

Jayachandran N Kizhakkedathu

List of Publications by Year in descending order

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173
papers

8,725
citations

41344

49
h-index

53230

85
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177
all docs

177
docs citations

177
times ranked

10995
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomaterial and cellular implants: foreign surfaces where immunity and coagulation meet. <i>Blood</i> , 2022, 139, 1987-1998.	1.4	17
2	Blood Compatibility of Hydrophilic Polyphosphoesters. <i>ACS Applied Bio Materials</i> , 2022, 5, 1151-1158.	4.6	2
3	Ex vivo enzymatic treatment converts blood type A donor lungs into universal blood type lungs. <i>Science Translational Medicine</i> , 2022, 14, eabm7190.	12.4	30
4	Durable Surfaces from Film-Forming Silver Assemblies for Long-Term Zero Bacterial Adhesion without Toxicity. <i>ACS Central Science</i> , 2022, 8, 546-561.	11.3	18
5	Influence of Steric Shield on Biocompatibility and Antithrombotic Activity of Dendritic Polyphosphate Inhibitor. <i>Molecular Pharmaceutics</i> , 2022, 19, 1853-1865.	4.6	3
6	Wechselwirkung von Polyelektrolyt- Architekturen mit Proteinen und Biosystemen. <i>Angewandte Chemie</i> , 2021, 133, 3926-3950.	2.0	8
7	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3882-3904.	13.8	65
8	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.	3.4	1
9	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.	22.5	54
10	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.	7.6	22
11	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.	3.3	24
12	MANTI: Automated Annotation of Protein N-Termini for Rapid Interpretation of N-Terminome Data Sets. <i>Analytical Chemistry</i> , 2021, 93, 5596-5605.	6.5	9
13	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.	0.5	10
14	Role of Iron in the Molecular Pathogenesis of Diseases and Therapeutic Opportunities. <i>ACS Chemical Biology</i> , 2021, 16, 945-972.	3.4	21
15	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.	8.0	21
16	Prevention of vascular-allograft rejection by protecting the endothelial glycocalyx with immunosuppressive polymers. <i>Nature Biomedical Engineering</i> , 2021, 5, 1202-1216.	22.5	12
17	Macroscopic Evidence of the Liquidlike Nature of Nanoscale Polydimethylsiloxane Brushes. <i>ACS Nano</i> , 2021, 15, 13559-13567.	14.6	45
18	Enzymatically releasable polyethylene glycol " host defense peptide conjugates with improved activity and biocompatibility. <i>Journal of Controlled Release</i> , 2021, 339, 220-231.	9.9	8

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19	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.	3.1	2
20	Mechanistic insights into COVID-19 by global analysis of the SARS-CoV-2 3CLpro substrate degradome. <i>Cell Reports</i> , 2021, 37, 109892.	6.4	60
21	Mucinâ€inspired, High Molecular Weight Virus Binding Inhibitors Show Biphasic Binding Behavior to Influenza A Viruses. <i>Small</i> , 2020, 16, e2004635.	10.0	15
22	Mega macromolecules as single molecule lubricants for hard and soft surfaces. <i>Nature Communications</i> , 2020, 11, 2139.	12.8	25
23	Surface modification approaches for prevention of implant associated infections. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111116.	5.0	62
24	The Mouse Heart Mitochondria N Terminome Provides Insights into ClpXP-Mediated Proteolysis. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1330-1345.	3.8	20
25	Targeting Biological Polyanions in Blood: Strategies toward the Design of Therapeutics. <i>Biomacromolecules</i> , 2020, 21, 2595-2621.	5.4	7
26	Blood circulation of soft nanomaterials is governed by dynamic remodeling of protein opsonins at nano-biointerface. <i>Nature Communications</i> , 2020, 11, 3048.	12.8	59
27	Master Sculptor at Work: Enteropathogenic Escherichia coli Infection Uniquely Modifies Mitochondrial Proteolysis during Its Control of Human Cell Death. <i>MSystems</i> , 2020, 5, .	3.8	3
28	Towards Robust Delivery of Antimicrobial Peptides to Combat Bacterial Resistance. <i>Molecules</i> , 2020, 25, 3048.	3.8	53
29	Polyglycerol-Based Macromolecular Iron Chelator Adjuvants for Antibiotics To Treat Drug-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37834-37844.	8.0	8
30	N-Terminomics/TAILS Profiling of Proteases and Their Substrates in Ulcerative Colitis. <i>ACS Chemical Biology</i> , 2019, 14, 2471-2483.	3.4	16
31	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.	3.7	15
32	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.	3.7	21
33	Simplified high yield TAILS terminomics using a new HPG-ALD 800K-2000 polymer with precipitation. <i>Methods in Enzymology</i> , 2019, 626, 429-446.	1.0	4
34	An allosteric MALT1 inhibitor is a molecular corrector rescuing function in an immunodeficient patient. <i>Nature Chemical Biology</i> , 2019, 15, 304-313.	8.0	50
35	Cell Surface Engineering. <i>Polymers and Polymeric Composites</i> , 2019, , 307-346.	0.6	2
36	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.	1.8	4

