

# Roger A Laine

## List of Publications by Year in descending order

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118  
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5,185  
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101543

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123  
docs citations

123  
times ranked

3855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalysis by hen egg-white lysozyme proceeds via a covalent intermediate. <i>Nature</i> , 2001, 412, 835-838.	27.8	588
2	Invited Commentary: A calculation of all possible oligosaccharide isomers both branched and linear yields 1.05 Å <sup>3</sup> — 1012 structures for a reducing hexasaccharide: the Isomer Barrier to development of single-method saccharide sequencing or synthesis systems. <i>Glycobiology</i> , 1994, 4, 759-767.	2.5	407
3	Eicosapentaenoic and Arachidonic Acids from <i>Phytophthora infestans</i> Elicit Fungitoxic Sesquiterpenes in the Potato. <i>Science</i> , 1981, 212, 67-69.	12.6	284
4	Synthesis of homodinuclear macrocyclic complexes of lanthanides and phenolic schiff bases. <i>Inorganica Chimica Acta</i> , 1986, 118, 179-185.	2.4	201
5	[10] Gas-liquid chromatography of carbohydrates. <i>Methods in Enzymology</i> , 1972, 28, 159-167.	1.0	190
6	Cellular blood group substances. IV. Neutral fucoglycolipids having long, branched carbohydrate chains. H-Active and I-active glycosphingolipids of human erythrocyte membranes. <i>Biochemistry</i> , 1975, 14, 2725-2733.	2.5	140
7	Incorporation of exogenous glycosphingolipids in plasma membranes of cultured hamster cells and concurrent change of growth behavior. <i>Biochemical and Biophysical Research Communications</i> , 1973, 54, 1039-1045.	2.1	137
8	Evaluation of vetiver oil and seven insect-active essential oils against the Formosan subterranean termite. <i>Journal of Chemical Ecology</i> , 2001, 27, 1617-1625.	1.8	137
9	Structures of the asparagine-linked sugar chains of laminin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1986, 883, 112-126.	2.4	136
10	Factors Affecting the Elicitation of Sesquiterpenoid Phytoalexin Accumulation by Eicosapentaenoic and Arachidonic Acids in Potato. <i>Plant Physiology</i> , 1982, 70, 1417-1424.	4.8	114
11	Termites fumigate their nests with naphthalene. <i>Nature</i> , 1998, 392, 558-559.	27.8	107
12	O-methyl oximes of sugars. Analysis as O-trimethylsilyl derivatives by gas-liquid chromatography and mass spectrometry. <i>Carbohydrate Research</i> , 1973, 27, 199-213.	2.3	104
13	Nootkatone is a repellent for Formosan subterranean termite ( <i>Coptotermes formosanus</i> ). <i>Journal of Chemical Ecology</i> , 2001, 27, 523-531.	1.8	98
14	In vitro cytotoxic effect of novel lytic peptides on <i>Plasmodium falciparum</i> and <i>Trypanosoma cruzi</i> . <i>FASEB Journal</i> , 1988, 2, 2878-2883.	0.5	95
15	Analysis of trimethylsilyl O-methyloximes of carbohydrates by combined gas-liquid chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , 1971, 43, 533-538.	2.4	92
16	Linkage position in oligosaccharides by fast atom bombardment ionization, collision-activated dissociation, tandem mass spectrometry and molecular modeling. L-Fucosylp-(.alpha.1.fwdarw.X)-D-N-acetyl-D-glucosaminylp-(.beta.1.fwdarw.3)-D-galactosylp-(.beta.1-O-methyl) where X = 3, 4, or 6. <i>Journal of the American Chemical Society</i> , 1988, 110, 6931-6939.	13.7	86
17	Toxicity and Repellency of Patchouli Oil and Patchouli Alcohol against Formosan Subterranean Termites <i>Coptotermes formosanus</i> Shiraki (Isoptera: Rhinotermitidae). <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 4585-4588.	5.2	72
18	Carbohydrate structures of three novel phosphoinositol-containing sphingolipids from the yeast <i>Histoplasma capsulatum</i> . <i>Biochemistry</i> , 1984, 23, 5589-5596.	2.5	68



