

Davy Guillarme

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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.

245 papers	10,040 citations	57 h-index	84 g-index
260 ext. papers	11,219 ext. citations	4.7 avg, IF	6.74 L-index

#	Paper	IF	Citations
245	Fast analysis in liquid chromatography using small particle size and high pressure. <i>Journal of Separation Science</i> , 2006 , 29, 1836-48	3.4	262
244	New trends in fast and high-resolution liquid chromatography: a critical comparison of existing approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1069-82	4.4	237
243	Modern analytical supercritical fluid chromatography using columns packed with sub-2 μ m particles: a tutorial. <i>Analytica Chimica Acta</i> , 2014 , 824, 18-35	6.6	203
242	Supercritical fluid chromatography in pharmaceutical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 113, 56-71	3.5	177
241	Theory and practice of size exclusion chromatography for the analysis of protein aggregates. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 101, 161-73	3.5	167
240	Coupling ultra-high-pressure liquid chromatography with mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 15-27	14.6	166
239	Chromatographic, Electrophoretic, and Mass Spectrometric Methods for the Analytical Characterization of Protein Biopharmaceuticals. <i>Analytical Chemistry</i> , 2016 , 88, 480-507	7.8	162
238	Comparison of ultra-high performance supercritical fluid chromatography and ultra-high performance liquid chromatography for the analysis of pharmaceutical compounds. <i>Journal of Chromatography A</i> , 2012 , 1266, 158-67	4.5	160
237	Method transfer for fast liquid chromatography in pharmaceutical analysis: application to short columns packed with small particle. Part II: gradient experiments. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 68, 430-40	5.7	155
236	Intact protein analysis in the biopharmaceutical field. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 55, 810-22	3.5	133
235	Recent developments in liquid chromatography--impact on qualitative and quantitative performance. <i>Journal of Chromatography A</i> , 2007 , 1149, 20-9	4.5	132
234	Ion-exchange chromatography for the characterization of biopharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 113, 43-55	3.5	126
233	A systematic investigation of the effect of sample diluent on peak shape in hydrophilic interaction liquid chromatography. <i>Journal of Chromatography A</i> , 2010 , 1217, 8230-40	4.5	120
232	Current and future trends in UHPLC. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 63, 2-13	14.6	116
231	Coupling ultra high-pressure liquid chromatography with mass spectrometry: constraints and possible applications. <i>Journal of Chromatography A</i> , 2013 , 1292, 2-18	4.5	113
230	High throughput liquid chromatography with sub-2 μ m particles at high pressure and high temperature. <i>Journal of Chromatography A</i> , 2007 , 1167, 76-84	4.5	108
229	New trends in reversed-phase liquid chromatographic separations of therapeutic peptides and proteins: theory and applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 69, 9-27	3.5	105