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37	An enzymatic pathway in the human gut microbiome that converts A to universal O type blood. <i>Nature Microbiology</i> , 2019, 4, 1475-1485.	13.3	56
38	Thiol-Reactive Polymers for Titanium Interfaces: Fabrication of Antimicrobial Coatings. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1308-1316.	4.4	24
39	Design of Safe Nanotherapeutics for the Excretion of Excess Systemic Toxic Iron. <i>ACS Central Science</i> , 2019, 5, 917-926.	11.3	27
40	Aurein-Derived Antimicrobial Peptides Formulated with Pegylated Phospholipid Micelles to Target Methicillin-Resistant <i>Staphylococcus aureus</i> Skin Infections. <i>ACS Infectious Diseases</i> , 2019, 5, 443-453.	3.8	48
41	The proteome microenvironment determines the protective effect of preconditioning in cisplatin-induced acute kidney injury. <i>Kidney International</i> , 2019, 95, 333-349.	5.2	55
42	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, .	3.4	61
43	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.	11.4	37
44	Design of Polyphosphate Inhibitors: A Molecular Dynamics Investigation on Polyethylene Glycol-Linked Cationic Binding Groups. <i>Biomacromolecules</i> , 2018, 19, 1358-1367.	5.4	12
45	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.	0.7	27
46	Development of Antifouling and Bactericidal Coatings for Platelet Storage Bags Using Dopamine Chemistry. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700839.	7.6	19
47	Surface Engineering for Cell-Based Therapies: Techniques for Manipulating Mammalian Cell Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3658-3677.	5.2	67
48	Approaches to prevent bleeding associated with anticoagulants: current status and recent developments. <i>Drug Delivery and Translational Research</i> , 2018, 8, 928-944.	5.8	18
49	Cell Surface Engineering. <i>Polymers and Polymeric Composites</i> , 2018, , 1-42.	0.6	0
50	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.	14.6	51
51	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.	3.7	33
52	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.	5.2	43
53	Oncotically Driven Control over Glycocalyx Dimension for Cell Surface Engineering and Protein Binding in the Longitudinal Direction. <i>Scientific Reports</i> , 2018, 8, 7581.	3.3	9
54	Antimicrobial Peptides: Diversity, Mechanism of Action and Strategies to Improve the Activity and Biocompatibility In Vivo. <i>Biomolecules</i> , 2018, 8, 4.	4.0	735

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55	Peritoneal and Systemic Responses of Obese Type 2 Diabetic Rats to Chronic Exposure to a Hyperbranched Polyglycerol-Based Dialysis Solution. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 123, 494-503.	2.5	7
56	Molecular Dynamics Simulations on Nucleic Acid Binding Polymers Designed To Arrest Thrombosis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28399-28411.	8.0	7
57	Anti-adhesive antimicrobial peptide coating prevents catheter associated infection in a mouse urinary infection model. <i>Biomaterials</i> , 2017, 116, 69-81.	11.4	203
58	Hemocompatibility of Degrading Polymeric Biomaterials: Degradable Polar Hydrophobic Ionic Polyurethane versus Poly(lactic-co-glycolic) Acid. <i>Biomacromolecules</i> , 2017, 18, 2296-2305.	5.4	19
59	Profiling of Protein N-Termini and Their Modifications in Complex Samples. <i>Methods in Molecular Biology</i> , 2017, 1574, 35-50.	0.9	24
60	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.	1.4	32
61	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> , 2017, 5, 153-162.	5.4	18
62	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.	8.0	59
63	A Polymer Therapeutic Having Universal Heparin Reversal Activity: Molecular Design and Functional Mechanism. <i>Biomacromolecules</i> , 2017, 18, 3343-3358.	5.4	26
64	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.	6.1	41
65	A nanoparticle-preparation kit using ethylene glycol-based block copolymers with a common temperature-responsive block. <i>Polymer Chemistry</i> , 2017, 8, 7311-7315.	3.9	2
66	Hyperbranched polyglycerols: recent advances in synthesis, biocompatibility and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9249-9277.	5.8	113
67	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.	5.4	18
68	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.	4.1	15
69	Hemocompatibility studies on a degradable polar hydrophobic ionic polyurethane (D-PHI). <i>Acta Biomaterialia</i> , 2017, 48, 368-377.	8.3	25
70	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.	0.0	5
71	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, 1402-1417.	3.7	17
72	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.	1.6	5