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37	Cell surface ligands for rotavirus: Mouse intestinal glycolipids and synthetic carbohydrate analogs. <i>Virology</i> , 1992, 190, 794-805.	2.4	35
38	Determination of linkage position and anomeric configuration in Hex-Fuc disaccharides using electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1947-1955.	1.5	34
39	Seasonal Variation of Juvenile Hormone Titrers of the Formosan Subterranean Termite, <i>Coptotermes formosanus</i> (Rhinotermitidae). <i>Environmental Entomology</i> , 2005, 34, 557-562.	1.4	34
40	[13] Inositol-containing sphingolipids. <i>Methods in Enzymology</i> , 1987, 138, 186-195.	1.0	32
41	Effects of Temperature and Nutrition on Juvenile Hormone Titrers of <i>Coptotermes formosanus</i> (Isoptera: Rhinotermitidae). <i>Annals of the Entomological Society of America</i> , 2005, 98, 732-737.	2.5	32
42	Incremented alkyl derivatives enhance collision induced glycosidic bond cleavage in mass spectrometry of disaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 63-78.	2.8	31
43	Improving the Detection of Fungi in Eosinophilic Mucin. <i>Otolaryngology - Head and Neck Surgery</i> , 2012, 147, 943-949.	1.9	30
44	Non-reducing terminal linkage position determination in intact and permethylated synthetic oligosaccharides having a penultimate amino sugar: Fast atom bombardment ionization, collisional-induced dissociation and tandem mass spectrometry. <i>Biological Mass Spectrometry</i> , 1991, 20, 505-514.	0.5	29
45	Toxicity and Behavioral Effects of Nootkatone, 1,10-Dihydronootkatone, and Tetrahydronootkatone to the Formosan Subterranean Termite (Isoptera: Rhinotermitidae). <i>Journal of Economic Entomology</i> , 2004, 97, 102-111.	1.8	29
46	Developmental study of human fetal placental fibronectin: Alterations in carbohydrates of tissue fibronectin during gestation. <i>Archives of Biochemistry and Biophysics</i> , 1987, 252, 1-6.	3.0	27
47	Thioglycosides Are Efficient Metabolic Decoys of Glycosylation that Reduce Selectin Dependent Leukocyte Adhesion. <i>Cell Chemical Biology</i> , 2018, 25, 1519-1532.e5.	5.2	27
48	Trehalose-based oligosaccharides isolated from the cytoplasm of <i>Mycobacterium smegmatis</i> . <i>FEBS Journal</i> , 2002, 269, 3142-3149.	0.2	26
49	Structure-Activity of Valencenoid Derivatives and Their Repellence to the Formosan Subterranean Termite. <i>Journal of Chemical Ecology</i> , 2003, 29, 2695-2701.	1.8	26
50	Dolichyl-phosphomannose synthase from the Archae <i>Thermoplasma acidophilum</i> . <i>Glycobiology</i> , 1996, 6, 811-816.	2.5	25
51	Physiology of crapemyrtle bark scale, <i>Acanthococcus lagerstroemiae</i> (Kuwana), associated with seasonally altered cold tolerance. <i>Journal of Insect Physiology</i> , 2019, 112, 1-8.	2.0	25
52	[9] Covalent attachment of glycolipids to solid supports and macromolecules. <i>Methods in Enzymology</i> , 1978, 50, 137-140.	1.0	23
53	Carbohydrate structure of the major glycopeptide from human cold-insoluble globulin. <i>Journal of Supramolecular Structure</i> , 1979, 11, 391-399.	2.3	23
54	Zymogram with Remazol brilliant blue-labeled <i>Micrococcus lysodeikticus</i> cells for the detection of lysozymes: example of a new lysozyme activity in Formosan termite defense secretions. <i>Analytical Biochemistry</i> , 2003, 312, 73-76.	2.4	23

