

# Bert C Lynn

## List of Publications by Citations

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86

papers

3,819

citations

31

h-index

61

g-index

90

ext. papers

4,096

ext. citations

5.7

avg, IF

4.93

L-index

#	Paper	IF	Citations
86	An animal model of age-related macular degeneration in senescent Ccl-2- or Ccr-2-deficient mice. <i>Nature Medicine</i> , <b>2003</b> , 9, 1390-7	50.5	545
85	Proteomic identification of nitrated proteins in Alzheimer's disease brain. <i>Journal of Neurochemistry</i> , <b>2003</b> , 85, 1394-401	6	466
84	Increased levels of 4-hydroxynonenal and acrolein, neurotoxic markers of lipid peroxidation, in the brain in Mild Cognitive Impairment and early Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2006</b> , 27, 1094-9	5.6	284
83	Ferrocenyl iron as a donor group for complexed silver in ferrocenyldimethyl[2.2]cryptand: a redox-switched receptor effective in water. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 10583-10595	16.4	174
82	Proteomic identification of proteins specifically oxidized by intracerebral injection of amyloid beta-peptide (1-42) into rat brain: implications for Alzheimer's disease. <i>Neuroscience</i> , <b>2005</b> , 132, 313-24	3.9	145
81	Quantitative proteomics analysis of specific protein expression and oxidative modification in aged senescence-accelerated-prone 8 mice brain. <i>Neuroscience</i> , <b>2004</b> , 126, 915-26	3.9	138
80	Proteomic identification of proteins oxidized by Aβ(1-42) in synaptosomes: implications for Alzheimer's disease. <i>Brain Research</i> , <b>2005</b> , 1044, 206-15	3.7	128
79	Redox proteomics analysis of oxidatively modified proteins in G93A-SOD1 transgenic mice—a model of familial amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , <b>2005</b> , 39, 453-62	7.8	115
78	Proteomic analysis of specific brain proteins in aged SAMP8 mice treated with alpha-lipoic acid: implications for aging and age-related neurodegenerative disorders. <i>Neurochemistry International</i> , <b>2005</b> , 46, 159-68	4.4	103
77	Proteomic analysis of brain proteins in the gracile axonal dystrophy (gad) mouse, a syndrome that emanates from dysfunctional ubiquitin carboxyl-terminal hydrolase L-1, reveals oxidation of key proteins. <i>Journal of Neurochemistry</i> , <b>2004</b> , 88, 1540-6	6	83
76	Identification of nucleophosmin as an NF-kappaB co-activator for the induction of the human SOD2 gene. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 28209-19	5.4	83
75	Proteomic identification of proteins specifically oxidized in <i>Caenorhabditis elegans</i> expressing human Aβ(1-42): implications for Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2006</b> , 27, 1239-49	5.6	82
74	Proteomic profile changes in membranes of ethanol-tolerant <i>Clostridium thermocellum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 74, 422-32	5.7	69
73	Development of a method for quantification of acrolein-deoxyguanosine adducts in DNA using isotope dilution-capillary LC/MS/MS and its application to human brain tissue. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 5982-9	7.8	68
72	Brevetoxin B: Chemical Modifications, Synaptosome Binding, Toxicity, and an Unexpected Conformational Effect. <i>Journal of Organic Chemistry</i> , <b>1994</b> , 59, 2107-2113	4.2	67
71	Pretreatment of lignocellulosic biomass using Fenton chemistry. <i>Bioresource Technology</i> , <b>2014</b> , 162, 273-81	11	64
70	Nucleic acid oxidation: an early feature of Alzheimer's disease. <i>Journal of Neurochemistry</i> , <b>2014</b> , 128, 294-304	6	64

