Govert W Somsen

List of Publications by Year
in descending order

104 papers	3,076 citations	159585 30 h-index	197818 49 g-index
107 all docs	107 docs citations	107 times ranked	3273 citing authors

#	Article	IF	Citations
1	Capillary Electrophoresis: Trends and Recent Advances. Analytical Chemistry, 2018, 90, 1464-1481.	6.5	227
2	Capillary electrophoresisâ€“mass spectrometry for the analysis of intact proteins. Journal of Chromatography A, 2007, 1159, 81-109.	3.7	161
3	Low-Flow Sheathless Capillary Electrophoresisâ€“Mass Spectrometry for Sensitive Glycoform Profiling of Intact Pharmaceutical Proteins. Analytical Chemistry, 2013, 85, 2289-2296.	6.5	126
4	Self-Assembly of Cyclodextrins and Their Complexes in Aqueous Solutions. Journal of Pharmaceutical Sciences, 2016, 105, 2556-2569.	3.3	111
5	Capillary electrophoresisâ€“mass spectrometry for the analysis of intact proteins 2007â€“2010. Electrophoresis, 2011, 32, 66-82.	2.4	97
6	Performance of a sheathless porous tip sprayer for capillary electrophoresisâ€“electrospray ionization-mass spectrometry of intact proteins. Journal of Chromatography A, 2010, 1217, 7605-7611.	3.7	91
7	<scp>CE</scp>â€<scp>MS</scp> for the analysis of intact proteins 2010â€“2012. Electrophoresis, 2013, 34, 99-112.	2.4	87
8	CEâ€“MS for metabolomics: Developments and applications in the period 2014â€“2016. Electrophoresis, 2017, 38, 190-202.	2.4	82
9	On-line micellar electrokinetic chromatographyâ€“mass spectrometry: feasibility of direct introduction of non-volatile buffer and surfactant into the electrospray interface. Journal of Chromatography A, 2003, 1000, 953-961.	3.7	71
10	CEâ€MS for metabolomics: Developments and applications in the period 2016â€“2018. Electrophoresis, 2019, 40, 165-179.	2.4	68
11	Analysis of recombinant human growth hormone by capillary electrophoresis with bilayer-coated capillaries using UV and MS detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 852, 160-166.	2.3	58
12	Capillary electrophoresisâ€“mass spectrometry of intact basic proteins using Polybreneâ€“dextran sulfateâ€“Polybrene-coated capillaries: System optimization and performance. Analytica Chimica Acta, 2010, 678, 128-134.	5.4	56
13	High-resolution glycoform profiling of intact therapeutic proteins by hydrophilic interaction chromatography-mass spectrometry. Talanta, 2018, 184, 375-381.	5.5	55
14	Heterogeneity assessment of antibody-derived therapeutics at the intact and middle-up level by low-flow sheathless capillary electrophoresis-mass spectrometry. Analytica Chimica Acta, 2018, 1044, 181-190.	5.4	54
15	Developments in coupled solidâ€phase extractionâ€“capillary electrophoresis 2013â€“2015. Electrophoresis, 2016, 37, 35-44.	2.4	53
16	Determination of oversulfated chondroitin sulfate and dermatan sulfate impurities in heparin by capillary electrophoresis. Journal of Chromatography A, 2009, 1216, 4107-4112.	3.7	52
17	Capillary electrophoresis of intact basic proteins using noncovalently tripleâ€layer coated capillaries. Journal of Separation Science, 2009, 32, 2408-2415.	2.5	47
18	Chiral Discrimination of DL-Amino Acids by Trapped Ion Mobility Spectrometry after Derivatization with (+)-1-(9-Fluorenyl)ethyl Chloroformate. Analytical Chemistry, 2019, 91, 3277-3285.	6.5	46

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19	Online screening of acetylcholinesterase inhibitors in natural products using monolith-based immobilized capillary enzyme reactors combined with liquid chromatography-mass spectrometry. Journal of Chromatography A, 2018, 1563, 135-143.	3.7	45
20	Detailed Characterization of Monoclonal Antibody Receptor Interaction Using Affinity Liquid Chromatography Hyphenated to Native Mass Spectrometry. Analytical Chemistry, 2017, 89, 5404-5412.	6.5	43