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55	Isolation and Identification of 2-Phenoxyethanol from a Ballpoint Pen Ink as a Trail-Following Substance of <i>Coptotermes formosanus</i> Shiraki and <i>Reticulitermes</i> sp.. <i>Journal of Entomological Science</i> , 1998, 33, 97-105.	0.3	23
56	Germination of Various Weed Species in Response to Vetiver Oil and Nootkatone. <i>Weed Technology</i> , 2004, 18, 263-267.	0.9	22
57	Screening Method for Inhibitors Against Formosan Subterranean Termite $\beta$ -Glucosidases In Vivo. <i>Journal of Economic Entomology</i> , 2005, 98, 41-46.	1.8	22
58	An Efficient and Economic Asymmetric Synthesis of (+)-Nootkatone, Tetrahydronootkatone, and Derivatives. <i>Organic Letters</i> , 2009, 11, 3530-3533.	4.6	22
59	[29] Glycoconjugates: Overview and strategy. <i>Methods in Enzymology</i> , 1990, 193, 539-553.	1.0	20
60	Thermostable, Salt Tolerant, Wide pH Range Novel Chitobiase from <i>Vibrio parahemolyticus</i> : Isolation, Characterization, Molecular Cloning, and Expression. <i>Journal of Biochemistry</i> , 1992, 112, 163-167.	1.7	20
61	Linkage position determination in a novel set of permethylated neutral trisaccharides by collisional-induced dissociation and tandem mass spectrometry. <i>Biological Mass Spectrometry</i> , 1992, 21, 479-485.	0.5	20
62	Title is missing!. <i>Journal of Chemical Ecology</i> , 1999, 25, 817-824.	1.8	20
63	Lower Doses of Fructose Extend Lifespan in <i>Caenorhabditis elegans</i> . <i>Journal of Dietary Supplements</i> , 2017, 14, 264-277.	2.6	20
64	Chemistry of Human Erythrocyte Polylactosamine Glycopeptides (Erythroglycans) as Related to ABH Blood Group Antigenic Determinants. <i>Advances in Experimental Medicine and Biology</i> , 1988, 228, 331-347.	1.6	20
65	Effects of Nootkatone and a Borate Compound on Formosan Subterranean Termite (Isoptera: Tj ETQq1 1 0.784314 rgBT / Overlock 10	0.3	20
66	Monoglucosyloxyoctadecenoic acid, a glycolipid from <i>Aspergillus niger</i> . <i>Biochemistry</i> , 1972, 11, 2267-2271.	2.5	19
67	Biosynthesis and structure of glycosyl diglycerides, steryl glucosides, and acylated steryl glucosides. <i>Lipids</i> , 1975, 10, 427-436.	1.7	19
68	Phosphorous-containing glycosphingolipids. <i>Chemistry and Physics of Lipids</i> , 1986, 42, 129-135.	3.2	18
69	Vetiver oil and nootkatone effects on the growth of pea and citrus. <i>Industrial Crops and Products</i> , 2006, 23, 327-332.	5.2	18
70	Conformational control of selectivity in the dienone-phenol rearrangement. <i>Tetrahedron Letters</i> , 2007, 48, 6590-6593.	1.4	17
71	Novel gaseous polyatomic binary and ternary lanthanide oxides. <i>Inorganica Chimica Acta</i> , 1988, 141, 131-138.	2.4	15
72	Purification of Acetylactosamine-Specific Tomato Lectin by Erythroglycan-Sepharose Affinity Chromatography. <i>Preparative Biochemistry and Biotechnology</i> , 1989, 19, 341-350.	0.5	13

