

Andr de Villiers

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

2,899

citations

33

h-index

52

g-index

83

ext. papers

3,182

ext. citations

4.6

avg, IF

5.41

L-index

#	Paper	IF	Citations
82	Evaluation of ultra performance liquid chromatography. Part I. Possibilities and limitations. <i>Journal of Chromatography A</i> , 2006 , 1127, 60-9	4.5	244
81	Influence of frictional heating on temperature gradients in ultra-high-pressure liquid chromatography on 2.1mm I.D. columns. <i>Journal of Chromatography A</i> , 2006 , 1113, 84-91	4.5	172
80	Recent advances and trends in the liquid-chromatography-mass spectrometry analysis of flavonoids. <i>Journal of Chromatography A</i> , 2016 , 1430, 16-78	4.5	121
79	Recent developments in the HPLC separation of phenolic compounds. <i>Journal of Separation Science</i> , 2011 , 34, 854-76	3.4	96
78	Off-line comprehensive 2-dimensional hydrophilic interaction x reversed phase liquid chromatography analysis of procyanidins. <i>Journal of Chromatography A</i> , 2009 , 1216, 6274-84	4.5	88
77	Off-line comprehensive two-dimensional hydrophilic interaction x reversed phase liquid chromatographic analysis of green tea phenolics. <i>Journal of Separation Science</i> , 2010 , 33, 853-63	3.4	82
76	Food ingredient extracts of <i>Cyclopia subternata</i> (Honeybush): variation in phenolic composition and antioxidant capacity. <i>Molecules</i> , 2012 , 17, 14602-24	4.8	77
75	Comprehensive two-dimensional gas chromatography for the analysis of synthetic and crude-derived jet fuels. <i>Journal of Chromatography A</i> , 2011 , 1218, 4478-86	4.5	73
74	Analytical techniques for wine analysis: an African perspective; a review. <i>Analytica Chimica Acta</i> , 2012 , 730, 2-23	6.6	69
73	Comprehensive two-dimensional liquid chromatographic analysis of rooibos (<i>Aspalathus linearis</i>) phenolics. <i>Journal of Separation Science</i> , 2012 , 35, 1808-20	3.4	67
72	Characterisation of volatile components of Pinotage wines using comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry (GC/TOFMS). <i>Food Chemistry</i> , 2011 , 129, 188-199	8.5	66
71	Stir bar sorptive extraction combined with GC-MS analysis and chemometric methods for the classification of South African Wines according to the volatile composition. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 4286-96	5.7	65
70	Comprehensive Two-Dimensional Hydrophilic Interaction Chromatography (HILIC) \times Reversed-Phase Liquid Chromatography Coupled to High-Resolution Mass Spectrometry (RP-LC-UV-MS) Analysis of Anthocyanins and Derived Pigments in Red Wine. <i>Analytical Chemistry</i> , 2012 , 84, 1222-1227	7.8	62
69	Kinetic optimisation of the reversed phase liquid chromatographic separation of rooibos tea (<i>Aspalathus linearis</i>) phenolics on conventional high performance liquid chromatographic instrumentation. <i>Journal of Chromatography A</i> , 2012 , 1219, 128-39	4.5	60
68	Comprehensive two-dimensional liquid chromatography applying two parallel columns in the second dimension. <i>Journal of Chromatography A</i> , 2008 , 1178, 33-42	4.5	60
67	Solid phase extraction in combination with comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry for the detailed investigation of volatiles in South African red wines. <i>Analytica Chimica Acta</i> , 2011 , 701, 98-111	6.6	59
66	High efficiency liquid chromatography on conventional columns and instrumentation by using temperature as a variable. Kinetic plots and experimental verification. <i>Journal of Chromatography A</i> , 2007 , 1138, 120-31	4.5	58

