

Jayachandran N Kizhakkedathu

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.

172
papers

6,656
citations

44
h-index

75
g-index

177
ext. papers

7,780
ext. citations

8.3
avg, IF

6.13
L-index

#	Paper	IF	Citations
172	Ex vivo enzymatic treatment converts blood type A donor lungs into universal blood type lungs.. <i>Science Translational Medicine</i> , 2022 , 14, eabm7190	17.5	2
171	Mechanistic insights into COVID-19 by global analysis of the SARS-CoV-2 3CL substrate degradome. <i>Cell Reports</i> , 2021 , 37, 109892	10.6	11
170	A facile colorimetric method for the quantification of labile iron pool and total iron in cells and tissue specimens. <i>Scientific Reports</i> , 2021 , 11, 6008	4.9	6
169	MANTI: Automated Annotation of Protein N-Termini for Rapid Interpretation of N-Terminome Data Sets. <i>Analytical Chemistry</i> , 2021 , 93, 5596-5605	7.8	3
168	An improved in vitro model for studying the structural and functional properties of the endothelial glycocalyx in arteries, capillaries and veins. <i>FASEB Journal</i> , 2021 , 35, e21643	0.9	1
167	Role of Iron in the Molecular Pathogenesis of Diseases and Therapeutic Opportunities. <i>ACS Chemical Biology</i> , 2021 , 16, 945-972	4.9	4
166	Rapid Assembly of Infection-Resistant Coatings: Screening and Identification of Antimicrobial Peptides Works in Cooperation with an Antifouling Background. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36784-36799	9.5	9
165	Wechselwirkung von Polyelektrolyt-Architekturen mit Proteinen und Biosystemen. <i>Angewandte Chemie</i> , 2021 , 133, 3926-3950	3.6	3
164	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3882-3904	16.4	21
163	Evaluation of hyperbranched polyglycerol for cold perfusion and storage of donor kidneys in a pig model of kidney autotransplantation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 853-863	3.5	1
162	Transient blood thinning during extracorporeal blood purification via the inactivation of coagulation factors by hydrogel microspheres. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1143-1156	19	10
161	Self-Limiting Mussel Inspired Thin Antifouling Coating with Broad-Spectrum Resistance to Biofilm Formation to Prevent Catheter-Associated Infection in Mouse and Porcine Models. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001573	10.1	5
160	Prevention of vascular-allograft rejection by protecting the endothelial glycocalyx with immunosuppressive polymers. <i>Nature Biomedical Engineering</i> , 2021 , 5, 1202-1216	19	1
159	Macroscopic Evidence of the Liquidlike Nature of Nanoscale Polydimethylsiloxane Brushes. <i>ACS Nano</i> , 2021 ,	16.7	11
158	Biomaterial and cellular implants:foreign surfaces where immunity and coagulation meet. <i>Blood</i> , 2021 ,	2.2	1
157	Enzymatically releasable polyethylene glycol - host defense peptide conjugates with improved activity and biocompatibility. <i>Journal of Controlled Release</i> , 2021 , 339, 220-231	11.7	1
156	Rheological and clot microstructure evaluation of heparin neutralization by UHRA and protamine. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 124, 104851	4.1	

