Matthew Gibson

List of Publications by Year
in descending order

168 papers	10,033 citations	34493 54 h-index	48101 92 g-index
177 all docs	177 docs citations	177 times ranked	11384 citing authors

#	Article	IF	Citations
1	Red Blood Cell Cryopreservation with Minimal Post-Thaw Lysis Enabled by a Synergistic Combination of a Cryoprotecting Polyampholyte with DMSO/Trehalose. Biomacromolecules, 2022, 23, 467-477.	2.6	21
2	Lateral Flow Glycoâ€Assays for the Rapid and Lowâ€Cost Detection of Lectinsâ€"Polymeric Linkers and Particle Engineering Are Essential for Selectivity and Performance. Advanced Healthcare Materials, 2022, 11, e2101784.	3.9	10
3	End-Functionalized Poly(vinylpyrrolidone) for Ligand Display in Lateral Flow Device Test Lines. ACS Polymers Au, 2022, 2, 69-79.	1.7	5
4	Natural and Synthetic Macromolecules That Interact with Ice. Biomacromolecules, 2022, 23, 465-466.	2.6	1
5	Plasmonic Detection of SARS-CoV-2 Spike Protein with Polymer-Stabilized Glycosylated Gold Nanorods. ACS Macro Letters, 2022, 11, 317-322.	2.3	20
6	Ice Recrystallization Inhibition by Amino Acids: The Curious Case of Alpha- and Beta-Alanine. Journal of Physical Chemistry Letters, 2022, 13, 2237-2244.	2.1	17
7	A mechanistic understanding of polyethylene biodegradation by the marine bacterium Alcanivorax. Journal of Hazardous Materials, 2022, 436, 129278.	6.5	34
8	Minimalistic ice recrystallisation inhibitors based on phenylalanine. Chemical Communications, 2022, 58, 7658-7661.	2.2	9
9	Degradable Polyampholytes from Radical Ring-Opening Copolymerization Enhance Cellular Cryopreservation. ACS Macro Letters, 2022, 11, 889-894.	2.3	12
10	Chemical approaches to cryopreservation. Nature Reviews Chemistry, 2022, 6, 579-593.	13.8	81
11	Introducing affinity and selectivity into galectin-targeting nanoparticles with fluorinated glycan ligands. Chemical Science, 2021, 12, 905-910.	3.7	21
12	Proline pre-conditioning of cell monolayers increases post-thaw recovery and viability by distinct mechanisms to other osmolytes. RSC Medicinal Chemistry, 2021, 12, 982-993.	1.7	9
13	Covalent cell surface recruitment of chemotherapeutic polymers enhances selectivity and activity. Chemical Science, 2021, 12, 4557-4569.	3.7	6
14	The polymeric glyco-linker controls the signal outputs for plasmonic gold nanorod biosensors due to biocorona formation. Nanoscale, 2021, 13, 10837-10848.	2.8	14
15	The atomistic details of the ice recrystallisation inhibition activity of PVA. Nature Communications, 2021, 12, 1323.	5.8	62
16	Physicochemical Approach to Understanding the Structure, Conformation, and Activity of Mannan Polysaccharides. Biomacromolecules, 2021, 22, 1445-1457.	2.6	25
17	A minimalistic cyclic ice-binding peptide from phage display. Nature Communications, 2021, 12, 2675.	5.8	26
18	Polymer Self-Assembly Induced Enhancement of Ice Recrystallization Inhibition. Journal of the American Chemical Society, 2021, 143, 7449-7461.	6.6	57

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19	A multi-OMIC characterisation of biodegradation and microbial community succession within the PET plastisphere. Microbiome, 2021, 9, 141.	4.9	49
20	Understanding selectivity of metabolic labelling and click-targeting in multicellular environments as a route to tissue selective drug delivery. Journal of Materials Chemistry B, 2021, 9, 5365-5373.	2.9	3
21	Glycan-Based Flow-Through Device for the Detection of SARS-COV-2. ACS Sensors, 2021, 6, 3696-3705.	4.0	17
