Caroline West

List of Publications by Year
in descending order

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95 papers	4,613 citations	81839 39 h-index	106281 65 g-index
102 all docs	102 docs citations	102 times ranked	2446 citing authors

#	Article	IF	Citations
1	The many faces of packed column supercritical fluid chromatography â€“ A critical review. Journal of Chromatography A, 2015, 1382, 2-46.	1.8	323
2	Modern analytical supercritical fluid chromatography using columns packed with sub-2Î¼m particles: A tutorial. Analytica Chimica Acta, 2014, 824, 18-35.	2.6	234
3	Porous graphitic carbon: A versatile stationary phase for liquid chromatography. Journal of Chromatography A, 2010, 1217, 3201-3216.	1.8	230
4	Investigations on the chromatographic behaviour of zwitterionic stationary phases used in hydrophilic interaction chromatography. Journal of Chromatography A, 2011, 1218, 5939-5963.	1.8	160
5	A unified classification of stationary phases for packed column supercritical fluid chromatography. Journal of Chromatography A, 2008, 1191, 21-39.	1.8	150
6	Current trends in supercritical fluid chromatography. Analytical and Bioanalytical Chemistry, 2018, 410, 6441-6457.	1.9	149
7	Recent trends in chiral supercritical fluid chromatography. TrAC - Trends in Analytical Chemistry, 2019, 120, 115648.	5.8	126
8	Characterisation of stationary phases in subcritical fluid chromatography with the solvation parameter model. Journal of Chromatography A, 2006, 1110, 200-213.	1.8	118
9	An improved classification of stationary phases for ultra-high performance supercritical fluid chromatography. Journal of Chromatography A, 2016, 1440, 212-228.	1.8	112
10	Approach to hydrophilic interaction chromatography column selection: Application to neurotransmitters analysis. Journal of Chromatography A, 2010, 1217, 3091-3104.	1.8	110
11	Unravelling the effects of mobile phase additives in supercritical fluid chromatography. Part I: Polarity and acidity of the mobile phase. Journal of Chromatography A, 2017, 1492, 136-143.	1.8	109
12	Enantioselective Separations with Supercritical Fluids - Review. Current Analytical Chemistry, 2013, 10, 99-120.	0.6	106
13	Characterisation of stationary phases in subcritical fluid chromatography with the solvation parameter model IV. Journal of Chromatography A, 2006, 1115, 233-245.	1.8	97
14	Characterization of stationary phases in subcritical fluid chromatography by the solvation parameter model. Journal of Chromatography A, 2006, 1110, 181-190.	1.8	93
15	Use and practice of achiral and chiral supercritical fluid chromatography in pharmaceutical analysis and purification. Journal of Separation Science, 2016, 39, 212-233.	1.3	91
16	Description and comparison of chromatographic tests and chemometric methods for packed column classification. Journal of Chromatography A, 2007, 1158, 329-360.	1.8	87
17	Effects of mobile phase composition on retention and selectivity in achiral supercritical fluid chromatography. Journal of Chromatography A, 2013, 1302, 152-162.	1.8	74
18	Effects of mobile phase composition and temperature on the supercritical fluid chromatography enantioseparation of chiral fluoro-oxoindole-type compounds with chlorinated polysaccharide stationary phases. Journal of Chromatography A, 2012, 1269, 325-335.	1.8	70