21	Multipurpose HTS Coagulation Analysis: Assay Development and Assessment of Coagulopathic Snake Venoms. Toxins, 2017, 9, 382.	3.4	42
22	Recent applications of chemometrics in oneâ€•and twoâ€dimensional chromatography. Journal of Separation Science, 2020, 43, 1678-1727.	2.5	42
23	Probing Protein Denaturation during Size-Exclusion Chromatography Using Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 4292-4300.	6.5	40
24	Capillary HILIC-MS: A New Tool for Sensitive Top-Down Proteomics. Analytical Chemistry, 2018, 90, 6601-6609.	6.5	39
25	Effectiveness of Charged Noncovalent Polymer Coatings against Protein Adsorption to Silica Surfaces Studied by Evanescent-Wave Cavity Ring-Down Spectroscopy and Capillary Electrophoresis. Analytical Chemistry, 2009, 81, 10172-10178.	6.5	36
26	On-line coupling of electrokinetic chromatography and mass spectrometry. Journal of Chromatography A, 2010, 1217, 3978-3991.	3.7	35
27	Hydrophilic interaction liquid chromatography-mass spectrometry as a new tool for the characterization of intact semi-synthetic glycoproteins. Analytica Chimica Acta, 2017, 981, 94-105.	5.4	34
28	Low-picomolar analysis of peptides by on-line coupling of fritless solid-phase extraction to sheathless capillary electrophoresis-mass spectrometry. Journal of Chromatography A, 2014, 1328, 1-6.	3.7	33
29	Comparison of capillary electrophoresisâ€“mass spectrometry and hydrophilic interaction chromatographyâ€“mass spectrometry for anionic metabolic profiling of urine. Talanta, 2015, 132, 1-7.	5.5	33
30	One single, fast and robust capillary electrophoresis method for the direct quantification of intact adenovirus particles in upstream and downstream processing samples. Talanta, 2017, 166, 8-14.	5.5	33
31	High throughput screening and identification of coagulopathic snake venom proteins and peptides using nanofractionation and proteomics approaches. PLoS Neglected Tropical Diseases, 2020, 14, e0007802.	3.0	33
32	Enantioselective analysis of proteinogenic amino acids in cerebrospinal fluid by capillary electrophoresisâ€“mass spectrometry. Electrophoresis, 2016, 37, 2410-2419.	2.4	31
33	A Novel Platinum(II)â€“Based Bifunctional ADC Linker Benchmarked Using 89Zr-Desferal and Auristatin Fâ€“Conjugated Trastuzumab. Cancer Research, 2017, 77, 257-267.	0.9	29
34	Drug Discovery on Natural Products: From Ion Channels to nAChRs, from Nature to Libraries, from Analytics to Assays. SLAS Discovery, 2019, 24, 362-385.	2.7	29
35	Capillary electrophoresisâ€“mass spectrometry of proteins at medium pH using bilayer-coated capillaries. Analyst, The, 2007, 132, 75-81.	3.5	28
36	Neutralizing Effects of Small Molecule Inhibitors and Metal Chelators on Coagulopathic Viperinae Snake Venom Toxins. Biomedicines, 2020, 8, 297.	3.2	28

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37	Rapid activity-directed screening of estrogens by parallel coupling of liquid chromatography with a functional gene reporter assay and mass spectrometry. Journal of Chromatography A, 2015, 1406, 165-174.	3.7	27
38	Varespladib Inhibits the Phospholipase A2 and Coagulopathic Activities of Venom Components from Hemotoxic Snakes. Biomedicines, 2020, 8, 165.	3.2	27
39	Studying protein structure and function by native separationâ€“mass spectrometry. Nature Reviews Chemistry, 2022, 6, 215-231.	30.2	27
40	At-line nanofractionation with parallel mass spectrometry and bioactivity assessment for the rapid screening of thrombin and factor Xa inhibitors in snake venoms. Toxicon, 2016, 110, 79-89.	1.6	23
41	Affinity profiling of monoclonal antibody and antibody-drug-conjugate preparations by coupled liquid chromatography-surface plasmon resonance biosensing. Analytical and Bioanalytical Chemistry, 2018, 410, 7837-7848.	3.7	23
