

Pat Stayton

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.

261
papers

19,651
citations

78
h-index

131
g-index

280
ext. papers

20,716
ext. citations

8.1
avg. IF

6.53
L-index

#	Paper	IF	Citations
261	A nanofiber based antiviral (TAF) prodrug delivery system.. <i>Materials Science and Engineering C</i> , 2022 , 112626	8.3	
260	Well-Defined Mannosylated Polymer for Peptide Vaccine Delivery with Enhanced Antitumor Immunity. <i>Advanced Healthcare Materials</i> , 2021 , e2101651	10.1	3
259	Liver-targeted polymeric prodrugs of 8-aminoquinolines for malaria radical cure. <i>Journal of Controlled Release</i> , 2021 , 331, 213-227	11.7	3
258	In vivo tracking of bioorthogonally labeled T-cells for predicting therapeutic efficacy of adoptive T-cell therapy. <i>Journal of Controlled Release</i> , 2021 , 329, 223-236	11.7	6
257	Fully synthetic injectable depots with high drug content and tunable pharmacokinetics for long-acting drug delivery. <i>Journal of Controlled Release</i> , 2021 , 329, 257-269	11.7	6
256	A macrophage-targeted platform for extending drug dosing with polymer prodrugs for pulmonary infection prophylaxis. <i>Journal of Controlled Release</i> , 2021 , 330, 284-292	11.7	2
255	Lytic Polyplex Vaccines Enhance Antigen-Specific Cytotoxic T Cell Response through Induction of Local Cell Death. <i>Advanced Therapeutics</i> , 2021 , 4, 2100005	4.9	1
254	Arming Immune Cell Therapeutics with Polymeric Prodrugs. <i>Advanced Healthcare Materials</i> , 2021 , e2101944	11.7	1
253	Mannose Conjugated Polymer Targeting Biofilms. <i>ACS Infectious Diseases</i> , 2020 , 6, 2866-2871	5.5	5
252	Applications of Smart Polymers in Biomaterials 2020 , 191-203		3
251	Think Small for Big Impact. <i>Advanced Functional Materials</i> , 2020 , 30, 1909678	15.6	
250	Glycan targeted polymeric antibiotic prodrugs for alveolar macrophage infections. <i>Biomaterials</i> , 2019 , 195, 38-50	15.6	26
249	Radiant star nanoparticle prodrugs for the treatment of intracellular alveolar infections. <i>Polymer Chemistry</i> , 2018 , 9, 2134-2146	4.9	8
248	Temperature-Responsive Magnetic Nanoparticles for Enabling Affinity Separation of Extracellular Vesicles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33847-33856	9.5	21
247	Macrophage-targeted drugamers with enzyme-cleavable linkers deliver high intracellular drug dosing and sustained drug pharmacokinetics against alveolar pulmonary infections. <i>Journal of Controlled Release</i> , 2018 , 287, 1-11	11.7	32
246	Fully synthetic macromolecular prodrug chemotherapeutics with EGFR targeting and controlled camptothecin release kinetics. <i>Polymer Chemistry</i> , 2018 , 9, 5224-5233	4.9	8
245	Polymer-augmented liposomes enhancing antibiotic delivery against intracellular infections. <i>Biomaterials Science</i> , 2018 , 6, 1976-1985	7.4	34