155	Mega macromolecules as single molecule lubricants for hard and soft surfaces. <i>Nature Communications</i> , 2020 , 11, 2139	17.4	11
154	Surface modification approaches for prevention of implant associated infections. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 193, 111116	6	24
153	The Mouse Heart Mitochondria N Terminome Provides Insights into ClpXP-Mediated Proteolysis. <i>Molecular and Cellular Proteomics</i> , 2020 , 19, 1330-1345	7.6	8
152	Targeting Biological Polyanions in Blood: Strategies toward the Design of Therapeutics. <i>Biomacromolecules</i> , 2020 , 21, 2595-2621	6.9	1
151	Blood circulation of soft nanomaterials is governed by dynamic remodeling of protein opsonins at nano-biointerface. <i>Nature Communications</i> , 2020 , 11, 3048	17.4	18
150	Master Sculptor at Work: Enteropathogenic Escherichia coli Infection Uniquely Modifies Mitochondrial Proteolysis during Its Control of Human Cell Death. <i>MSystems</i> , 2020 , 5,	7.6	3
149	Towards Robust Delivery of Antimicrobial Peptides to Combat Bacterial Resistance. <i>Molecules</i> , 2020 , 25,	4.8	21
148	Polyglycerol-Based Macromolecular Iron Chelator Adjuvants for Antibiotics To Treat Drug-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37834-37844	9.5	4
147	Mucin-Inspired, High Molecular Weight Virus Binding Inhibitors Show Biphasic Binding Behavior to Influenza A Viruses. <i>Small</i> , 2020 , 16, e2004635	11	9
146	An allosteric MALT1 inhibitor is a molecular corrector rescuing function in an immunodeficient patient. <i>Nature Chemical Biology</i> , 2019 , 15, 304-313	11.7	30
145	Cell Surface Engineering. <i>Polymers and Polymeric Composites</i> , 2019 , 307-346	0.6	0
144	Transcriptome analysis of signaling pathways of human peritoneal mesothelial cells in response to different osmotic agents in a peritoneal dialysis solution. <i>BMC Nephrology</i> , 2019 , 20, 181	2.7	1
143	An enzymatic pathway in the human gut microbiome that converts A to universal O type blood. <i>Nature Microbiology</i> , 2019 , 4, 1475-1485	26.6	28
142	Thiol-Reactive Polymers for Titanium Interfaces: Fabrication of Antimicrobial Coatings. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1308-1316	4.3	16
141	Design of Safe Nanotherapeutics for the Excretion of Excess Systemic Toxic Iron. <i>ACS Central Science</i> , 2019 , 5, 917-926	16.8	15
140	N-Terminomics/TAILS Profiling of Proteases and Their Substrates in Ulcerative Colitis. <i>ACS Chemical Biology</i> , 2019 , 14, 2471-2483	4.9	11
139	Deep Profiling of the Cleavage Specificity and Human Substrates of Snake Venom Metalloprotease HF3 by Proteomic Identification of Cleavage Site Specificity (PICS) Using Proteome Derived Peptide Libraries and Terminal Amine Isotopic Labeling of Substrates (TAILS) N-Terminomics. <i>Journal of Proteome Research</i> , 2019 , 18, 3419-3428	5.6	8
138	Proteomic and N-Terminomic TAILS Analyses of Human Alveolar Bone Proteins: Improved Protein Extraction Methodology and LysargiNase Digestion Strategies Increase Proteome Coverage and Missing Protein Identification. <i>Journal of Proteome Research</i> , 2019 , 18, 4167-4179	5.6	13