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19	Orthogonal screening system of columns for supercritical fluid chromatography. Journal of Chromatography A, 2008, 1203, 105-113.	1.8	69
20	Characterization and use of hydrophilic interaction liquid chromatography type stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2012, 1250, 182-195.	1.8	66
21	Characterization of five chemistries and three particle sizes of stationary phases used in supercritical fluid chromatography. Journal of Chromatography A, 2013, 1319, 148-159.	1.8	66
22	Classification of special octadecyl-bonded phases by the carotenoid test. Journal of Chromatography A, 2006, 1111, 62-70.	1.8	65
23	Characterisation of stationary phases in subcritical fluid chromatography by the solvation parameter model. Journal of Chromatography A, 2006, 1110, 191-199.	1.8	63
24	Improved separation of furocoumarins of essential oils by supercritical fluid chromatography. Journal of Chromatography A, 2009, 1216, 7088-7095.	1.8	58
25	Insights into chiral recognition mechanisms in supercritical fluid chromatography. II. Factors contributing to enantiomer separation on tris-(3,5-dimethylphenylcarbamate) of amylose and cellulose stationary phases. Journal of Chromatography A, 2011, 1218, 2033-2057.	1.8	58
26	Development of an achiral supercritical fluid chromatography method with ultraviolet absorbance and mass spectrometric detection for impurity profiling of drug candidates. Part I: Optimization of mobile phase composition. Journal of Chromatography A, 2015, 1408, 217-226.	1.8	57
27	Unravelling the effects of mobile phase additives in supercritical fluid chromatographyâ€"Part II: Adsorption on the stationary phase. Journal of Chromatography A, 2019, 1593, 135-146.	1.8	54
28	Comparison of liquid and supercritical fluid chromatography mobile phases for enantioselective separations on polysaccharide stationary phases. Journal of Chromatography A, 2016, 1467, 463-472.	1.8	52
29	Effects of modifiers in subcritical fluid chromatography on retention with porous graphitic carbon. Journal of Chromatography A, 2005, 1087, 64-76.	1.8	50
30	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. Journal of Pharmaceutical and Biomedical Analysis, 2018, 161, 414-424.	1.4	47
31	Insights into chiral recognition mechanisms in supercritical fluid chromatography V. Effect of the nature and proportion of alcohol mobile phase modifier with amylose and cellulose tris-(3,5-dimethylphenylcarbamate) stationary phases. Journal of Chromatography A, 2014, 1373, 197-210.	1.8	46
32	Insights into chiral recognition mechanisms in supercritical fluid chromatography. I. Non-enantiospecific interactions contributing to the retention on tris-(3,5-dimethylphenylcarbamate) amylose and cellulose stationary phases. Journal of Chromatography A, 2011, 1218, 2019-2032.	1.8	44
33	Detection of gunpowder stabilizers with ion mobility spectrometry. Forensic Science International, 2007, 166, 91-101.	1.3	43
34	Deconvoluting the effects of buffer salt concentration in hydrophilic interaction chromatography on a zwitterionic stationary phase. Journal of Chromatography A, 2016, 1461, 92-97.	1.8	43
35	Supercritical fluid extracts from the Brazilian cherry (Eugenia uniflora L.): Relationship between the extracted compounds and the characteristic flavour intensity of the fruit. Food Chemistry, 2011, 124, 85-92.	4.2	42
36	Enantioseparation of novel chiral sulfoxides on chlorinated polysaccharide stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2017, 1499, 174-182.	1.8	42

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37	A chiral unified chromatographyâ€“mass spectrometry method to analyze free amino acids. Analytical and Bioanalytical Chemistry, 2019, 411, 4909-4917.	1.9	42
38	Separation of substituted aromatic isomers with porous graphitic carbon in subcritical fluid chromatography. Journal of Chromatography A, 2005, 1099, 175-184.	1.8	40
39	Effects of selected parameters on the response of the evaporative light scattering detector in supercritical fluid chromatography. Journal of Chromatography A, 2012, 1250, 220-226.	1.8	40
40	An attempt to estimate ionic interactions with phenyl and pentafluorophenyl stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2015, 1412, 126-138.	1.8	40
41	Advantages of the use of monolithic stationary phases for modelling the retention in sub/supercritical chromatography. Journal of Chromatography A, 2003, 1018, 225-232.	1.8	38
42	Characterisation of stationary phases in supercritical fluid chromatography with the solvation parameter model. Journal of Chromatography A, 2007, 1169, 205-219.	1.8	37
43	Combined supercritical fluid chromatographic tests to improve the classification of numerous stationary phases used in reversed-phase liquid chromatography. Journal of Chromatography A, 2008, 1189, 227-244.	1.8	36
44	Comparison of ultra-high performance methods in liquid and supercritical fluid chromatography coupled to electrospray ionization â€“ mass spectrometry for impurity profiling of drug candidates. Journal of Chromatography A, 2016, 1472, 117-128.	1.8	36
45	Insights into chiral recognition mechanism in supercritical fluid chromatography IV. Chlorinated polysaccharide stationary phases. Journal of Chromatography A, 2014, 1363, 294-310.	1.8	35
46	Combined supercritical fluid chromatographic methods for the characterization of octadecylsiloxane-bonded stationary phases. Journal of Chromatography A, 2007, 1149, 345-357.	1.8	34
47	Insights into chiral recognition mechanism in supercritical fluid chromatography III. Non-halogenated polysaccharide stationary phases. Journal of Chromatography A, 2014, 1363, 278-293.	1.8	33
48	Development and validation of a supercritical fluid chromatography method for the direct determination of enantiomeric purity of provitamin B5 in cosmetic formulations with mass spectrometric detection. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 321-325.	1.4	33
49	Development of an achiral supercritical fluid chromatography method with ultraviolet absorbance and mass spectrometric detection for impurity profiling of drug candidates. Part II. Selection of an orthogonal set of stationary phases. Journal of Chromatography A, 2015, 1408, 227-235.	1.8	32
50	Chiral separation of phospineâ€containing Î±â€amino acid derivatives using two complementary cellulosic stationary phases in supercritical fluid chromatography. Chirality, 2010, 22, 242-251.	1.3	29
51	Chemometric methods to classify stationary phases for achiral packed column supercritical fluid chromatography. Journal of Chemometrics, 2012, 26, 52-65.	0.7	29
52	In-depth characterization of six cellulose tris-(3,5-dimethylphenylcarbamate) chiral stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2013, 1303, 83-93.	1.8	28
53	Molecularly imprinted polymer applied to the selective isolation of urinary steroid hormones: An efficient tool in the control of natural steroid hormones abuse in cattle. Journal of Chromatography A, 2012, 1270, 51-61.	1.8	26
54	Sum of ranking differences to rank stationary phases used in packed column supercritical fluid chromatography. Journal of Chromatography A, 2015, 1409, 241-250.	1.8	26

