

William R Lacourse

List of Publications by Year in descending order

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58
papers

2,334
citations

186265

28
h-index

214800

47
g-index

58
all docs

58
docs citations

58
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid Chromatography with Pulsed Electrochemical Detection at Gold and Platinum Electrodes. <i>Analytical Chemistry</i> , 1990, 62, 589A-597A.	6.5	284
2	Detection of carbohydrates by capillary electrophoresis with pulsed amperometric detection. <i>Analytical Chemistry</i> , 1993, 65, 948-951.	6.5	155
3	Comparison of pulsed coulometric detection and potential-sweep-pulsed coulometric detection for underivatized amino acids in liquid chromatography. <i>Analytical Chemistry</i> , 1989, 61, 555-559.	6.5	136
4	Optimization of waveforms for pulsed amperometric detection of carbohydrates based on pulsed voltammetry. <i>Analytical Chemistry</i> , 1993, 65, 50-55.	6.5	133
5	Pulsed electrochemical detection at noble metal electrodes in liquid chromatography. <i>Electroanalysis</i> , 1992, 4, 367-380.	2.9	97
6	Elastic Properties of the Cell Wall of <i>Aspergillus nidulans</i> Studied with Atomic Force Microscopy. <i>Biotechnology Progress</i> , 2008, 21, 292-299.	2.6	95
7	Point-of-care production of therapeutic proteins of good-manufacturing-practice quality. <i>Nature Biomedical Engineering</i> , 2018, 2, 675-686.	22.5	79
8	Pulsed amperometric detection of aliphatic alcohols in liquid chromatography. <i>Analytical Chemistry</i> , 1991, 63, 134-139.	6.5	74
9	Optimization of waveforms for pulsed amperometric detection (p.a.d.) of carbohydrates following separation by liquid chromatography. <i>Carbohydrate Research</i> , 1991, 215, 159-178.	2.3	74
10	Pulsed electrochemical detection of thiocompounds following microchromatographic separations. <i>Antonica Chimica Acta</i> , 1995, 307, 301-319.	5.4	74
11	Pulsed amperometric detection of alkanolamines following ion-pair chromatography. <i>Analytical Chemistry</i> , 1989, 61, 2466-2471.	6.5	62
12	Genetic analysis of <i>AtGL1</i> reveals complex defense networks and leads to identification of novel defense genes in Arabidopsis. <i>Plant Journal</i> , 2009, 58, 401-412.	5.7	57
13	Anion-exchange separation of carbohydrates with pulsed amperometric detection using a pH-selective reference electrode. <i>Analytical Chemistry</i> , 1990, 62, 220-224.	6.5	54
14	The N2-Ethylguanine and the O6-Ethyl- and O6-Methylguanine Lesions in DNA: Contrasting Responses from the Bypass DNA Polymerase β and the Replicative DNA Polymerase α . <i>Chemical Research in Toxicology</i> , 2003, 16, 1616-1623.	3.3	51
15	Pulsed electrochemical detection of sulfur-containing antibiotics following high performance liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 19, 239-252.	2.8	50
16	Column Liquid Chromatography: Equipment and Instrumentation. <i>Analytical Chemistry</i> , 2002, 74, 2813-2832.	6.5	49
17	Electrocatalytic Oxidations at Electrodeposited Bismuth (III)-Doped Beta-Lead Dioxide Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1989, 136, 3714-3719.	2.9	46
18	Pulsed electrochemical detection of nonchromophoric compounds following capillary electrophoresis. <i>Electrophoresis</i> , 1996, 17, 310-318.	2.4	44

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19	Pulsed electrochemical detection of thiols and disulfides following capillary electrophoresis. <i>Biomedical Applications</i> , 1997, 695, 15-25.	1.7	40
20	A platform for on-site environmental analysis of explosives using high performance liquid chromatography with UV absorbance and photo-assisted electrochemical detection. <i>Talanta</i> , 2005, 66, 581-590.	5.5	40
21	Assay for Cephapirin and Ampicillin in Raw Milk by High-Performance Liquid Chromatography with Integrated Pulsed Amperometric Detection. <i>Analytical Chemistry</i> , 1998, 70, 2415-2420.	6.5	36
22	Determination of iodide and thiosulfate by paired-ion, reversed-phase high-performance liquid chromatography with ultraviolet absorbance, electrochemical, and conductimetric detection. <i>Journal of Chromatography A</i> , 1987, 387, 301-312.	3.7	34
23	Application of Photoassisted Electrochemical Detection to Explosive-Containing Environmental Samples. <i>Analytical Chemistry</i> , 2005, 77, 6709-6714.	6.5	32
24	Photoelectrochemical detector for high-performance liquid chromatography and flow injection analysis. <i>Analytical Chemistry</i> , 1985, 57, 1810-1814.	6.5	31
25	A review of post-column photochemical reaction systems coupled to electrochemical detection in HPLC. <i>Analytica Chimica Acta</i> , 2010, 657, 1-8.	5.4	31
26	The voltammetric response of ethanolamine at gold electrodes in alkaline media. <i>Electroanalysis</i> , 1991, 3, 607-616.	2.9	30
27	Photoelectrochemical detection of benzaldehyde in foodstuffs. <i>Analytical Chemistry</i> , 1987, 59, 49-53.	6.5	29
28	Carbohydrate Analysis of Bacterial Polysaccharides by High-pH Anion-Exchange Chromatography and Online Polarimetric Determination of Absolute Configuration. <i>Analytical Biochemistry</i> , 2002, 303, 176-185.	2.4	29
29	A brief review: HPLC methods to directly detect drug glucuronides in biological matrices (Part I). <i>Analytica Chimica Acta</i> , 2006, 556, 255-266.	5.4	29
30	A review of pulsed electrochemical detection following liquid chromatography and capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2015, 861, 1-11.	5.4	28
31	Experimental determination and calculations of redox potential descriptors of compounds directed against retroviral zinc fingers: Implications for rational drug design. <i>Protein Science</i> , 2008, 10, 1434-1445.	7.6	27
32	An improved method to detect ethyl glucuronide in urine using reversed-phase liquid chromatography and pulsed electrochemical detection. <i>Analytica Chimica Acta</i> , 2006, 576, 239-245.	5.4	23
33	Pulsed Amperometric Detection of Microdialysates from the Glucose Oxidase Reaction. <i>Analytical Chemistry</i> , 1998, 70, 801-806.	6.5	19
34	Determination of ethyl glucuronide in urine using reversed-phase HPLC and pulsed electrochemical detection (Part II). <i>Analytica Chimica Acta</i> , 2006, 556, 267-274.	5.4	19
35	Photoelectrochemical detection in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 1985, 4, 118-124.	11.4	17
36	Determination of sulfur-containing antibiotics using high-performance liquid chromatography with integrated pulsed amperometric detection. <i>Drug Development Research</i> , 2001, 53, 268-280.	2.9	17

