

Govert W Somsen

List of Publications by Year in descending order

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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	Field-flow fractionation for molecular-interaction studies of labile and complex systems: A critical review. <i>Analytica Chimica Acta</i> , 2022, 1193, 339396.	5.4	22
2	Studying protein structure and function by native separation-mass spectrometry. <i>Nature Reviews Chemistry</i> , 2022, 6, 215-231.	30.2	27
3	Analytical strategies in venomics. <i>Microchemical Journal</i> , 2022, 175, 107187.	4.5	19
4	Liquid Core Waveguide Cell with In Situ Absorbance Spectroscopy and Coupled to Liquid Chromatography for Studying Light-Induced Degradation. <i>Analytical Chemistry</i> , 2022, 94, 7647-7654.	6.5	10
5	Reducing the influence of geometry-induced gradient deformation in liquid chromatographic retention modelling. <i>Journal of Chromatography A</i> , 2021, 1635, 461714.	3.7	14
6	Asymmetrical flow field-flow fractionation to probe the dynamic association equilibria of β -D-galactosidase. <i>Journal of Chromatography A</i> , 2021, 1635, 461719.	3.7	6
7	Hydrophilic interaction liquid chromatography-mass spectrometry for the characterization of glycoproteins at the glycan, peptide, subunit, and intact level. , 2021, , 209-278.		2
8	Anticoagulant Activity of <i>Naja nigricollis</i> Venom Is Mediated by Phospholipase A2 Toxins and Inhibited by Varespladib. <i>Toxins</i> , 2021, 13, 302.	3.4	16
9	Probing Polyester Branching by Hybrid Trapped Ion-Mobility Spectrometry-Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1498-1507.	2.8	2
10	Microfluidic ion stripper for removal of trifluoroacetic acid from mobile phases used in HILIC-MS of intact proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4379-4386.	3.7	9
11	Limited Lactosylation of Beta-Lactoglobulin from Cow's Milk Exerts Strong Influence on Antigenicity and Degranulation of Mast Cells. <i>Nutrients</i> , 2021, 13, 2041.	4.1	8
12	Erythrocyte haemotoxicity profiling of snake venom toxins after nanofractionation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1176, 122586.	2.3	7
13	Characterization of a liquid-core waveguide cell for studying the chemistry of light-induced degradation. <i>Analyst</i> , 2021, 146, 3197-3207.	3.5	11
14	CE-MS for Proteomics and Intact Protein Analysis. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1336, 51-86.	1.6	9
15	A single-step preparation of carbohydrate functionalized monoliths for separation and trapping of polar compounds. <i>Journal of Chromatography A</i> , 2020, 1628, 461481.	3.7	5
16	MS-Based Allotype-Specific Analysis of Polyclonal IgG-Fc N-Glycosylation. <i>Frontiers in Immunology</i> , 2020, 11, 2049.	4.8	17
17	Neutralizing Effects of Small Molecule Inhibitors and Metal Chelators on Coagulopathic Viperinae Snake Venom Toxins. <i>Biomedicines</i> , 2020, 8, 297.	3.2	28
18	Neutralising effects of small molecule toxin inhibitors on nanofractionated coagulopathic Crotalinae snake venoms. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 1835-1845.	12.0	19