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55	Development and validation of ultra-high performance supercritical fluid chromatography method for quantitative determination of nine sunscreens in cosmetic samples. Analytica Chimica Acta, 2018, 1034, 184-194.	2.6	26
56	Possibility of predicting separations in supercritical fluid chromatography with the solvation parameter model. Journal of Chromatography A, 2009, 1216, 5600-5607.	1.8	25
57	Pâ€“C Crossâ€Coupling Onto Enamides: Versatile Synthesis of Î±â€Enamido Phosphane Derivatives. European Journal of Organic Chemistry, 2012, 2012, 1101-1106.	1.2	25
58	Characterization of three macrocyclic glycopeptide stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2019, 1604, 460485.	1.8	25
59	Analysis of free amino acids with unified chromatography-mass spectrometryâ€”application to food supplements. Journal of Chromatography A, 2020, 1616, 460772.	1.8	25
60	Retention characteristics of porous graphitic carbon in subcritical fluid chromatography with carbon dioxideâ€“methanol mobile phases. Journal of Chromatography A, 2004, 1048, 99-109.	1.8	25
61	Effects of high concentrations of mobile phase additives on retention and separation mechanisms on a teicoplanin aglycone stationary phase in supercritical fluid chromatography. Journal of Chromatography A, 2019, 1604, 460494.	1.8	23
62	Chromatographic analysis of biomolecules with pressurized carbon dioxide mobile phases â€“ A review. Journal of Pharmaceutical and Biomedical Analysis, 2021, 193, 113736.	1.4	23
63	Analysis of flavonoids with unified chromatography-electrospray ionization mass spectrometryâ€”method development and application to compounds of pharmaceutical and cosmetic interest. Analytical and Bioanalytical Chemistry, 2020, 412, 6595-6609.	1.9	20
64	Purification of drug degradation products supported by analytical and preparative supercritical fluid chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2019, 170, 40-47.	1.4	18
65	Analysis of short-chain bioactive peptides by unified chromatography-electrospray ionization mass spectrometry. Part I. Method development. Journal of Chromatography A, 2021, 1658, 462631.	1.8	18
66	Interest of achiral-achiral tandem columns for impurity profiling of synthetic drugs with supercritical fluid chromatography. Journal of Chromatography A, 2018, 1534, 161-169.	1.8	17
67	Asymmetric synthesis of the two enantiomers of Î²-phosphorus-containing Î±-amino acids via hydrophosphinylation and hydrophosphonylation of chiral Ni(<scp>ii</scp>)-complexes. Organic Chemistry Frontiers, 2021, 8, 2190-2195.	2.3	16
68	Fragment-based Design of Zwitterionic, Strong Cation- and Weak Anion-Exchange Type Mixed-mode Liquid Chromatography Ligands and their Chromatographic Exploration. Journal of Chromatography A, 2020, 1621, 461075.	1.8	16
69	Analysis of short-chain bioactive peptides by unified chromatography-electrospray ionization mass spectrometry. Part II. Comparison to reversed-phase ultra-high performance liquid chromatography. Journal of Chromatography A, 2022, 1663, 462771.	1.8	16
70	Characterization of stationary phases based on polysiloxanes thermally immobilized onto silica and metalized silica using supercritical fluid chromatography with the solvation parameter model. Journal of Chromatography A, 2013, 1315, 176-187.	1.8	15
71	Thermodynamic enantioseparation behavior of phenylthiohydantoinâ€amino acid derivatives in supercritical fluid chromatography on polysaccharide chiral stationary phases. Journal of Separation Science, 2018, 41, 1450-1459.	1.3	15
72	Supercritical fluid chromatography for the analysis of natural dyes: From carotenoids to flavonoids. Journal of Separation Science, 2022, 45, 382-393.	1.3	15

