

Laura Kiessling

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205
papers

16,055
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67
h-index

123
g-index

377
ext. papers

17,466
ext. citations

8.8
avg, IF

6.69
L-index

#	Paper	IF	Citations
205	Chemical glycobiology. <i>Science</i> , 2001 , 291, 2357-64	33.3	1558
204	Synthetic multivalent ligands as probes of signal transduction. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2348-68	16.4	706
203	Influencing receptor-ligand binding mechanisms with multivalent ligand architecture. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14922-33	16.4	588
202	Synthetic multivalent ligands in the exploration of cell-surface interactions. <i>Current Opinion in Chemical Biology</i> , 2000 , 4, 696-703	9.7	471
201	Surface plasmon resonance imaging studies of protein-carbohydrate interactions. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6140-8	16.4	435
200	Staudinger ligation: a peptide from a thioester and azide. <i>Organic Letters</i> , 2000 , 2, 1939-41	6.2	435
199	Trophoblast L-selectin-mediated adhesion at the maternal-fetal interface. <i>Science</i> , 2003 , 299, 405-8	33.3	386
198	Strength in numbers: non-natural polyvalent carbohydrate derivatives. <i>Chemistry and Biology</i> , 1996 , 3, 71-7		336
197	Control of multivalent interactions by binding epitope density. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1615-9	16.4	329
196	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018 , 14, 206-214	11.7	324
195	Probing Low Affinity and Multivalent Interactions with Surface Plasmon Resonance: Ligands for Concanavalin A. <i>Journal of the American Chemical Society</i> , 1998 , 120, 10575-10582	16.4	290
194	Varying the Size of Multivalent Ligands: The Dependence of Concanavalin A Binding on Neoglycopolymer Length. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9931-9932	16.4	271
193	Glycopolymer probes of signal transduction. <i>Chemical Society Reviews</i> , 2013 , 42, 4476-91	58.5	251
192	Recognition Specificity of Neoglycopolymers Prepared by Ring-Opening Metathesis Polymerization. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2297-2298	16.4	234
191	Inter-receptor communication through arrays of bacterial chemoreceptors. <i>Nature</i> , 2002 , 415, 81-4	50.4	229
190	A defined glycosaminoglycan-binding substratum for human pluripotent stem cells. <i>Nature Methods</i> , 2010 , 7, 989-94	21.6	214
189	Synthesis of Cell Agglutination Inhibitors by Aqueous Ring-Opening Metathesis Polymerization. <i>Journal of the American Chemical Society</i> , 1994 , 116, 12053-12054	16.4	206

188	Carbohydrate-Aromatic Interactions in Proteins. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15152-60	16.4	204
187	Selective tumor cell targeting using low-affinity, multivalent interactions. <i>ACS Chemical Biology</i> , 2007 , 2, 119-27	4.9	204
186	High-yielding Staudinger ligation of a phosphinothioester and azide to form a peptide. <i>Organic Letters</i> , 2001 , 3, 9-12	6.2	203
185	Recognition sequence design for peptidyl modulators of beta-amyloid aggregation and toxicity. <i>Biochemistry</i> , 1999 , 38, 3570-8	3.2	203
184	Structure-function relationships for inhibitors of beta-amyloid toxicity containing the recognition sequence KLVFF. <i>Biochemistry</i> , 2001 , 40, 7882-9	3.2	194
183	A General Synthetic Route to Defined, Biologically Active Multivalent Arrays. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6193-6196	16.4	190
182	Chemical approaches to glycobiology. <i>Annual Review of Biochemistry</i> , 2010 , 79, 619-53	29.1	186
181	A strategy for designing inhibitors of beta-amyloid toxicity. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29525-8	5.4	180
180	Synthesis of Sulfated Neoglycopolymers: Selective P-Selectin Inhibitors. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3161-3162	16.4	160
179	Activating B cell signaling with defined multivalent ligands. <i>ACS Chemical Biology</i> , 2007 , 2, 252-62	4.9	127
178	High-throughput discovery of synthetic surfaces that support proliferation of pluripotent cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1289-95	16.4	123
177	Synthetic ligands point to cell surface strategies. <i>Nature</i> , 1998 , 392, 30-1	50.4	123
176	Defined substrates for human embryonic stem cell growth identified from surface arrays. <i>ACS Chemical Biology</i> , 2007 , 2, 347-55	4.9	122
175	Synthetische multivalente Liganden als Sonden für die Signaltransduktion. <i>Angewandte Chemie</i> , 2006 , 118, 2408-2429	3.6	120
174	A unique catalytic mechanism for UDP-galactopyranose mutase. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 539-43	17.6	120
173	Synthesis of end-labeled multivalent ligands for exploring cell-surface-receptor-ligand interactions. <i>Chemistry and Biology</i> , 2000 , 7, 9-16		116
172	Glycosaminoglycan-binding hydrogels enable mechanical control of human pluripotent stem cell self-renewal. <i>ACS Nano</i> , 2012 , 6, 10168-77	16.7	115
171	Substratum-induced differentiation of human pluripotent stem cells reveals the coactivator YAP is a potent regulator of neuronal specification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13805-10	11.5	114