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19	Development of high-throughput screening assays for profiling snake venom phospholipase A2 activity after chromatographic fractionation. <i>Toxicon</i> , 2020, 184, 28-38.	1.6	10
20	Varespladib Inhibits the Phospholipase A2 and Coagulopathic Activities of Venom Components from Hemotoxic Snakes. <i>Biomedicines</i> , 2020, 8, 165.	3.2	27
21	Recent applications of chemometrics in one- and two-dimensional chromatography. <i>Journal of Separation Science</i> , 2020, 43, 1678-1727.	2.5	42
22	Probing Protein Denaturation during Size-Exclusion Chromatography Using Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 4292-4300.	6.5	40
23	Development of a generic high-throughput screening assay for profiling snake venom protease activity after high-resolution chromatographic fractionation. <i>Toxicon</i> , 2020, 178, 61-68.	1.6	7
24	Antivenom Neutralization of Coagulopathic Snake Venom Toxins Assessed by Bioactivity Profiling Using Nanofractionation Analytics. <i>Toxins</i> , 2020, 12, 53.	3.4	19
25	High throughput screening and identification of coagulopathic snake venom proteins and peptides using nanofractionation and proteomics approaches. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007802.	3.0	33
26	Analytics for Bioactivity Profiling of Complex Mixtures with a Focus on Venoms. <i>Methods in Molecular Biology</i> , 2020, 2068, 27-49.	0.9	0
27	Bioactivity Profiling of Small-Volume Samples by Nano Liquid Chromatography Coupled to Microarray Bioassaying Using High-Resolution Fractionation. <i>Analytical Chemistry</i> , 2019, 91, 10458-10466.	6.5	10
28	Compound Identification Using Liquid Chromatography and High-Resolution Noncontact Fraction Collection with a Solenoid Valve. <i>SLAS Technology</i> , 2019, 24, 543-555.	1.9	8
29	Chiral Discrimination of DL-Amino Acids by Trapped Ion Mobility Spectrometry after Derivatization with (+)-1-(9-Fluorenyl)ethyl Chloroformate. <i>Analytical Chemistry</i> , 2019, 91, 3277-3285.	6.5	46
30	Drug Discovery on Natural Products: From Ion Channels to nAChRs, from Nature to Libraries, from Analytics to Assays. <i>SLAS Discovery</i> , 2019, 24, 362-385.	2.7	29
31	Implementation of at-line capillary zone electrophoresis for fast and reliable determination of adenovirus concentrations in vaccine manufacturing. <i>Electrophoresis</i> , 2019, 40, 2277-2284.	2.4	11
32	Computer-aided gradient optimization of hydrophilic interaction liquid chromatographic separations of intact proteins and protein glycoforms. <i>Journal of Chromatography A</i> , 2019, 1598, 67-76.	3.7	16
33	CE-MS for metabolomics: Developments and applications in the period 2016-2018. <i>Electrophoresis</i> , 2019, 40, 165-179.	2.4	68
34	High-resolution glycoform profiling of intact therapeutic proteins by hydrophilic interaction chromatography-mass spectrometry. <i>Talanta</i> , 2018, 184, 375-381.	5.5	55
35	Nanofractionation Platform with Parallel Mass Spectrometry for Identification of CYP1A2 Inhibitors in Metabolic Mixtures. <i>SLAS Discovery</i> , 2018, 23, 283-293.	2.7	4
36	Capillary Electrophoresis: Trends and Recent Advances. <i>Analytical Chemistry</i> , 2018, 90, 1464-1481.	6.5	227

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37	Capillary HILIC-MS: A New Tool for Sensitive Top-Down Proteomics. <i>Analytical Chemistry</i> , 2018, 90, 6601-6609.	6.5	39
38	Fast, selective and quantitative protein profiling of adenovirus-vector based vaccines by ultra-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2018, 1581-1582, 25-32.	3.7	5
39	Affinity profiling of monoclonal antibody and antibody-drug-conjugate preparations by coupled liquid chromatography-surface plasmon resonance biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7837-7848.	3.7	23
40	Chiral capillary electrophoresis with UV-excited fluorescence detection for the enantioselective analysis of 9-fluorenylmethoxycarbonyl-derivatized amino acids. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4979-4990.	3.7	23
41	Neurotoxicity fingerprinting of venoms using on-line microfluidic AChBP profiling. <i>Toxicon</i> , 2018, 148, 213-222.	1.6	23
42	Enantioselective micellar electrokinetic chromatography of amino acids using (+)-9-fluorenylmethyl chloroformate derivatization and UV-induced fluorescence detection. <i>Journal of Separation Science</i> , 2018, 41, 2983-2992.	2.5	12
43	Linking the concentrations of itraconazole and 2-hydroxypropyl- β -cyclodextrin in human intestinal fluids after oral intake of Sporanox [®] . <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 132, 231-236.	4.3	12
44	Rapid ligand fishing for identification of acetylcholinesterase-binding peptides in snake venom reveals new properties of dendrotoxins. <i>Toxicon</i> , 2018, 152, 1-8.	1.6	16
45	Adduct-ion formation in trapped ion mobility spectrometry as a potential tool for studying molecular structures and conformations. <i>International Journal for Ion Mobility Spectrometry</i> , 2018, 21, 19-32.	1.4	21
46	Heterogeneity assessment of antibody-derived therapeutics at the intact and middle-up level by low-flow sheathless capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 1044, 181-190.	5.4	54
47	Liquid chromatographic nanofractionation with parallel mass spectrometric detection for the screening of plasmin inhibitors and (metallo)proteinases in snake venoms. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5751-5763.	3.7	16
48	Online screening of acetylcholinesterase inhibitors in natural products using monolith-based immobilized capillary enzyme reactors combined with liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1563, 135-143.	3.7	45
49	One single, fast and robust capillary electrophoresis method for the direct quantification of intact adenovirus particles in upstream and downstream processing samples. <i>Talanta</i> , 2017, 166, 8-14.	5.5	33
50	Detailed Characterization of Monoclonal Antibody Receptor Interaction Using Affinity Liquid Chromatography Hyphenated to Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 5404-5412.	6.5	43
51	Hydrophilic interaction liquid chromatography-mass spectrometry as a new tool for the characterization of intact semi-synthetic glycoproteins. <i>Analytica Chimica Acta</i> , 2017, 981, 94-105.	5.4	34
52	Continuous fraction collection of gas chromatographic separations with parallel mass spectrometric detection applied to cell-based bioactivity analysis. <i>Talanta</i> , 2017, 168, 162-167.	5.5	11
53	Fully compatible and ultra-sensitive micellar electrokinetic chromatography-tandem mass spectrometry using sheathless porous-tip interfacing. <i>Journal of Chromatography A</i> , 2017, 1524, 283-289.	3.7	8
54	Rapid screening and identification of ACE inhibitors in snake venoms using at-line nanofractionation LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5987-5997.	3.7	20