137	Simplified high yield TAILS terminomics using a new HPG-ALD 800K-2000 polymer with precipitation. <i>Methods in Enzymology</i> , 2019 , 626, 429-446	1.7	4
136	Aurein-Derived Antimicrobial Peptides Formulated with Pegylated Phospholipid Micelles to Target Methicillin-Resistant Staphylococcus aureus Skin Infections. <i>ACS Infectious Diseases</i> , 2019 , 5, 443-453	5.5	33
135	The proteome microenvironment determines the protective effect of preconditioning in cisplatin-induced acute kidney injury. <i>Kidney International</i> , 2019 , 95, 333-349	9.9	28
134	N-Terminomics TAILS Identifies Host Cell Substrates of Poliovirus and Coxsackievirus B3 3C Proteinases That Modulate Virus Infection. <i>Journal of Virology</i> , 2018 , 92,	6.6	39
133	Influence of dynamic flow conditions on adsorbed plasma protein corona and surface-induced thrombus generation on antifouling brushes. <i>Biomaterials</i> , 2018 , 166, 79-95	15.6	24
132	Design of Polyphosphate Inhibitors: A Molecular Dynamics Investigation on Polyethylene Glycol-Linked Cationic Binding Groups. <i>Biomacromolecules</i> , 2018 , 19, 1358-1367	6.9	7
131	Comparative Degradomics of Porcine and Human Wound Exudates Unravels Biomarker Candidates for Assessment of Wound Healing Progression in Trauma Patients. <i>Journal of Investigative Dermatology</i> , 2018 , 138, 413-422	4.3	16
130	Development of Antifouling and Bactericidal Coatings for Platelet Storage Bags Using Dopamine Chemistry. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700839	10.1	14
129	Surface Engineering for Cell-Based Therapies: Techniques for Manipulating Mammalian Cell Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3658-3677	5.5	38
128	Antimicrobial Peptides: Diversity, Mechanism of Action and Strategies to Improve the Activity and Biocompatibility In Vivo. <i>Biomolecules</i> , 2018 , 8,	5.9	418
127	Peritoneal and Systemic Responses of Obese Type II Diabetic Rats to Chronic Exposure to a Hyperbranched Polyglycerol-Based Dialysis Solution. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018 , 123, 494-503	3.1	6
126	Molecular Dynamics Simulations on Nucleic Acid Binding Polymers Designed To Arrest Thrombosis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28399-28411	9.5	6
125	Approaches to prevent bleeding associated with anticoagulants: current status and recent developments. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 928-944	6.2	13
124	Cell Surface Engineering. <i>Polymers and Polymeric Composites</i> , 2018 , 1-42	0.6	
123	Polymer-Nanoparticle Interaction as a Design Principle in the Development of a Durable Ultrathin Universal Binary Antibiofilm Coating with Long-Term Activity. <i>ACS Nano</i> , 2018 , 12, 11881-11891	16.7	31
122	Global Profiling of Proteolysis from the Mitochondrial Amino Terminome during Early Intrinsic Apoptosis Prior to Caspase-3 Activation. <i>Journal of Proteome Research</i> , 2018 , 17, 4279-4296	5.6	14
121	Comparison of reversal activity and mechanism of action of UHRA, andexanet, and PER977 on heparin and oral FXa inhibitors. <i>Blood Advances</i> , 2018 , 2, 2104-2114	7.8	30
120	Oncotically Driven Control over Glycocalyx Dimension for Cell Surface Engineering and Protein Binding in the Longitudinal Direction. <i>Scientific Reports</i> , 2018 , 8, 7581	4.9	6

119	Anti-adhesive antimicrobial peptide coating prevents catheter associated infection in a mouse urinary infection model. <i>Biomaterials</i> , 2017 , 116, 69-81	15.6	145
118	Hemocompatibility of Degrading Polymeric Biomaterials: Degradable Polar Hydrophobic Ionic Polyurethane versus Poly(lactic-co-glycolic) Acid. <i>Biomacromolecules</i> , 2017 , 18, 2296-2305	6.9	14
117	Profiling of Protein N-Termini and Their Modifications in Complex Samples. <i>Methods in Molecular Biology</i> , 2017 , 1574, 35-50	1.4	17
116	Alteration of blood clotting and lung damage by protamine are avoided using the heparin and polyphosphate inhibitor UHRA. <i>Blood</i> , 2017 , 129, 1368-1379	2.2	26
115	Antimicrobial Peptide-Polymer Conjugates with High Activity: Influence of Polymer Molecular Weight and Peptide Sequence on Antimicrobial Activity, Proteolysis, and Biocompatibility. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37575-37586	9.5	46
114	A Polymer Therapeutic Having Universal Heparin Reversal Activity: Molecular Design and Functional Mechanism. <i>Biomacromolecules</i> , 2017 , 18, 3343-3358	6.9	17
113	N-Degradomic Analysis Reveals a Proteolytic Network Processing the Podocyte Cytoskeleton. <i>Journal of the American Society of Nephrology: JASN</i> , 2017 , 28, 2867-2878	12.7	37
112	Glycopolymer Brushes Presenting Sugars in Their Natural Form: Synthesis and Applications 2017 , 333-359		
111	A nanoparticle-preparation kit using ethylene glycol-based block copolymers with a common temperature-responsive block. <i>Polymer Chemistry</i> , 2017 , 8, 7311-7315	4.9	2
110	Hyperbranched polyglycerols: recent advances in synthesis, biocompatibility and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 9249-9277	7.3	79
109	Nontransformed and Cancer Cells Can Utilize Different Endocytic Pathways To Internalize Dendritic Nanoparticle Variants: Implications on Nanocarrier Design. <i>Biomacromolecules</i> , 2017 , 18, 2427-2438	6.9	16
108	Iron Binding and Iron Removal Efficiency of Desferrioxamine Based Polymeric Iron Chelators: Influence of Molecular Size and Chelator Density. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600244	5.5	12
107	Hemocompatibility studies on a degradable polar hydrophobic ionic polyurethane (D-PHI). <i>Acta Biomaterialia</i> , 2017 , 48, 368-377	10.8	23
106	Cold preservation with hyperbranched polyglycerol-based solution improves kidney functional recovery with less injury at reperfusion in rats. <i>American Journal of Translational Research (discontinued)</i> , 2017 , 9, 429-441	3	4
105	A planar model of the vessel wall from cellularized-collagen scaffolds: focus on cell-matrix interactions in mono-, bi- and tri-culture models. <i>Biomaterials Science</i> , 2016 , 5, 153-162	7.4	14
104	Advantages of replacing hydroxyethyl starch in University of Wisconsin solution with hyperbranched polyglycerol for cold kidney perfusion. <i>Journal of Surgical Research</i> , 2016 , 205, 59-69	2.5	5
103	In Vivo Biological Evaluation of High Molecular Weight Multifunctional Acid-Degradable Polymeric Drug Carriers with Structurally Different Ketals. <i>Biomacromolecules</i> , 2016 , 17, 3683-3693	6.9	15
102	Hyperbranched polyglycerol is superior to glucose for long-term preservation of peritoneal membrane in a rat model of chronic peritoneal dialysis. <i>Journal of Translational Medicine</i> , 2016 , 14, 338	8.5	16