170	Recognition of all four base pairs of double-helical DNA by triple-helix formation: design of nonnatural deoxyribonucleosides for pyrimidine.cntdot.purine base pair binding. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7976-7982	16.4	113
169	Chemical probes of UDP-galactopyranose mutase. <i>Chemistry and Biology</i> , 2006 , 13, 825-37		107
168	Affinity-based inhibition of beta-amyloid toxicity. <i>Biochemistry</i> , 2002 , 41, 8620-9	3.2	105
167	General synthetic route to cell-permeable block copolymers via ROMP. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7327-33	16.4	104
166	Synthesis and applications of end-labeled neoglycopolymers. <i>Organic Letters</i> , 2002 , 4, 2293-6	6.2	102
165	Non-carbohydrate inhibitors of the lectin DC-SIGN. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12780-5	16.4	100
164	Flanking sequence effects within the pyrimidine triple-helix motif characterized by affinity cleaving. <i>Biochemistry</i> , 1992 , 31, 2829-34	3.2	100
163	Recognition of microbial glycans by human intelectin-1. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 603-10	17.6	96
162	Specificity of C-glycoside complexation by mannose/glucose specific lectins. <i>Biochemistry</i> , 1996 , 35, 3619-24	3.2	95
161	Arrays for the combinatorial exploration of cell adhesion. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10808-9	16.4	93
160	Sialylated multivalent antigens engage CD22 in trans and inhibit B cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2500-5	11.5	92
159	Conformational changes of glucose/galactose-binding protein illuminated by open, unliganded, and ultra-high-resolution ligand-bound structures. <i>Protein Science</i> , 2007 , 16, 1032-41	6.3	91
158	Neoglycopolymer inhibitors of the selectins. <i>Tetrahedron</i> , 1997 , 53, 11937-11952	2.4	89
157	A polymeric domain that promotes cellular internalization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5626-7	16.4	87
156	Inhibitors of UDP-galactopyranose mutase thwart mycobacterial growth. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6706-7	16.4	85
155	Evolutionary conservation of methyl-accepting chemotaxis protein location in Bacteria and Archaea. <i>Journal of Bacteriology</i> , 2000 , 182, 6499-502	3.5	85
154	Identification of inhibitors for UDP-galactopyranose mutase. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10532-3	16.4	84
153	Inhibition of L-selectin-mediated leukocyte rolling by synthetic glycoprotein mimics. <i>Journal of Biological Chemistry</i> , 1999 , 274, 5271-8	5.4	81

