generic Methods of Surface Modification to Control Adhesion of Cells and Beyond 2013 , 441-467		3
116	Surface microstructuring and protein patterning using hyaluronan derivatives. <i>Microelectronic Engineering</i> , 2013 , 106, 21-26	2.5	3
115	Tuning cell adhesion and growth on biomimetic polyelectrolyte multilayers by variation of pH during layer-by-layer assembly. <i>Macromolecular Bioscience</i> , 2013 , 13, 1327-38	5.5	41
114	Effect of molecular composition of heparin and cellulose sulfate on multilayer formation and cell response. <i>Langmuir</i> , 2013 , 29, 13853-64	4	43
113	Comparative studies on osteogenic potential of micro- and nanofibre scaffolds prepared by electrospinning of poly(ϵ -caprolactone). <i>Progress in Biomaterials</i> , 2013 , 2, 13	4.4	21
112	Enantiopure chiral poly(glycerol methacrylate) self-assembled monolayers knock down protein adsorption and cell adhesion. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1377-87	10.1	15
111	Bioinspired multiple-interaction model revealed in adsorption of low-density lipoprotein to surface containing saccharide and alkanesulfonate. <i>Langmuir</i> , 2013 , 29, 8363-9	4	11
110	Nanoscaled surface patterns influence adhesion and growth of human dermal fibroblasts. <i>Langmuir</i> , 2013 , 29, 13278-90	4	21
109	Synthesis and Characterization of Biologically Active Chitosan Sulfates. <i>ACS Symposium Series</i> , 2012 , 297-314	0.4	5
108	Mitogenic activity of sulfated chitosan and cellulose derivatives is related to protection of FGF-2 from proteolytic cleavage. <i>Macromolecular Bioscience</i> , 2012 , 12, 740-50	5.5	23
107	Modulation of osteogenic activity of BMP-2 by cellulose and chitosan derivatives. <i>Acta Biomaterialia</i> , 2012 , 8, 183-93	10.8	69
106	In vitro toxicity of Stearoyl-poly(glycerol adipate) nanoparticles. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 163-9	1.8	15
105	Controlling fibroblast adhesion with pH modified polyelectrolyte multilayers. <i>International Journal of Artificial Organs</i> , 2011 , 34, 185-91	1.9	7
104	Nanostructured material surfaces--preparation, effect on cellular behavior, and potential biomedical applications: a review. <i>International Journal of Artificial Organs</i> , 2011 , 34, 963-85	1.9	24
103	FT Raman investigation of novel chitosan sulfates exhibiting osteogenic capacity. <i>Carbohydrate Polymers</i> , 2011 , 83, 60-65	10.3	30
102	Synthesis and characterisation of cellulose sulfates regarding the degrees of substitution, degrees of polymerisation and morphology. <i>Carbohydrate Polymers</i> , 2011 , 83, 1659-1664	10.3	31
101	Blood compatibility and permeability of heparin-modified polysulfone as potential membrane for simultaneous hemodialysis and LDL removal. <i>Macromolecular Bioscience</i> , 2011 , 11, 131-40	5.5	80
100	Covalent heparin modification of a polysulfone flat sheet membrane for selective removal of low-density lipoproteins: a simple and versatile method. <i>Macromolecular Bioscience</i> , 2011 , 11, 1218-26	5.5	27

99	Bioactivity of immobilized hyaluronic acid derivatives regarding protein adsorption and cell adhesion. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 376-89	2.8	35
98	Polyelectrolyte multilayers generated in a microfluidic device with pH gradients direct adhesion and movement of cells. <i>Lab on A Chip</i> , 2011 , 11, 3326-35	7.2	34
97	Cell adhesion on nanostructured surfaces designed by nanosphere lithography 2011 ,		3
96	Biogenic Polyelectrolyte Multilayers on Poly(L-lactide) Films for Control of Osteoblast Adhesion. <i>Macromolecular Symposia</i> , 2010 , 294, 133-143	0.8	1
95	Biocompatibility of poly(L-lactide) films modified with poly(ethylene imine) and polyelectrolyte multilayers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 893-912	3.5	8
94	Nanofibers from blends of polyvinyl alcohol and polyhydroxy butyrate as potential scaffold material for tissue engineering of skin. <i>Biomacromolecules</i> , 2010 , 11, 3413-21	6.9	137
93	Synthesis of carboxyl cellulose sulfate with various contents of regioselectively introduced sulfate and carboxyl groups. <i>Carbohydrate Polymers</i> , 2010 , 82, 92-99	10.3	21
92	Engineering the extracellular environment: Strategies for building 2D and 3D cellular structures. <i>Advanced Materials</i> , 2010 , 22, 5443-62	24	133
91	Synergistic effect of polyelectrolyte multilayers and osteogenic growth medium on differentiation of human mesenchymal stem cells. <i>Macromolecular Bioscience</i> , 2010 , 10, 1043-54	5.5	30