228	Method transfer for fast liquid chromatography in pharmaceutical analysis: application to short columns packed with small particle. Part I: isocratic separation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007 , 66, 475-82	5.7	102
227	Evaluation of various HILIC materials for the fast separation of polar compounds. <i>Journal of Separation Science</i> , 2010 , 33, 752-64	3.4	100
226	Method development for the separation of monoclonal antibody charge variants in cation exchange chromatography, Part I: salt gradient approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 102, 33-44	3.5	98
225	Importance of instrumentation for fast liquid chromatography in pharmaceutical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 87, 105-19	3.5	98
224	Analysis of basic compounds by supercritical fluid chromatography: attempts to improve peak shape and maintain mass spectrometry compatibility. <i>Journal of Chromatography A</i> , 2012 , 1262, 205-13	4.5	96
223	Adding a new separation dimension to MS and LC-MS: What is the utility of ion mobility spectrometry?. <i>Journal of Separation Science</i> , 2018 , 41, 20-67	3.4	94
222	Chromatographic behaviour and comparison of column packed with sub-2 microm stationary phases in liquid chromatography. <i>Journal of Chromatography A</i> , 2006 , 1128, 105-13	4.5	92
221	UPLC-TOF-MS for plant metabolomics: a sequential approach for wound marker analysis in <i>Arabidopsis thaliana</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 871, 261-70	3.2	91
220	Analytical strategies for the characterization of therapeutic monoclonal antibodies. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 42, 74-83	14.6	90
219	Optimized liquid chromatography-mass spectrometry approach for the isolation of minor stress biomarkers in plant extracts and their identification by capillary nuclear magnetic resonance. <i>Journal of Chromatography A</i> , 2008 , 1180, 90-8	4.5	90
218	Coupling state-of-the-art supercritical fluid chromatography and mass spectrometry: from hyphenation interface optimization to high-sensitivity analysis of pharmaceutical compounds. <i>Journal of Chromatography A</i> , 2014 , 1339, 174-84	4.5	89
217	Therapeutic drug monitoring of seven psychotropic drugs and four metabolites in human plasma by HPLC-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 50, 1000-8	3.5	88
216	Method development for the separation of monoclonal antibody charge variants in cation exchange chromatography, Part II: pH gradient approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 102, 282-9	3.5	87
215	Maximizing kinetic performance in supercritical fluid chromatography using state-of-the-art instruments. <i>Journal of Chromatography A</i> , 2013 , 1314, 288-97	4.5	86
214	Determination of isoelectric points and relative charge variants of 23 therapeutic monoclonal antibodies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1065-1066, 119-128	3.2	85
213	Strategies for formulating and delivering poorly water-soluble drugs. <i>Journal of Drug Delivery Science and Technology</i> , 2015 , 30, 342-351	4.5	84
212	Ultra high performance supercritical fluid chromatography coupled with tandem mass spectrometry for screening of doping agents. II: Analysis of biological samples. <i>Analytica Chimica Acta</i> , 2015 , 853, 647-659	6.6	78
211	Quantification of glucuronidated and sulfated steroids in human urine by ultra-high pressure liquid chromatography quadrupole time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 503-16	4.4	78

210	Practical constraints in the kinetic plot representation of chromatographic performance data: theory and application to experimental data. <i>Analytical Chemistry</i> , 2006 , 78, 2150-62	7.8	78
209	Direct identification of rituximab main isoforms and subunit analysis by online selective comprehensive two-dimensional liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 8307-15	7.8	77
208	Hydrophobic interaction chromatography for the characterization of monoclonal antibodies and related products. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 130, 3-18	3.5	76
207	Kinetic evaluation of new generation of column packed with 1.3 μ m core-shell particles. <i>Journal of Chromatography A</i> , 2013 , 1308, 104-13	4.5	74
206	Evaluation of a new wide pore core-shell material (Aeris WIDEPOR) and comparison with other existing stationary phases for the analysis of intact proteins. <i>Journal of Chromatography A</i> , 2012 , 1236, 177-88	4.5	68
205	Potential of hydrophilic interaction chromatography for the analytical characterization of protein biopharmaceuticals. <i>Journal of Chromatography A</i> , 2016 , 1448, 81-92	4.5	66
204	The use of columns packed with sub-2 μ m particles in supercritical fluid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 63, 44-54	14.6	64
203	Improved quality-by-design compliant methodology for method development in reversed-phase liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 84, 215-23	3.5	64
202	Systematic comparison of sensitivity between hydrophilic interaction liquid chromatography and reversed phase liquid chromatography coupled with mass spectrometry. <i>Journal of Chromatography A</i> , 2013 , 1312, 49-57	4.5	63
201	Analytical tools for the physicochemical profiling of drug candidates to predict absorption/distribution. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 707-29	4.4	63
200	Some solutions to obtain very efficient separations in isocratic and gradient modes using small particles size and ultra-high pressure. <i>Journal of Chromatography A</i> , 2009 , 1216, 3232-43	4.5	63
199	Hydrophilic Interaction Chromatography Hyphenated with Mass Spectrometry: A Powerful Analytical Tool for the Comparison of Originator and Biosimilar Therapeutic Monoclonal Antibodies at the Middle-up Level of Analysis. <i>Analytical Chemistry</i> , 2017 , 89, 2086-2092	7.8	62
198	Comparison of originator and biosimilar therapeutic monoclonal antibodies using comprehensive two-dimensional liquid chromatography coupled with time-of-flight mass spectrometry. <i>MABs</i> , 2016 , 8, 1224-1234	6.6	61
197	Ultra high performance supercritical fluid chromatography coupled with tandem mass spectrometry for screening of doping agents. I: Investigation of mobile phase and MS conditions. <i>Analytica Chimica Acta</i> , 2015 , 853, 637-646	6.6	60
196	The effect of pressure and mobile phase velocity on the retention properties of small analytes and large biomolecules in ultra-high pressure liquid chromatography. <i>Journal of Chromatography A</i> , 2012 , 1270, 127-38	4.5	60
195	Evaluation of columns packed with shell particles with compounds of pharmaceutical interest. <i>Journal of Chromatography A</i> , 2012 , 1228, 221-31	4.5	60
194	Screening of the most relevant parameters for method development in ultra-high performance hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2013 , 1282, 72-83	4.5	59
193	High throughput qualitative analysis of polyphenols in tea samples by ultra-high pressure liquid chromatography coupled to UV and mass spectrometry detectors. <i>Journal of Chromatography A</i> , 2010 , 1217, 6882-90	4.5	59