152	Classifying chemoreceptors: quantity versus quality. <i>EMBO Journal</i> , 2010 , 29, 4237-4237	13	78
151	Improved chemical synthesis of UDP-galactofuranose. <i>Organic Letters</i> , 2001 , 3, 2517-9	6.2	78
150	Tuning chemotactic responses with synthetic multivalent ligands. <i>Chemistry and Biology</i> , 2000 , 7, 583-91		78
149	Model of the interactions of calicheamicin gamma 1 with a DNA fragment from pBR322. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 1105-9	11.5	78
148	Stereoselective N-glycosylation by Staudinger ligation. <i>Organic Letters</i> , 2004 , 6, 4479-82	6.2	76
147	L-selectin-carbohydrate interactions: relevant modifications of the Lewis x trisaccharide. <i>Biochemistry</i> , 1996 , 35, 14862-7	3.2	76
146	Polyspecific pyrrolysyl-tRNA synthetases from directed evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16724-9	11.5	75
145	Cell aggregation by scaffolded receptor clusters. <i>Chemistry and Biology</i> , 2002 , 9, 163-9		75
144	Synergistic Formation of Soluble Lectin Clusters by a Templated Multivalent Saccharide Ligand. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4518-4519	16.4	72
143	Synthesis of the bicyclic core of the esperamicin/calicheamicin class of antitumor agents. <i>Journal of the American Chemical Society</i> , 1988 , 110, 631-633	16.4	72
142	Motility and chemotaxis of filamentous cells of Escherichia coli. <i>Journal of Bacteriology</i> , 2000 , 182, 4337-43	4.3	71
141	Selective immobilization of multivalent ligands for surface plasmon resonance and fluorescence microscopy. <i>Analytical Biochemistry</i> , 2002 , 305, 149-55	3.1	69
140	Solid-phase synthesis of polymers using the ring-opening metathesis polymerization. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14536-7	16.4	67
139	Hydrolysis of Double-Stranded and Single-Stranded RNA in Hairpin Structures by the Copper(II) Macrocycle Cu([9]aneN(3))Cl(2). <i>Inorganic Chemistry</i> , 1997 , 36, 1715-1718	5.1	65
138	New insights into bacterial chemoreceptor array structure and assembly from electron cryotomography. <i>Biochemistry</i> , 2014 , 53, 1575-85	3.2	62
137	A tethering mechanism for length control in a processive carbohydrate polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11851-6	11.5	62
136	Bifunctional ligands that target cells displaying the alpha v beta3 integrin. <i>ChemBioChem</i> , 2007 , 8, 68-82	3.8	61
135	Synthesis of fluorogenic polymers for visualizing cellular internalization. <i>Organic Letters</i> , 2008 , 10, 2997-3000	3.0	60

- 134 Synthesis of functionalizable and degradable polymers by ring-opening metathesis polymerization. *Angewandte Chemie - International Edition*, **2013**, 52, 5061-4 16.4 57
- 133 Synthetic glycoprotein mimics inhibit L-selectin-mediated rolling and promote L-selectin shedding. *Chemistry and Biology*, **2004**, 11, 725-32 57
- 132 A polymer scaffold for protein oligomerization. *Journal of the American Chemical Society*, **2004**, 126, 16086-94 57
- 131 Fluorescence Anisotropy Assays Reveal Affinities of C- and O-Glycosides for Concanavalin A(1). *Journal of Organic Chemistry*, **1996**, 61, 534-538 4.2 56
- 130 Neoglycopolymers produced by aqueous ring-opening metathesis polymerization: decreasing saccharide density increases activity. *Journal of Molecular Catalysis A*, **1997**, 116, 209-216 55
- 129 Site-directed mutagenesis of UDP-galactopyranose mutase reveals a critical role for the active-site, conserved arginine residues. *Biochemistry*, **2007**, 46, 6723-32 3.2 54
- 128 Quinoxalinone Inhibitors of the Lectin DC-SIGN. *Chemical Science*, **2012**, 3, 772-777 9.4 53
- 127 A general glycomimetic strategy yields non-carbohydrate inhibitors of DC-SIGN. *Chemical Communications*, **2010**, 46, 6747-9 5.8 53
- 126 Reactivity of a Thio Nucleotide Analog. *Journal of the American Chemical Society*, **1996**, 118, 11715-11719 10.4 51
- 125 Glycoprotein-inspired materials promote the proteolytic release of cell surface L-selectin. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 1293-9 3.4 50
- 124 Chapter 29. Principles for multivalent ligand design. *Annual Reports in Medicinal Chemistry*, **2000**, 35, 321-330 1.6 50
- 123 Rhamnose glycoconjugates for the recruitment of endogenous anti-carbohydrate antibodies to tumor cells. *ChemBioChem*, **2014**, 15, 1393-8 3.8 49
- 122 Contrast agents for magnetic resonance imaging synthesized with ring-opening metathesis polymerization. *Journal of the American Chemical Society*, **2006**, 128, 6534-5 16.4 49
- 121 Visualization of Single Multivalent Receptor-Ligand Complexes by Transmission Electron Microscopy. *Angewandte Chemie - International Edition*, **2000**, 39, 4567-4570 16.4 48
- 120 Imaging mycobacterial growth and division with a fluorogenic probe. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5271-5276 11.5 47
- 119 X-ray crystallography reveals a reduced substrate complex of UDP-galactopyranose mutase poised for covalent catalysis by flavin. *Biochemistry*, **2009**, 48, 9171-3 3.2 46
- 118 Multivalent Antigens for Promoting B and T Cell Activation. *ACS Chemical Biology*, **2015**, 10, 1817-24 4.9 45
- 117 Spatial control of cell fate using synthetic surfaces to potentiate TGF-beta signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11745-50 11.5 44