65	Classification of South African red and white wines according to grape variety based on the non-coloured phenolic content. <i>European Food Research and Technology</i> , 2005 , 221, 520-528	3.4	56
64	Systematic optimisation and evaluation of on-line, off-line and stop-flow comprehensive hydrophilic interaction chromatography/reversed phase liquid chromatographic analysis of procyanidins, part I: theoretical considerations. <i>Journal of Chromatography A</i> , 2013 , 1289, 58-68	4.5	55
63	Considerations on the possibilities and limitations of comprehensive normal phase-reversed phase liquid chromatography (NPLC x RPLC). <i>Journal of Separation Science</i> , 2006 , 29, 492-8	3.4	53
62	Investigation of the validity of the kinetic plot method to predict the performance of coupled column systems operated at very high pressures under different thermal conditions. <i>Journal of Chromatography A</i> , 2009 , 1216, 3895-903	4.5	52
61	Comprehensive two-dimensional liquid chromatographic analysis of anthocyanins. <i>Journal of Chromatography A</i> , 2014 , 1359, 189-201	4.5	51
60	Improving the universal response of evaporative light scattering detection by mobile phase compensation. <i>Journal of Chromatography A</i> , 2007 , 1161, 183-91	4.5	50
59	Variation in phenolic content and antioxidant activity of fermented rooibos herbal tea infusions: role of production season and quality grade. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 9171-9	5.7	49
58	Toward unraveling grape tannin composition: application of online hydrophilic interaction chromatography /reversed-phase liquid chromatography-time-of-flight mass spectrometry for grape seed analysis. <i>Analytical Chemistry</i> , 2013 , 85, 9107-15	7.8	48
57	High performance liquid chromatography analysis of wine anthocyanins revisited: effect of particle size and temperature. <i>Journal of Chromatography A</i> , 2009 , 1216, 3270-9	4.5	47
56	Systematic optimisation and evaluation of on-line, off-line and stop-flow comprehensive hydrophilic interaction chromatography/reversed phase liquid chromatographic analysis of procyanidins. Part II: application to cocoa procyanidins. <i>Journal of Chromatography A</i> , 2013 , 1289, 69-79	4.5	44
55	Simultaneous quantification of commonly prescribed antiretroviral drugs and their selected metabolites in aqueous environmental samples by direct injection and solid phase extraction liquid chromatography - tandem mass spectrometry. <i>Chemosphere</i> , 2019 , 220, 983-992	8.4	42
54	Hydrophilic interaction chromatographic analysis of anthocyanins. <i>Journal of Chromatography A</i> , 2013 , 1319, 127-40	4.5	41
53	Advanced ultra high pressure liquid chromatography-tandem mass spectrometric methods for the screening of red wine anthocyanins and derived pigments. <i>Journal of Chromatography A</i> , 2012 , 1235, 92-102	4.5	39
52	Comprehensive Three-Dimensional LC /LC /Ion Mobility Spectrometry Separation Combined with High-Resolution MS for the Analysis of Complex Samples. <i>Analytical Chemistry</i> , 2018 , 90, 11643-11650	7.8	38
51	Effect of analyte properties on the kinetic performance of liquid chromatographic separations. <i>Journal of Chromatography A</i> , 2009 , 1216, 3431-42	4.5	33
50	Method to predict and compare the influence of the particle size on the isocratic peak capacity of high-performance liquid chromatography columns. <i>Journal of Chromatography A</i> , 2007 , 1147, 183-91	4.5	33
49	Improved HPLC method for rooibos phenolics targeting changes due to fermentation. <i>Journal of Food Composition and Analysis</i> , 2017 , 55, 20-29	4.1	32
48	Chemometric analysis of chromatographic fingerprints shows potential of <i>Cyclopia maculata</i> (Andrews) Kies for production of standardized extracts with high xanthone content. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 10542-51	5.7	31