22	Characterization of Gold Nanorods Conjugated with Synthetic Glycopolymers Using an Analytical Approach Based on spICP-SFMS and EAF4-MALS. Nanomaterials, 2021, 11, 2720.	1.9	2
23	Toward Glycomaterials with Selectivity as Well as Affinity. Jacs Au, 2021, 1, 2089-2099.	3.6	15
24	Polymer-Mediated Cryopreservation of Bacteriophages. Biomacromolecules, 2021, 22, 5281-5289.	2.6	8
25	Polyampholytes as Emerging Macromolecular Cryoprotectants. Biomacromolecules, 2020, 21, 7-17.	2.6	68
26	Early Colonization of Weathered Polyethylene by Distinct Bacteria in Marine Coastal Seawater. Microbial Ecology, 2020, 79, 517-526.	1.4	96
27	â€œTuning aggregative<i>versus</i>non-aggregative lectin binding with glycosylated nanoparticles by the nature of the polymer ligandâ€• Journal of Materials Chemistry B, 2020, 8, 136-145.	2.9	24
28	Plasticizer Degradation by Marine Bacterial Isolates: A Proteogenomic and Metabolomic Characterization. Environmental Science & Technology, 2020, 54, 2244-2256.	4.6	97
29	Ice recrystallisation inhibiting polymers prevent irreversible protein aggregation during solvent-free cryopreservation as additives and as covalent polymer-protein conjugates. European Polymer Journal, 2020, 140, 110036.	2.6	14
30	Developing immune-regulatory materials using immobilized monosaccharides with immune-instructive properties. Materials Today Bio, 2020, 8, 100080.	2.6	5
31	Protecting Group Free Synthesis of Glyconanoparticles Using Aminoâ€“Oxy-Terminated Polymer Ligands. Bioconjugate Chemistry, 2020, 31, 2392-2403.	1.8	3
32	The SARS-COV-2 Spike Protein Binds Sialic Acids and Enables Rapid Detection in a Lateral Flow Point of Care Diagnostic Device. ACS Central Science, 2020, 6, 2046-2052.	5.3	222
33	Low DMSO Cryopreservation of Stem Cells Enabled by Macromolecular Cryoprotectants. ACS Applied Bio Materials, 2020, 3, 5627-5632.	2.3	20
34	Ice recrystallisation inhibiting polymer nano-objects <i>via</i> saline-tolerant polymerisation-induced self-assembly. Materials Horizons, 2020, 7, 1883-1887.	6.4	20
35	Post-Thaw Culture and Measurement of Total Cell Recovery Is Crucial in the Evaluation of New Macromolecular Cryoprotectants. Biomacromolecules, 2020, 21, 2864-2873.	2.6	51
36	Polymer-Stabilized Sialylated Nanoparticles: Synthesis, Optimization, and Differential Binding to Influenza Hemagglutinins. Biomacromolecules, 2020, 21, 1604-1612.	2.6	25

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37	100th Anniversary of Macromolecular Science Viewpoint: Re-Engineering Cellular Interfaces with Synthetic Macromolecules Using Metabolic Glycan Labeling. ACS Macro Letters, 2020, 9, 991-1003.	2.3	14
38	Combinatorial Biomaterials Discovery Strategy to Identify New Macromolecular Cryoprotectants. ACS Macro Letters, 2020, 9, 290-294.	2.3	31
39	Beyond oil degradation: enzymatic potential of <i>Alcanivorax</i> to degrade natural and synthetic polyesters. Environmental Microbiology, 2020, 22, 1356-1369.	1.8	53
40	X-ray diffraction to probe the kinetics of ice recrystallization inhibition. Analyst, The, 2020, 145, 3666-3677.	1.7	13
41	Joint Forces of HR-Spicp-MS and EAF4-MALS for Characterization of Gold Nanorods Conjugated with Synthetic Glycopolymers. Materials Proceedings, 2020, 4, .	0.2	0
42	Multivalent Presentation of Ice Recrystallization Inhibiting Polymers on Nanoparticles Retains Activity. Langmuir, 2019, 35, 7347-7353.	1.6	30