42	Chiral capillary electrophoresis with UV-excited fluorescence detection for the enantioselective analysis of 9-fluorenylmethoxycarbonyl-derivatized amino acids. Analytical and Bioanalytical Chemistry, 2018, 410, 4979-4990.	3.7	23
43	Neurotoxicity fingerprinting of venoms using on-line microfluidic AChBP profiling. Toxicon, 2018, 148, 213-222.	1.6	23
44	Micellar electrokinetic chromatographyâ€“mass spectrometry: combining the supposedly incompatible. Analytical and Bioanalytical Chemistry, 2006, 384, 31-33.	3.7	22
45	New capillary gel electrophoresis method for fast and accurate identification and quantification of multiple viral proteins in influenza vaccines. Talanta, 2015, 144, 1030-1035.	5.5	22
46	Chiral separation of acidic compounds using an O-9-(tert-butylcarbamoyl)quinidine functionalized monolith in micro-liquid chromatography. Journal of Chromatography A, 2016, 1444, 64-73.	3.7	22
47	Field-flow fractionation for molecular-interaction studies of labile and complex systems: A critical review. Analytica Chimica Acta, 2022, 1193, 339396.	5.4	22
48	Characterization of conformers and dimers of antithrombin by capillary electrophoresis-quadrupole-time-of-flight mass spectrometry. Analytica Chimica Acta, 2016, 947, 58-65.	5.4	21
49	Adduct-ion formation in trapped ion mobility spectrometry as a potential tool for studying molecular structures and conformations. International Journal for Ion Mobility Spectrometry, 2018, 21, 19-32.	1.4	21
50	Evaluation of capillary electrophoresis-mass spectrometry for the analysis of the conformational heterogeneity of intact proteins using beta2-microglobulin as model compound. Analytica Chimica Acta, 2016, 945, 102-109.	5.4	20
51	Rapid screening and identification of ACE inhibitors in snake venoms using at-line nanofractionation LC-MS. Analytical and Bioanalytical Chemistry, 2017, 409, 5987-5997.	3.7	20
52	In-capillary derivatization with (â^')-1-(9-fluorenyl)ethyl chloroformate as chiral labeling agent for the electrophoretic separation of amino acids. Journal of Chromatography A, 2014, 1363, 338-347.	3.7	19
53	Neutralising effects of small molecule toxin inhibitors on nanofractionated coagulopathic Crotalinae snake venoms. Acta Pharmaceutica Sinica B, 2020, 10, 1835-1845.	12.0	19
54	Antivenom Neutralization of Coagulopathic Snake Venom Toxins Assessed by Bioactivity Profiling Using Nanofractionation Analytics. Toxins, 2020, 12, 53.	3.4	19

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55	Analytical strategies in venomics. Microchemical Journal, 2022, 175, 107187.	4.5	19
56	Lamp-based native fluorescence detection of proteins in capillary electrophoresis. Journal of Chromatography A, 2009, 1216, 4629-4632.	3.7	18
57	Capillary Electrophoresis with Lamp-Based Wavelength-Resolved Fluorescence Detection for the Probing of Protein Conformational Changes. Analytical Chemistry, 2011, 83, 6060-6067.	6.5	18
58	Capillary electrophoresis-tandem mass spectrometry as a highly selective tool for the compositional and site-specific assessment of multiple peptide-deamidation. Analytica Chimica Acta, 2017, 982, 122-130.	5.4	18
59	Capillary electrophoresis-based assessment of nanobody affinity and purity. Analytica Chimica Acta, 2014, 818, 1-6.	5.4	17
60	Highly Selective Screening of Estrogenic Compounds in Consumer-Electronics Plastics by Liquid Chromatography in Parallel Combined with Nanofractionation-Bioactivity Detection and Mass Spectrometry. Environmental Science & Technology, 2016, 50, 12385-12393.	10.0	17
61	MS-Based Allotype-Specific Analysis of Polyclonal IgG-Fc N-Glycosylation. Frontiers in Immunology, 2020, 11, 2049.	4.8	17