90	NMR and FT Raman characterisation of regioselectively sulfated chitosan regarding the distribution of sulfate groups and the degree of substitution. <i>Polymer</i> , 2010 , 51, 4698-4705	3.9	43
89	Immobilization of heparin on polysulfone surface for selective adsorption of low-density lipoprotein (LDL). <i>Acta Biomaterialia</i> , 2010 , 6, 1099-106	10.8	39
88	Synthesis of novel celluloses derivatives and investigation of their mitogenic activity in the presence and absence of FGF2. <i>Acta Biomaterialia</i> , 2010 , 6, 2116-25	10.8	38
87	Chemical and Physical Modifications of Biomaterial Surfaces to Control Adhesion of Cells. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 253-284	0.1	10
86	Development of Provisional Extracellular Matrix on Biomaterials Interface: Lessons from In Vitro Cell Culture. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 19-43	0.1	3
85	Multilayer coatings on biomaterials for control of MG-63 osteoblast adhesion and growth. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 897-907	4.5	28
84	Immobilization of poly (ethylene imine) on poly (L-lactide) promotes MG63 cell proliferation and function. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2317-26	4.5	12
83	pH-dependent modulation of fibroblast adhesion on multilayers composed of poly(ethylene imine) and heparin. <i>Biomaterials</i> , 2009 , 30, 4939-47	15.6	46
82	Characterization of scaffolds for tissue engineering by benchtop-magnetic resonance imaging. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 513-21	2.9	26

81	Synthesis and Bioactivity of Cellulose Derivatives. <i>Macromolecular Symposia</i> , 2009 , 280, 28-35	0.8	16
80	Novel polymer blends for the preparation of membranes for biohybrid liver systems. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 821-39	3.5	4
79	Characterization of PLGA nanospheres stabilized with amphiphilic polymers: hydrophobically modified hydroxyethyl starch vs pluronics. <i>Molecular Pharmaceutics</i> , 2009 , 6, 407-15	5.6	67
78	Surface modification of biomaterials to control adhesion of cells. <i>Clinical Hemorheology and Microcirculation</i> , 2008 , 39, 247-251	2.5	16
77	Hemocompatibility of poly(ether imide) membranes functionalized with carboxylic groups. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3203-10	4.5	21
76	Microwave plasma surface modification of silicone elastomer with allylamine for improvement of biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 209-19	5.4	34
75	Poly(ether imide) membranes: studies on the effect of surface modification and protein pre-adsorption on endothelial cell adhesion, growth and function. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 837-52	3.5	16
74	Surface modification of biomaterials to control adhesion of cells. <i>Clinical Hemorheology and Microcirculation</i> , 2008 , 39, 247-51	2.5	3
73	Modulation of hybridoma cell growth and antibody production by coating cell culture material with extracellular matrix proteins. <i>Biochemical Engineering Journal</i> , 2007 , 35, 301-308	4.2	3
72	In vitro blood reactivity to hydroxylated and non-hydroxylated polymer surfaces. <i>Biomaterials</i> , 2007 , 28, 3617-25	15.6	43
71	Modification of poly(ether imide) membranes with brominated polyvinylpyrrolidone. <i>Journal of Membrane Science</i> , 2007 , 291, 10-18	9.6	16
70	Wettability of substrata controls cell-substrate and cell-cell adhesions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 1538-47	4	95
69	Membranes from acrylonitrile-based polymers for selective cultivation of human keratinocytes. <i>Tissue Engineering</i> , 2007 , 13, 2995-3002		17
68	Poly(ether imide) membranes modified with poly(ethylene imine) as potential carriers for epidermal substitutes. <i>Macromolecular Bioscience</i> , 2006 , 6, 274-84	5.5	42
67	The dependence of fibrillar adhesions in human fibroblasts on substratum chemistry. <i>Biomaterials</i> , 2006 , 27, 234-45	15.6	63
66	Development of highly porous microparticles from poly(ether imide) prepared by a spraying/coagulation process. <i>Journal of Membrane Science</i> , 2006 , 273, 106-115	9.6	17
65	The influence of the chemical composition of cell culture material on the growth and antibody production of hybridoma cells. <i>Journal of Biotechnology</i> , 2005 , 115, 291-301	3.7	16
64	Membranes for biohybrid liver support: the behaviour of C3A hepatoblastoma cells is dependent on the composition of acrylonitrile copolymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 1-22	3.5	8

63	On the tissue compatibility of poly(ether imide) membranes: an in vitro study on their interaction with human dermal fibroblasts and keratinocytes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 23-42	3.5	17