244	Enzyme-Cleavable Polymeric Micelles for the Intracellular Delivery of Proapoptotic Peptides. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1450-1459	5.6	33
243	Synthetic Macromolecular Antibiotic Platform for Inhalable Therapy against Aerosolized Intracellular Alveolar Infections. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1988-1997	5.6	16
242	Core-Cross-Linked Nanoparticles Reduce Neuroinflammation and Improve Outcome in a Mouse Model of Traumatic Brain Injury. <i>ACS Nano</i> , 2017 , 11, 8600-8611	16.7	65
241	Orientation and conformation of osteocalcin adsorbed onto calcium phosphate and silica surfaces. <i>Biointerphases</i> , 2017 , 12, 02D411	1.8	7
240	pH and Salt Effects on Surface Activity and Self-Assembly of Copolymers Containing a Weak Polybase. <i>Langmuir</i> , 2016 , 32, 9286-92	4	5
239	Synthesis of zwitterionic, hydrophobic, and amphiphilic polymers via RAFT polymerization induced self-assembly (PISA) in acetic acid. <i>Polymer Chemistry</i> , 2016 , 7, 6133-6143	4.9	16
238	Reloadable multidrug capturing delivery system for targeted ischemic disease treatment. <i>Science Translational Medicine</i> , 2016 , 8, 365ra160	17.5	11
237	Chemotherapeutic copolymers prepared via the RAFT polymerization of prodrug monomers. <i>Polymer Chemistry</i> , 2016 , 7, 4494-4505	4.9	17
236	RAFT polymerization of ciprofloxacin prodrug monomers for the controlled intracellular delivery of antibiotics. <i>Polymer Chemistry</i> , 2016 , 7, 826-837	4.9	36
235	Antibody targeting facilitates effective intratumoral siRNA nanoparticle delivery to HER2-overexpressing cancer cells. <i>Oncotarget</i> , 2016 , 7, 9561-75	3.3	38
234	Computationally designed high specificity inhibitors delineate the roles of BCL2 family proteins in cancer. <i>ELife</i> , 2016 , 5,	8.9	52
233	Theranostic Oxygen Reactive Polymers for Treatment of Traumatic Brain Injury. <i>Advanced Functional Materials</i> , 2016 , 26, 4124-4133	15.6	29
232	Nanostructured glycopolymer augmented liposomes to elucidate carbohydrate-mediated targeting. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 2031-2041	6	21
231	A Streptavidin Binding Site Mutation Yields an Unexpected Result: An Ionized Asp128 Residue Is Not Essential for Strong Biotin Binding. <i>Biochemistry</i> , 2016 , 55, 5201-3	3.2	5
230	A Stimuli-Responsive, Binary Reagent System for Rapid Isolation of Protein Biomarkers. <i>Analytical Chemistry</i> , 2016 , 88, 10404-10410	7.8	10
229	Nanoparticle distribution during systemic inflammation is size-dependent and organ-specific. <i>Nanoscale</i> , 2015 , 7, 15863-72	7.7	56
228	Polymer nanostructures synthesized by controlled living polymerization for tumor-targeted drug delivery. <i>Journal of Controlled Release</i> , 2015 , 219, 345-354	11.7	40
227	Well-defined single polymer nanoparticles for the antibody-targeted delivery of chemotherapeutic agents. <i>Polymer Chemistry</i> , 2015 , 6, 1286-1299	4.9	17

226	Stimuli-responsive reagent system for enabling microfluidic immunoassays with biomarker purification and enrichment. <i>Bioconjugate Chemistry</i> , 2015 , 26, 29-38	6.3	20
225	Dynamic intracellular delivery of antibiotics via pH-responsive polymersomes. <i>Polymer Chemistry</i> , 2015 , 6, 1255-1266	4.9	29
224	Three-dimensional localization of polymer nanoparticles in cells using ToF-SIMS. <i>Biointerphases</i> , 2015 , 11, 02A304	1.8	16
223	Enhancement of MHC-I antigen presentation via architectural control of pH-responsive, endosomolytic polymer nanoparticles. <i>AAPS Journal</i> , 2015 , 17, 358-69	3.7	44
222	Intracellular delivery system for antibody-Peptide drug conjugates. <i>Molecular Therapy</i> , 2015 , 23, 907-917	11.7	28
221	Improving lateral-flow immunoassay (LFIA) diagnostics via biomarker enrichment for mHealth. <i>Methods in Molecular Biology</i> , 2015 , 1256, 71-84	1.4	4
220	Synthesis and characterization of transferrin-targeted chemotherapeutic delivery systems prepared via RAFT copolymerization of high molecular weight PEG macromonomers. <i>Polymer Chemistry</i> , 2014 , 5, 1791-1799	4.9	25
219	A computationally designed inhibitor of an Epstein-Barr viral Bcl-2 protein induces apoptosis in infected cells. <i>Cell</i> , 2014 , 157, 1644-1656	56.2	96
218	Organic nanoparticles for drug delivery and imaging. <i>MRS Bulletin</i> , 2014 , 39, 219-223	3.2	58
217	Design of smart nanogels that respond to physiologically relevant pH values and temperatures. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2557-62	1.3	7
216	Neutral polymer micelle carriers with pH-responsive, endosome-releasing activity modulate antigen trafficking to enhance CD8(+) T cell responses. <i>Journal of Controlled Release</i> , 2014 , 191, 24-33	11.7	101
215	A photoinduced nanoparticle separation in microchannels via pH-sensitive surface traps. <i>Langmuir</i> , 2013 , 29, 5388-93	4	21
214	Targeting 2013 , 1028-1036		1
213	Melittin-grafted HPMA-oligolysine based copolymers for gene delivery. <i>Biomaterials</i> , 2013 , 34, 2318-26	15.6	55
212	Stimuli-Responsive Polymer-Antibody Conjugates via RAFT and Tetrafluorophenyl Active Ester Chemistry. <i>ACS Macro Letters</i> , 2013 , 2, 132-136	6.6	28
211	Polymer-Trimannoside conjugates via a combination of RAFT and thiol-ene chemistry. <i>Polymer Chemistry</i> , 2013 , 4, 1153-1160	4.9	21
210	Neutral polymeric micelles for RNA delivery. <i>Bioconjugate Chemistry</i> , 2013 , 24, 398-407	6.3	41
209	pH-Responsive nanoparticle vaccines for dual-delivery of antigens and immunostimulatory oligonucleotides. <i>ACS Nano</i> , 2013 , 7, 3912-25	16.7	233