192	Development of Comprehensive Online Two-Dimensional Liquid Chromatography/Mass Spectrometry Using Hydrophilic Interaction and Reversed-Phase Separations for Rapid and Deep Profiling of Therapeutic Antibodies. <i>Analytical Chemistry</i> , 2018 , 90, 5923-5929	7.8	58
191	Comparison of the most recent chromatographic approaches applied for fast and high resolution separations: Theory and practice. <i>Journal of Chromatography A</i> , 2015 , 1408, 1-14	4.5	57
190	An Online Four-Dimensional HICSEC-IMMS Methodology for Proof-of-Concept Characterization of Antibody Drug Conjugates. <i>Analytical Chemistry</i> , 2018 , 90, 1578-1586	7.8	57
189	Metabolite profiling of plant extracts by ultra-high-pressure liquid chromatography at elevated temperature coupled to time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 5660-8	4.5	57
188	Retention modeling and method development in hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2014 , 1337, 116-27	4.5	56
187	Applicability of supercritical fluid chromatography - mass spectrometry to metabolomics. I - Optimization of separation conditions for the simultaneous analysis of hydrophilic and lipophilic substances. <i>Journal of Chromatography A</i> , 2018 , 1562, 96-107	4.5	55
186	Applications of hydrophilic interaction chromatography to amino acids, peptides, and proteins. <i>Journal of Separation Science</i> , 2015 , 38, 357-67	3.4	54
185	A systematic investigation of sample diluents in modern supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2017 , 1511, 122-131	4.5	54
184	Practical method transfer from high performance liquid chromatography to ultra-high performance liquid chromatography: the importance of frictional heating. <i>Journal of Chromatography A</i> , 2011 , 1218, 7971-81	4.5	54
183	Impact of mobile phase temperature on recovery and stability of monoclonal antibodies using recent reversed-phase stationary phases. <i>Journal of Separation Science</i> , 2012 , 35, 3113-23	3.4	53
182	Hyphenation of size exclusion chromatography to native ion mobility mass spectrometry for the analytical characterization of therapeutic antibodies and related products. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1086, 176-183	3.2	52
181	What are the current solutions for interfacing supercritical fluid chromatography and mass spectrometry?. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1083, 160-170	3.2	52
180	Coupling ultra high-pressure liquid chromatography with single quadrupole mass spectrometry for the analysis of a complex drug mixture. <i>Talanta</i> , 2009 , 78, 377-87	6.2	52
179	Aminoglycoside analysis in food of animal origin with a zwitterionic stationary phase and liquid chromatography-tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 882, 127-39	6.6	51
178	Fast and sensitive supercritical fluid chromatography - tandem mass spectrometry multi-class screening method for the determination of doping agents in urine. <i>Analytica Chimica Acta</i> , 2016 , 915, 102-10	6.6	50
177	Practical method development for the separation of monoclonal antibodies and antibody-drug-conjugate species in hydrophobic interaction chromatography, part 1: optimization of the mobile phase. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 118, 393-403	3.5	50
176	Liquid chromatography and supercritical fluid chromatography as alternative techniques to gas chromatography for the rapid screening of anabolic agents in urine. <i>Journal of Chromatography A</i> , 2016 , 1451, 145-155	4.5	50
175	Characterization of 30 therapeutic antibodies and related products by size exclusion chromatography: Feasibility assessment for future mass spectrometry hyphenation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1065-1066, 35-43	3.2	49