116	Large increases in attractant concentration disrupt the polar localization of bacterial chemoreceptors. <i>Molecular Microbiology</i> , 2005 , 57, 774-85	4.1	44
115	Stereoselective, Lewis acid-catalyzed glycosylation of alcohols by glucose 1,2-cyclic sulfites. <i>Tetrahedron Letters</i> , 1994 , 35, 7335-7338	2	43
114	Recognition of microbial glycans by soluble human lectins. <i>Current Opinion in Structural Biology</i> , 2017 , 44, 168-178	8.1	42
113	Signals from the surface modulate differentiation of human pluripotent stem cells through glycosaminoglycans and integrins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18126-31	11.5	42
112	Noncarbohydrate glycomimetics and glycoprotein surrogates as DC-SIGN antagonists and agonists. <i>ACS Chemical Biology</i> , 2012 , 7, 1603-8	4.9	42
111	Glycosyl sulfonylcarbammates: new glycosyl donors with tunable reactivity. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3379-80	16.4	42
110	Phage display affords peptides that modulate beta-amyloid aggregation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11882-9	16.4	41
109	Monitoring processivity and length control of a carbohydrate polymerase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12758-66	16.4	40
108	Ligand binding and substrate discrimination by UDP-galactopyranose mutase. <i>Journal of Molecular Biology</i> , 2009 , 391, 327-40	6.5	40
107	A strategy for the synthesis of sulfated peptides. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3449-51	16.4	36
106	Synthesis of a multivalent display of a CD22-binding trisaccharide. <i>Carbohydrate Research</i> , 2002 , 337, 1605-13	2.9	36
105	Selectin-Saccharide Interactions: Revealing Structure-Function Relationships with Chemical Synthesis. <i>Journal of Organic Chemistry</i> , 1995 , 60, 6254-6255	4.2	36
104	Designed potent multivalent chemoattractants for Escherichia coli. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 2387-93	3.4	35
103	Fluorosugar chain termination agents as probes of the sequence specificity of a carbohydrate polymerase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6552-5	16.4	34
102	Transforming the cell surface through proteolysis. <i>Chemistry and Biology</i> , 1998 , 5, R49-62		34
101	Parallel synthesis of glycomimetic libraries: targeting a C-type lectin. <i>Organic Letters</i> , 2003 , 5, 1407-10	6.2	33
100	Synthesis of sulfated trisaccharide ligands for the selectins. <i>Tetrahedron</i> , 1997 , 53, 16391-16422	2.4	32
99	ROMP From ROMP: A New Approach to Graft Copolymer Synthesis. <i>Macromolecules</i> , 2009 , 42, 4023-4027	5.5	31