43	Enhancement of Macromolecular Ice Recrystallization Inhibition Activity by Exploiting Depletion Forces. ACS Macro Letters, 2019, 8, 1063-1067.	2.3	19
44	Synthesis of Anthracene Conjugates of Truncated Antifreeze Protein Sequences: Effect of the End Group and Photocontrolled Dimerization on Ice Recrystallization Inhibition Activity. Biomacromolecules, 2019, 20, 4611-4621.	2.6	7
45	Extracellular Antifreeze Protein Significantly Enhances the Cryopreservation of Cell Monolayers. Biomacromolecules, 2019, 20, 3864-3872.	2.6	51
46	High-Throughput Tertiary Amine Deoxygenated Photopolymerizations for Synthesizing Polymer Libraries. Macromolecules, 2019, 52, 7603-7612.	2.2	31
47	Site-specific conjugation of antifreeze proteins onto polymer-stabilized nanoparticles. Polymer Chemistry, 2019, 10, 2986-2990.	1.9	21
48	Ice-recrystallization inhibiting polymers protect proteins against freeze-stress and enable glycerol-free cryostorage. Materials Horizons, 2019, 6, 364-368.	6.4	54
49	Synthetically Scalable Poly(ampholyte) Which Dramatically Enhances Cellular Cryopreservation. Biomacromolecules, 2019, 20, 3104-3114.	2.6	40
50	Optimization and Stability of Cellâ€"Polymer Hybrids Obtained by â€œClickingâ€•Synthetic Polymers to Metabolically Labeled Cell Surface Glycans. Biomacromolecules, 2019, 20, 2726-2736.	2.6	28
51	Understanding microbial community dynamics to improve optimal microbiome selection. Microbiome, 2019, 7, 85.	4.9	233
52	Mimicking the Ice Recrystallization Activity of Biological Antifreezes. When is a New Polymer â€œActiveâ€?. Macromolecular Bioscience, 2019, 19, e1900082.	2.1	95
53	Targeting extracellular glycans: tuning multimeric boronic acids for pathogen-selective killing of <i>Mycobacterium tuberculosis</i>. Chemical Science, 2019, 10, 5935-5942.	3.7	16
54	Distribution of plastic polymer types in the marine environment; A meta-analysis. Journal of Hazardous Materials, 2019, 369, 691-698.	6.5	508

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55	Solvent-Free Cryostorage of Microorganisms using Ice Growth Inhibiting Polymers. Biophysical Journal, 2019, 116, 295a.	0.2	1
56	Dimeric benzoboroxoles for targeted activity against <i>Mycobacterium tuberculosis</i>. Organic and Biomolecular Chemistry, 2019, 17, 9524-9528.	1.5	9
57	Comparison of systematically functionalized heterogeneous and homogenous glycopolymers as toxin inhibitors. Journal of Polymer Science Part A, 2019, 57, 40-47.	2.5	12
58	Photo-polymerisation and study of the ice recrystallisation inhibition of hydrophobically modified poly(vinyl pyrrolidone) co-polymers. European Polymer Journal, 2019, 110, 330-336.	2.6	11
59	Facially Amphipathic Glycopolymers Inhibit Ice Recrystallization. Journal of the American Chemical Society, 2018, 140, 5682-5685.	6.6	84
60	Triggerable Multivalent Glyconanoparticles for Probing Carbohydrateâ€“Carbohydrate Interactions. ACS Macro Letters, 2018, 7, 178-183.	2.3	23
61	Multivalent Antimicrobial Polymer Nanoparticles Target Mycobacteria and Gram-Negative Bacteria by Distinct Mechanisms. Biomacromolecules, 2018, 19, 256-264.	2.6	60
62	Double-Modified Glycopolymers from Thiolactones to Modulate Lectin Selectivity and Affinity. ACS Macro Letters, 2018, 7, 1498-1502.	2.3	27
63	Engineering Cell Surfaces by Covalent Grafting of Synthetic Polymers to Metabolically-Labeled Glycans. ACS Macro Letters, 2018, 7, 1289-1294.	2.3	23