47	Survey of 3-alkyl-2-methoxypyrazine content of South African Sauvignon blanc wines using a novel LC-APCI-MS/MS method. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 9347-55	5.7	31
46	Comprehensive two-dimensional liquid chromatography coupled to the ABTS radical scavenging assay: a powerful method for the analysis of phenolic antioxidants. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4233-42	4.4	30
45	Chemometric investigation of the volatile content of young South African wines. <i>Food Chemistry</i> , 2011 , 128, 1100-1109	8.5	30
44	Comprehensive two-dimensional gas chromatography for the analysis of Fischer-Tropsch oil products. <i>Journal of Chromatography A</i> , 2010 , 1217, 8334-9	4.5	30
43	High-efficiency high performance liquid chromatographic analysis of red wine anthocyanins. <i>Journal of Chromatography A</i> , 2011 , 1218, 4660-70	4.5	29
42	Development of a novel solid-phase extraction, LC-MS/MS method for the analysis of ethyl carbamate in alcoholic beverages: application to South African wine and spirits. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2011 , 28, 826-39	3.2	28
41	Stir bar sorptive extraction-liquid desorption applied to the analysis of hop-derived bitter acids in beer by micellar electrokinetic chromatography. <i>Electrophoresis</i> , 2004 , 25, 664-9	3.6	26
40	Predictive kinetic optimisation of hydrophilic interaction chromatography [reversed phase liquid chromatography separations: Experimental verification and application to phenolic analysis. <i>Journal of Chromatography A</i> , 2018 , 1571, 107-120	4.5	24
39	Modeling of the total antioxidant capacity of rooibos (<i>Aspalathus linearis</i>) tea infusions from chromatographic fingerprints and identification of potential antioxidant markers. <i>Journal of Chromatography A</i> , 2014 , 1366, 101-9	4.5	21
38	Investigation of the volatile composition of pinotage wines fermented with different malolactic starter cultures using comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry (GC-TOF-MS). <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 12732-44	5.7	21
37	A robust capillary electrophoresis method for the determination of organic acids in wines. <i>European Food Research and Technology</i> , 2003 , 217, 535-540	3.4	21
36	Phenolic profiling of rooibos using off-line comprehensive normal phase countercurrent chromatography [reversed phase liquid chromatography. <i>Journal of Chromatography A</i> , 2017 , 1490, 102-114	4.5	20
35	Fractionation by liquid chromatography combined with comprehensive two-dimensional gas chromatography-mass spectrometry for analysis of cyclics in oligomerisation products of Fischer-Tropsch derived light alkenes. <i>Journal of Chromatography A</i> , 2011 , 1218, 3173-9	4.5	20
34	An efficient slurry packing procedure for the preparation of columns applicable in capillary electrochromatography and capillary electrochromatography-electrospray-mass spectrometry. <i>Journal of Separation Science</i> , 2005 , 28, 1539-1549	3.4	20
33	Kinetic optimisation of the reversed phase liquid chromatographic separation of proanthocyanidins on sub-2 μ m and superficially porous phases. <i>Journal of Chromatography A</i> , 2012 , 1236, 63-76	4.5	17
32	Elucidation of the different devolatilisation zones of tyre rubber pyrolysis using TGA-MS. <i>Thermochemica Acta</i> , 2015 , 614, 59-61	2.9	15
31	Detailed Phenolic Characterization of Pure and Hybrid Cultivars by Liquid Chromatography-Ion Mobility-High Resolution Mass Spectrometry (LC-IM-HR-MS). <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 485-502	5.7	14
30	Enhancing the Possibilities of Comprehensive Two-Dimensional Liquid Chromatography through Hyphenation of Purely Aqueous Temperature-Responsive and Reversed-Phase Liquid Chromatography. <i>Analytical Chemistry</i> , 2018 , 90, 4961-4967	7.8	13