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55	Capillary electrophoresis-tandem mass spectrometry as a highly selective tool for the compositional and site-specific assessment of multiple peptide-deamidation. <i>Analytica Chimica Acta</i> , 2017, 982, 122-130.	5.4	18
56	Preface. <i>Journal of Chromatography A</i> , 2017, 1498, 1.	3.7	0
57	CE-MS for metabolomics: Developments and applications in the period 2014-2016. <i>Electrophoresis</i> , 2017, 38, 190-202.	2.4	82
58	A Novel Platinum(II)-Based Bifunctional ADC Linker Benchmarked Using 89Zr-Desferal and Auristatin F-Conjugated Trastuzumab. <i>Cancer Research</i> , 2017, 77, 257-267.	0.9	29
59	Multipurpose HTS Coagulation Analysis: Assay Development and Assessment of Coagulopathic Snake Venoms. <i>Toxins</i> , 2017, 9, 382.	3.4	42
60	Monitoring antigenic protein integrity during glycoconjugate vaccine synthesis using capillary electrophoresis-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6123-6132.	3.7	15
61	Development of an Online Cell-Based Bioactivity Screening Method by Coupling Liquid Chromatography to Flow Cytometry with Parallel Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 4825-4832.	6.5	5
62	Developments in coupled solid-phase extraction-capillary electrophoresis 2013-2015. <i>Electrophoresis</i> , 2016, 37, 35-44.	2.4	53
63	Enantioselective analysis of proteinogenic amino acids in cerebrospinal fluid by capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2016, 37, 2410-2419.	2.4	31
64	Gas chromatography fractionation platform featuring parallel flame-ionization detection and continuous high-resolution analyte collection in 384-well plates. <i>Journal of Chromatography A</i> , 2016, 1462, 100-106.	3.7	7
65	Capillary Zone Electrophoresis-Mass Spectrometry of Intact Proteins. <i>Methods in Molecular Biology</i> , 2016, 1466, 25-41.	0.9	13
66	Characterization of conformers and dimers of antithrombin by capillary electrophoresis-quadrupole-time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2016, 947, 58-65.	5.4	21
67	Highly Selective Screening of Estrogenic Compounds in Consumer-Electronics Plastics by Liquid Chromatography in Parallel Combined with Nanofractionation-Bioactivity Detection and Mass Spectrometry. <i>Environmental Science & Technology</i> , 2016, 50, 12385-12393.	10.0	17
68	Evaluation of capillary electrophoresis-mass spectrometry for the analysis of the conformational heterogeneity of intact proteins using beta2-microglobulin as model compound. <i>Analytica Chimica Acta</i> , 2016, 945, 102-109.	5.4	20
69	On-line coupling of surface plasmon resonance optical sensing to size-exclusion chromatography for affinity assessment of antibody samples. <i>Journal of Chromatography A</i> , 2016, 1452, 81-88.	3.7	6
70	Chiral separation of acidic compounds using an O-9-(tert-butylcarbamoyl)quinidine functionalized monolith in micro-liquid chromatography. <i>Journal of Chromatography A</i> , 2016, 1444, 64-73.	3.7	22
71	Self-Assembly of Cyclodextrins and Their Complexes in Aqueous Solutions. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 2556-2569.	3.3	111
72	At-Line Cellular Screening Methodology for Bioactives in Mixtures Targeting the $\alpha 7$ -Nicotinic Acetylcholine Receptor. <i>Journal of Biomolecular Screening</i> , 2016, 21, 459-467.	2.6	12