174	Ultra-high performance supercritical fluid chromatography coupled with quadrupole-time-of-flight mass spectrometry as a performing tool for bioactive analysis. <i>Journal of Chromatography A</i> , 2016 , 1450, 101-11	4.5	49
173	Ultra High Pressure Liquid Chromatography for Crude Plant Extract Profiling. <i>Journal of AOAC INTERNATIONAL</i> , 2011 , 94, 51-70	1.7	48
172	Evaluation and comparison of various separation techniques for the analysis of closely-related compounds of pharmaceutical interest. <i>Journal of Chromatography A</i> , 2013 , 1282, 172-7	4.5	47
171	Relation between the particle size distribution and the kinetic performance of packed columns. Application to a commercial sub-2 microm particle material. <i>Journal of Chromatography A</i> , 2007 , 1161, 224-33	4.5	47
170	Recent Advances in Chromatography for Pharmaceutical Analysis. <i>Analytical Chemistry</i> , 2019 , 91, 210-239.8	3.8	47
169	Critical evaluation of fast size exclusion chromatographic separations of protein aggregates, applying sub-2 μ m particles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 78-79, 141-9	3.5	46
168	Evaluation of recent very efficient wide-pore stationary phases for the reversed-phase separation of proteins. <i>Journal of Chromatography A</i> , 2012 , 1252, 90-103	4.5	46
167	Fast chiral separation of drugs using columns packed with sub-2 microm particles and ultra-high pressure. <i>Chirality</i> , 2010 , 22, 320-30	2.1	46
166	Protocols for the analytical characterization of therapeutic monoclonal antibodies. II - Enzymatic and chemical sample preparation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1060, 325-335	3.2	45
165	Evaluation of various chromatographic approaches for the retention of hydrophilic compounds and MS compatibility. <i>Journal of Separation Science</i> , 2013 , 36, 3141-51	3.4	45
164	Prediction of retention time in reversed-phase liquid chromatography as a tool for steroid identification. <i>Analytica Chimica Acta</i> , 2016 , 916, 8-16	6.6	44
163	Ultra-high-performance liquid chromatography for the characterization of therapeutic proteins. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 63, 76-84	14.6	44
162	Evaluation of size exclusion chromatography columns packed with sub-3 μ m particles for the analysis of biopharmaceutical proteins. <i>Journal of Chromatography A</i> , 2017 , 1498, 80-89	4.5	44
161	Comparison of columns packed with porous sub-2 microm particles and superficially porous sub-3 microm particles for peptide analysis at ambient and high temperature. <i>Journal of Separation Science</i> , 2010 , 33, 2465-77	3.4	44
160	Validation of chiral capillary electrophoresis-electrospray ionization-mass spectrometry methods for ecstasy and methadone in plasma. <i>Electrophoresis</i> , 2008 , 29, 2193-202	3.6	44
159	Supercritical fluid chromatography [Mass spectrometry: Recent evolution and current trends. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 731-738	14.6	43
158	Evaluation of stationary phases packed with superficially porous particles for the analysis of pharmaceutical compounds using supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014 , 1360, 275-87	4.5	43
157	Analysis of recombinant monoclonal antibodies by RPLC: toward a generic method development approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 70, 158-68	3.5	43