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73	<i>In Vivo</i> Biological Evaluation of High Molecular Weight Multifunctional Acid-Degradable Polymeric Drug Carriers with Structurally Different Ketals. <i>Biomacromolecules</i> , 2016, 17, 3683-3693.	5.4	15
74	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.	4.4	19
75	<i>In Vivo</i> efficacy, toxicity and biodistribution of ultra-long circulating desferrioxamine based polymeric iron chelator. <i>Biomaterials</i> , 2016, 102, 58-71.	11.4	42
76	Choline phosphate functionalized cellulose membrane: A potential hemostatic dressing based on a unique bioadhesion mechanism. <i>Acta Biomaterialia</i> , 2016, 40, 212-225.	8.3	30
77	Effect of Extreme Wettability on Platelet Adhesion on Metallic Implants: From Superhydrophilicity to Superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17631-17641.	8.0	91
78	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, 2203-2213.	3.8	15
79	Design Considerations for Developing Hyperbranched Polyglycerol Nanoparticles as Systemic Drug Carriers. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1089-1100.	1.1	9
80	The mechanism and modulation of complement activation on polymer grafted cells. <i>Acta Biomaterialia</i> , 2016, 31, 252-263.	8.3	8
81	Reversible hemostatic properties of sulfobetaine/quaternary ammonium modified hyperbranched polyglycerol. <i>Biomaterials</i> , 2016, 86, 42-55.	11.4	120
82	Modulation of Multivalent Protein Binding on Surfaces by Glycopolymer Brush Chemistry. <i>Methods in Molecular Biology</i> , 2016, 1367, 183-193.	0.9	0
83	Bioreducible hyperbranched polyglycerols with disulfide linkages: Synthesis and biocompatibility evaluation. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2104-2115.	2.3	13
84	Monitoring matrix metalloproteinase activity at the epidermal-dermal interface by SILAC-TRAQ-TAILS. <i>Proteomics</i> , 2015, 15, 2491-2502.	2.2	21
85	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, 1785-1795.	3.3	11
86	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, 28591-28605.	8.0	73
87	Conjugation of Aurein 2.2 to HPG Yields an Antimicrobial with Better Properties. <i>Biomacromolecules</i> , 2015, 16, 913-923.	5.4	37
88	Antibacterial Properties of hLf11 Peptide onto Titanium Surfaces: A Comparison Study Between Silanization and Surface Initiated Polymerization. <i>Biomacromolecules</i> , 2015, 16, 483-496.	5.4	110
89	Chain Length and Grafting Density Dependent Enhancement in the Hydrolysis of Ester-Linked Polymer Brushes. <i>Langmuir</i> , 2015, 31, 6463-6470.	3.5	29
90	<i>In Vivo</i> Assessment of Protease Dynamics in Cutaneous Wound Healing by Degradomics Analysis of Porcine Wound Exudates. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 354-370.	3.8	48