64	Confinement of Therapeutic Enzymes in Selectively Permeable Polymer Vesicles by Polymerization-Induced Self-Assembly (PISA) Reduces Antibody Binding and Proteolytic Susceptibility. ACS Central Science, 2018, 4, 718-723.	5.3	181
65	Ice Recrystallization Inhibiting Polymers Enable Glycerol-Free Cryopreservation of Microorganisms. Biomacromolecules, 2018, 19, 3371-3376.	2.6	61
66	Photoinitiated Polymerization-Induced Self-Assembly in the Presence of Surfactants Enables Membrane Protein Incorporation into Vesicles. Macromolecules, 2018, 51, 6190-6201.	2.2	63
67	Photochemical â€œInâ€Airâ€•Combinatorial Discovery of Antimicrobial Coâ€polymers. Chemistry - A European Journal, 2018, 24, 13758-13761.	1.7	41
68	Sub-zero temperature mechanically stable low molecular weight hydrogels. Journal of Materials Chemistry B, 2018, 6, 7274-7279.	2.9	10
69	Externally controllable glycan presentation on nanoparticle surfaces to modulate lectin recognition. Nanoscale Horizons, 2017, 2, 106-109.	4.1	31
70	Comparison of RAFTâ€derived poly(vinylpyrrolidone) verses poly(oligoethyleneglycol methacrylate) for the stabilization of glycosylated gold nanoparticles. Journal of Polymer Science Part A, 2017, 55, 1200-1208.	2.5	5
71	Gold nanoparticle interactions with endothelial cells cultured under physiological conditions. Biomaterials Science, 2017, 5, 707-717.	2.6	19
72	Identification of the antiâ€mycobacterial functional properties of piperidinol derivatives. British Journal of Pharmacology, 2017, 174, 2183-2193.	2.7	9

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73	Synthesis of star-branched poly(vinyl alcohol) and ice recrystallization inhibition activity. European Polymer Journal, 2017, 88, 320-327.	2.6	15
74	Comparison of photo- and thermally initiated polymerization-induced self-assembly: a lack of end group fidelity drives the formation of higher order morphologies. Polymer Chemistry, 2017, 8, 2860-2871.	1.9	140
75	Dispersity effects in polymer self-assemblies: a matter of hierarchical control. Chemical Society Reviews, 2017, 46, 4119-4134.	18.7	136
76	Evaluation of the Antimicrobial Activity of Cationic Polymers against Mycobacteria: Toward Antitubercular Macromolecules. Biomacromolecules, 2017, 18, 1592-1599.	2.6	70
77	Regioregular Alternating Polyampholytes Have Enhanced Biomimetic Ice Recrystallization Activity Compared to Random Copolymers and the Role of Side Chain versus Main Chain Hydrophobicity. Biomacromolecules, 2017, 18, 295-302.	2.6	57
78	Permeable Protein-Loaded Polymersome Cascade Nanoreactors by Polymerization-Induced Self-Assembly. ACS Macro Letters, 2017, 6, 1263-1267.	2.3	193
79	Polyproline as a Minimal Antifreeze Protein Mimic That Enhances the Cryopreservation of Cell Monolayers. Angewandte Chemie - International Edition, 2017, 56, 15941-15944.	7.2	89
80	Ultralow Dispersity Poly(vinyl alcohol) Reveals Significant Dispersity Effects on Ice Recrystallization Inhibition Activity. ACS Macro Letters, 2017, 6, 1001-1004.	2.3	23
81	Antifreeze Protein Mimetic Metallohelices with Potent Ice Recrystallization Inhibition Activity. Journal of the American Chemical Society, 2017, 139, 9835-9838.	6.6	73
82	Impact of sequential surface-modification of graphene oxide on ice nucleation. Physical Chemistry Chemical Physics, 2017, 19, 21929-21932.	1.3	20
83	Synthesis of Degradable Poly(vinyl alcohol) by Radical Ring-Opening Copolymerization and Ice Recrystallization Inhibition Activity. ACS Macro Letters, 2017, 6, 1404-1408.	2.3	45