156	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 161, 414-424	3.5	43
155	Monoclonal antibody N-glycosylation profiling using capillary electrophoresis - Mass spectrometry: Assessment and method validation. <i>Talanta</i> , 2018 , 178, 530-537	6.2	42
154	Analytical aspects in doping control: challenges and perspectives. <i>Forensic Science International</i> , 2011 , 213, 49-61	2.6	42
153	Analysis of antibody-drug conjugates by comprehensive on-line two-dimensional hydrophobic interaction chromatography x reversed phase liquid chromatography hyphenated to high resolution mass spectrometry. I - Optimization of separation conditions. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1032, 103-111	3.2	41
152	Quantitative determination of salbutamol sulfate impurities using achiral supercritical fluid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 134, 170-180	3.5	39
151	Current possibilities of liquid chromatography for the characterization of antibody-drug conjugates. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 147, 493-505	3.5	39
150	UHPLC determination of catechins for the quality control of green tea. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 88, 307-14	3.5	39
149	Pharmaceutical applications on columns packed with sub-2 microm particles. <i>Journal of Chromatographic Science</i> , 2008 , 46, 199-208	1.4	39
148	Microemulsion electrokinetic chromatography hyphenated to atmospheric pressure photoionization mass spectrometry. <i>Electrophoresis</i> , 2008 , 29, 11-9	3.6	38
147	Glycosylation of biosimilars: Recent advances in analytical characterization and clinical implications. <i>Analytica Chimica Acta</i> , 2019 , 1089, 1-18	6.6	37
146	New prostaglandin analog formulation for glaucoma treatment containing cyclodextrins for improved stability, solubility and ocular tolerance. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 95, 203-14	5.7	37
145	Adsorption and recovery issues of recombinant monoclonal antibodies in reversed-phase liquid chromatography. <i>Journal of Separation Science</i> , 2015 , 38, 1-8	3.4	37
144	Comparison of liquid chromatography and supercritical fluid chromatography coupled to compact single quadrupole mass spectrometer for targeted in vitro metabolism assay. <i>Journal of Chromatography A</i> , 2014 , 1371, 244-56	4.5	37
143	A Novel Online Four-Dimensional SEC-BEC-IMMS Methodology for Characterization of Monoclonal Antibody Size Variants. <i>Analytical Chemistry</i> , 2018 , 90, 13929-13937	7.8	37
142	Practical method development for the separation of monoclonal antibodies and antibody-drug-conjugate species in hydrophobic interaction chromatography, part 2: Optimization of the phase system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 121, 161-173	3.5	36
141	Analytical strategies for the determination of amino acids: Past, present and future trends. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019 , 1132, 121819	3.2	35
140	Hydrophilic interaction chromatography versus reversed phase liquid chromatography coupled to mass spectrometry: effect of electrospray ionization source geometry on sensitivity. <i>Journal of Chromatography A</i> , 2014 , 1356, 211-20	4.5	35
139	Contribution of various types of liquid chromatography-mass spectrometry instruments to band broadening in fast analysis. <i>Journal of Chromatography A</i> , 2013 , 1310, 45-55	4.5	35

138	Characterization of an antibody-drug conjugate by hydrophilic interaction chromatography coupled to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1080, 37-41	3.2	32
137	Protocols for the analytical characterization of therapeutic monoclonal antibodies. I - Non-denaturing chromatographic techniques. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1058, 73-84	3.2	31
136	The Emergence of Universal Chromatographic Methods in the Research and Development of New Drug Substances. <i>Accounts of Chemical Research</i> , 2019 , 52, 1990-2002	24.3	31
135	Systematic evaluation of matrix effects in supercritical fluid chromatography versus liquid chromatography coupled to mass spectrometry for biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1079, 51-61	3.2	31
134	Analytical Strategies for Doping Control Purposes: Needs, Challenges, and Perspectives. <i>Analytical Chemistry</i> , 2016 , 88, 508-23	7.8	31
133	Reliability of simulated robustness testing in fast liquid chromatography, using state-of-the-art column technology, instrumentation and modelling software. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 89, 67-75	3.5	31
132	Peak capacity optimisation for high resolution peptide profiling in complex mixtures by liquid chromatography coupled to time-of-flight mass spectrometry: application to the Conus consors cone snail venom. <i>Journal of Chromatography A</i> , 2012 , 1259, 187-99	4.5	31
131	Cutting-edge multi-level analytical and structural characterization of antibody-drug conjugates: present and future. <i>Expert Review of Proteomics</i> , 2019 , 16, 337-362	4.2	30
130	Possibilities of new generation columns packed with 1.3 μ m core-shell particles in gradient elution mode. <i>Journal of Chromatography A</i> , 2013 , 1320, 86-95	4.5	30
129	Systematic evaluation of mobile phase additives for the LC-MS characterization of therapeutic proteins. <i>Talanta</i> , 2015 , 136, 60-7	6.2	29
128	Utility of a high coverage phenyl-bonding and wide-pore superficially porous particle for the analysis of monoclonal antibodies and related products. <i>Journal of Chromatography A</i> , 2018 , 1549, 63-76	4.5	29
127	Analysis of peptides and proteins using sub-2 μ m fully porous and sub 3- μ m shell particles. <i>Journal of Chromatography A</i> , 2011 , 1218, 8903-14	4.5	29
126	Multi-dimensional LC-MS: the next generation characterization of antibody-based therapeutics by unified online bottom-up, middle-up and intact approaches. <i>Analyst, The</i> , 2021 , 146, 747-769	5	29
125	Rational and Efficient Preparative Isolation of Natural Products by MPLC-UV-ELSD based on HPLC to MPLC Gradient Transfer. <i>Planta Medica</i> , 2015 , 81, 1636-43	3.1	28
124	Interlaboratory and Interplatform Study of Steroids Collision Cross Section by Traveling Wave Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 5013-5022	7.8	28
123	Systematic comparison of a new generation of columns packed with sub-2 μ m superficially porous particles. <i>Journal of Separation Science</i> , 2014 , 37, 189-97	3.4	28
122	Method development for pharmaceuticals: some solutions for tuning selectivity in reversed phase and hydrophilic interaction liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 63, 95-105	3.5	28
121	Influence of pressure and temperature on molar volume and retention properties of peptides in ultra-high pressure liquid chromatography. <i>Journal of Chromatography A</i> , 2013 , 1311, 65-71	4.5	28