62	Dynamics of beta1-integrins in living fibroblasts--effect of substratum wettability. <i>Biophysical Journal</i> , 2005 , 89, 3555-62	2.9	8
61	The viability and function of primary rat hepatocytes cultured on polymeric membranes developed for hybrid artificial liver devices. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 73, 367-75	5.4	14
60	Development of polymer membranes with improved haemocompatibility for biohybrid organ technology. <i>Clinical Hemorheology and Microcirculation</i> , 2005 , 32, 129-43	2.5	8
59	Influence of polymer membrane porosity on C3A hepatoblastoma cell adhesive interaction and function. <i>Biomaterials</i> , 2004 , 25, 2467-76	15.6	25
58	Layer-by-layer deposition of polyelectrolytes--a versatile tool for the in vivo repair of blood vessels. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 926-8	16.4	46
57	In-vivo-Reparatur von Blutgefäßen durch alternierende Adsorption von Polyelektrolyten. <i>Angewandte Chemie</i> , 2004 , 116, 944-946	3.6	2
56	Self-assembled monolayers with different terminating groups as model substrates for cell adhesion studies. <i>Biomaterials</i> , 2004 , 25, 2721-30	15.6	605
55	Testing the cytotoxicity of metal alloys used as magnetic prosthetic devices. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 335-45	4.5	29
54	Morphological studies on the culture of kidney epithelial cells in a fiber-in-fiber bioreactor design with hollow fiber membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 144-57		16
53	Amination of Poly(ether imide) Membranes Using Di- and Multivalent Amines. <i>Macromolecular Chemistry and Physics</i> , 2003 , 204, 510-521	2.6	93
52	The role of surface zeta potential and substratum chemistry for regulation of dermal fibroblasts interaction. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 1120-1128	0.9	87
51	Surface properties of and cell adhesion onto allylamine-plasma-coated polyethylenterephthalat membranes. <i>Biomaterials</i> , 2003 , 24, 3989-99	15.6	218
50	Enhanced tissue-compatibility of polyethylenterephthalat membranes by plasma aminofunctionalisation. <i>Surface and Coatings Technology</i> , 2003 , 174-175, 574-578	4.4	25
49	Interaction of human skin fibroblasts with moderate wettable polyacrylonitrile--copolymer membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 290-300		50
48	Polyetherimide: a new membrane-forming polymer for biomedical applications. <i>Artificial Organs</i> , 2002 , 26, 189-99	2.6	74
47	Membranes for biohybrid liver support systems--investigations on hepatocyte attachment, morphology and growth. <i>Biomaterials</i> , 2002 , 23, 2467-78	15.6	63
46	Remodeling of fibrinogen by endothelial cells in dependence on fibronectin matrix assembly. Effect of substratum wettability. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 1235-44	4.5	39

45	Formation of porous bilayer hollow fibre membranes. <i>Macromolecular Symposia</i> , 2002 , 188, 131-142	0.8	6
44	Fibrinogen adsorption and platelet interactions on polymer membranes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002 , 13, 1033-50	3.5	41
43	Anticoagulant potential of regioselective derivatized cellulose. <i>Biomaterials</i> , 2001 , 22, 2719-29	15.6	76
42	The role of surface wettability on hepatocyte adhesive interactions and function. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001 , 12, 613-27	3.5	32
41	A new module arrangement for plasmapheresis. <i>Transfusion and Apheresis Science</i> , 2001 , 25, 5-15	2.4	
40	Modulating the biocompatibility of polymer surfaces with poly(ethylene glycol): effect of fibronectin. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 52, 219-30		80
39	Development of membranes for the cultivation of kidney epithelial cells. <i>Biomaterials</i> , 2000 , 21, 183-92	15.6	16
38	Optimizing CellSurface Interactions by Photografting of Poly(ethylene glycol). <i>Langmuir</i> , 2000 , 16, 2756-2765		75
37	Functionalized nanoparticles for endotoxin binding in aqueous solutions. <i>Biomaterials</i> , 1999 , 20, 1277-83	15.6	54
36	Investigation of plasma protein adsorption on functionalized nanoparticles for application in apheresis. <i>Artificial Organs</i> , 1999 , 23, 87-97	2.6	4
35	Altered vitronectin receptor (alpha _v integrin) function in fibroblasts adhering on hydrophobic glass. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 44, 341-51		40
34	Altered vitronectin receptor (α integrin) function in fibroblasts adhering on hydrophobic glass 1999 , 44, 341		1
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