98	A processive carbohydrate polymerase that mediates bifunctional catalysis using a single active site. <i>Biochemistry</i> , 2012 , 51, 1148-59	3.2	29
97	Para-chlorobenzyl protecting groups as stabilizers of the glycosidic linkage: Synthesis of the 3?-O-sulfated Lewis x trisaccharide. <i>Tetrahedron Letters</i> , 1997 , 38, 6985-6988	2	29
96	Further investigations of the type II diels-alder route to the bicyclic core of esperamicin/calicheamicin reveal a regiochemical misassignment: Meta vs. para selectivity. <i>Tetrahedron Letters</i> , 1989 , 30, 433-436	2	29
95	Structure-activity relationships of 6-(heterocyclyl)-methylene penam sulfones; a new class of beta-lactamase inhibitors. <i>Journal of Antibiotics</i> , 1987 , 40, 803-22	3.7	29
94	Training the next generation of biomedical investigators in glycosciences. <i>Journal of Clinical Investigation</i> , 2016 , 126, 405-8	15.9	29
93	Virtual Screening for UDP-Galactopyranose Mutase Ligands Identifies a New Class of Antimycobacterial Agents. <i>ACS Chemical Biology</i> , 2015 , 10, 2209-18	4.9	28
92	Antigen structure affects cellular routing through DC-SIGN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14862-14867	11.5	28
91	Bioactive Polymers. <i>Topics in Organometallic Chemistry</i> , 1998 , 199-231	0.6	28
90	Synthesis of galactofuranose-based acceptor substrates for the study of the carbohydrate polymerase GlfT2. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 3753-9	3.4	27
89	Conserved amplification of chemotactic responses through chemoreceptor interactions. <i>Journal of Bacteriology</i> , 2002 , 184, 4981-7	3.5	27
88	Potent ligands for prokaryotic UDP-galactopyranose mutase that exploit an enzyme subsite. <i>Organic Letters</i> , 2009 , 11, 193-6	6.2	26
87	Structures of Xenopus Embryonic Epidermal Lectin Reveal a Conserved Mechanism of Microbial Glycan Recognition. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5596-5610	5.4	25
86	Link between chemotactic response to Ni ²⁺ and its adsorption onto the Escherichia coli cell surface. <i>Environmental Science & Technology</i> , 2005 , 39, 5227-33	10.3	25
85	p-Methoxybenzyl ether cleavage by polymer-supported sulfonamides. <i>Organic Letters</i> , 2002 , 4, 1131-3	6.2	24
84	Tin-mediated phosphorylation: Synthesis and selectin binding of a phospho Lewis a analog. <i>Tetrahedron Letters</i> , 1996 , 37, 1953-1956	2	24
83	Stereoelectronic Effects Impact Glycan Recognition. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2386-2395	16.4	24
82	Chemical probes of bacterial signal transduction reveal that repellents stabilize and attractants destabilize the chemoreceptor array. <i>ACS Chemical Biology</i> , 2008 , 3, 101-9	4.9	23
81	Protein footprinting in a complex milieu: identifying the interaction surfaces of the chemotaxis adaptor protein CheW. <i>Journal of Molecular Biology</i> , 2011 , 409, 483-95	6.5	21

80	UDP-galactopyranose mutase in nematodes. <i>Biochemistry</i> , 2013 , 52, 4391-8	3.2	20
79	Peptide ligands that use a novel binding site to target both TGF- β receptors. <i>Molecular BioSystems</i> , 2010 , 6, 2392-402		20
78	A proteome-wide atlas of lysine-reactive chemistry. <i>Nature Chemistry</i> , 2021 , 13, 1081-1092	17.6	20
77	Bacterial Cell Wall Modification with a Glycolipid Substrate. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9262-9272	16.4	19
76	Structure-based design of a periplasmic binding protein antagonist that prevents domain closure. <i>ACS Chemical Biology</i> , 2009 , 4, 447-56	4.9	19
75	Solid-phase synthesis of alkanethiols for the preparation of self-assembled monolayers. <i>Langmuir</i> , 2007 , 23, 11164-7	4	19
74	Small-molecule-modified surfaces engage cells through the $\alpha 5 \beta 1$ integrin. <i>ACS Chemical Biology</i> , 2012 , 7, 518-25	4.9	18
73	An asymmetric synthesis of L-pyrrolysine. <i>Organic Letters</i> , 2012 , 14, 1378-81	6.2	18
72	Isotope-coded affinity tags with tunable reactivities for protein footprinting. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9677-80	16.4	18
71	Glycan-Modified Virus-like Particles Evoke T Helper Type 1-like Immune Responses. <i>ACS Nano</i> , 2021 , 15, 309-321	16.7	18
70	Synthetic antigens reveal dynamics of BCR endocytosis during inhibitory signaling. <i>ACS Chemical Biology</i> , 2014 , 9, 202-10	4.9	17
69	Isoprenoid phosphonophosphates as glycosyltransferase acceptor substrates. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8492-5	16.4	17
68	Convergent synthesis of sulfated bivalent glycopeptides as selectin ligands. <i>Tetrahedron Letters</i> , 1996 , 37, 2907-2910	2	17
67	Preparation of (r)-(+)-7-oxabicyclo[2.2.1]hept-5-ene-exo-2-carboxylic acid, a precursor to substrates for the ring opening metathesis polymerization. <i>Tetrahedron Letters</i> , 1996 , 37, 8853-8856	2	17
66	Multivalency in Protein-Carbohydrate Recognition 2008 , 2483-2523		16
65	A Strategy for the Synthesis of Sulfated Peptides. <i>Angewandte Chemie</i> , 2002 , 114, 3599-3601	3.6	16
64	Angiomotin Regulates YAP Localization during Neural Differentiation of Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2019 , 12, 869-877	8	15
63	Glycomimetic building blocks: a divergent synthesis of epimers of shikimic acid. <i>Organic Letters</i> , 2011 , 13, 3790-3	6.2	15