101	In vivo efficacy, toxicity and biodistribution of ultra-long circulating desferrioxamine based polymeric iron chelator. <i>Biomaterials</i> , 2016 , 102, 58-71	15.6	36
100	Choline phosphate functionalized cellulose membrane: A potential hemostatic dressing based on a unique bioadhesion mechanism. <i>Acta Biomaterialia</i> , 2016 , 40, 212-225	10.8	21
99	Effect of Extreme Wettability on Platelet Adhesion on Metallic Implants: From Superhydrophilicity to Superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17631-41	9.5	69
98	Formalin-Fixed, Paraffin-Embedded Tissues (FFPE) as a Robust Source for the Profiling of Native and Protease-Generated Protein Amino Termini. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 2203-13	7.6	10
97	Design Considerations for Developing Hyperbranched Polyglycerol Nanoparticles as Systemic Drug Carriers. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 1089-100	4	9
96	The mechanism and modulation of complement activation on polymer grafted cells. <i>Acta Biomaterialia</i> , 2016 , 31, 252-263	10.8	7
95	Reversible hemostatic properties of sulfobetaine/quaternary ammonium modified hyperbranched polyglycerol. <i>Biomaterials</i> , 2016 , 86, 42-55	15.6	80
94	Modulation of Multivalent Protein Binding on Surfaces by Glycopolymer Brush Chemistry. <i>Methods in Molecular Biology</i> , 2016 , 1367, 183-93	1.4	
93	Skin Barrier Defects Caused by Keratinocyte-Specific Deletion of ADAM17 or EGFR Are Based on Highly Similar Proteome and Degradome Alterations. <i>Journal of Proteome Research</i> , 2016 , 15, 1402-17	5.6	11
92	Chain Length and Grafting Density Dependent Enhancement in the Hydrolysis of Ester-Linked Polymer Brushes. <i>Langmuir</i> , 2015 , 31, 6463-70	4	24
91	In vivo assessment of protease dynamics in cutaneous wound healing by degradomics analysis of porcine wound exudates. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 354-70	7.6	37
90	Toward Efficient Enzymes for the Generation of Universal Blood through Structure-Guided Directed Evolution. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5695-705	16.4	47
89	Polymeric nanocarriers for the treatment of systemic iron overload. <i>Molecular and Cellular Therapies</i> , 2015 , 3, 3		24
88	Matrix Metalloproteinase 10 Degradomics in Keratinocytes and Epidermal Tissue Identifies Bioactive Substrates With Pleiotropic Functions. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 3234-46	7.6	26
87	Interaction of blood components with cathelicidins and their modified versions. <i>Biomaterials</i> , 2015 , 69, 201-11	15.6	17
86	Blood Components Interactions to Ionic and Nonionic Glyconanogels. <i>Biomacromolecules</i> , 2015 , 16, 2990-7		17
85	Bioreducible hyperbranched polyglycerols with disulfide linkages: Synthesis and biocompatibility evaluation. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 2104-2115	2.5	11
84	Monitoring matrix metalloproteinase activity at the epidermal-dermal interface by SILAC-iTRAQ-TAILS. <i>Proteomics</i> , 2015 , 15, 2491-502	4.8	17