69	Proteomic analysis of human ventricular cerebrospinal fluid from neurologically normal, elderly subjects using two-dimensional LC-MS/MS. <i>Journal of Proteome Research</i> , <b>2004</b> , 3, 97-103	5.6	62
68	Inhibition of a spliceosome turnover pathway suppresses splicing defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13700-5	11.5	52
67	Detection and quantification of endogenous cyclic DNA adducts derived from trans-4-hydroxy-2-nonenal in human brain tissue by isotope dilution capillary liquid chromatography nano-electrospray tandem mass spectrometry. <i>Chemical Research in Toxicology</i> , <b>2006</b> , 19, 710-8	4	51
66	Quantitative proteomic analysis of mitochondria from primary neuron cultures treated with amyloid beta peptide. <i>Neurochemical Research</i> , <b>2005</b> , 30, 113-22	4.6	51
65	The <i>Toxoplasma gondii</i> parasitophorous vacuole membrane: transactions across the border. <i>Journal of Eukaryotic Microbiology</i> , <b>2007</b> , 54, 25-8	3.6	45
64	Gamma-glutamylcysteine ethyl ester protection of proteins from Aβ(1-42)-mediated oxidative stress in neuronal cell culture: a proteomics approach. <i>Journal of Neuroscience Research</i> , <b>2005</b> , 79, 707-13	4.4	42
63	A versatile prodrug approach for liposomal core-loading of water-insoluble camptothecin anticancer drugs. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 7650-1	16.4	42
62	Proteomics analysis of human astrocytes expressing the HIV protein Tat. <i>Molecular Brain Research</i> , <b>2005</b> , 133, 307-16		41
61	Analysis of derivatized biogenic aldehydes by LC tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 3383-9	7.8	40
60	Isolation of neural precursor cells from Alzheimer's disease and aged control postmortem brain. <i>Neurobiology of Aging</i> , <b>2006</b> , 27, 909-17	5.6	40
59	Analysis of composition and structure of <i>Clostridium thermocellum</i> membranes from wild-type and ethanol-adapted strains. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 82, 929-39	5.7	36
58	Interactions of the yeast SF3b splicing factor. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 10745-54	4.8	35
57	A BBP-Mud2p heterodimer mediates branchpoint recognition and influences splicing substrate abundance in budding yeast. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 2787-98	20.1	34
56	Pyrolysis GC/MS of sinapyl and coniferyl alcohol. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2013</b> , 99, 161-169	6	33
55	Understanding Laccase-Mediated Liquid Interactions toward Biocatalytic Lignin Conversion in Aqueous Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 15928-15938	8.3	30
54	Quantitative proteomic analysis of mitochondria in aging PS-1 transgenic mice. <i>Cellular and Molecular Neurobiology</i> , <b>2009</b> , 29, 649-64	4.6	30
53	Factors that affect ion trap data-dependent MS/MS in proteomics. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2004</b> , 15, 150-7	3.5	30
52	Quantitative changes in the mitochondrial proteome from subjects with mild cognitive impairment, early stage, and late stage Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , <b>2010</b> , 19, 325-39	4.3	29