62	Chemoselective, Postpolymerization Modification of Bioactive, Degradable Polymers. <i>Biomacromolecules</i> , 2019 , 20, 1018-1027	6.9	15
61	N-acylsulfonamide linker activation by Pd-catalyzed allylation. <i>Organic Letters</i> , 2006 , 8, 2483-5	6.2	14
60	Carboxylate Surrogates Enhance the Antimycobacterial Activity of UDP-Galactopyranose Mutase Probes. <i>ACS Infectious Diseases</i> , 2016 , 2, 538-43	5.5	14
59	What lies ahead. <i>Nature</i> , 2011 , 469, 23-5	50.4	13
58	Improved chemical syntheses of 1- and 5-deazariboflavin. <i>Journal of Organic Chemistry</i> , 2004 , 69, 2614-7	4.2	12
57	Synthesis of cyclic sulfates by halocyclization. <i>Organic Letters</i> , 2001 , 3, 3557-9	6.2	12
56	Synthesis of Functionalizable and Degradable Polymers by Ring-Opening Metathesis Polymerization. <i>Angewandte Chemie</i> , 2013 , 125, 5165-5168	3.6	10
55	Comparing Galactan Biosynthesis in and. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2944-2955	5.4	9
54	Forces of Change: Mechanics Underlying Formation of Functional 3D Organ Buds. <i>Cell Stem Cell</i> , 2015 , 16, 453-4	18	9
53	Fidelity and Promiscuity of a Mycobacterial Glycosyltransferase. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9205-11	16.4	9
52	Synthesis of lipid-linked arabinofuranose donors for glycosyltransferases. <i>Journal of Organic Chemistry</i> , 2013 , 78, 2128-33	4.2	8
51	Solution conformation of Lewis a--derived selectin ligands is unaffected by anionic substituents at the 3Q and 6Q positions. <i>Glycobiology</i> , 1997 , 7, 337-47	5.8	8
50	Chemistry. A path to complex carbohydrates. <i>Science</i> , 2013 , 341, 357-8	33.3	7
49	Unexpected enhancement in biological activity of a GPCR ligand induced by an oligoethylene glycol substituent. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8844-5	16.4	7
48	The Chemistry and Biology of Multivalent Saccharide Displays 2001 , 221-275		7
47	Multivalency in Biological Systems. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2003 , 345-357		7
46	Synthetic Glycomacromolecules of Defined Valency, Absolute Configuration, and Topology Distinguish between Human Lectins. <i>Jacs Au</i> , 2021 , 1, 1621-1630		7
45	Visualization of Single Multivalent ReceptorLigand Complexes by Transmission Electron Microscopy. <i>Angewandte Chemie</i> , 2000 , 112, 4741-4744	3.6	6

44	Multivalency in Protein-Carbohydrate Recognition 2001 , 1817-1861		6
43	Stereochemical Control Yields Mucin Mimetic Polymers. <i>ACS Central Science</i> , 2021 , 7, 624-630	16.8	6
42	Visualization of Single Multivalent Receptor-Ligand Complexes by Transmission Electron Microscopy The authors thank Colleen Lavin (UW Madison, Microscopy Resource) and Kim Dickson for experimental support. This work was supported in part by the NIH (GM 55984). J.E.G. acknowledges the NIH Biotechnology Training Grant for support (T32GM08349). L.E.S. was supported by an NIH predoctoral fellowship (GM 18750).	16.4	6
41	Biosynthetic Glycan Labeling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16337-16342	16.4	5
40	Polysaccharide length affects mycobacterial cell shape and antibiotic susceptibility. <i>Science Advances</i> , 2020 , 6,	14.3	5
39	Syntheses and Applications of Bioactive Polymers Generated by Ring-Opening Metathesis Polymerization	180-225	
38	Synthetic Science: Assembly Required. <i>ACS Chemical Biology</i> , 2008 , 3, 1-2	4.9	4
37	Distinguishing Galactoside Isomers with Mass Spectrometry and Gas-Phase Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10509-10513	16.4	4
36	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3
35	The non-detergent sulfobetaine-201 acts as a pharmacological chaperone to promote folding and crystallization of the type II TGF- β receptor extracellular domain. <i>Protein Expression and Purification</i> , 2015 , 115, 19-25	2	3
34	Visualization and characterization of receptor clusters by transmission electron microscopy. <i>Methods in Enzymology</i> , 2003 , 362, 301-12	1.7	3
33	Multivalency in Protein-Carbohydrate Recognition 2001 , 1817-1861		3
32	Human intelectin-1 (ITLN1) genetic variation and intestinal expression. <i>Scientific Reports</i> , 2021 , 11, 12889	4.9	3
31	Modular Polymer Antigens To Optimize Immunity. <i>Biomacromolecules</i> , 2019 , 20, 4370-4379	6.9	2
30	Classifying chemoreceptors: quantity versus quality. <i>EMBO Journal</i> , 2010 , 29, 3435-6	13	2
29	Synthetic Multivalent Carbohydrate Ligands as Effectors or Inhibitors of Biological Processes 2005 , 575-608		2
28	Fostering major breakthroughs. <i>ACS Chemical Biology</i> , 2006 , 1, 1-2	4.9	2
27	Antibiotic action revealed by real-time imaging of the mycobacterial membrane		2