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91	Toward Efficient Enzymes for the Generation of Universal Blood through Structure-Guided Directed Evolution. <i>Journal of the American Chemical Society</i> , 2015, 137, 5695-5705.	13.7	53
92	Polymeric nanocarriers for the treatment of systemic iron overload. <i>Molecular and Cellular Therapies</i> , 2015, 3, 3.	0.2	37
93	Matrix Metalloproteinase 10 Degradomics in Keratinocytes and Epidermal Tissue Identifies Bioactive Substrates With Pleiotropic Functions*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 3234-3246.	3.8	33
94	Interaction of blood components with cathelicidins and their modified versions. <i>Biomaterials</i> , 2015, 69, 201-211.	11.4	20
95	Blood Components Interactions to Ionic and Nonionic Glyconanogels. <i>Biomacromolecules</i> , 2015, 16, 2990-2997.	5.4	20
96	Hyperbranched Polyglycerol as a Colloid in Cold Organ Preservation Solutions. <i>PLoS ONE</i> , 2015, 10, e0116595.	2.5	16
97	Affinity-based design of a synthetic universal reversal agent for heparin anticoagulants. <i>Science Translational Medicine</i> , 2014, 6, 260ra150.	12.4	69
98	Back Cover: <i>Macromol. Biosci.</i> 3/2014. <i>Macromolecular Bioscience</i> , 2014, 14, 451-451.	4.1	0
99	Intravenously Injected Human Apolipoprotein Aâ€ Rapidly Enters the Central Nervous System via the Choroid Plexus. <i>Journal of the American Heart Association</i> , 2014, 3, e001156.	3.7	75
100	Secretome and degradome profiling shows that Kallikreinâ€related peptidases 4, 5, 6, and 7 induce TGFÎ²â€1 signaling in ovarian cancer cells. <i>Molecular Oncology</i> , 2014, 8, 68-82.	4.6	51
101	Engineering biomaterials surfaces to modulate the host response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 124, 69-79.	5.0	49
102	Hybrid Polyglycerols with Long Blood Circulation: Synthesis, Biocompatibility, and Biodistribution. <i>Macromolecular Bioscience</i> , 2014, 14, 1469-1482.	4.1	11
103	Enhancement of biological reactions on cell surfaces via macromolecular crowding. <i>Nature Communications</i> , 2014, 5, 4683.	12.8	51
104	Modulation of Complement Activation and Amplification on Nanoparticle Surfaces by Glycopolymer Conformation and Chemistry. <i>ACS Nano</i> , 2014, 8, 7687-7703.	14.6	69
105	Polymer brush-based approaches for the development of infection-resistant surfaces. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4968.	5.8	118
106	Abnormal blood clot formation induced by temperature responsive polymers by altered fibrin polymerization and platelet binding. <i>Biomaterials</i> , 2014, 35, 2518-2528.	11.4	21
107	The size-dependent efficacy and biocompatibility of hyperbranched polyglycerol in peritoneal dialysis. <i>Biomaterials</i> , 2014, 35, 1378-1389.	11.4	38
108	Nontoxic polyphosphate inhibitors reduce thrombosis while sparing hemostasis. <i>Blood</i> , 2014, 124, 3183-3190.	1.4	77

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109	Clinically Approved Iron Chelators Influence Zebrafish Mortality, Hatching Morphology and Cardiac Function. PLoS ONE, 2014, 9, e109880.	2.5	19
110	Biodegradable polyglycerols with randomly distributed ketal groups as multi-functional drug delivery systems. Biomaterials, 2013, 34, 6068-6081.	11.4	49
111	Multilayered coating on titanium for controlled release of antimicrobial peptides for the prevention of implant-associated infections. Biomaterials, 2013, 34, 5969-5977.	11.4	296
112	Linear and hyperbranched phosphorylcholine based homopolymers for blood biocompatibility. Polymer Chemistry, 2013, 4, 3140.	3.9	25
113	Therapeutic Cells via Functional Modification: Influence of Molecular Properties of Polymer Grafts on In Vivo Circulation, Clearance, Immunogenicity, and Antigen Protection. Biomacromolecules, 2013, 14, 2052-2062.	5.4	20
114	Lectin Interactions on Surface-Grafted Glycostructures: Influence of the Spatial Distribution of Carbohydrates on the Binding Kinetics and Rupture Forces. Analytical Chemistry, 2013, 85, 7786-7793.	6.5	34
115	Design of Long Circulating Nontoxic Dendritic Polymers for the Removal of Iron <i>in Vivo</i> . ACS Nano, 2013, 7, 10704-10716.	14.6	70
116	Hyperbranched Polyglycerol is an Efficacious and Biocompatible Novel Osmotic Agent in a Rodent Model of Peritoneal Dialysis. Peritoneal Dialysis International, 2013, 33, 15-27.	2.3	33
117	Solvent-assisted anionic ring opening polymerization of glycidol: Toward medium and high molecular weight hyperbranched polyglycerols. Journal of Polymer Science Part A, 2013, 51, 2614-2621.	2.3	38
118	Antigens Protected Functional Red Blood Cells By The Membrane Grafting Of Compact Hyperbranched Polyglycerols. Journal of Visualized Experiments, 2013, , .	0.3	5
119	Use of Molecular Dynamics for the Refinement of an Electrostatic Model for the In Silico Design of a Polymer Antidote for the Anticoagulant Fondaparinux. Journal of Medical Engineering, 2013, 2013, 1-11.	1.1	0
120	Synthesis of Glycocalyx-Mimetic Surfaces and Their Specific and Nonspecific Interactions with Proteins and Blood. ACS Symposium Series, 2012, , 577-603.	0.5	0
121	Hyperbranched Glycopolymers for Blood Biocompatibility. Bioconjugate Chemistry, 2012, 23, 1050-1058.	3.6	67
122	Branched Multifunctional Polyether Polyketals: Variation of Ketal Group Structure Enables Unprecedented Control over Polymer Degradation in Solution and within Cells. Journal of the American Chemical Society, 2012, 134, 14945-14957.	13.7	97
123	Synthesis, Characterization, and Biocompatibility of Biodegradable Hyperbranched Polyglycerols from Acid-Cleavable Ketal Group Functionalized Initiators. Biomacromolecules, 2012, 13, 3018-3030.	5.4	37
124	Influence of architecture of high molecular weight linear and branched polyglycerols on their biocompatibility and biodistribution. Biomaterials, 2012, 33, 9135-9147.	11.4	132
125	Influence of polymer architecture on antigens camouflage, CD47 protection and complement mediated lysis of surface grafted red blood cells. Biomaterials, 2012, 33, 7871-7883.	11.4	28
126	Carbohydrate Structure Dependent Hemocompatibility of Biomimetic Functional Polymer Brushes on Surfaces. Advanced Healthcare Materials, 2012, 1, 199-213.	7.6	37