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73	At-line nanofractionation with parallel mass spectrometry and bioactivity assessment for the rapid screening of thrombin and factor Xa inhibitors in snake venoms. <i>Toxicon</i> , 2016, 110, 79-89.	1.6	23
74	Acylation of arginine in goserelin-loaded PLGA microspheres. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 99, 18-23.	4.3	14
75	Development of Plate Reader and On-Line Microfluidic Screening to Identify Ligands of the 5-Hydroxytryptamine Binding Protein in Venoms. <i>Toxins</i> , 2015, 7, 2336-2353.	3.4	2
76	At-line coupling of LC-MS to bioaffinity and selectivity assessment for metabolic profiling of ligands towards chemokine receptors CXCR1 and CXCR2. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1002, 42-53.	2.3	9
77	New capillary gel electrophoresis method for fast and accurate identification and quantification of multiple viral proteins in influenza vaccines. <i>Talanta</i> , 2015, 144, 1030-1035.	5.5	22
78	Rapid activity-directed screening of estrogens by parallel coupling of liquid chromatography with a functional gene reporter assay and mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1406, 165-174.	3.7	27
79	Comparison of capillary electrophoresis-mass spectrometry and hydrophilic interaction chromatography-mass spectrometry for anionic metabolic profiling of urine. <i>Talanta</i> , 2015, 132, 1-7.	5.5	33
80	Low-picomolar analysis of peptides by on-line coupling of fritless solid-phase extraction to sheathless capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1328, 1-6.	3.7	33
81	Analytical characterization of NOTA-modified somatropins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 96, 1-9.	2.8	11
82	Capillary electrophoresis-based assessment of nanobody affinity and purity. <i>Analytica Chimica Acta</i> , 2014, 818, 1-6.	5.4	17
83	In-capillary derivatization with (S)-1-(9-fluorenyl)ethyl chloroformate as chiral labeling agent for the electrophoretic separation of amino acids. <i>Journal of Chromatography A</i> , 2014, 1363, 338-347.	3.7	19
84	Hydrophilic interaction chromatography-mass spectrometry for anionic metabolic profiling of urine from antibiotic-treated rats. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 92, 98-104.	2.8	11
85	CE-MS for the analysis of intact proteins 2010-2012. <i>Electrophoresis</i> , 2013, 34, 99-112.	2.4	87
86	The Role of CE-MS in Metabolomics. , 2013, , 177-208.		7
87	Low-Flow Sheathless Capillary Electrophoresis-Mass Spectrometry for Sensitive Glycoform Profiling of Intact Pharmaceutical Proteins. <i>Analytical Chemistry</i> , 2013, 85, 2289-2296.	6.5	126
88	Capillary Electrophoresis with Lamp-Based Wavelength-Resolved Fluorescence Detection for the Probing of Protein Conformational Changes. <i>Analytical Chemistry</i> , 2011, 83, 6060-6067.	6.5	18
89	Capillary electrophoresis-mass spectrometry for the analysis of intact proteins 2007-2010. <i>Electrophoresis</i> , 2011, 32, 66-82.	2.4	97
90	Capillary electrophoresis-mass spectrometry of intact basic proteins using Polybrene-dextran sulfate-Polybrene-coated capillaries: System optimization and performance. <i>Analytica Chimica Acta</i> , 2010, 678, 128-134.	5.4	56

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91	Performance of a sheathless porous tip sprayer for capillary electrophoresis-electrospray ionization-mass spectrometry of intact proteins. <i>Journal of Chromatography A</i> , 2010, 1217, 7605-7611.	3.7	91
92	Lamp-based wavelength-resolved fluorescence detection for protein capillary electrophoresis: Setup and detector performance. <i>Electrophoresis</i> , 2010, 31, 2861-2868.	2.4	14
93	On-line coupling of electrokinetic chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 3978-3991.	3.7	35
94	Capillary electrophoresis of intact basic proteins using noncovalently triple-layer coated capillaries. <i>Journal of Separation Science</i> , 2009, 32, 2408-2415.	2.5	47
95	Determination of oversulfated chondroitin sulfate and dermatan sulfate impurities in heparin by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 4107-4112.	3.7	52
96	Lamp-based native fluorescence detection of proteins in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 4629-4632.	3.7	18
97	Effectiveness of Charged Noncovalent Polymer Coatings against Protein Adsorption to Silica Surfaces Studied by Evanescent-Wave Cavity Ring-Down Spectroscopy and Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2009, 81, 10172-10178.	6.5	36
98	Capillary electrophoresis-mass spectrometry of proteins at medium pH using bilayer-coated capillaries. <i>Analyst, The</i> , 2007, 132, 75-81.	3.5	28
99	Capillary electrophoresis-mass spectrometry for the analysis of intact proteins. <i>Journal of Chromatography A</i> , 2007, 1159, 81-109.	3.7	161
100	Analysis of recombinant human growth hormone by capillary electrophoresis with bilayer-coated capillaries using UV and MS detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 852, 160-166.	2.3	58
101	Micellar electrokinetic chromatography-mass spectrometry: combining the supposedly incompatible. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 31-33.	3.7	22
102	On-line micellar electrokinetic chromatography-mass spectrometry: feasibility of direct introduction of non-volatile buffer and surfactant into the electrospray interface. <i>Journal of Chromatography A</i> , 2003, 1000, 953-961.	3.7	71
103	Coupling of Electrokinetic Chromatography to Mass Spectrometry. , 0, , 307-336.		3
104	CE-MS for the analysis of intact proteins. , 0, , 159-192.		1