

Apryll M Stalcup

List of Publications by Year in descending order

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116
papers

4,352
citations

116194

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63
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123
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123
docs citations

123
times ranked

3245
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary Electrophoretic Application of 1-Alkyl-3-methylimidazolium-Based Ionic Liquids. <i>Analytical Chemistry</i> , 2001, 73, 3838-3844.	3.2	310
2	Cyclodextrins: a versatile tool in separation science. <i>Biomedical Applications</i> , 2000, 745, 83-102.	1.7	308
3	Application of Sulfated Cyclodextrins to Chiral Separations by Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , 1996, 68, 1360-1368.	3.2	237
4	Derivatized cyclodextrins for normal-phase liquid chromatographic separation of enantiomers. <i>Analytical Chemistry</i> , 1990, 62, 1610-1615.	3.2	199
5	(S)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1990, 513, 181-194.	1.8	147
6	Heparin: A Chiral Mobile-Phase Additive for Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , 1994, 66, 3054-3059.	3.2	132
7	Retention characteristics of a new butylimidazolium-based stationary phase. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 728-734.	1.9	114
8	Ionic Liquids in Chromatography and Capillary Electrophoresis. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2004, 27, 1443-1459.	0.5	110
9	Chiral Separations. <i>Annual Review of Analytical Chemistry</i> , 2010, 3, 341-363.	2.8	109
10	Initial Studies of Selenium Speciation in Brassica juncea by LC with ICP-MS and ES-MS Detection: An Approach for Phytoremediation Studies. <i>Analytical Chemistry</i> , 2002, 74, 107-113.	3.2	107
11	Comprehensive strategy for chiral separations using sulfated cyclodextrins in capillary electrophoresis. <i>Chirality</i> , 2003, 15, 709-723.	1.3	107
12	Enantiomeric Separations of Terbutaline by CE with a Sulfated β -Cyclodextrin Chiral Selector: A Quantitative Binding Study. <i>Analytical Chemistry</i> , 1998, 70, 5166-5171.	3.2	101
13	Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1991, 540, 113-128.	1.8	98
14	Tetraethylammonium tetrafluoroborate: a novel electrolyte with a unique role in the capillary electrophoretic separation of polyphenols found in grape seed extracts. <i>Analyst</i> , 2000, 125, 1919-1923.	1.7	77
15	Quinine as a chiral additive in nonaqueous capillary zone electrophoresis. <i>Journal of Separation Science</i> , 1996, 8, 145-150.	1.0	72
16	Capillary Electrophoretic Chiral Separations Using a Sulfated β -Cyclodextrin-Containing Electrolyte. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1995, 18, 1289-1315.	0.9	70
17	Capillary gas chromatographic separation of enantiomers with stable dipentyl- α , β - and γ -cyclodextrin-derivatized stationary phases. <i>Analytica Chimica Acta</i> , 1990, 234, 365-380.	2.6	69
18	Development of chiral HPLC for selenoamino acids with ICP-MS detection: application to selenium nutritional supplements. <i>Analyst</i> , 2000, 125, 281-286.	1.7	66

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19	A Sulfated Cyclodextrin Chiral Stationary Phase for High-Performance Liquid Chromatography. <i>Analytical Chemistry</i> , 1996, 68, 1369-1374.	3.2	62
20	Characterization of a Water-Soluble, Helical β -Peptide. <i>Journal of Organic Chemistry</i> , 1999, 64, 2176-2177.	1.7	60
21	Characterization of a novel pyridinium bromide surface confined ionic liquid stationary phase for high-performance liquid chromatography under normal phase conditions via linear solvation energy relationships. <i>Journal of Chromatography A</i> , 2008, 1191, 67-71.	1.8	59
22	Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis. <i>Analytica Chimica Acta</i> , 1995, 307, 185-191.	2.6	55
23	Capillary Zone Electrophoresis Study of Naphthylethylcarbamoylated β -Cyclodextrins. <i>Analytical Chemistry</i> , 1995, 67, 19-25.	3.2	54
24	Laser assisted synthesis of carbon nanoparticles with controlled viscosities for printing applications. <i>Journal of Colloid and Interface Science</i> , 2015, 447, 263-268.	5.0	52
25	Thermodynamic comparison of monomeric and polymeric C18 bonded phases using aqueous methanol and acetonitrile mobile phases. <i>Journal of Chromatography A</i> , 1988, 442, 1-14.	1.8	50
26	A brief introduction to analytical methods in nuclear forensics. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 1385-1393.	0.7	50
27	Characterization of surface-confined ionic liquid stationary phases: impact of cation and anion identity on retention. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 283-294.	1.9	49
28	Sulfated cyclodextrins for the chiral separations of catecholamines and related compounds in the reversed electrophoretic polarity mode. , 1996, 8, 316-324.		48
29	Electrosynthesis and analytical performances of functionalized poly (pyrrole/ β -cyclodextrin) films. <i>Talanta</i> , 2005, 66, 111-117.	2.9	48
30	The effect of excipients on the stability of levothyroxine sodium pentahydrate tablets. <i>International Journal of Pharmaceutics</i> , 2003, 264, 35-43.	2.6	45
31	Capillary electrophoretic and nuclear magnetic resonance studies of interactions between halophenols and ionic liquid or tetraalkylammonium cations. <i>Journal of Chromatography A</i> , 2003, 1007, 179-187.	1.8	44
32	Separation of peptides by HPLC using a surface-confined ionic liquid stationary phase. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 775-781.	1.9	43
33	Determination of levothyroxine and its degradation products in pharmaceutical tablets by HPLC-UV-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 107.	1.6	40
34	Mobile phase effects on retention on a new butylimidazolium-based high-performance liquid chromatographic stationary phase. <i>Journal of Chromatography A</i> , 2006, 1126, 276-282.	1.8	40
35	Chiral capillary electrophoresis with noncyclic oligo- and polysaccharide chiral selectors. <i>Electrophoresis</i> , 1997, 18, 2297-2304.	1.3	39
36	Application of a modified linear solvation energy relationship (LSER) model to retention on a butylimidazolium-based column for high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 467-475.	1.8	38