120	Characterization of cation exchanger stationary phases applied for the separations of therapeutic monoclonal antibodies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 111, 169-76	3.5	27
119	Possibilities of retention modeling and computer assisted method development in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2015 , 1381, 219-28	4.5	27
118	Applicability of Supercritical fluid chromatography-Mass spectrometry to metabolomics. II-Assessment of a comprehensive library of metabolites and evaluation of biological matrices. <i>Journal of Chromatography A</i> , 2020 , 1620, 461021	4.5	26
117	Impact of organic modifier and temperature on protein denaturation in hydrophobic interaction chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 131, 124-132	3.5	26
116	Therapeutic Fc-fusion proteins: Current analytical strategies. <i>Journal of Separation Science</i> , 2021 , 44, 35-62	3.4	26
115	Estimation of pressure-, temperature- and frictional heating-related effects on proteins retention under ultra-high-pressure liquid chromatographic conditions. <i>Journal of Chromatography A</i> , 2015 , 1393, 73-80	4.5	25
114	Evaluation of innovative stationary phase ligand chemistries and analytical conditions for the analysis of basic drugs by supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2016 , 1438, 244-53	4.5	25
113	Comparative study of recent wide-pore materials of different stationary phase morphology, applied for the reversed-phase analysis of recombinant monoclonal antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 3137-51	4.4	25
112	A scoring approach for multi-platform acquisition in metabolomics. <i>Journal of Chromatography A</i> , 2019 , 1592, 47-54	4.5	25
111	Systematic evaluation of matrix effects in hydrophilic interaction chromatography versus reversed phase liquid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2016 , 1439, 42-53	4.5	24
110	Development of a fast workflow to screen the charge variants of therapeutic antibodies. <i>Journal of Chromatography A</i> , 2017 , 1498, 147-154	4.5	24
109	Analysis of antibody-drug conjugates by comprehensive on-line two-dimensional hydrophobic interaction chromatography x reversed phase liquid chromatography hyphenated to high resolution mass spectrometry. II- Identification of sub-units for the characterization of even and odd antibody-drug conjugates. <i>Journal of Chromatography A</i> , 2018 , 1620, 461021	3.2	24
108	Unraveling the mysteries of modern size exclusion chromatography - the way to achieve confident characterization of therapeutic proteins. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1092, 368-378	3.2	24
107	Computer-assisted UHPLC-MS method development and optimization for the determination of 24 antineoplastic drugs used in hospital pharmacy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 164, 395-401	3.5	24
106	Antineoplastic drugs and their analysis: a state of the art review. <i>Analyst, The</i> , 2017 , 142, 2273-2321	5	23
105	Implementation of a generic liquid chromatographic method development workflow: Application to the analysis of phytocannabinoids and Cannabis sativa extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 155, 116-124	3.5	23
104	High resolution reversed phase analysis of recombinant monoclonal antibodies by ultra-high pressure liquid chromatography column coupling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 83, 273-8	3.5	23
103	Some advantages of high temperature for the separation of pharmaceutical compounds with mass spectrometry detection. <i>Journal of Separation Science</i> , 2005 , 28, 1803-11	3.4	23

102	Tuning selectivity in cation-exchange chromatography applied for monoclonal antibody separations, part 1: Alternative mobile phases and fine tuning of the separation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 168, 138-147	3.5	22
101	Coupling non-denaturing chromatography to mass spectrometry for the characterization of monoclonal antibodies and related products. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 185, 113207	3.5	22
100	Protocols for the analytical characterization of therapeutic monoclonal antibodies. III - Denaturing chromatographic techniques hyphenated to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1096, 95-106	3.2	22
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