51	Development of a MALDI-TOF-MS method to identify and quantify butyrylcholinesterase inhibition resulting from exposure to organophosphate and carbamate pesticides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 698-706	3.5	29
50	The Clf1p splicing factor promotes spliceosome assembly through N-terminal tetratricopeptide repeat contacts. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 7875-83	5.4	28
49	Calcium Channel Blockers, Progression to Dementia, and Effects on Amyloid Beta Peptide Production. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2015</b> , 2015, 787805	6.7	25
48	A novel Bicine running buffer system for doubled sodium dodecyl sulfate - polyacrylamide gel electrophoresis of membrane proteins. <i>Electrophoresis</i> , <b>2006</b> , 27, 2984-95	3.6	24
47	Proteomic analysis of oxidatively modified proteins induced by the mitochondrial toxin 3-nitropropionic acid in human astrocytes expressing the HIV protein tat. <i>Molecular Brain Research</i> , <b>2005</b> , 133, 299-306		23
46	Estimation of cation binding properties in crown and lariat ether complexes using fast atom bombardment mass spectrometry. <i>Tetrahedron Letters</i> , <b>1992</b> , 33, 3825-3828	2	23
45	FUsed in sarcoma is a novel regulator of manganese superoxide dismutase gene transcription. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 20, 1550-66	8.4	19
44	Procedure for the isolation of mitochondria, cytosolic and nuclear material from a single piece of neurological tissue for high-throughput mass spectral analysis. <i>Journal of Neuroscience Methods</i> , <b>2011</b> , 197, 279-82	3	17
43	Three-layer sandwich gel electrophoresis: a method of salt removal and protein concentration in proteome analysis. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 4256-65	5.6	17
42	Degradation of camptothecin-20(S)-glycinate ester prodrug under physiological conditions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2004</b> , 35, 1113-25	3.5	15
41	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis for characterization of lignin oligomers using cationization techniques and 2,5-dihydroxyacetophenone (DHAP) matrix. <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33, 811-819	2.2	14
40	Metabolic control of <i>Clostridium thermocellum</i> via inhibition of hydrogenase activity and the glucose transport rate. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1777-84	5.7	14
39	Application of Chloride Adduct Ionization Tandem Mass Spectrometry for Characterizing and Sequencing Synthetic Lignin Model Compounds. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5990-5998	4.1	12
38	Molecular ion stabilization for enhanced tandem mass spectrometry through derivatization for alkylphenols. <i>Rapid Communications in Mass Spectrometry</i> , <b>1998</b> , 12, 171-175	2.2	11
37	Microfluidic capillary zone electrophoresis mass spectrometry analysis of alkaloids in <i>Lobelia cardinalis</i> transgenic and mutant plant cell cultures. <i>Electrophoresis</i> , <b>2019</b> , 40, 2921-2928	3.6	10
36	Hydrogen bonding in macrocyclic receptor systems. <i>Supramolecular Chemistry</i> , <b>1993</b> , 1, 253-260	1.8	10
35	Characterization and sequencing of lithium cationized EO-4 lignin oligomers using higher-energy collisional dissociation mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1047, 104-114	6.6	10
34	Identification of AGE-modified proteins in SH-SY5Y and OLN-93 cells. <i>Neurotoxicity Research</i> , <b>2006</b> , 9, 255-68	4.3	9

33	Inhibition of calpain-mediated cell death by a novel peptide inhibitor. <i>Experimental Neurology</i> , <b>2006</b> , 202, 506-13	5.7	9
32	Interaction of lignin-derived dimer and eugenol-functionalized silica nanoparticles with supported lipid bilayers. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 191, 111028	6	8
31	Experimental and Molecular Dynamics Simulation Study of the Effects of Lignin Dimers on the Gel-to-Fluid Phase Transition in DPPC Bilayers. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 8247-8260	3.4	7
30	Development of a LC/MS/MS method to analyze butyrylcholinesterase inhibition resulting from multiple pesticide exposure. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2009</b> , 877, 3681-5	3.2	7
29	Photooxidative bleaching of chlorophyllin. <i>Free Radical Research</i> , <b>1999</b> , 31 Suppl, S97-105	4	7
28	Modulating Mechanical Properties of Collagen-Lignin Composites.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 3562-3572	4.1	6
27	Waveform activated rearrangement of n-butylbenzene molecular ions during tandem mass spectrometry in the quadrupole ion trap. <i>International Journal of Mass Spectrometry</i> , <b>1999</b> , 190-191, 265-279	1.9	6
26	Analysis of cation macrocycle complexation by fast atom bombardment mass spectrometry. <i>Supramolecular Chemistry</i> , <b>1993</b> , 2, 177-182	1.8	6
25	A novel method for the rapid detection of post-translationally modified visinin-like protein 1 in rat models of brain injury. <i>Brain Injury</i> , <b>2018</b> , 32, 363-380	2.1	5
24	A Novel Plasma Based Biomarker of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 47, 761-774	4.3	5
23	Evaluation of axial DC offsets during scanning of a quadrupole ion trap for sensitivity improvements. <i>Rapid Communications in Mass Spectrometry</i> , <b>2001</b> , 15, 679-84	2.2	4
22	Redox-active macrocycles designed for direct attachment to electrode surfaces. <i>Supramolecular Chemistry</i> , <b>1993</b> , 1, 145-153	1.8	4
21	A Novel Small Molecule Modulator of Amyloid Pathology. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 53, 273-284	4.3	4
20	Reactions of Vinyl Chloride and Methanol in a Quadrupole Ion Trap Mass Spectrometer during VOC Analysis. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 1528-1533	10.3	3
19	Modeling of the recognition site of the NK1 receptor. <i>Computational and Theoretical Chemistry</i> , <b>1996</b> , 366, 65-77		3
18	Multiple cation binding by bola-amphiphilic crown ethers: Assessment by fast atom bombardment mass spectrometry. <i>Supramolecular Chemistry</i> , <b>1993</b> , 1, 195-197	1.8	3
17	Derivatization of diaminocyclohexanes for determination of cis and trans isomers by gas chromatography. <i>Journal of Chromatography A</i> , <b>1987</b> , 408, 211-215	4.5	3
16	Antimicrobial Properties of Corn Stover Lignin Fractions Derived from Catalytic Transfer Hydrogenolysis in Supercritical Ethanol with a Ru/C Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 18455-18467	8.3	3