62	Rapid ligand fishing for identification of acetylcholinesterase-binding peptides in snake venom reveals new properties of dendrotoxins. Toxicon, 2018, 152, 1-8.	1.6	16
63	Liquid chromatographic nanofractionation with parallel mass spectrometric detection for the screening of plasmin inhibitors and (metallo)proteinases in snake venoms. Analytical and Bioanalytical Chemistry, 2018, 410, 5751-5763.	3.7	16
64	Computer-aided gradient optimization of hydrophilic interaction liquid chromatographic separations of intact proteins and protein glycoforms. Journal of Chromatography A, 2019, 1598, 67-76.	3.7	16
65	Anticoagulant Activity of Naja nigricollis Venom Is Mediated by Phospholipase A2 Toxins and Inhibited by Varespladib. Toxins, 2021, 13, 302.	3.4	16
66	Monitoring antigenic protein integrity during glycoconjugate vaccine synthesis using capillary electrophoresis-mass spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 6123-6132.	3.7	15
67	Lampâ€based wavelengthâ€resolved fluorescence detection for protein capillary electrophoresis: Setup and detector performance. Electrophoresis, 2010, 31, 2861-2868.	2.4	14
68	Acylation of arginine in goserelin-loaded PLGA microspheres. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 99, 18-23.	4.3	14
69	Reducing the influence of geometry-induced gradient deformation in liquid chromatographic retention modelling. Journal of Chromatography A, 2021, 1635, 461714.	3.7	14
70	Capillary Zone Electrophoresisâ€“Mass Spectrometry of Intact Proteins. Methods in Molecular Biology, 2016, 1466, 25-41.	0.9	13
71	At-Line Cellular Screening Methodology for Bioactives in Mixtures Targeting the Î±7-Nicotinic Acetylcholine Receptor. Journal of Biomolecular Screening, 2016, 21, 459-467.	2.6	12
72	Enantioselective micellar electrokinetic chromatography of <scp>dl</scp>â€amino acids using (+)â€1â€(9â€fluorenyl)â€ethyl chloroformate derivatization and UVâ€induced fluorescence detection. Journal of Separation Science, 2018, 41, 2983-2992.	2.5	12

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73	Linking the concentrations of itraconazole and 2-hydroxypropyl-Î²-cyclodextrin in human intestinal fluids after oral intake of SporanoxÂ®. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 132, 231-236.	4.3	12
74	Analytical characterization of NOTA-modified somatropins. Journal of Pharmaceutical and Biomedical Analysis, 2014, 96, 1-9.	2.8	11
75	Hydrophilic interaction chromatographyâ€“mass spectrometry for anionic metabolic profiling of urine from antibiotic-treated rats. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 98-104.	2.8	11
76	Continuous fraction collection of gas chromatographic separations with parallel mass spectrometric detection applied to cell-based bioactivity analysis. Talanta, 2017, 168, 162-167.	5.5	11
77	Implementation of atâ€line capillary zone electrophoresis for fast and reliable determination of adenovirus concentrations in vaccine manufacturing. Electrophoresis, 2019, 40, 2277-2284.	2.4	11
78	Characterization of a liquid-core waveguide cell for studying the chemistry of light-induced degradation. Analyst, The, 2021, 146, 3197-3207.	3.5	11
79	Bioactivity Profiling of Small-Volume Samples by Nano Liquid Chromatography Coupled to Microarray Bioassaying Using High-Resolution Fractionation. Analytical Chemistry, 2019, 91, 10458-10466.	6.5	10
80	Development of high-throughput screening assays for profiling snake venom phospholipase A2 activity after chromatographic fractionation. Toxicon, 2020, 184, 28-38.	1.6	10
81	Liquid Core Waveguide Cell with In Situ Absorbance Spectroscopy and Coupled to Liquid Chromatography for Studying Light-Induced Degradation. Analytical Chemistry, 2022, 94, 7647-7654.	6.5	10