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127	Polyvalent choline phosphate as a universal biomembrane adhesive. <i>Nature Materials</i> , 2012, 11, 468-476.	27.5	154
128	Biomembrane Interactions Reveal the Mechanism of Action of Surface-Immobilized Host Defense IDR-1010 Peptide. <i>Chemistry and Biology</i> , 2012, 19, 199-209.	6.0	41
129	InÂvivo circulation, clearance, and biodistribution of polyglycerol grafted functional red blood cells. <i>Biomaterials</i> , 2012, 33, 3047-3057.	11.4	46
130	A Long Acting Polymeric Iron Chelator for the Treatment of Transfusion Associated Iron Overload. <i>Blood</i> , 2012, 120, 486-486.	1.4	0
131	Development of Soluble Ester-Linked Aldehyde Polymers for Proteomics. <i>Analytical Chemistry</i> , 2011, 83, 6500-6510.	6.5	9
132	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, 3715-3727.	5.4	132
133	Identifying and quantifying proteolytic events and the natural N terminome by terminal amine isotopic labeling of substrates. <i>Nature Protocols</i> , 2011, 6, 1578-1611.	12.0	291
134	Synthesis and Characterization of Carboxylic Acid Conjugated, Hydrophobically Derivatized, Hyperbranched Polyglycerols as Nanoparticulate Drug Carriers for Cisplatin. <i>Biomacromolecules</i> , 2011, 12, 145-155.	5.4	72
135	The biocompatibility and biofilm resistance of implant coatings based on hydrophilic polymer brushes conjugated with antimicrobial peptides. <i>Biomaterials</i> , 2011, 32, 3899-3909.	11.4	351
136	Bending and Stretching Actuation of Soft Materials through Surface-Initiated Polymerization. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5116-5119.	13.8	25
137	Iron Chelating Macromolecules for Intravascular Iron Chelation Therapy. <i>ACS Symposium Series</i> , 2010, , 103-112.	0.5	0
138	The influence of poly-N-[(2,2-dimethyl-1,3-dioxolane)methyl]acrylamide onÂfibrin polymerization, cross-linking and clot structure. <i>Biomaterials</i> , 2010, 31, 5749-5758.	11.4	19
139	The induction of thrombus generation on nanostructured neutral polymer brush surfaces. <i>Biomaterials</i> , 2010, 31, 6710-6718.	11.4	56
140	A silicone-based microfluidic chip grafted with carboxyl functionalized hyperbranched polyglycerols for selective protein capture. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 199-209.	2.2	19
141	Inhibitory Effect of Hydrophilic Polymer Brushes on Surface-Induced Platelet Activation and Adhesion. <i>Macromolecular Bioscience</i> , 2010, 10, 1432-1443.	4.1	25
142	Red blood cell membrane grafting of multi-functional hyperbranched polyglycerols. <i>Biomaterials</i> , 2010, 31, 4167-4178.	11.4	79
143	Isotopic labeling of terminal amines in complex samples identifies protein N-termini and protease cleavage products. <i>Nature Biotechnology</i> , 2010, 28, 281-288.	17.5	510
144	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, .	0.8	3

#	ARTICLE	IF	CITATIONS
145	Enhanced Cell Surface Polymer Grafting in Concentrated and Nonreactive Aqueous Polymer Solutions. <i>Journal of the American Chemical Society</i> , 2010, 132, 3423-3430.	13.7	60
146	Nonbiofouling Polymer Brush with Latent Aldehyde Functionality as a Template for Protein Micropatterning. <i>Biomacromolecules</i> , 2010, 11, 284-293.	5.4	25
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164	Synthesis and characterization of well-defined hydrophilic block copolymer brushes by aqueous ATRP. <i>Polymer</i> , 2004, 45, 7471-7489.	3.8	54
165	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, 8468-8475.	3.5	25
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