26	CH-Interactions in Glycan Recognition. <i>ACS Chemical Biology</i> , 2021 , 16, 1884-1893	4.9	2
25	Conformational Control of UDP-Galactopyranose Mutase Inhibition. <i>Biochemistry</i> , 2017 , 56, 3983-3992	3.2	1
24	Biologically Active Polymers 2015 , 169-205		1
23	Flow cytometry reveals that multivalent chemoattractants effect swarmer cell dedifferentiation. <i>ACS Chemical Biology</i> , 2009 , 4, 828-33	4.9	1
22	The Search for Chemical Probes to Illuminate Carbohydrate Function 635-667		1
21	UDP-galactopyranose mutase: an unexpected ligand-binding mode leads to model of substrate binding. <i>FASEB Journal</i> , 2008 , 22, 1012.9	0.9	1
20	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6131-6133	5.6	
19	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2496-2498	4.3	
18	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , 2020 , 39, 2331-2333	3.8	
17	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Energy & Fuels</i> , 2020 , 34, 5107-5108	4.1	
16	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Organometallics</i> , 2020 , 39, 1665-1666	3.6	
15	ChemRxiv: A Chemistry Preprint Server. <i>ACS Chemical Biology</i> , 2016 , 11, 2937	4.9	
14	A symposium in honor of Peter B. Dervan, the 2014 ACS Chemical Biology Lectureship Award Winner. <i>ACS Chemical Biology</i> , 2014 , 9, 1221-3	4.9	
13	Deleterious Consequences of UDP-Galactopyranose Mutase Inhibition for Nematodes. <i>ACS Chemical Biology</i> , 2017 , 12, 2354-2361	4.9	
12	A higher degree of difficulty. <i>ACS Chemical Biology</i> , 2007 , 2, 197-9	4.9	
11	Symbiosis: Chemical biology at Wisconsin. <i>ACS Chemical Biology</i> , 2006 , 1, 481-4	4.9	
10	In vitro and in vivo inhibition of anti-gal secreting cells. <i>Transplantation Proceedings</i> , 2000 , 32, 856	1.1	
9	Biosynthetic incorporation for visualizing bacterial glycans.. <i>Methods in Enzymology</i> , 2022 , 665, 135-151	1.7	

- 8 Small molecule probes of mycobacterial cell wall assembly. *FASEB Journal*, **2008**, 22, 532.3 0.9
- 7 The polymerase activity of a mycobacterial galactofuranosyltransferase suggests a novel mechanism for template-independent processive polymerization. *FASEB Journal*, **2008**, 22, 1059.2 0.9
- 6 Confronting Racism in Chemistry Journals. *Journal of Chemical Health and Safety*, **2020**, 27, 198-200 1.7
- 5 The Molecular Recognition of Saccharides and Glycoprotein-Inspired Materials **1998**, 183-212
- 4 Human Embryonic Stem Cells Maintain Pluripotency after E-Cadherin Expression Knockdown. *FASEB Journal*, **2010**, 24, lb172 0.9
- 3 Tailored Synthetic Surfaces to Control Human Pluripotent Stem Cell Self-Renewal **2012**, 155-165
- 2 A defined glycosaminoglycan-binding surface facilitates endoderm differentiation of human embryonic stem cells. *FASEB Journal*, **2013**, 27, 594.5 0.9
- 1 Signals from the Surface to Control Cell Fate Decisions. *FASEB Journal*, **2013**, 27, 213.3 0.9