29	Application of Kinetically Optimised Online HILIC [RP-LC Methods Hyphenated to High Resolution MS for the Analysis of Natural Phenolics. <i>Chromatographia</i> , 2019 , 82, 181-196	2.1	13
28	Multivariate analysis of variance of designed chromatographic data. A case study involving fermentation of rooibos tea. <i>Journal of Chromatography A</i> , 2017 , 1489, 115-125	4.5	12
27	Recent applications of ion mobility spectrometry in natural product research. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 195, 113846	3.5	12
26	Detailed qualitative analysis of honeybush tea (<i>Cyclopia</i> spp.) volatiles by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry and relation with sensory data. <i>Journal of Chromatography A</i> , 2018 , 1536, 137-150	4.5	11
25	Evaluation of capillary electrophoresis for the analysis of rooibos and honeybush tea phenolics. <i>Electrophoresis</i> , 2017 , 38, 897-905	3.6	10
24	Comprehensive analysis of chestnut tannins by reversed phase and hydrophilic interaction chromatography coupled to ion mobility and high resolution mass spectrometry. <i>Analytica Chimica Acta</i> , 2019 , 1088, 150-167	6.6	10
23	Toward automated chromatographic fingerprinting: A non-alignment approach to gas chromatography mass spectrometry data. <i>Analytica Chimica Acta</i> , 2016 , 911, 42-58	6.6	10
22	Combined size exclusion chromatography, supercritical fluid chromatography and electrospray ionization mass spectrometry for the analysis of complex aliphatic polyesters. <i>Journal of Chromatography A</i> , 2014 , 1330, 74-81	4.5	10
21	Analysis of honeybush tea (<i>Cyclopia</i> spp.) volatiles by comprehensive two-dimensional gas chromatography using a single-stage thermal modulator. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4127-4138	4.4	9
20	Genotypic variation in phenolic composition of <i>Cyclopia pubescens</i> (honeybush tea) seedling plants. <i>Journal of Food Composition and Analysis</i> , 2019 , 78, 129-137	4.1	9
19	High-dimensional nested analysis of variance to assess the effect of production season, quality grade and steam pasteurization on the phenolic composition of fermented rooibos herbal tea. <i>Talanta</i> , 2013 , 115, 590-9	6.2	9
18	Fast method development of rooibos tea phenolics using a variable column length strategy. <i>Journal of Chromatography A</i> , 2011 , 1218, 7347-57	4.5	9
17	Pharmaceutical impurity analysis by comprehensive two-dimensional temperature responsive reversed phase liquid chromatography. <i>Journal of Chromatography A</i> , 2020 , 1630, 461561	4.5	8
16	A variable temperature 1H NMR and DFT study of procyanidin B2 conformational interchange. <i>Structural Chemistry</i> , 2018 , 29, 1551-1564	1.8	6
15	Optimization of a high-resolution radical scavenging assay coupled on-line to reversed-phase liquid chromatography for antioxidant detection in complex natural extracts. <i>Journal of Separation Science</i> , 2015 , 38, 724-31	3.4	6
14	Comprehensive analysis of tara tannins by reversed-phase and hydrophilic interaction chromatography coupled to ion mobility and high-resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 6329-6341	4.4	5
13	Application of direct injection-ion mobility spectrometry-mass spectrometry (DI-IMS-MS) for the analysis of phenolics in honeybush and rooibos tea samples. <i>Journal of Food Composition and Analysis</i> , 2022 , 106, 104308	4.1	4
12	Parallel gradients in comprehensive multidimensional liquid chromatography enhance utilization of the separation space and the degree of orthogonality when the separation mechanisms are correlated. <i>Journal of Chromatography A</i> , 2020 , 1628, 461452	4.5	4

11	Identity confirmation of anthocyanins in berries by LC-DAD-IM-QTOFMS. <i>Electrophoresis</i> , 2021 , 42, 473-486	4.8	4
10	Shelf-Life Stability of Ready-to-Use Green Rooibos Iced Tea Powder-Assessment of Physical, Chemical, and Sensory Properties. <i>Molecules</i> , 2021 , 26,	4.8	4
9	Comprehensive off-line CCC [LC-DAD-MS separation of <i>Cyclopia pubescens</i> Eckl. & Zeyh. phenolic compounds and structural elucidation of isolated compounds. <i>Phytochemical Analysis</i> , 2021 , 32, 347-361	3.4	3
8	Comprehensive two-dimensional temperature-responsive [reversed phase liquid chromatography for the analysis of wine phenolics. <i>Talanta</i> , 2022 , 236, 122889	6.2	3
7	Speciation of [Pt(IV) Cl _{6-n} Br _n] ²⁻ (n = 0-6) and some of their mono-aquated [Pt(IV) Cl _{5-n} Br _n (H ₂ O)] ⁻ (n = 0-5) anions in solution at low concentrations by means of ion-pairing reversed-phase ultra-high-performance liquid chromatography coupled to electrospray ionization quadrupole time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 505-19	2.2	1
6	Application of Metabolomics Tools to Determine Possible Biomarker Metabolites Linked to Leaf Blackening in. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 12595-12605	5.7	1
5	Alkaloids from the Amaryllidaceae <i>Crinum variabile</i> - including a full house of lycorine and its acylated derivatives. <i>South African Journal of Botany</i> , 2022 , 146, 503-508	2.9	0
4	Ultra-high pressure liquid chromatography coupled to travelling wave ion mobility-time of flight mass spectrometry for the screening of pharmaceutical metabolites in wastewater samples: Application to antiretrovirals. <i>Journal of Chromatography A</i> , 2021 , 1660, 462650	4.5	0
3	A new concept for variance analysis of hyphenated chromatographic data avoiding signal warping. <i>Journal of Chromatography A</i> , 2013 , 1291, 64-72	4.5	
2	Deciphering the chemical instability of sphaeropsidin A under physiological conditions - degradation studies and structural elucidation of the major metabolite. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 8147-8160	3.9	
1	New dihydroxycucurbitacin D _Q from the Namib desert endemic plant <i>Acanthosicyos horridus</i> (!nara). <i>Phytochemistry</i> , 2021 , 155, 105041	3.2	