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73	Chitovibrin: a chitin-binding lectin from <i>Vibrio parahemolyticus</i> . <i>Glycoconjugate Journal</i> , 1994, 11, 518-526.	2.7	13
74	Potential use of domestic cat ( <i>Felis catus</i> ) urinary extracts for manipulating the behavior of free-roaming cats and wild small felids. <i>Applied Animal Behaviour Science</i> , 2017, 196, 52-60.	1.9	13
75	Duodenal Bile Acids Among Children. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 1987, 6, 686-696.	1.8	12
76	Novel free ceramides as components of the soldier defense gland of the Formosan subterranean termite ( <i>Coptotermes formosanus</i> ). <i>Journal of Lipid Research</i> , 2007, 48, 656-664.	4.2	12
77	Glycophosphoceramides from Plants. <i>ACS Symposium Series</i> , 1980, , 65-78.	0.5	11
78	<sup>252</sup> Cf plasma-desorption mass spectrometry of lipid a from <i>Enterobacter agglomerans</i> . <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 616-622.	1.5	11
79	Screening Method for Inhibitors Against Formosan Subterranean Termite $\beta$ -Glucosidases In Vivo. <i>Journal of Economic Entomology</i> , 2005, 98, 41-46.	1.8	11
80	Structural requirements for repellency: norsesquiterpenes and sesquiterpenoid derivatives of nootkatone against the Formosan subterranean termite ( <i>Isoptera: Rhinotermitidae</i> ). <i>Pest Management Science</i> , 2010, 66, 875-878.	3.4	11
81	Dietary Plant Lectins Appear to Be Transported from the Gut to Gain Access to and Alter Dopaminergic Neurons of <i>Caenorhabditis elegans</i> , a Potential Etiology of Parkinson's Disease. <i>Frontiers in Nutrition</i> , 2016, 3, 7.	3.7	11
82	High $\beta$ -amylase activity in the syncytiotrophoblastic cells of first-trimester human placentas. <i>Journal of Cellular Biochemistry</i> , 1983, 22, 47-54.	2.6	10
83	Intrinsic tryptophan fluorescence measurements suggest that poly(lactosaminyl) glycosylation affects the protein conformation of the gelatin-binding domain from human placental fibronectin. <i>FEBS Journal</i> , 1990, 189, 509-516.	0.2	10
84	Synthesis of four novel trisaccharides by induction of loose acceptor specificity in Gal $\beta$ 3Gal $\beta$ 4 transferase (EC 2.4.1.22): Galp( $\beta$ 1 $\rightarrow$ 4)Glc(X)Glc where X = $\beta$ 1 $\rightarrow$ 3: $\beta$ 1 $\rightarrow$ 4: $\beta$ 1 $\rightarrow$ 6: $\beta$ 1 $\rightarrow$ 4. <i>Glycobiology</i> , 1992, 2, 161-168.	2.5	10
85	[13] Tandem mass spectrometry of oligosaccharides. <i>Methods in Enzymology</i> , 1989, 179, 157-164.	1.0	9
86	Novel hyperglycosylated weak gelatin-binding fibronectin from human fetal placenta. Fractionation of a high poly(N-acetyllactosamine) fragment by tomato lectin affinity chromatography. <i>FEBS Journal</i> , 1990, 188, 67-71.	0.2	9
87	The sesquiterpenoid nootkatone and the absolute configuration of a dibromo derivative. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, o254-o256.	0.4	9
88	Survivorship, tunneling and feeding behaviors of <i>Coptotermes formosanus</i> ( <i>Isoptera: Rhinotermitidae</i> ) in response to $\alpha$ -acetophenone-treated sand. <i>Pest Management Science</i> , 2004, 60, 746-754.	3.4	9
89	Liquid chromatography-electrospray ionization-mass spectrometric quantitation of juvenile hormone III in whole body extracts of the Formosan subterranean termite. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 3175-3180.	2.3	9
90	Synthesis and Characterization of Complex Mixtures Consisting of Cyclic and Linear Polyamides from Ethyl-Bis-Ketal Galactarates. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013, 50, 940-952.	2.2	9