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37	Indirect pulsed electrochemical detection of amino acids and proteins following high performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2009, 652, 198-204.	5.4	17
38	Thermochemistry of the reaction { phospho enol pyruvate(aq)+d -erythrose 4-phosphate(aq) + H ₂ O(l) = 2-dehydro-3-deoxy- d - arabino -heptonate 7-phosphate(aq) + phosphate(aq) }. <i>Journal of Chemical Thermodynamics</i> , 2001, 33, 1791-1805.	2.0	15
39	Comparing the Performance of the Optical Glucose Assay Based on Glucose Binding Protein with High-Performance Anion-Exchange Chromatography with Pulsed Electrochemical Detection: Efforts to Design a Low-Cost Point-of-Care Glucose Sensor. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 864-872.	2.2	15
40	Determination of thio-based additives for biopharmaceuticals by pulsed electrochemical detection following HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 37, 19-25.	2.8	13
41	Characterization of Tobacco Products by High-Performance Anion Exchange Chromatography~Pulsed Amperometric Detection. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 1773-1779.	5.2	12
42	Rapid purification of RNA secondary structures. <i>Nucleic Acids Research</i> , 2003, 31, 135e-135.	14.5	12
43	Monitoring carbohydrate enzymatic reactions by quantitative in vitro microdialysis. <i>Journal of Chromatography A</i> , 2006, 1118, 125-133.	3.7	12
44	Desorption atmospheric pressure chemical ionization: A review. <i>Analytica Chimica Acta</i> , 2020, 1130, 146-154.	5.4	12
45	Photolysis and photo cyclic voltammetry as mechanistic tools. <i>Analytical Chemistry</i> , 1987, 59, 1366-1372.	6.5	11
46	Chapter 25 Pulsed electrochemical detection of carbohydrates at noble metal electrodes following liquid chromatographic and electrophoretic separation. <i>Journal of Chromatography Library</i> , 2002, 66, 905-946.	0.1	11
47	Characterization of a Direct Sample Analysis (DSA) Ambient Ionization Source. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1502-1507.	2.8	11
48	Chapter 10 Pulsed Electrochemical Detection of Carbohydrates at Gold Electrodes Following Liquid Chromatographic Separation. <i>Journal of Chromatography Library</i> , 1995, 58, 391-429.	0.1	10
49	Polymerization Past the N2-Isopropylguanine and the N6-Isopropyladenine DNA Lesions with the Translesion Synthesis DNA Polymerases Î· and Î¹ and the Replicative DNA Polymerase Î±. <i>Chemical Research in Toxicology</i> , 2005, 18, 1451-1461.	3.3	10
50	Synthesis of amide libraries with immobilized HOBt. <i>Tetrahedron Letters</i> , 2011, 52, 2722-2724.	1.4	10
51	The mechanism of photoelectrochemical detection of alkyl and aryl ketones and aldehydes. <i>Analytica Chimica Acta</i> , 1988, 215, 45-60.	5.4	8
52	Separation of modified 2-â€²-deoxyoligonucleotides using ion-pairing reversed-phase HPLC. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 820, 157-163.	2.3	8
53	Analysis of hop acids by thin-layer chromatography and the Molecular Ionization Desorption Analysis Source (MIDAS) for mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 74-79.	1.5	7
54	Awareness, Analysis, and Action: Curricular Alignment for Student Success in General Chemistry. <i>Journal of Chemical Education</i> , 2018, 95, 242-247.	2.3	4

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55	Indirect pulsed electrochemical detection following high-performance reversed-phase liquid chromatography. <i>Talanta</i> , 2019, 199, 155-163.	5.5	4
56	Indirect pulsed electrochemical detection of aliphatic carboxylate-containing analytes following high performance anion-exchange chromatography. <i>Talanta</i> , 2016, 146, 594-602.	5.5	3
57	Students' Understanding and Perceptions of Assigned Team Roles in a Classroom Laboratory Environment. <i>Journal of College Science Teaching</i> , 2018, 47, 83-91.	0.4	2
58	Rapid characterization of vanilla with Molecular Ionization Desorption Analysis Source (MIDAS) for mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2022, 479, 116888.	1.5	2