208	Functionalized nanoparticles provide early cardioprotection after acute myocardial infarction. <i>Journal of Controlled Release</i> , 2013 , 170, 287-94	11.7	92
207	Structural consequences of cutting a binding loop: two circularly permuted variants of streptavidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 968-77		5
206	TOF-SIMS 3D imaging of native and non-native species within HeLa cells. <i>Analytical Chemistry</i> , 2013 , 85, 10869-77	7.8	66
205	Diblock copolymers with tunable pH transitions for gene delivery. <i>Biomaterials</i> , 2012 , 33, 2301-9	15.6	89
204	Multifunctional triblock copolymers for intracellular messenger RNA delivery. <i>Biomaterials</i> , 2012 , 33, 6868-76	15.6	96
203	In vivo targeting of alveolar macrophages via RAFT-based glycopolymers. <i>Biomaterials</i> , 2012 , 33, 6889-97	15.6	59
202	pH-Responsive Hyperbranched Copolymers from One-Pot RAFT Copolymerization. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 1175-1183	3.9	8
201	Second-contact shell mutation diminishes streptavidin-biotin binding affinity through transmitted effects on equilibrium dynamics. <i>Biochemistry</i> , 2012 , 51, 597-607	3.2	7
200	Probing the orientation of electrostatically immobilized Protein G B1 by time-of-flight secondary ion spectrometry, sum frequency generation, and near-edge X-ray adsorption fine structure spectroscopy. <i>Langmuir</i> , 2012 , 28, 2107-12	4	48
199	Application of living free radical polymerization for nucleic acid delivery. <i>Accounts of Chemical Research</i> , 2012 , 45, 1089-99	24.3	102
198	Intracellular delivery and trafficking dynamics of a lymphoma-targeting antibody-polymer conjugate. <i>Molecular Pharmaceutics</i> , 2012 , 9, 3506-14	5.6	37
197	Multiplexed enrichment and detection of malarial biomarkers using a stimuli-responsive iron oxide and gold nanoparticle reagent system. <i>ACS Nano</i> , 2012 , 6, 6776-85	16.7	102
196	pH-Responsive Hyperbranched Copolymers from One-Pot RAFT Copolymerization of Propylacrylic Acid and Poly(ethylene glycol diacrylate). <i>Advances in Science and Technology</i> , 2012 , 77, 333-342	0.1	1
195	Smart Surfaces for Point-of-Care Diagnostics 2012 , 31-70		
194	pH-responsive polymer-antigen vaccine bioconjugates. <i>Polymer Chemistry</i> , 2011 , 2, 1499	4.9	32
193	Synthesis of folate-functionalized RAFT polymers for targeted siRNA delivery. <i>Biomacromolecules</i> , 2011 , 12, 2708-14	6.9	56
192	RAFT-synthesized graft copolymers that enhance pH-dependent membrane destabilization and protein circulation times. <i>Journal of Controlled Release</i> , 2011 , 155, 167-74	11.7	29
191	Streptavidin and its biotin complex at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011 , 67, 813-21		62

