

M Joanne Lemieux

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

2,850
citations

23
h-index

52
g-index

93
ext. papers

3,425
ext. citations

6.2
avg, IF

5.09
L-index

#	Paper	IF	Citations
80	Crystallization of Feline Coronavirus M With GC376 Reveals Mechanism of Inhibition.. <i>Frontiers in Chemistry</i> , 2022 , 10, 852210	5	3
79	A genetically encoded fluorescent biosensor for extracellular L-lactate. <i>Nature Communications</i> , 2021 , 12, 7058	17.4	6
78	Accelerated discovery of novel glycoside hydrolases using targeted functional profiling and selective pressure on the rumen microbiome. <i>Microbiome</i> , 2021 , 9, 229	16.6	1
77	Dwarf open reading frame (DWORF) is a direct activator of the sarcoplasmic reticulum calcium pump SERCA. <i>ELife</i> , 2021 , 10,	8.9	10
76	N-Terminal Finger Stabilizes the S1 Pocket for the Reversible Feline Drug GC376 in the SARS-CoV-2 M Dimer. <i>Journal of Molecular Biology</i> , 2021 , 433, 167003	6.5	12
75	Peptidomimetic nitrile warheads as SARS-CoV-2 3CL protease inhibitors. <i>RSC Medicinal Chemistry</i> , 2021 , 12, 1722-1730	3.5	5
74	Insights into the catalytic properties of the mitochondrial rhomboid protease PARL. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100383	5.4	6
73	Expression and Purification of Human Mitochondrial Intramembrane Protease PARL. <i>Methods in Molecular Biology</i> , 2021 , 2302, 1-20	1.4	0
72	Photocleavable proteins that undergo fast and efficient dissociation. <i>Chemical Science</i> , 2021 , 12, 9658-9672	7.2	2
71	Peptidomimetic β -Acylloxymethylketone Warheads with Six-Membered Lactam P1 Glutamine Mimic: SARS-CoV-2 3CL Protease Inhibition, Coronavirus Antiviral Activity, and Biological Stability. <i>Journal of Medicinal Chemistry</i> , 2021 ,	8.3	18
70	Nothing Regular about the Regulins: Distinct Functional Properties of SERCA Transmembrane Peptide Regulatory Subunits. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
69	SARS-COV-2 recombinant Receptor-Binding-Domain (RBD) induces neutralizing antibodies against variant strains of SARS-CoV-2 and SARS-CoV-1. <i>Vaccine</i> , 2021 , 39, 5769-5779	4.1	4
68	Improved SARS-CoV-2 M inhibitors based on feline antiviral drug GC376: Structural enhancements, increased solubility, and micellar studies. <i>European Journal of Medicinal Chemistry</i> , 2021 , 222, 113584	6.8	17
67	PARL Protease: A Glimpse at Intramembrane Proteolysis in the Inner Mitochondrial Membrane. <i>Journal of Molecular Biology</i> , 2020 , 432, 5052-5062	6.5	10
66	Interaction of a Sarcolipin Pentamer and Monomer with the Sarcoplasmic Reticulum Calcium Pump, SERCA. <i>Biophysical Journal</i> , 2020 , 118, 518-531	2.9	8
65	Vitamin D is an endogenous partial agonist of the transient receptor potential vanilloid 1 channel. <i>Journal of Physiology</i> , 2020 , 598, 4321-4338	3.9	10
64	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication. <i>Nature Communications</i> , 2020 , 11, 4282	17.4	199