15	A comparative study of the electrospray ionization response of EO-4 lignin model compounds. <i>Journal of Mass Spectrometry</i> , <b>2019</b> , 54, 540-548	2.2	2
14	Correlating the potentiometric selectivity of cyclosporin-based electrodes with binding patterns obtained from electrospray ionization-mass spectrometry. <i>Analyst, The</i> , <b>2017</b> , 142, 3241-3249	5	2
13	Amine promoted, metal enhanced degradation of Mirex under high temperature conditions. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 135, 437-42	12.8	2
12	Monolignol lithium cation basicity estimates and lithium adduct ion optimized geometries. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 442, 109-116	1.9	1
11	An integrated approach for automating validation of extracted ion chromatographic peaks. <i>Bioinformatics</i> , <b>2008</b> , 24, 2103-4	7.2	1
10	Elimination of affinity reagent interference for the mass spectrometric detection of low-abundance proteins following immunoprecipitation. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 4758-62	5.6	1
9	Waveboard Artifacts Generate Ghost Resonances Consistent with Equations for Predicting Ion Motion in Commercial Quadrupole Ion Traps. <i>European Journal of Mass Spectrometry</i> , <b>2005</b> , 11, 15-21	1.1	1
8	Lithium cation basicity estimates of lignin EO-4 dimers by the kinetic method utilizing a novel ladder approach. <i>International Journal of Mass Spectrometry</i> , <b>2020</b> , 457, 116416	1.9	1
7	Heterogeneous and Homogeneous Components in Gas-Phase Pyrolysis of Hydrolytic Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 12891-12901	8.3	1
6	The study of the chromatographic behavior and a mass spectrometric approach to differentiating the diastereomer pair of the EO-4 lignin dimer series. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 4037-4048	4.4	1
5	Interaction of lignin dimers with model cell membranes: A quartz crystal microbalance and molecular dynamics simulation study. <i>Biointerphases</i> , <b>2021</b> , 16, 041003	1.8	0
4	Controlling bacterial contamination during fuel ethanol fermentation using thermochemically depolymerized lignin bio-oils. <i>Green Chemistry</i> , <b>2021</b> , 23, 6477-6489	10	0
3	Pharmacokinetic and metabolic analysis of an Alzheimer's disease therapeutic in rat serum via microfluidic CZE-MS. <i>Biomedical Chromatography</i> , <b>2021</b> , e5243	1.7	0
2	Target-directed evolution of novel modulators of the dopamine transporter in <i>Lobelia cardinalis</i> hairy root cultures. <i>Journal of Biotechnology</i> , <b>2021</b> , 342, 28-35	3.7	
1	Spherical Ion Recognition. <i>Journal of Japan Oil Chemists Society</i> , <b>1994</b> , 43, 813-820		