

Gilles Lajoie

List of Publications by Year in descending order

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50
papers

3,191
citations

257450

24
h-index

233421

45
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51
all docs

51
docs citations

51
times ranked

4695
citing authors

#	ARTICLE	IF	CITATIONS
1	PEAKS: powerful software for peptide <i>de novo</i> sequencing by tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 2337-2342.	1.5	1,156
2	The <i>Drosophila</i> Nuclear Receptor E75 Contains Heme and Is Gas Responsive. Cell, 2005, 122, 195-207.	28.9	235
3	Chitinase Genes Responsive to Cold Encode Antifreeze Proteins in Winter Cereals. Plant Physiology, 2000, 124, 1251-1264.	4.8	166
4	Inhibition of hydroxyapatite formation by osteopontin phosphopeptides. Biochemical Journal, 2004, 378, 1083-1087.	3.7	130
5	Control of Calcium Oxalate Crystal Growth by Face-Specific Adsorption of an Osteopontin Phosphopeptide. Journal of the American Chemical Society, 2007, 129, 14946-14951.	13.7	124
6	The Structural Basis of Gas-Responsive Transcription by the Human Nuclear Hormone Receptor REV-ERB β . PLoS Biology, 2009, 7, e1000043.	5.6	115
7	A Method for Systematic Mapping of Protein Lysine Methylation Identifies Functions for HP1 β in DNA Damage Response. Molecular Cell, 2013, 50, 723-735.	9.7	98
8	The <i>Drosophila</i> DHR96 nuclear receptor binds cholesterol and regulates cholesterol homeostasis. Genes and Development, 2009, 23, 2711-2716.	5.9	94
9	Matrix Gla Protein Inhibits Ectopic Calcification by a Direct Interaction with Hydroxyapatite Crystals. Journal of the American Chemical Society, 2011, 133, 18406-18412.	13.7	93
10	Hydrogen/Deuterium Scrambling during Quadrupole Time-of-Flight MS/MS Analysis of a Zinc-Binding Protein Domain. Analytical Chemistry, 2007, 79, 153-160.	6.5	79
11	Roles of Electrostatics and Conformation in Protein-Crystal Interactions. PLoS ONE, 2010, 5, e9330.	2.5	74
12	Comprehensive Identification of Post-translational Modifications of Rat Bone Osteopontin by Mass Spectrometry. Biochemistry, 2005, 44, 6990-7003.	2.5	73
13	Protein kinase CK2 catalyzes tyrosine phosphorylation in mammalian cells. Cellular Signalling, 2008, 20, 1942-1951.	3.6	53
14	Evaluation of the metal binding properties of the histidine-rich antimicrobial peptides histatin 3 and 5 by electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 1736-1745.	1.5	51
15	NMR studies of the antimicrobial salivary peptides histatin 3 and histatin 5 in aqueous and nonaqueous solutions. Biochemistry and Cell Biology, 1998, 76, 247-256.	2.0	47
16	Characterisation of low molecular weight polymers using matrix assisted laser desorption time-of-flight mass spectrometry. European Polymer Journal, 1996, 32, 239-256.	5.4	43
17	Backbone-modified oligopeptidic bioregulators. The synthesis and configuration of thioamide, amidoxime, cyanoamidine, and amidrazone analogs of the chemotactic peptide N-formyl-methionyl-leucyl-phenylalanine (f-Met-Leu-Phe-OR). Canadian Journal of Chemistry, 1985, 63, 3089-3101.	1.1	38
18	Systematic Identification of Methyllysine-Driven Interactions for Histone and Nonhistone Targets. Journal of Proteome Research, 2010, 9, 5827-5836.	3.7	37