63	Trimeric structure of the mouse Kupffer cell C-type lectin receptor Clec4f. <i>FEBS Letters</i> , 2020 , 594, 189-198	19.8	4
62	Targeting B7-1 in immunotherapy. <i>Medicinal Research Reviews</i> , 2020 , 40, 654-682	14.4	16
61	Comprehensive in vitro characterization of PD-L1 small molecule inhibitors. <i>Scientific Reports</i> , 2019 , 9, 12392	4.9	57
60	The Phospholamban Pentamer Alters Function of the Sarcoplasmic Reticulum Calcium Pump SERCA. <i>Biophysical Journal</i> , 2019 , 116, 633-647	2.9	20
59	Reactions at Biomembrane Interfaces. <i>Chemical Reviews</i> , 2019 , 119, 6162-6183	68.1	23
58	Quantitative Multiplex Substrate Profiling of Peptidases by Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 968-981	7.6	16
57	Deciphering the activation and recognition mechanisms of Staphylococcus aureus response regulator ArlR. <i>Nucleic Acids Research</i> , 2019 , 47, 11418-11429	20.1	7
56	Genetic variation in human carboxylesterase CES1 confers resistance to hepatic steatosis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 688-699	5	10
55	An internally quenched peptide as a new model substrate for rhomboid intramembrane proteases. <i>Biological Chemistry</i> , 2018 , 399, 1389-1397	4.5	8
54	Diacylglycerol acyltransferase 1 is activated by phosphatidate and inhibited by SnRK1-catalyzed phosphorylation. <i>Plant Journal</i> , 2018 , 96, 287-299	6.9	17
53	The calcium sensitizer drug MCI-154 binds the structural C-terminal domain of cardiac troponin C. <i>Biochemistry and Biophysics Reports</i> , 2018 , 16, 145-151	2.2	3
52	Intrinsic disorder in the regulatory N-terminal domain of diacylglycerol acyltransferase 1 from Brassica napus. <i>Scientific Reports</i> , 2018 , 8, 16665	4.9	4
51	Properties and Biotechnological Applications of Acyl-CoA:diacylglycerol Acyltransferase and Phospholipid:diacylglycerol Acyltransferase from Terrestrial Plants and Microalgae. <i>Lipids</i> , 2018 , 53, 663-688	16	47
50	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , 2018 , 251, 609-631	2.3	26
49	Taking a position on intramembrane proteolysis. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4664-4665	5.4	
48	Fluorescent Hexose Conjugates Establish Stringent Stereochemical Requirement by GLUT5 for Recognition and Transport of Monosaccharides. <i>ACS Chemical Biology</i> , 2017 , 12, 1087-1094	4.9	12
47	Conformational memory in the association of the transmembrane protein phospholamban with the sarcoplasmic reticulum calcium pump SERCA. <i>Journal of Biological Chemistry</i> , 2017 , 292, 21330-21339	5.4	15
46	Diacylglycerol Acyltransferase 1 Is Regulated by Its N-Terminal Domain in Response to Allosteric Effectors. <i>Plant Physiology</i> , 2017 , 175, 667-680	6.6	27

45	Multiple mechanisms contribute to increased neutral lipid accumulation in yeast producing recombinant variants of plant diacylglycerol acyltransferase 1. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17819-17831	5.4	17
44	Identification of Key Residues for Urate Specific Transport in Human Glucose Transporter 9 (hSLC2A9). <i>Scientific Reports</i> , 2017 , 7, 41167	4.9	7
43	Production of Recombinant Rhomboid Proteases. <i>Methods in Enzymology</i> , 2017 , 584, 255-278	1.7	
42	Activity Assays for Rhomboid Proteases. <i>Methods in Enzymology</i> , 2017 , 584, 395-437	1.7	1
41	Reversible Unfolding of Rhomboid Intramembrane Proteases. <i>Biophysical Journal</i> , 2016 , 110, 1379-90	2.9	7
40	Probing catalytic rate enhancement during intramembrane proteolysis. <i>Biological Chemistry</i> , 2016 , 397, 907-19	4.5	4
39	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , 2015 , 248, 611-40	2.3	101
38	Critical Roles of Two Hydrophobic Residues within Human Glucose Transporter 9 (hSLC2A9) in Substrate Selectivity and Urate Transport. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15292-303	5.4	11
37	Purification and properties of recombinant Brassica napus diacylglycerol acyltransferase 1. <i>FEBS Letters</i> , 2015 , 589, 773-8	3.8	16
36	Functional Implications of Domain Organization Within Prokaryotic Rhomboid Proteases. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 883, 107-17	3.6	
35	High yield expression and purification of equilibrative nucleoside transporter 7 (ENT7) from Arabidopsis thaliana. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 1921-9	4	8
34	Expression and Purification of Haemophilus influenzae Rhomboid Intramembrane Protease GlpG for Structural Studies. <i>Current Protocols in Protein Science</i> , 2014 , 76, 29.9.1-29.9.25	3.1	2
33	Allosteric regulation of rhomboid intramembrane proteolysis. <i>EMBO Journal</i> , 2014 , 33, 1869-81	13	57
32	Biochemical characterization and structure-function relationship of two plant NCS2 proteins, the nucleobase transporters NAT3 and NAT12 from Arabidopsis thaliana. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 3025-35	3.8	28
31	Structure-function relationship of a plant NCS1 member--homology modeling and mutagenesis identified residues critical for substrate specificity of PLUTO, a nucleobase transporter from Arabidopsis. <i>PLoS ONE</i> , 2014 , 9, e91343	3.7	19
30	The structure of lactoferrin-binding protein B from Neisseria meningitidis suggests roles in iron acquisition and neutralization of host defences. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014 , 70, 1312-7	1.1	22
29	Untangling structure-function relationships in the rhomboid family of intramembrane proteases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 2862-72	3.8	25
28	Domain swapping in the cytoplasmic domain of the Escherichia coli rhomboid protease. <i>Journal of Molecular Biology</i> , 2013 , 425, 1127-42	6.5	30