83	Investigation of hydrophobically derivatized hyperbranched polyglycerol with PEGylated shell as a nanocarrier for systemic delivery of chemotherapeutics. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 1785-95	6	10
82	Toward Infection-Resistant Surfaces: Achieving High Antimicrobial Peptide Potency by Modulating the Functionality of Polymer Brush and Peptide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28591-605	8.5	57
81	Conjugation of aurein 2.2 to HPG yields an antimicrobial with better properties. <i>Biomacromolecules</i> , 2015 , 16, 913-23	6.9	32
80	Antibacterial properties of hLf1-11 peptide onto titanium surfaces: a comparison study between silanization and surface initiated polymerization. <i>Biomacromolecules</i> , 2015 , 16, 483-96	6.9	90
79	Hyperbranched polyglycerol as a colloid in cold organ preservation solutions. <i>PLoS ONE</i> , 2015 , 10, e0116595	5.9	15
78	Secretome and degradome profiling shows that Kallikrein-related peptidases 4, 5, 6, and 7 induce TGF β 1 signaling in ovarian cancer cells. <i>Molecular Oncology</i> , 2014 , 8, 68-82	7.9	46
77	Engineering biomaterials surfaces to modulate the host response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 124, 69-79	6	42
76	Hybrid polyglycerols with long blood circulation: synthesis, biocompatibility, and biodistribution. <i>Macromolecular Bioscience</i> , 2014 , 14, 1469-82	5.5	11
75	Enhancement of biological reactions on cell surfaces via macromolecular crowding. <i>Nature Communications</i> , 2014 , 5, 4683	17.4	39
74	Modulation of complement activation and amplification on nanoparticle surfaces by glycopolymer conformation and chemistry. <i>ACS Nano</i> , 2014 , 8, 7687-703	16.7	60
73	Polymer brush-based approaches for the development of infection-resistant surfaces. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4968-4978	7.3	99
72	Abnormal blood clot formation induced by temperature responsive polymers by altered fibrin polymerization and platelet binding. <i>Biomaterials</i> , 2014 , 35, 2518-28	15.6	20
71	The size-dependent efficacy and biocompatibility of hyperbranched polyglycerol in peritoneal dialysis. <i>Biomaterials</i> , 2014 , 35, 1378-89	15.6	35
70	Bioconjugates Based on Poly(Ethylene Glycol)s and Polyglycerols 2014 , 77-103		
69	Nontoxic polyphosphate inhibitors reduce thrombosis while sparing hemostasis. <i>Blood</i> , 2014 , 124, 3183-90	20	66
68	Affinity-based design of a synthetic universal reversal agent for heparin anticoagulants. <i>Science Translational Medicine</i> , 2014 , 6, 260ra150	17.5	52
67	Intravenously injected human apolipoprotein A-I rapidly enters the central nervous system via the choroid plexus. <i>Journal of the American Heart Association</i> , 2014 , 3, e001156	6	52
66	Clinically approved iron chelators influence zebrafish mortality, hatching morphology and cardiac function. <i>PLoS ONE</i> , 2014 , 9, e109880	3.7	17