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19	The Antarctic Psychrophile <i>Chlamydomonas</i> sp. UWO 241 Preferentially Phosphorylates a Photosystem I-Cytochrome b6/f Supercomplex. <i>Plant Physiology</i> , 2015, 169, 717-736.	4.8	37
20	Synthesis and biological activity of monothionated analogs of leucine-enkephalin. <i>International Journal of Peptide and Protein Research</i> , 1984, 24, 316-327.	0.1	36
21	Productive conformation in the bound state and hydrolytic behavior of thiopeptide analogs of angiotensin-converting enzyme substrates. <i>Journal of the American Chemical Society</i> , 1986, 108, 182-183.	13.7	35
22	Phosphorylation of 69-kDa Choline Acetyltransferase at Threonine 456 in Response to Amyloid- β^2 Peptide 1-42. <i>Journal of Biological Chemistry</i> , 2003, 278, 5883-5893.	3.4	31
23	Mechanism of inhibition of calcium oxalate crystal growth by an osteopontin phosphopeptide. <i>Soft Matter</i> , 2012, 8, 1226-1233.	2.7	31
24	Solution NMR Structure and X-ray Absorption Analysis of the C-Terminal Zinc-Binding Domain of the SecA ATPase. <i>Biochemistry</i> , 2004, 43, 9361-9371.	2.5	30
25	Investigation of cationic peanut peroxidase glycans by electrospray ionization mass spectrometry. <i>Phytochemistry</i> , 2004, 65, 1575-1588.	2.9	25
26	Characterization of photosynthetic ferredoxin from the Antarctic alga <i>Chlamydomonas</i> sp. <i>UWO</i> 241 reveals novel features of cold adaptation. <i>New Phytologist</i> , 2018, 219, 588-604.	7.3	25
27	Protein Kinase C Isoforms Differentially Phosphorylate Human Choline Acetyltransferase Regulating Its Catalytic Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 52059-52068.	3.4	23
28	COMPLEXITIES AND ALGORITHMS FOR GLYCAN SEQUENCING USING TANDEM MASS SPECTROMETRY. <i>Journal of Bioinformatics and Computational Biology</i> , 2008, 06, 77-91.	0.8	23
29	The role of the diphthamide-containing loop within eukaryotic elongation factor 2 in ADP-ribosylation by <i>Pseudomonas aeruginosa</i> exotoxin A. <i>Biochemical Journal</i> , 2008, 413, 163-174.	3.7	21
30	Cooperation of phosphates and carboxylates controls calcium oxalate crystallization in ultrafiltered urine. <i>Urological Research</i> , 2011, 39, 327-338.	1.5	21
31	Étude structurale de la liaison thioamide: Synthèse et conformation de dérivés de la thioalanine et de la thioglycine. <i>Canadian Journal of Chemistry</i> , 1989, 67, 1312-1318.	1.1	20
32	A mass spectrometric investigation of the water-soluble oligomers remaining after the emulsion polymerization of methyl methacrylate. <i>Journal of Polymer Science Part A</i> , 1995, 33, 2297-2304.	2.3	16
33	Crystal and molecular structure of two geometrically restricted chemotactic tripeptides, analogues of formyl-methionine-leucine-phenylalanine*. <i>International Journal of Peptide and Protein Research</i> , 2009, 36, 489-498.	0.1	15
34	Surfactant analysis by matrix-assisted laser desorption time-of-flight mass spectrometry. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 11-15.	1.9	13
35	Some remarkable effects of thiopeptide and derived linkages on lysozyme release from neutrophils by esters of the chemotactic peptide N-formyl-methionyl-leucyl-phenylalanine (f-Met-Leu-Phe-OR). <i>International Journal of Immunopharmacology</i> , 1989, 11, 467-471.	1.1	12
36	A Simple and Convenient Synthesis of <i>tert</i> -Butyl Esters of Fmoc-Aspartic and Fmoc-Glutamic Acids. <i>Synthesis</i> , 1990, 1990, 571-572.	2.3	11

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37	A Procedure for the Large Scale Preparation of N ^ε -Alloc-lysine and N ^ε -Alloc-N ^ε -Fmoc-lysine. Synthetic Communications, 1993, 23, 49-53.	2.1	10
38	Chemical Modification of the Carboxyl Terminal of Nisin A with Biotin does not Abolish Antimicrobial Activity Against the Indicator Organism, Kocuria rhizophila. International Journal of Peptide Research and Therapeutics, 2009, 15, 219-226.	1.9	9
39	Two methods for large-scale purification of recombinant human choline acetyltransferase. Protein Expression and Purification, 2005, 40, 107-117.	1.3	8
40	De Novo Interpretation of Tandem Mass Spectra. Current Protocols in Bioinformatics, 2009, 25, Unit 13.10.	25.8	7
41	Title is missing!. Molecular and Cellular Biochemistry, 2003, 251, 145-151.	3.1	5
42	Chemical Genetic Validation of CSNK2 Substrates Using an Inhibitor-Resistant Mutant in Combination with Triple SILAC Quantitative Phosphoproteomics. Frontiers in Molecular Biosciences, 0, 9, .	3.5	5
43	An Approach for Peptide Identification by De Novo Sequencing of Mixture Spectra. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 326-336.	3.0	4
44	MSDASH: MASS SPECTROMETRY DATABASE AND SEARCH. , 2008, , .		4
45	De Novo Sequencing Assisted Approach for Characterizing Mixture MS/MS Spectra. IEEE Transactions on Nanobioscience, 2016, 15, 166-176.	3.3	2
46	COMPLEXITIES AND ALGORITHMS FOR GLYCAN STRUCTURE SEQUENCING USING TANDEM MASS SPECTROMETRY. , 2007, , .		2
47	NBPMF. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 41-65.	0.4	1
48	Inhibition of human leukocyte elastase (HLE) by disulfide-cyclized analogs of α -antitrypsin (α -AT). , 1992, , 859-860.		0
49	An Approach for Matching Mixture MS/MS Spectra with a Pair of Peptide Sequences in a Protein Database. Lecture Notes in Computer Science, 2015, , 223-234.	1.3	0
50	NBPMF. Advances in Computational Intelligence and Robotics Book Series, 2020, , 228-258.	0.4	0