27	Rapid expression screening of eukaryotic membrane proteins in <i>Pichia pastoris</i> . <i>Protein Science</i> , 2013 , 22, 425-33	6.3	21
26	Crystal structure of the N-lobe of lactoferrin binding protein B from <i>Moraxella bovis</i> . <i>Biochemistry and Cell Biology</i> , 2012 , 90, 351-61	3.6	13
25	Oligomeric state study of prokaryotic rhomboid proteases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 3090-7	3.8	23
24	Insights into substrate gating in <i>H. influenzae</i> rhomboid. <i>Journal of Molecular Biology</i> , 2011 , 407, 687-97	6.5	32
23	Structural comparison of substrate entry gate for rhomboid intramembrane peptidases. <i>Biochemistry and Cell Biology</i> , 2011 , 89, 216-23	3.6	4
22	A perspective on the structural studies of inner membrane electrochemical potential-driven transporters. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 1805-13	3.8	4
21	The crystal structure of the rhomboid peptidase from <i>Haemophilus influenzae</i> provides insight into intramembrane proteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 750-4	11.5	135
20	Eukaryotic major facilitator superfamily transporter modeling based on the prokaryotic GlpT crystal structure. <i>Molecular Membrane Biology</i> , 2007 , 24, 333-41	3.4	41
19	Crystallographic structure of human beta-hexosaminidase A: interpretation of Tay-Sachs mutations and loss of GM2 ganglioside hydrolysis. <i>Journal of Molecular Biology</i> , 2006 , 359, 913-29	6.5	146
18	The crystal structure of Rv0793, a hypothetical monooxygenase from <i>M. tuberculosis</i> . <i>Journal of Structural and Functional Genomics</i> , 2005 , 6, 245-57		8
17	Crystal structure and mechanism of GlpT, the glycerol-3-phosphate transporter from <i>E. coli</i> . <i>Microscopy (Oxford, England)</i> , 2005 , 54 Suppl 1, i43-6	1.3	22
16	Proline residues in transmembrane segment IV are critical for activity, expression and targeting of the Na ⁺ /H ⁺ exchanger isoform 1. <i>Biochemical Journal</i> , 2004 , 379, 31-8	3.8	74
15	The structural basis of substrate translocation by the <i>Escherichia coli</i> glycerol-3-phosphate transporter: a member of the major facilitator superfamily. <i>Current Opinion in Structural Biology</i> , 2004 , 14, 405-12	8.1	72
14	Glycerol-3-phosphate transporter of <i>Escherichia coli</i> : structure, function and regulation. <i>Research in Microbiology</i> , 2004 , 155, 623-9	4	64
13	Purification and characterization of transporter proteins from human erythrocyte membrane. <i>Methods in Molecular Biology</i> , 2003 , 228, 239-55	1.4	6
12	Three-dimensional crystallization of the <i>Escherichia coli</i> glycerol-3-phosphate transporter: a member of the major facilitator superfamily. <i>Protein Science</i> , 2003 , 12, 2748-56	6.3	93
11	Practical aspects of overexpressing bacterial secondary membrane transporters for structural studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003 , 1610, 23-36	3.8	66
10	Structure and mechanism of the glycerol-3-phosphate transporter from <i>Escherichia coli</i> . <i>Science</i> , 2003 , 301, 616-20	33.3	862

9	Importance of detergent and phospholipid in the crystallization of the human erythrocyte anion-exchanger membrane domain. <i>Journal of Structural Biology</i> , 2002 , 137, 322-32	3.4	61
8	High-yield expression and functional analysis of Escherichia coli glycerol-3-phosphate transporter. <i>Biochemistry</i> , 2001 , 40, 6628-35	3.2	72
7	Post-translational modifications of apolipoprotein A-I and Po proteins in the avian peripheral nerve. <i>Neurochemical Research</i> , 1995 , 20, 269-78	4.6	8
6	Biosynthesis and compartmentalization of Po, apolipoprotein A-I, and lipids in the myelinating chick sciatic nerve. <i>Neurochemical Research</i> , 1995 , 20, 1239-48	4.6	2
5	Regulation of 2 β 3 β cyclic nucleotide phosphodiesterase gene expression in experimental peripheral neuropathies. <i>Molecular Brain Research</i> , 1992 , 15, 40-6		11
4	A sensitive and specific genetically encodable biosensor for potassium ions		1
3	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication		12
2	Dwarf open reading frame (DWORF) peptide is a direct activator of the sarcoplasmic reticulum calcium pump SERCA		1
1	N-Terminal finger stabilizes the reversible feline drug GC376 in SARS-CoV-2 Mpro		1