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91	Enhancing MSn mass spectrometry strategy for carbohydrate analysis: A b2 ion spectral library. <i>Journal of Proteomics</i> , 2015, 112, 224-249.	2.4	9
92	Discovering Volatile Chemicals from Window Weatherstripping through Solid-Phase Microextraction/Gas Chromatography-Mass Spectrometry. <i>Journal of Chemical Education</i> , 2017, 94, 1784-1789.	2.3	9
93	A Kazal-Type Serine Protease Inhibitor from the Defense Gland Secretion of the Subterranean Termite <i>Coptotermes formosanus</i> Shiraki. <i>PLoS ONE</i> , 2015, 10, e0125376.	2.5	9
94	Evaluation of Vetiver Grass Root Growth, Oil Distribution, and Repellency Against Formosan Subterranean Termites. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006, 41, 167-171.	1.0	9
95	Polylactosamines are not obligate receptors for invasion of <i>Plasmodium falciparum</i> malaria as shown in HEMPAS Variant II-gal- erythrocytes. <i>Glycobiology</i> , 1994, 4, 903-908.	2.5	8
96	[24] Preparation of high molecular weight glycopeptides and oligosaccharides (erythroglycan) from Human erythrocytes. <i>Methods in Enzymology</i> , 1982, 83, 311-320.	1.0	7
97	[22] Preparation of placental (fetal tissue) fibronectin and its carbohydrates. <i>Methods in Enzymology</i> , 1987, 144, 420-429.	1.0	6
98	Fatty Acids Differ Significantly in Castes of the Formosan Subterranean Termite (Isoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	2.5	6
99	The case for re-examining glycosylation inhibitors, mimetics, primers and glycosylation decoys as antivirals and anti-inflammatories in COVID19. <i>Glycobiology</i> , 2020, 30, 763-767.	2.5	6
100	Occurrence of an unusual amount of an odd-numbered fatty acid in glycosphingolipids from human cataracts. <i>Current Eye Research</i> , 1987, 6, 1361-1367.	1.5	5
101	CHEMICAL IONIZATION GC-MASS SPECTROMETRY IN THE STRUCTURAL ANALYSIS OF SACCHARIDE CHAINS. , 1980, , 193-198.		5
102	Synthesis of sterically crowded derivatives of anomeric pairs of d-glucose disaccharides. <i>Carbohydrate Research</i> , 2005, 340, 2055-2059.	2.3	4
103	Toxic Effects of 2-Deoxy-d-Galactose on <i>Coptotermes formosanus</i> (Isoptera: Rhinotermitidae) and Symbionts. <i>Journal of Economic Entomology</i> , 2010, 103, 1647-1656.	1.8	4
104	Cyclohexylamine inexplicably induces antennae loss in Formosan subterranean termites ( <i>Coptotermes</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T Management Science, 2017, 73, 2039-2047.	3.4	4
105	Effects of Menadione on Survival, Feeding, and Tunneling Activity of the Formosan Subterranean Termite. <i>Insects</i> , 2021, 12, 1109.	2.2	3
106	Hydrogenation Selectivity of the Bicyclo[4.4.0]decane Ring System of Valencanes. <i>Synlett</i> , 2010, 2010, 445-448.	1.8	2
107	&lt;l&gt;myo&lt;/l&gt;-Inositol and Phytate Are Toxic to Formosan Subterranean Termites (Isoptera:) Tj ETQq1 1 0.784314 rgBT /Overloc	1.8	2
108	Sugar-Based Polyamides: Self-Organization in Strong Polar Organic Solvents. <i>Biomacromolecules</i> , 2015, 16, 3062-3072.	5.4	2

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109	[62] UDP-glucose: $\beta$ -sitosterol glucosyltransferase of developing cotton seeds. <i>Methods in Enzymology</i> , 1972, 28, 478-482.	1.0	1
110	Catalytically Inactive Endoglycosidases as Microbial Diagnostic Reagents: Chitinases and Lysozymes as Fungal and Bacterial Capture/Label Agents. , 2007, , 373-384.		1
111	Professor Sen-itiroh Hakomori (1929–2020): A tribute to a remarkable glycobiologist, mentor and friend!. <i>Glycobiology</i> , 2021, 31, 708-712.	2.5	1
112	Terpene-Induced Morphological Changes to Exoskeleton of Formosan Subterranean Termites (Isoptera: Rhinotermitidae): Toxic Effects of cis-nerol. <i>Journal of Entomological Science</i> , 2003, 38, 225-233.	0.3	1
113	Structure-activity relationships of naphthalene and 10 related compounds on <i>Coptotermes formosanus</i> (Isoptera: Rhinotermitidae). <i>ACS Symposium Series</i> , 2010, , 19-39.	0.5	0
114	Toxicity and Inhibition of Feeding and Tunneling Response of Naphthalene and 10 Derivatives on the Formosan Subterranean Termite (Isoptera: Rhinotermitidae). <i>Journal of Economic Entomology</i> , 2010, 103, 2132-2139.	1.8	0
115	Increased Search Tunnel Formation by <i>Coptotermes formosanus</i> Shiraki (Isoptera: Rhinotermitidae) in 2-Phenoxyethanol Treated Sand. <i>Journal of Entomological Science</i> , 2005, 40, 327-336.	0.3	0
116	GLYCOSPHINGOLIPIDS WITH BLOOD GROUP A, H, AND I ACTIVITY AND THEIR CHANGES ASSOCIATED WITH ONTOGENESIS AND ONCOGENESIS. , 1977, , 1215-1227.		0
117	STUDIES ON THE MAJOR CARBOHYDRATE FROM HUMAN PLACENTAL CELLULAR FIBRONECTIN. , 1982, , 247-251.		0
118	Glycosaminoglycans and Related Structures as Potential Inhibitors for Erythrocyte Infection by <i>Plasmodium Falciparum</i> Malaria. , 1996, , 163-170.		0