82	At-line coupling of LCâ€“MS to bioaffinity and selectivity assessment for metabolic profiling of ligands towards chemokine receptors CXCR1 and CXCR2. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 1002, 42-53.	2.3	9
83	Microfluidic ion stripper for removal of trifluoroacetic acid from mobile phases used in HILIC-MS of intact proteins. Analytical and Bioanalytical Chemistry, 2021, 413, 4379-4386.	3.7	9
84	CE-MS for Proteomics and Intact Protein Analysis. Advances in Experimental Medicine and Biology, 2021, 1336, 51-86.	1.6	9
85	Fully compatible and ultra-sensitive micellar electrokinetic chromatography-tandem mass spectrometry using sheathless porous-tip interfacing. Journal of Chromatography A, 2017, 1524, 283-289.	3.7	8
86	Compound Identification Using Liquid Chromatography and High-Resolution Noncontact Fraction Collection with a Solenoid Valve. SLAS Technology, 2019, 24, 543-555.	1.9	8
87	Limited Lactosylation of Beta-Lactoglobulin from Cowâ€™s Milk Exerts Strong Influence on Antigenicity and Degranulation of Mast Cells. Nutrients, 2021, 13, 2041.	4.1	8
88	The Role of CE-MS in Metabolomics. , 2013, , 177-208.		7
89	Gas chromatography fractionation platform featuring parallel flame-ionization detection and continuous high-resolution analyte collection in 384-well plates. Journal of Chromatography A, 2016, 1462, 100-106.	3.7	7
90	Development of a generic high-throughput screening assay for profiling snake venom protease activity after high-resolution chromatographic fractionation. Toxicon, 2020, 178, 61-68.	1.6	7

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91	Erythrocyte haemotoxicity profiling of snake venom toxins after nanofractionation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1176, 122586.	2.3	7
92	On-line coupling of surface plasmon resonance optical sensing to size-exclusion chromatography for affinity assessment of antibody samples. Journal of Chromatography A, 2016, 1452, 81-88.	3.7	6
93	Asymmetrical flow field-flow fractionation to probe the dynamic association equilibria of Î²-D-galactosidase. Journal of Chromatography A, 2021, 1635, 461719.	3.7	6
94	Development of an Online Cell-Based Bioactivity Screening Method by Coupling Liquid Chromatography to Flow Cytometry with Parallel Mass Spectrometry. Analytical Chemistry, 2016, 88, 4825-4832.	6.5	5
95	Fast, selective and quantitative protein profiling of adenovirus-vector based vaccines by ultra-performance liquid chromatography. Journal of Chromatography A, 2018, 1581-1582, 25-32.	3.7	5
96	A single-step preparation of carbohydrate functionalized monoliths for separation and trapping of polar compounds. Journal of Chromatography A, 2020, 1628, 461481.	3.7	5
97	Nanofractionation Platform with Parallel Mass Spectrometry for Identification of CYP1A2 Inhibitors in Metabolic Mixtures. SLAS Discovery, 2018, 23, 283-293.	2.7	4
98	Coupling of Electrokinetic Chromatography to Mass Spectrometry. , 0, , 307-336.		3
99	Development of Plate Reader and On-Line Microfluidic Screening to Identify Ligands of the 5-Hydroxytryptamine Binding Protein in Venoms. Toxins, 2015, 7, 2336-2353.	3.4	2
100	Hydrophilic interaction liquid chromatography-mass spectrometry for the characterization of glycoproteins at the glycan, peptide, subunit, and intact level. , 2021, , 209-278.		2
101	Probing Polyester Branching by Hybrid Trapped Ion-Mobility Spectrometryâ€“Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 1498-1507.	2.8	2
102	CE-MS for the analysis of intact proteins. , 0, , 159-192.		1
103	Preface. Journal of Chromatography A, 2017, 1498, 1.	3.7	0
104	Analytics for Bioactivity Profiling of Complex Mixtures with a Focus on Venoms. Methods in Molecular Biology, 2020, 2068, 27-49.	0.9	0