84	Polymer mimics of biomacromolecular antifreezes. Nature Communications, 2017, 8, 1546.	5.8	178
85	Lost, but Found with Nile Red: A Novel Method for Detecting and Quantifying Small Microplastics (1) Tj ETQq1 1 0.784314 rgBT /Overlo	4.6	519
86	Structural characterization of an all-aminosugar-containing capsular polysaccharide from Colwellia psychrerythraea 34H. Antonie Van Leeuwenhoek, 2017, 110, 1377-1387.	0.7	26
87	Decoration of Chondroitin Polysaccharide with Threonine: Synthesis, Conformational Study, and Ice-Recrystallization Inhibition Activity. Biomacromolecules, 2017, 18, 2267-2276.	2.6	14
88	Probing the causes of thermal hysteresis using tunable N_{agg} micelles with linear and brush-like thermoresponsive coronas. Polymer Chemistry, 2017, 8, 233-244.	1.9	22
89	Structure-activity relationship of the exopolysaccharide from a psychrophilic bacterium: A strategy for cryoprotection. Carbohydrate Polymers, 2017, 156, 364-371.	5.1	83
90	Polyproline as a Minimal Antifreeze Protein Mimic That Enhances the Cryopreservation of Cell Monolayers. Angewandte Chemie, 2017, 129, 16157-16160.	1.6	15

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91	From ice to bugs: polymers and sugars to address healthcare challenges. Future Science OA, 2016, 2, FSO131.	0.9	1
92	Combining Biomimetic Block Copolymer Worms with an Iceâ€Inhibiting Polymer for the Solventâ€Free Cryopreservation of Red Blood Cells. Angewandte Chemie, 2016, 128, 2851-2854.	1.6	23
93	Glycan heterogeneity on gold nanoparticles increases lectin discrimination capacity in label-free multiplexed bioassays. Analyst, The, 2016, 141, 4305-4312.	1.7	36
94	Enhanced non-vitreous cryopreservation of immortalized and primary cells by ice-growth inhibiting polymers. Biomaterials Science, 2016, 4, 1079-1084.	2.6	41
95	Influence of Block Copolymerization on the Antifreeze Protein Mimetic Ice Recrystallization Inhibition Activity of Poly(vinyl alcohol). Biomacromolecules, 2016, 17, 3033-3039.	2.6	26
96	Impact of polymer-modified gold nanoparticles on brain endothelial cells: exclusion of endoplasmic reticulum stress as a potential risk factor. Nanotoxicology, 2016, 10, 1341-1350.	1.6	21
97	â€œGrafting toâ€•of RAFTed Responsive Polymers to Glass Substrates by Thiolâ€“Ene and Critical Comparison to Thiolâ€“Gold Coupling. Biomacromolecules, 2016, 17, 2626-2633.	2.6	29
98	Coating the Flu with Sticky Polymers to Look for New Drugs. ACS Central Science, 2016, 2, 682-684.	5.3	0
99	Co-operative transitions of responsive-polymer coated gold nanoparticles; precision tuning and direct evidence for co-operative aggregation. Journal of Materials Chemistry B, 2016, 4, 5673-5682.	2.9	17
100	Discrimination between bacterial species by ratiometric analysis of their carbohydrate binding profile. Molecular BioSystems, 2016, 12, 341-344.	2.9	8
101	Combining Biomimetic Block Copolymer Worms with an Iceâ€Inhibiting Polymer for the Solventâ€Free Cryopreservation of Red Blood Cells. Angewandte Chemie - International Edition, 2016, 55, 2801-2804.	7.2	111
102	Activation of ice recrystallization inhibition activity of poly(vinyl alcohol) using a supramolecular trigger. Polymer Chemistry, 2016, 7, 1701-1704.	1.9	26
103	Glycosylated gold nanoparticle libraries for label-free multiplexed lectin biosensing. Journal of Materials Chemistry B, 2016, 4, 3046-3053.	2.9	43