65	Polymer Brushes 2013 ,		2
64	Biodegradable polyglycerols with randomly distributed ketal groups as multi-functional drug delivery systems. <i>Biomaterials</i> , 2013 , 34, 6068-81	15.6	49
63	Multilayered coating on titanium for controlled release of antimicrobial peptides for the prevention of implant-associated infections. <i>Biomaterials</i> , 2013 , 34, 5969-77	15.6	254
62	Linear and hyperbranched phosphorylcholine based homopolymers for blood biocompatibility. <i>Polymer Chemistry</i> , 2013 , 4, 3140	4.9	20
61	Therapeutic cells via functional modification: influence of molecular properties of polymer grafts on in vivo circulation, clearance, immunogenicity, and antigen protection. <i>Biomacromolecules</i> , 2013 , 14, 2052-62	6.9	17
60	Lectin interactions on surface-grafted glycostructures: influence of the spatial distribution of carbohydrates on the binding kinetics and rupture forces. <i>Analytical Chemistry</i> , 2013 , 85, 7786-93	7.8	31
59	Design of long circulating nontoxic dendritic polymers for the removal of iron in vivo. <i>ACS Nano</i> , 2013 , 7, 10704-16	16.7	59
58	Hyperbranched polyglycerol is an efficacious and biocompatible novel osmotic agent in a rodent model of peritoneal dialysis. <i>Peritoneal Dialysis International</i> , 2013 , 33, 15-27	2.8	32
57	Solvent-assisted anionic ring opening polymerization of glycidol: Toward medium and high molecular weight hyperbranched polyglycerols. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 2614-2621	2.5	34
56	Antigens protected functional red blood cells by the membrane grafting of compact hyperbranched polyglycerols. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	4
55	Use of Molecular Dynamics for the Refinement of an Electrostatic Model for the In Silico Design of a Polymer Antidote for the Anticoagulant Fondaparinux. <i>Journal of Medical Engineering</i> , 2013 , 2013, 487387		
54	In vivo circulation, clearance, and biodistribution of polyglycerol grafted functional red blood cells. <i>Biomaterials</i> , 2012 , 33, 3047-57	15.6	41
53	Synthesis of Glycocalyx-Mimetic Surfaces and Their Specific and Nonspecific Interactions with Proteins and Blood. <i>ACS Symposium Series</i> , 2012 , 577-603	0.4	
52	Hyperbranched glycopolymers for blood biocompatibility. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1050-8	6.3	64
51	Branched multifunctional polyether polyketals: variation of ketal group structure enables unprecedented control over polymer degradation in solution and within cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14945-57	16.4	85
50	Synthesis, characterization, and biocompatibility of biodegradable hyperbranched polyglycerols from acid-cleavable ketal group functionalized initiators. <i>Biomacromolecules</i> , 2012 , 13, 3018-30	6.9	37
49	Influence of architecture of high molecular weight linear and branched polyglycerols on their biocompatibility and biodistribution. <i>Biomaterials</i> , 2012 , 33, 9135-47	15.6	112
48	Influence of polymer architecture on antigens camouflage, CD47 protection and complement mediated lysis of surface grafted red blood cells. <i>Biomaterials</i> , 2012 , 33, 7871-83	15.6	24