190	ToF-SIMS imaging and depth profiling of HeLa cells treated with bromodeoxyuridine. <i>Surface and Interface Analysis</i> , 2011 , 43, 354-357	1.5	47
189	Differential monocyte/macrophage interleukin-1 β production due to biomaterial topography requires the α integrin signaling pathway. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 162-9	5.4	23
188	Probing orientation of immobilized humanized anti-lysozyme variable fragment by time-of-flight secondary-ion mass spectrometry. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 1-7	5.4	21
187	Delivery of basic fibroblast growth factor with a pH-responsive, injectable hydrogel to improve angiogenesis in infarcted myocardium. <i>Biomaterials</i> , 2011 , 32, 2407-16	15.6	192
186	Efficient Intracellular Delivery of a Pro-Apoptotic Peptide With A pH-Responsive Carrier. <i>Reactive and Functional Polymers</i> , 2011 , 71, 261-265	4.6	18
185	Anti-CD22 antibody targeting of pH-responsive micelles enhances small interfering RNA delivery and gene silencing in lymphoma cells. <i>Molecular Therapy</i> , 2011 , 19, 1529-37	11.7	54
184	Pretargeted radioimmunotherapy using genetically engineered antibody-streptavidin fusion proteins for treatment of non-hodgkin lymphoma. <i>Clinical Cancer Research</i> , 2011 , 17, 7373-82	12.9	24
183	"Smart" diblock copolymers as templates for magnetic-core gold-shell nanoparticle synthesis. <i>Nano Letters</i> , 2010 , 10, 85-91	11.5	61
182	Probing the orientation of surface-immobilized protein G B1 using ToF-SIMS, sum frequency generation, and NEXAFS spectroscopy. <i>Langmuir</i> , 2010 , 26, 16434-41	4	80
181	Synthesis of statistical copolymers containing multiple functional peptides for nucleic Acid delivery. <i>Biomacromolecules</i> , 2010 , 11, 3007-13	6.9	37
180	Mixed stimuli-responsive magnetic and gold nanoparticle system for rapid purification, enrichment, and detection of biomarkers. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2197-204	6.3	64
179	Intracellular delivery of a proapoptotic peptide via conjugation to a RAFT synthesized endosomolytic polymer. <i>Molecular Pharmaceutics</i> , 2010 , 7, 468-76	5.6	83
178	Simple fluidic system for purifying and concentrating diagnostic biomarkers using stimuli-responsive antibody conjugates and membranes. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1820-6	6.3	45
177	pH-responsive polymeric siRNA carriers sensitize multidrug resistant ovarian cancer cells to doxorubicin via knockdown of polo-like kinase 1. <i>Molecular Pharmaceutics</i> , 2010 , 7, 442-55	5.6	80
176	A distal point mutation in the streptavidin-biotin complex preserves structure but diminishes binding affinity: experimental evidence of electronic polarization effects?. <i>Biochemistry</i> , 2010 , 49, 4568-70	3.2	9
175	pH-responsive polymeric micelle carriers for siRNA drugs. <i>Biomacromolecules</i> , 2010 , 11, 2904-11	6.9	191
174	Laboratory-scale protein striping system for patterning biomolecules onto paper-based immunochromatographic test strips. <i>Lab on A Chip</i> , 2010 , 10, 2279-82	7.2	28
173	Injectable pH- and temperature-responsive poly(N-isopropylacrylamide-co-propylacrylic acid) copolymers for delivery of angiogenic growth factors. <i>Biomacromolecules</i> , 2010 , 11, 1833-9	6.9	143