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37	Retention characteristics of a new butylimidazolium-based stationary phase. Part II: anion exchange and partitioning. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 897-905.	1.9	37
38	Determination of Enantiomers in Human Serum by Direct Injection onto a β -Cyclodextrin HPLC Bonded Phase. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1992, 15, 29-37.	0.9	35
39	Application of heparin to chiral separations of antihistamines by capillary electrophoresis. <i>Electrophoresis</i> , 1998, 19, 2119-2123.	1.3	34
40	Microchannel fabrication on cyclic olefin polymer substrates via 1064 nm Nd:YAG laser ablation. <i>Applied Surface Science</i> , 2016, 387, 603-608.	3.1	33
41	Enantiomeric separation of chiral components reported to be in coffee, tea, or cocoa. <i>Journal of Agricultural and Food Chemistry</i> , 1993, 41, 1684-1689.	2.4	31
42	Application of Classical Gel Electrophoresis to the Chiral Separation of Milligram Quantities of Terbutaline. <i>Analytical Chemistry</i> , 1998, 70, 144-148.	3.2	30
43	Charged cyclodextrin-mediated sample stacking in micellar capillary electrophoresis. <i>Biomedical Applications</i> , 1999, 731, 369-381.	1.7	28
44	Analytical Performance of Polymer-Based Microfluidic Devices Fabricated By Computer Numerical Controlled Machining. <i>Analytical Chemistry</i> , 2006, 78, 936-941.	3.2	28
45	Rapid determination of surfactant critical micelle concentrations using pressure-driven flow with capillary electrophoresis instrumentation. <i>Journal of Chromatography A</i> , 2009, 1216, 8431-8434.	1.8	28
46	Separation of Cyclodextrins Using Cyclodextrin Bonded Phases. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1988, 11, 3295-3304.	0.9	27
47	Electrochemically aided solid phase microextraction: conducting polymer film material applicable for cationic analytes. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 494-497.	1.2	27
48	A simple one-step electrosynthesis of poly(pyrrole-sulfated β -cyclodextrin) films. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 391-395.	1.2	27
49	Quantitative determination of clenbuterol, salbutamol and tulobuterol enantiomers by capillary electrophoresis. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 212-219.	1.5	25
50	Affinity capillary electrophoresis and isothermal titration calorimetry for the determination of fatty acid binding with beta-cyclodextrin. <i>Journal of Chromatography A</i> , 2008, 1204, 171-182.	1.8	25
51	Sorption-desorption of carbamazepine by palygorskite-montmorillonite (PM) filter medium. <i>Journal of Hazardous Materials</i> , 2015, 282, 183-193.	6.5	24
52	Separation of carotenes on cyclodextrin-bonded phases. <i>Journal of Chromatography A</i> , 1990, 499, 627-635.	1.8	23
53	Comparison of the Enantioselectivity of Phenethyl- and Naphthylethyl-Carbamate Substituted Cyclodextrin Bonded Phases. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1993, 16, 127-147.	0.9	22
54	Study of injection bias in a simple hydrodynamic injection in microchip CE. <i>Electrophoresis</i> , 2007, 28, 1564-1571.	1.3	21