47	Carbohydrate structure dependent hemocompatibility of biomimetic functional polymer brushes on surfaces. <i>Advanced Healthcare Materials</i> , 2012 , 1, 199-213	10.1	34
46	Polyvalent choline phosphate as a universal biomembrane adhesive. <i>Nature Materials</i> , 2012 , 11, 468-76	27	130
45	Biomembrane interactions reveal the mechanism of action of surface-immobilized host defense IDR-1010 peptide. <i>Chemistry and Biology</i> , 2012 , 19, 199-209		33
44	A Long Acting Polymeric Iron Chelator for the Treatment of Transfusion Associated Iron Overload. <i>Blood</i> , 2012 , 120, 486-486	2.2	
43	Identifying and quantifying proteolytic events and the natural N terminome by terminal amine isotopic labeling of substrates. <i>Nature Protocols</i> , 2011 , 6, 1578-611	18.8	221
42	Synthesis and characterization of carboxylic acid conjugated, hydrophobically derivatized, hyperbranched polyglycerols as nanoparticulate drug carriers for cisplatin. <i>Biomacromolecules</i> , 2011 , 12, 145-55	6.9	68
41	The biocompatibility and biofilm resistance of implant coatings based on hydrophilic polymer brushes conjugated with antimicrobial peptides. <i>Biomaterials</i> , 2011 , 32, 3899-909	15.6	308
40	Bending and Stretching Actuation of Soft Materials through Surface-Initiated Polymerization. <i>Angewandte Chemie</i> , 2011 , 123, 5222-5225	3.6	2
39	Bending and stretching actuation of soft materials through surface-initiated polymerization. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5116-9	16.4	24
38	Development of soluble ester-linked aldehyde polymers for proteomics. <i>Analytical Chemistry</i> , 2011 , 83, 6500-10	7.8	9
37	Antibacterial surfaces based on polymer brushes: investigation on the influence of brush properties on antimicrobial peptide immobilization and antimicrobial activity. <i>Biomacromolecules</i> , 2011 , 12, 3715-27	6.9	115
36	Isotopic labeling of terminal amines in complex samples identifies protein N-termini and protease cleavage products. <i>Nature Biotechnology</i> , 2010 , 28, 281-8	44.5	403
35	A Novel Method to Attenuate Protein Adsorption Using Combinations of Polyethylene Glycol (PEG) Grafts and Piezoelectric Actuation. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010 , 1,		3
34	Enhanced cell surface polymer grafting in concentrated and nonreactive aqueous polymer solutions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3423-30	16.4	54
33	Nonbiofouling polymer brush with latent aldehyde functionality as a template for protein micropatterning. <i>Biomacromolecules</i> , 2010 , 11, 284-93	6.9	24
32	High molecular weight polyglycerol-based multivalent mannose conjugates. <i>Biomacromolecules</i> , 2010 , 11, 2567-75	6.9	20
31	Synthesis of functional polymer brushes containing carbohydrate residues in the pyranose form and their specific and nonspecific interactions with proteins. <i>Biomacromolecules</i> , 2010 , 11, 3073-85	6.9	51
30	Iron Chelating Macromolecules for Intravascular Iron Chelation Therapy. <i>ACS Symposium Series</i> , 2010 , 103-112	0.4	