172	A helical flow, circular microreactor for separating and enriching "smart" polymer-antibody capture reagents. <i>Lab on A Chip</i> , 2010 , 10, 3130-8	7.2	29
171	Thermosensitive liposomes modified with poly(N-isopropylacrylamide-co-propylacrylic acid) copolymers for triggered release of doxorubicin. <i>Biomacromolecules</i> , 2010 , 11, 1915-20	6.9	107
170	Intracellular delivery of a protein antigen with an endosomal-releasing polymer enhances CD8 T-cell production and prophylactic vaccine efficacy. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2205-12	6.3	100
169	Multi-technique Characterization of Adsorbed Peptide and Protein Orientation: LK3 and Protein G B1. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C5D1	1.3	25
168	Biomaterial topography alters healing in vivo and monocyte/macrophage activation in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 649-57	5.4	137
167	The Role of Basic Amino Acids in the Molecular Recognition of Hydroxyapatite by Statherin using Solid State NMR. <i>Surface Science</i> , 2010 , 604, L39-L42	1.8	34
166	Hyaluronic acid hydrogels with controlled degradation properties for oriented bone regeneration. <i>Biomaterials</i> , 2010 , 31, 6772-81	15.6	244
165	Development of a novel endosomolytic diblock copolymer for siRNA delivery. <i>Journal of Controlled Release</i> , 2009 , 133, 221-9	11.7	332
164	In situ characterization of the degradation of PLGA microspheres in hyaluronic acid hydrogels by optical coherence tomography. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 74-81	11.7	21
163	Retention and biodistribution of microspheres injected into ischemic myocardium. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 704-10	5.4	28
162	Antigen delivery with poly(propylacrylic acid) conjugation enhances MHC-1 presentation and T-cell activation. <i>Bioconjugate Chemistry</i> , 2009 , 20, 241-8	6.3	71
161	A ¹³ C{ ³¹ P} REDOR NMR investigation of the role of glutamic acid residues in statherin-hydroxyapatite recognition. <i>Langmuir</i> , 2009 , 25, 12136-43	4	39
160	End-functionalized polymers and junction-functionalized diblock copolymers via RAFT chain extension with maleimido monomers. <i>Bioconjugate Chemistry</i> , 2009 , 20, 1122-8	6.3	42
159	Photo-cross-linked hydrogels from thermoresponsive PEGMEMA-PPGMA-EGDMA copolymers containing multiple methacrylate groups: mechanical property, swelling, protein release, and cytotoxicity. <i>Biomacromolecules</i> , 2009 , 10, 2895-903	6.9	65
158	Dynamic bioprocessing and microfluidic transport control with smart magnetic nanoparticles in laminar-flow devices. <i>Lab on A Chip</i> , 2009 , 9, 1997-2002	7.2	73
157	Heparin-regulated delivery of osteoprotegerin promotes vascularization of implanted hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1021-34	3.5	30
156	Mechanistic analysis of macrophage response to IRAK-1 gene knockdown by a smart polymer-antisense oligonucleotide therapeutic. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1333-46	3.5	6
155	Encapsulation and stabilization of indocyanine green within poly(styrene-alt-maleic anhydride) block-poly(styrene) micelles for near-infrared imaging. <i>Journal of Biomedical Optics</i> , 2008 , 13, 014025	3.5	92