104	Multivalent Glycopolymer-Coated Gold Nanoparticles. Methods in Molecular Biology, 2016, 1367, 169-179.	0.4	6
105	Gold Nanoparticle Aggregation as a Probe of Antifreeze (Glyco) Protein-Inspired Ice Recrystallization Inhibition and Identification of New IRI Active Macromolecules. Scientific Reports, 2015, 5, 15716.	1.6	20
106	Thermoresponsive, well-defined, poly(vinyl alcohol) co-polymers. Polymer Chemistry, 2015, 6, 4749-4757.	1.9	47
107	Glycerol-Free Cryopreservation of Red Blood Cells Enabled by Ice-Recrystallization-Inhibiting Polymers. ACS Biomaterials Science and Engineering, 2015, 1, 789-794.	2.6	74
108	Discrimination between lectins with similar specificities by ratiometric profiling of binding to glycosylated surfaces; a chemical â€˜tongueâ€™ approach. RSC Advances, 2015, 5, 53911-53914.	1.7	16

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109	Thiolâ€“ene immobilisation of carbohydrates onto glass slides as a simple alternative to goldâ€“thiol monolayers, amines or lipid binding. Biomaterials Science, 2015, 3, 175-181.	2.6	16
110	Rational, yet simple, design and synthesis of an antifreeze-protein inspired polymer for cellular cryopreservation. Chemical Communications, 2015, 51, 12977-12980.	2.2	69
111	Diversely functionalised carbohydrate-centered oligomers and polymers. Thermoresponsivity, lectin binding and degradability. European Polymer Journal, 2015, 62, 352-362.	2.6	4
112	Using molecular rotors to probe gelation. Soft Matter, 2015, 11, 3706-3713.	1.2	27
113	Effect of Micellization on the Thermoresponsive Behavior of Polymeric Assemblies. ACS Macro Letters, 2015, 4, 1210-1214.	2.3	26
114	Deuterated carbohydrate probes as â€˜label-freeâ€™ substrates for probing nutrient uptake in mycobacteria by nuclear reaction analysis. Chemical Communications, 2015, 51, 4838-4841.	2.2	10
115	Latent Ice Recrystallization Inhibition Activity in Nonantifreeze Proteins: Ca²⁺-Activated Plant Lectins and Cation-Activated Antimicrobial Peptides. Biomacromolecules, 2015, 16, 3411-3416.	2.6	29
116	One-step grafting of polymers to graphene oxide. Polymer Chemistry, 2015, 6, 8270-8274.	1.9	34
117	Probing the Biomimetic Ice Nucleation Inhibition Activity of Poly(vinyl alcohol) and Comparison to Synthetic and Biological Polymers. Biomacromolecules, 2015, 16, 2820-2826.	2.6	35
118	Enzymatically Triggered, Isothermally Responsive Polymers: Reprogramming Poly(oligoethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	2.6	13
119	Synthesis and characterisation of glucose-functional glycopolymers and gold nanoparticles: study of their potential interactions with ovine red blood cells. Carbohydrate Research, 2015, 405, 47-54.	1.1	24
120	Towards being genuinely smart: â€˜isothermally-responsiveâ€™ polymers as versatile, programmable scaffolds for biologically-adaptable materials. Polymer Chemistry, 2015, 6, 1033-1043.	1.9	42
121	Siderophore-inspired nanoparticle-based biosensor for the selective detection of Fe³⁺. Journal of Materials Chemistry B, 2015, 3, 270-275.	2.9	21
122	Selective detection of epimeric pentose saccharides at physiological pH using a fluorescent receptor. Carbohydrate Research, 2014, 391, 61-65.	1.1	1
123	Synthetic polymers enable non-vitreous cellular cryopreservation by reducing ice crystal growth during thawing. Nature Communications, 2014, 5, 3244.	5.8	242