29	The influence of poly-N-[(2,2-dimethyl-1,3-dioxolane)methyl]acrylamide on fibrin polymerization, cross-linking and clot structure. <i>Biomaterials</i> , 2010 , 31, 5749-58	15.6	15
28	The induction of thrombus generation on nanostructured neutral polymer brush surfaces. <i>Biomaterials</i> , 2010 , 31, 6710-6718	15.6	53
27	A silicone-based microfluidic chip grafted with carboxyl functionalized hyperbranched polyglycerols for selective protein capture. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 199-209	2.8	17
26	Inhibitory effect of hydrophilic polymer brushes on surface-induced platelet activation and adhesion. <i>Macromolecular Bioscience</i> , 2010 , 10, 1432-43	5.5	23
25	Red blood cell membrane grafting of multi-functional hyperbranched polyglycerols. <i>Biomaterials</i> , 2010 , 31, 4167-78	15.6	67
24	In vitro chelating, cytotoxicity, and blood compatibility of degradable poly(ethylene glycol)-based macromolecular iron chelators. <i>Biomaterials</i> , 2009 , 30, 638-48	15.6	76
23	Barrier Capacity of Hydrophilic Polymer Brushes To Prevent Hydrophobic Interactions: Effect of Graft Density and Hydrophilicity. <i>Macromolecules</i> , 2009 , 42, 4817-4828	5.5	48
22	Surface Modification of Polyvinyl Chloride Sheets via Growth of Hydrophilic Polymer Brushes. <i>Macromolecules</i> , 2009 , 42, 3258-3268	5.5	56
21	Poly(oligo(ethylene glycol)acrylamide) brushes by surface initiated polymerization: effect of macromonomer chain length on brush growth and protein adsorption from blood plasma. <i>Langmuir</i> , 2009 , 25, 3794-801	4	64
20	A Novel Functional Polymer with Tunable LCST. <i>Macromolecules</i> , 2008 , 41, 5393-5405	5.5	65
19	RAFT Synthesis of Acrylic Copolymers Containing Poly(ethylene glycol) and Dioxolane Functional Groups: Toward Well-Defined Aldehyde Containing Copolymers for Bioconjugation. <i>Macromolecules</i> , 2008 , 41, 5272-5282	5.5	45
18	Self-assembled monothiol-terminated hyperbranched polyglycerols on a gold surface: a comparative study on the structure, morphology, and protein adsorption characteristics with linear poly(ethylene glycol)s. <i>Langmuir</i> , 2008 , 24, 4907-16	4	100
17	An investigation of vibration-induced protein desorption mechanism using a micromachined membrane and PZT plate. <i>Biomedical Microdevices</i> , 2008 , 10, 701-8	3.7	8
16	Stimuli-responsive cationic terpolymers by RAFT polymerization: Synthesis, characterization, and protein interaction studies. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 4021-4029	2.5	6
15	Hydrophobically derivatized hyperbranched polyglycerol as a human serum albumin substitute. <i>Biomaterials</i> , 2008 , 29, 1693-704	15.6	89
14	Electric field and vibration-assisted nanomolecule desorption and anti-biofouling for biosensor applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 59, 67-73	6	30
13	Blood compatibility of novel water soluble hyperbranched polyglycerol-based multivalent cationic polymers and their interaction with DNA. <i>Biomaterials</i> , 2006 , 27, 5377-90	15.6	230
12	Water-soluble nanoparticles from random copolymer and oppositely charged surfactant, 3a. Nanoparticles of poly(ethylene glycol)-based cationic random copolymer and fatty acid salts. <i>Macromolecular Bioscience</i> , 2005 , 5, 549-58	5.5	15

11	Atom Transfer Radical Polymerization Using Multidentate Amine Ligands Supported on Soluble Hyperbranched Polyglycidol. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 567-573	2.6	16
10	Synthesis and characterization of well-defined hydrophilic block copolymer brushes by aqueous ATRP. <i>Polymer</i> , 2004 , 45, 7471-7489	3.9	46
9	Water-soluble complexes from random copolymer and oppositely charged surfactant. 2. Complexes of poly(ethylene glycol)-based cationic random copolymer and bile salts. <i>Langmuir</i> , 2004 , 20, 8468-75	4	23
8	Complexes of poly(ethylene glycol)-based cationic random copolymer and calf thymus DNA: a complete biophysical characterization. <i>Langmuir</i> , 2004 , 20, 2386-96	4	66
7	Laser-Light-Scattering Study of Internal Motions of Polymer Chains Grafted on Spherical Latex Particles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18479-18484	3.4	22
6	Molecular weight and polydispersity estimation of adsorbing polymer brushes by atomic force microscopy. <i>Langmuir</i> , 2004 , 20, 3297-303	4	32
5	Synthesis of Well-Defined Environmentally Responsive Polymer Brushes by Aqueous ATRP. <i>Macromolecules</i> , 2004 , 37, 734-743	5.5	185
4	Evaluation of an atomic force microscopy pull-off method for measuring molecular weight and polydispersity of polymer brushes: effect of grafting density. <i>Langmuir</i> , 2004 , 20, 6238-45	4	43
3	Plasma protein adsorption to surfaces grafted with dense homopolymer and copolymer brushes containing poly(N-isopropylacrylamide). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 1121-35	3.5	22
2	Synthesis of Poly(N,N-Dimethylacrylamide) Brushes from Functionalized Latex Surfaces by Aqueous Atom Transfer Radical Polymerization. <i>ACS Symposium Series</i> , 2003 , 316-330	0.4	5
1	Synthesis of Poly(N,N-dimethylacrylamide) Brushes from Charged Polymeric Surfaces by Aqueous ATRP: Effect of Surface Initiator Concentration. <i>Macromolecules</i> , 2003 , 36, 591-598	5.5	90