154	SmartpH-Responsive Carriers for Intracellular Delivery of Biomolecular Drugs. <i>Fundamental Biomedical Technologies</i> , 2008 , 143-159		5
153	Dual magnetic-/temperature-responsive nanoparticles for microfluidic separations and assays. <i>Langmuir</i> , 2007 , 23, 7385-91	4	148
152	Thermodynamic roles of basic amino acids in statherin recognition of hydroxyapatite. <i>Biochemistry</i> , 2007 , 46, 4725-33	3.2	58
151	Structure and Dynamics of Proteins Adsorbed to Biomaterial Interfaces 2007 ,		3
150	The structure, dynamics, and energetics of protein adsorption-lessons learned from adsorption of statherin to hydroxyapatite. <i>Magnetic Resonance in Chemistry</i> , 2007 , 45 Suppl 1, S32-47	2.1	41
149	Solid State NMR Studies of Molecular Recognition at Protein-Mineral Interfaces. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2007 , 50, 71-85	10.4	43
148	Conjugates of stimuli-responsive polymers and proteins. <i>Progress in Polymer Science</i> , 2007 , 32, 922-932	29.6	277
147	Internalization of novel non-viral vector TAT-streptavidin into human cells. <i>BMC Biotechnology</i> , 2007 , 7, 1	3.5	92
146	Synthesis of monodisperse biotinylated p(NIPAAm)-coated iron oxide magnetic nanoparticles and their bioconjugation to streptavidin. <i>Langmuir</i> , 2007 , 23, 6299-304	4	127
145	Surface modification of microfluidic channels by UV-mediated graft polymerization of non-fouling and Smartp polymers. <i>Radiation Physics and Chemistry</i> , 2007 , 76, 1409-1413	2.5	62
144	Design of "Smart" Nano-Scale Delivery Systems for Biomolecular Therapeutics. <i>Journal of Biomedical Nanotechnology</i> , 2007 , 3, 213-217	4	16
143	Formation of a novel heparin-based hydrogel in the presence of heparin-binding biomolecules. <i>Biomacromolecules</i> , 2007 , 8, 1979-86	6.9	136
142	Micro and Nanoscale Smart Polymer Technologies in Biomedicine 2006 , 289-304		1
141	Folding of the C-terminal bacterial binding domain in statherin upon adsorption onto hydroxyapatite crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 16083-8	11.5	84
140	Switchable surface traps for injectable bead-based chromatography in PDMS microfluidic channels. <i>Lab on A Chip</i> , 2006 , 6, 843-8	7.2	102
139	PEG-cross-linked heparin is an affinity hydrogel for sustained release of vascular endothelial growth factor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 187-97	3.5	126
138	pH-responsive poly(styrene-alt-maleic anhydride) alkylamide copolymers for intracellular drug delivery. <i>Biomacromolecules</i> , 2006 , 7, 2407-14	6.9	190
137	Controlling the aggregation of conjugates of streptavidin with smart block copolymers prepared via the RAFT copolymerization technique. <i>Biomacromolecules</i> , 2006 , 7, 2736-41	6.9	127

136	Cooperative hydrogen bond interactions in the streptavidin-biotin system. <i>Protein Science</i> , 2006 , 15, 459-67	6.3	110
135	Thermodynamics of statherin adsorption onto hydroxyapatite. <i>Biochemistry</i> , 2006 , 45, 5576-86	3.2	62
134	Homonuclear and heteronuclear NMR studies of a statherin fragment bound to hydroxyapatite crystals. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9324-32	3.4	45
133	A solid-state NMR study of the dynamics and interactions of phenylalanine rings in a statherin fragment bound to hydroxyapatite crystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5364-70	16.4	51
132	Poly(N-isopropylacrylamide-co-propylacrylic acid) copolymers that respond sharply to temperature and pH. <i>Biomacromolecules</i> , 2006 , 7, 1381-5	6.9	351
131	Smart polymeric carriers for enhanced intracellular delivery of therapeutic macromolecules. <i>Expert Opinion on Biological Therapy</i> , 2005 , 5, 23-32	5.4	62
130	Intelligent Biohybrid Materials for Therapeutic and Imaging Agent Delivery. <i>Proceedings of the IEEE</i> , 2005 , 93, 726-736	14.3	27
129	Role of biotin-binding affinity in streptavidin-based pretargeted radioimmunotherapy of lymphoma. <i>Bioconjugate Chemistry</i> , 2005 , 16, 131-8	6.3	23
128	A REDOR NMR study of a phosphorylated statherin fragment bound to hydroxyapatite crystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9350-1	16.4	54
127	Control of cavitation-induced hemolysis with a surface-active polymer. <i>Acoustics Research Letters Online: ARLO</i> , 2005 , 6, 201-206		
126	Solid-state NMR structural studies of peptides immobilized on gold nanoparticles. <i>Langmuir</i> , 2005 , 21, 3002-7	4	32
125	Design and development of polymers for gene delivery. <i>Nature Reviews Drug Discovery</i> , 2005 , 4, 581-93	64.1	2055
124	'Smart' delivery systems for biomolecular therapeutics. <i>Orthodontics and Craniofacial Research</i> , 2005 , 8, 219-25	3	71
123	Rational design of composition and activity correlations for pH-sensitive and glutathione-reactive polymer therapeutics. <i>Journal of Controlled Release</i> , 2005 , 101, 47-58	11.7	71
122	Erratum to Rational design of composition and activity correlations for pH-sensitive and glutathione-reactive polymer therapeutics[J. Control. Release 101 (1B) (2005) 47-58]. <i>Journal of Controlled Release</i> , 2005 , 104, 415	11.7	4
121	Rational design of composition and activity correlations for pH-responsive and glutathione-reactive polymer therapeutics. <i>Journal of Controlled Release</i> , 2005 , 104, 417-27	11.7	35
120	Dual-affinity avidin molecules. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61, 597-607	4.2	26
119	Poly(propylacrylic acid)-mediated serum stabilization of cationic lipoplexes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 163-79	3.5	16