124	Quantitative study on the antifreeze protein mimetic ice growth inhibition properties of poly(ampholytes) derived from vinyl-based polymers. Biomaterials Science, 2014, 2, 1787-1795.	2.6	47
125	Isothermally-Responsive Polymers Triggered by Selective Binding of Fe³⁺ to Siderophoric Catechol End-Groups. ACS Macro Letters, 2014, 3, 1225-1229.	2.3	25
126	Glutathione-triggered disassembly of isothermally responsive polymer nanoparticles obtained by nanoprecipitation of hydrophilic polymers. Polymer Chemistry, 2014, 5, 126-131.	1.9	27

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127	Glycopolymer-coated gold nanorods synthesised by a one pot copper(0) catalyzed tandem RAFT/click reaction. Polymer Chemistry, 2014, 5, 2326.	1.9	43
128	Discrimination between bacterial phenotypes using glyco-nanoparticles and the impact of polymer coating on detection readouts. Journal of Materials Chemistry B, 2014, 2, 1490-1498.	2.9	51
129	Optimization of the Polymer Coating for Glycosylated Gold Nanoparticle Biosensors to Ensure Stability and Rapid Optical Readouts. ACS Macro Letters, 2014, 3, 1004-1008.	2.3	54
130	Glycopolymers with secondary binding motifs mimic glycan branching and display bacterial lectin selectivity in addition to affinity. Chemical Science, 2014, 5, 1611-1616.	3.7	69
131	Oxidized polyethylene films for orienting polar molecules for linear dichroism spectroscopy. Analyst, The, 2014, 139, 1372-1382.	1.7	20
132	Redox-Sensitive Materials for Drug Delivery: Targeting the Correct Intracellular Environment, Tuning Release Rates, and Appropriate Predictive Systems. Antioxidants and Redox Signaling, 2014, 21, 786-803.	2.5	69
133	Gold nanoparticle-linked analysis of carbohydrateâ€“protein interactions, and polymeric inhibitors, using unlabelled proteins; easy measurements using a â€˜simpleâ€™ digital camera. Journal of Materials Chemistry B, 2013, 1, 2665.	2.9	20
134	Poly(azlactone)s: versatile scaffolds for tandem post-polymerisation modification and glycopolymer synthesis. Polymer Chemistry, 2013, 4, 717-723.	1.9	38
135	To aggregate, or not to aggregate? considerations in the design and application of polymeric thermally-responsive nanoparticles. Chemical Society Reviews, 2013, 42, 7204-7213.	18.7	172
136	Uptake of poly(2-hydroxypropylmethacrylamide)-coated gold nanoparticles in microvascular endothelial cells and transport across the bloodâ€“brain barrier. Biomaterials Science, 2013, 1, 824.	2.6	30
137	Antifreeze (Glyco)protein Mimetic Behavior of Poly(vinyl alcohol): Detailed Structure Ice Recrystallization Inhibition Activity Study. Biomacromolecules, 2013, 14, 1578-1586.	2.6	187
138	Ice recrystallisation inhibition by polyols: comparison of molecular and macromolecular inhibitors and role of hydrophobic units. Biomaterials Science, 2013, 1, 478.	2.6	56
139	â€œIsothermalâ€• LCST transitions triggered by bioreduction of single polymer end-groups. Chemical Communications, 2013, 49, 4223-4225.	2.2	30
140	Molecular Sieving on the Surface of a Protein Provides Protection Without Loss of Activity. Advanced Functional Materials, 2013, 23, 2007-2015.	7.8	43
141	Fast three-dimensional imaging of gold nanoparticles in living cells with photothermal optical lock-in Optical Coherence Microscopy. Optics Express, 2012, 20, 21385.	1.7	65
142	Degradable thermoresponsive polymers which display redox-responsive LCST Behaviour. Chemical Communications, 2012, 48, 1054-1056.	2.2	76