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55	Normal Phase TLC Separation of Enantiomers Using Chiral Ion Interaction Agents. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1990, 13, 1091-1103.	0.9	20
56	Preparation and Analysis of 1-Chloronaphthalene for Highly Refractive Electrowetting Optics. <i>Langmuir</i> , 2009, 25, 10413-10416.	1.6	20
57	Separation of Enantiomers Using a β -Cyclodextrin Liquid Chromatographic Bonded Phase. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1990, 13, 473-484.	0.9	19
58	Separation of Aromatic Acids, DOPA, and Methyl-DOPA by Capillary Electrophoresis with Dendrimers as Buffer Additives. <i>Journal of Chromatographic Science</i> , 1998, 36, 146-154.	0.7	19
59	Pulsed laser deposition of plasmonic nanostructured gold on flexible transparent polymers at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 245303.	1.3	19
60	Determination of the enantiomeric purity of scopolamine isolated from plant extract using achiral/chiral coupled column chromatography. <i>Biomedical Chromatography</i> , 1991, 5, 3-7.	0.8	18
61	A comparison of vancomycin and sulfated beta-cyclodextrin as chiral selectors for enantiomeric separations of selenoamino acids using capillary electrophoresis with UV absorbance detection. <i>Analyst, The</i> , 2000, 125, 231-234.	1.7	18
62	Use of capillary electrophoresis as a method development tool for classical gel electrophoresis. <i>Analyst, The</i> , 1998, 123, 1477-1480.	1.7	17
63	Characterization of surface confined ionic liquid stationary phases: Impact of cation revisited. <i>Journal of Chromatography A</i> , 2014, 1364, 171-182.	1.8	17
64	Chiral Separation of Chloroquine Using Heparin as a Chiral Selector in High-Performance Liquid Chromatography. <i>Analytical Chemistry</i> , 1996, 68, 2248-2250.	3.2	16
65	Impact of triethylamine as a mobile phase additive on the resolution of racemic amino acids on an (+)-18-crown-6-tetracarboxylic acid-derived chiral stationary phase. <i>Journal of Chromatography A</i> , 2001, 933, 83-90.	1.8	16
66	NORMAL PHASE CHIRAL SEPARATION OF HEXAHELICENE ISOMERS USING A CHIRAL SURFACE CONFINED IONIC LIQUID STATIONARY PHASE. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2014, 37, 893-906.	0.5	16
67	Charged chelate capillary electrophoresis of endogenous corticosteroids. <i>Electrophoresis</i> , 1998, 19, 3045-3051.	1.3	14
68	Continuous free flow electrophoresis for preparative chiral separations of piperoxan using sulfated β -cyclodextrin. <i>Analyst, The</i> , 2000, 125, 1719-1724.	1.7	14
69	A comparison of phosphated and sulfated β -cyclodextrins as chiral selectors for capillary electrophoresis. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 412-417.	1.5	14
70	VISCOSITY ESTIMATION IN BINARY AND TERNARY SUPERCRITICAL FLUID MIXTURES CONTAINING CARBON DIOXIDE USING A SUPERCRITICAL FLUID CHROMATOGRAPH. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2011, 34, 995-1003.	0.5	14
71	Surprising absence of heparin in the intestinal mucosa of baby pigs. <i>Glycobiology</i> , 2017, 27, 57-63.	1.3	14
72	Optical enrichment of dansyl-rac-amino acids by formation of crystalline inclusion complexes with cyclodextrins. <i>Chirality</i> , 1989, 1, 137-141.	1.3	13

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73	The use of circular dichroism as a simple heparin-screening strategy. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 701-706.	1.9	13
74	A comparative assessment of water-soluble selenium metabolites in commercial selenised yeast supplements by liquid chromatography-electrospray ionisation QTOF-MS. <i>International Journal of Mass Spectrometry</i> , 2019, 439, 42-52.	0.7	13
75	Synthesis and characterization of novel bonded phases for reversed-phase liquid chromatography. <i>Chromatographia</i> , 1989, 27, 405-411.	0.7	12
76	Use of Dyes To Investigate Migration of the Chiral Selector in CFFE and the Impact on the Chiral Separations. <i>Analytical Chemistry</i> , 2001, 73, 3999-4005.	3.2	12
77	Interactions of chiral molecules with an (r)-n-(3,5-dinitrobenzoyl) phenylglycine HPLC stationary phase. <i>Chirality</i> , 1990, 2, 38-42.	1.3	9
78	Heparin-induced circular dichroism of an achiral, bicyclic species. <i>Chirality</i> , 2011, 23, 84-92.	1.3	9
79	Uranium isotopic signatures measured in samples of dirt collected at two former uranium facilities. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 301, 307-313.	0.7	9
80	Predicting the Strength of Anion-π Interactions of Substituted Benzenes: the Development of Anion-π Binding Substituent Constants. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9235-9243.	1.1	9
81	Nanoparticle functionalized laser patterned substrate: an innovative route towards low cost biomimetic platforms. <i>RSC Advances</i> , 2017, 7, 8060-8069.	1.7	9
82	Comparison of 1-(1-naphthyl)ethylcarbamate derivatives of a carbohydrate bonded chiral stationary phase. <i>Journal of Chromatography A</i> , 1995, 695, 185-193.	1.8	8
83	Separation of benzodiazepines on a new carbohydrate-based chiral stationary phase for HPLC. <i>Biomedical Chromatography</i> , 1997, 11, 325-330.	0.8	8
84	Optimization of preparative electrophoretic chiral separation of ritalin enantiomers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 27, 639-650.	1.4	8
85	Separation of cocaine stereoisomers by capillary electrophoresis using sulfated cyclodextrins. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 134-137.	1.9	8
86	The use of SAX-HPLC-CD as a heparin screening strategy. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2619-2623.	1.2	8
87	Taguchi method modelling of Nd:YAG laser ablation of microchannels on cyclic olefin polymer film. <i>Optics and Laser Technology</i> , 2018, 106, 265-271.	2.2	8
88	Separation of Porphyrins Using a β-Cyclodextrin Stationary Phase. , 1994, 17, 1111-1124.		7
89	CHIRAL SEPARATIONS USING HEPARIN AND POLYELECTROLYTE MULTILAYERS IN CAPILLARY ELECTROPHORESIS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2014, 37, 2218-2231.	0.5	7
90	Development and validation of a new stability indicating reversed phase liquid chromatographic method for the determination of prednisolone acetate and impurities in an ophthalmic suspension. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 102, 261-266.	1.4	7