118	Design and construction of highly stable, protease-resistant chimeric avidins. <i>Journal of Biological Chemistry</i> , 2005 , 280, 10228-33	5.4	42
117	A TAT-streptavidin fusion protein directs uptake of biotinylated cargo into mammalian cells. <i>Protein Engineering, Design and Selection</i> , 2005 , 18, 147-52	1.9	47
116	Semi-interpenetrating network of poly(ethylene glycol) and poly(D,L-lactide) for the controlled delivery of protein drugs. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 189-201	3.5	10
115	Monocyte activation on polyelectrolyte multilayers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 237-51	3.5	21
114	Effect of polymer surface activity on cavitation nuclei stability against dissolution. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 721-8	2.2	10
113	Hyaluronic acid grafting mitigates calcification of glutaraldehyde-fixed bovine pericardium. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 328-34		47
112	"Smart" mobile affinity matrix for microfluidic immunoassays. <i>Lab on A Chip</i> , 2004 , 4, 412-5	7.2	77
111	Formulation of chitosan-DNA nanoparticles with poly(propyl acrylic acid) enhances gene expression. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 1405-21	3.5	61
110	Reversible meso-scale smart polymer--protein particles of controlled sizes. <i>Bioconjugate Chemistry</i> , 2004 , 15, 747-53	6.3	98
109	Anti-inflammatory drug delivery from hyaluronic acid hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 1111-9	3.5	88
108	Bioconjugates of smart polymers and proteins: synthesis and applications. <i>Macromolecular Symposia</i> , 2004 , 207, 139-152	0.8	161
107	Smart polymer-streptavidin conjugates. <i>Methods in Molecular Biology</i> , 2004 , 283, 37-43	1.4	10
106	Modulation of macrophage responsiveness to lipopolysaccharide by IRAK-1 manipulation. <i>Shock</i> , 2004 , 21, 182-8	3.4	81
105	Molecular recognition at the protein-hydroxyapatite interface. <i>Critical Reviews in Oral Biology and Medicine</i> , 2003 , 14, 370-6		95
104	A new pH-responsive and glutathione-reactive, endosomal membrane-disruptive polymeric carrier for intracellular delivery of biomolecular drugs. <i>Journal of Controlled Release</i> , 2003 , 93, 105-20	11.7	221
103	Delivering the vaccination mail. <i>Trends in Biotechnology</i> , 2003 , 21, 465-7	15.1	5
102	Design and synthesis of pH-responsive polymeric carriers that target uptake and enhance the intracellular delivery of oligonucleotides. <i>Journal of Controlled Release</i> , 2003 , 89, 365-74	11.7	211
101	Biomimetic peptides that engage specific integrin-dependent signaling pathways and bind to calcium phosphate surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 67, 69-77		59

100	Spatially organized layers of cardiomyocytes on biodegradable polyurethane films for myocardial repair. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 586-95		176
99	Structural characterization and comparison of RGD cell-adhesion recognition sites engineered into streptavidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 828-34		13
98	Structural studies of hydrogen bonds in the high-affinity streptavidin-biotin complex: mutations of amino acids interacting with the ureido oxygen of biotin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1567-73		15
97	Temperature-induced switching of enzyme activity with smart polymer-enzyme conjugates. <i>Bioconjugate Chemistry</i> , 2003 , 14, 517-25	6.3	134
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