143	Uptake and cytotoxicity of citrate-coated gold nanospheres: Comparative studies on human endothelial and epithelial cells. Particle and Fibre Toxicology, 2012, 9, 23.	2.8	130
144	Biodegradable Poly(disulfide)s Derived from RAFT Polymerization: Monomer Scope, Glutathione Degradation, and Tunable Thermal Responses. Biomacromolecules, 2012, 13, 3200-3208.	2.6	57

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145	Polymers with molecular weight dependent LCSTs are essential for cooperative behaviour. Polymer Chemistry, 2012, 3, 794.	1.9	80
146	Highly efficient disulfide bridging polymers for bioconjugates from radical-compatible dithiophenol maleimides. Chemical Communications, 2012, 48, 4064.	2.2	58
147	Polymeric Dibromomaleimides As Extremely Efficient Disulfide Bridging Bioconjugation and Pegylation Agents. Journal of the American Chemical Society, 2012, 134, 1847-1852.	6.6	143
148	Size- and Coating-Dependent Uptake of Polymer-Coated Gold Nanoparticles in Primary Human Dermal Microvascular Endothelial Cells. Biomacromolecules, 2012, 13, 1533-1543.	2.6	114
149	Exploiting Thermoresponsive Polymers to Modulate Lipophilicity: Interactions With Model Membranes. Macromolecular Rapid Communications, 2012, 33, 779-784.	2.0	13
150	Investigation of glycopolymerâ€"lectin interactions using QCM-d: comparison of surface binding with inhibitory activity. Polymer Chemistry, 2012, 3, 1634.	1.9	25
151	Probing Bacterialâ€Toxin Inhibition with Synthetic Glycopolymers Prepared by Tandem Postâ€Polymerization Modification: Role of Linker Length and Carbohydrate Density. Angewandte Chemie - International Edition, 2012, 51, 7812-7816.	7.2	119
152	Sequentially Modified, Polymer-Stabilized Gold Nanoparticle Libraries: Convergent Synthesis and Aggregation Behavior. ACS Combinatorial Science, 2011, 13, 286-297.	3.8	41
153	Side-Chain Peptide-Synthetic Polymer Conjugates via Tandem â€œEster-Amide/Thiolâ€"Eneâ€• Post-Polymerization Modification of Poly(pentafluorophenyl methacrylate) Obtained Using ATRP. Biomacromolecules, 2011, 12, 2908-2913.	2.6	95
154	Optimised â€˜clickâ€™ synthesis of glycopolymers with mono/di- and trisaccharides. Polymer Chemistry, 2011, 2, 107-113.	1.9	61
155	Tunable thermo-responsive polymerâ€"protein conjugates via a combination of nucleophilic thiolâ€"ene â€œclickâ€• and SET-LRP. Polymer Chemistry, 2011, 2, 572-574.	1.9	83
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163	Experimentally facile controlled polymerization of <i>N</i>â€carboxyanhydrides (NCAs), including <i>O</i>â€benzylâ€<scp>L</scp>â€threonine NCA. Journal of Polymer Science Part A, 2009, 47, 2882-2891.	2.5	34
164	Postpolymerization modification of poly(pentafluorophenyl methacrylate): Synthesis of a diverse waterâ€soluble polymer library. Journal of Polymer Science Part A, 2009, 47, 4332-4345.	2.5	148
165	Inhibition of Ice Crystal Growth by Synthetic Glycopolymers: Implications for the Rational Design of Antifreeze Glycoprotein Mimics. Biomacromolecules, 2009, 10, 328-333.	2.6	102
166	Organogelation of Sheetâ€"Helix Diblock Copolypeptides. Angewandte Chemie - International Edition, 2008, 47, 5160-5162.	7.2	44
167	Improved synthesis of O-linked, and first synthesis of S- linked, carbohydrate functionalised N-carboxyanhydrides (glycoNCAs). Organic and Biomolecular Chemistry, 2007, 5, 2756.	1.5	35
168	Recent advances in the synthesis of well-defined glycopolymers. Journal of Polymer Science Part A, 2007, 45, 2059-2072.	2.5	226