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91	Separation of Enantiomers Using an (S)-Naphthylethylcarbamoylated β -Cyclodextrin Stationary Phase. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1993, 16, 209-223.	0.9	6
92	Heparin-induced circular dichroism of chloroquine. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 28-30.	1.0	6
93	Radiological chronometry of uranium metal samples. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 1833-1837.	0.7	6
94	The mechanics of getting tenure. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1-5.	1.9	5
95	Chromatography with Cyclodextrin-Based Stationary Phases. , 1993, , 189-202.		5
96	Regioselective synthesis and characterization of naphthylethylcarbamoyl- β -cyclodextrins. <i>Carbohydrate Research</i> , 1993, 248, 119-128.	1.1	4
97	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 43, 43-50.	1.6	4
98	Modeling revealed circular dichroism for quinacrine in the presence of heparin. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 628-632.	1.0	4
99	The mechanics of granting tenure: suggestions for academic departments. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1-7.	1.9	4
100	Alpha spectrometric evaluation of SRM-995 as a potential uranium/thorium double tracer system for age-dating uranium materials. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 1085-1090.	0.7	4
101	"We think your son has Lennox-Gastaut syndrome" "A Case Study of Monosodium Glutamate's Possible Effect on a Child" Although results from a case study are rarely published in the <i>Journal of the American Dietetic Association</i> , the data in this article are of sufficient interest to present as a Research and Professional Briefs article. <i>Journal of the American Dietetic Association</i> , 1997, 97, 793-794.	1.3	3
102	Laser micro-engineering of functionalised cyclic olefin polymers for microfluidic applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
103	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 43, 37-42.	1.6	2
104	An online fiber-optic UV-visible detector for continuous free-flow electrophoresis. <i>Electrophoresis</i> , 2005, 26, 4270-4276.	1.3	2
105	The development of an FIA-CD strategy for screening sulfated polysaccharides using antimalarial drugs and related species as probes. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 707-716.	1.9	2
106	Laser-assisted synthesis of ultrapure nanostructures for biological sensing applications. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
107	The Impact of Membrane Composition and Co-Drug Synergistic Effects on Vancomycin Association with Model Membranes from Electrochemical Impedance Spectroscopy. <i>ChemElectroChem</i> , 2020, 7, 4507-4507.	1.7	2
108	Chiral Separations. , 2006, , 987-1051.		1

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109	Interactions between minimum run time, modifier concentration, and efficiency parameters in a high performance liquid chromatography separation. <i>Journal of Chromatography A</i> , 2011, 1218, 218-228.	1.8	1
110	Radiochronological age of a uranium metal sample from an abandoned facility. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 296, 669.	0.7	1
111	Surviving toxic work environments. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1145-1147.	1.9	1
112	Some ruminations on graduate students. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6239-6243.	1.9	1
113	Use of HPLC retention to investigate new P descriptors designed to represent ion-π interactions. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2020, 43, 83-93.	0.5	1
114	Fabrication of microstructured planar chromatography platforms via laser ablation. <i>Journal of Liquid Chromatography and Related Technologies</i> , 0, , 1-6.	0.5	1
115	Electrophoretically Driven Preparative Chiral Separations Using Cyclodextrins. , 0, , 287-298.		0
116	Ionic liquids in liquid chromatography. <i>Analytical Chemistry Series</i> , 2008, , 167-183.	0.0	0