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73	Characterisation of complex amphiphilic cyclodextrin mixtures by high-performance liquid chromatography and mass spectrometry. Journal of Chromatography A, 2008, 1189, 385-391.	1.8	14
74	Cinchona-based zwitterionic stationary phases: Exploring retention and enantioseparation mechanisms in supercritical fluid chromatography with a fragmentation approach. Journal of Chromatography A, 2020, 1612, 460689.	1.8	14
75	Characterization of stationary phases in supercritical fluid chromatography including exploration of shape selectivity. Journal of Chromatography A, 2021, 1639, 461923.	1.8	14
76	Interlaboratory study of a supercritical fluid chromatography method for the determination of pharmaceutical impurities: Evaluation of multi-systems reproducibility. Journal of Pharmaceutical and Biomedical Analysis, 2021, 203, 114206.	1.4	14
77	Classification of natural resins by liquid chromatographyâ€“mass spectrometry and gas chromatographyâ€“mass spectrometry using chemometric analysis. Journal of Chromatography A, 2012, 1256, 177-190.	1.8	13
78	Exploring the enantioseparation of amino-naphthol analogues by supercritical fluid chromatography. Journal of Chromatography A, 2015, 1387, 123-133.	1.8	13
79	Is the solvation parameter model or its adaptations adequate to account for ionic interactions when characterizing stationary phases for drug impurity profiling with supercritical fluid chromatography?. Analytica Chimica Acta, 2016, 924, 9-20.	2.6	13
80	Characterization of Retention Mechanisms in Mixed-Mode HPLC with a Bimodal Reversed-Phase/Cation-Exchange Stationary Phase. Chromatographia, 2018, 81, 387-399.	0.7	13
81	Characterization of Novel Polymer-Based Pyridine Stationary Phases for Supercritical Fluid Chromatography. Chromatographia, 2019, 82, 143-152.	0.7	13
82	Supercritical Fluid Chromatography development of a predictive analytical tool to selectively extract bioactive compounds by supercritical fluid extraction and pressurised liquid extraction. Journal of Chromatography A, 2020, 1632, 461582.	1.8	13
83	Enantiomeric Separation of Original Heterocyclic Organophosphorus Compounds in Supercritical Fluid Chromatography. Chirality, 2013, 25, 230-237.	1.3	12
84	On-line supercritical fluid extraction-supercritical fluid chromatography (SFE-SFC) at a glance: A coupling story. TrAC - Trends in Analytical Chemistry, 2021, 144, 116433.	5.8	12
85	Characterization of retention and separation mechanisms with Pirkle-type enantioselective stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2020, 1626, 461352.	1.8	11
86	Synthesis of stationary phases containing pyridine, phenol, aniline and morpholine via click chemistry and their characterization and evaluation in supercritical fluid chromatography. Scientia Chromatographica, 2014, 6, 85-103.	0.2	10
87	Impurity profiling of drug candidates: Analytical strategies using reversed-phase and mixed-mode high-performance liquid chromatography methods. Journal of Chromatography A, 2018, 1535, 101-113.	1.8	10
88	Îŧpider diagram: A universal and versatile approach for system comparison and classification. Part 2: Stationary phase properties. Journal of Chromatography A, 2018, 1574, 71-81.	1.8	8
89	Modelling of ceramide interactions with porous graphite carbon in non-aqueous liquid chromatography. Journal of Chromatography A, 2005, 1087, 77-85.	1.8	7
90	Ultra high efficiency/low pressure supercritical fluid chromatography (UHE/LPâ€SFC) for triglyceride analysis: Identification, quantification, and classification of vegetableÂoils. Analytical Science Advances, 2021, 2, 33-42.	1.2	7

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91	Comments on the paper â€œCharacterization of stationary phases by a linear solvation energy relationship utilizing supercritical fluid chromatographyâ€• by C. R. Mitchell, N. J. Benz, S. Zhang. Journal of Separation Science, 2011, 34, 1917-1924.	1.3	6
92	Supercritical fluid chromatography applied to the highly selective isolation of urinary steroid hormones prior to GC/MS analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1086, 97-104.	1.2	6
93	Analytical challenges encountered and the potential of supercritical fluid chromatography: A perspective of five experts. Analytical Science Advances, 2021, 2, 76-80.	1.2	2
94	7. Applications of supercritical fluid chromatography: Natural products in pharmaceutical, cosmetic, and food applications. , 2018, , 139-172.		0
95	Characterization of stationary phases in supercritical fluid chromatography with the solvation parameter model. Advances in Chromatography, 2010, 48, 195-253.	1.0	0