TomÃ¡s HÃ¡jek

List of Publications by Year
in descending order

32 papers	1,185 citations	430874 18 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	1041 citing authors

#	Article	IF	Citations
1	RP-HPLC analysis of phenolic compounds and flavonoids in beverages and plant extracts using a CoulArray detector. Journal of Separation Science, 2005, 28, 1005-1022.	2.5	108
2	Utilization of dual retention mechanism on columns with bonded PEG and diol stationary phases for adjusting the separation selectivity of phenolic and flavone natural antioxidants. Journal of Separation Science, 2009, 32, 3603-3619.	2.5	93
3	Optimization of two-dimensional gradient liquid chromatography separations. Journal of Chromatography A, 2009, 1216, 3443-3457.	3.7	89
4	Dual hydrophilic interactionâ€RP retention mechanism on polar columns: Structural correlations and implementation for 2â€D separations on a single column. Journal of Separation Science, 2010, 33, 841-852.	2.5	88
5	Optimization of separation in two-dimensional high-performance liquid chromatography by adjusting phase system selectivity and using programmed elution techniques. Journal of Chromatography A, 2008, 1189, 207-220.	3.7	70
6	Multidimensional LCÃ—LC analysis of phenolic and flavone natural antioxidants with UVâ€electrochemical coulometric and MS detection. Journal of Separation Science, 2008, 31, 3309-3328.	2.5	65
7	Optimization of comprehensive two-dimensional gradient chromatography coupling in-line hydrophilic interaction and reversed phase liquid chromatography. Journal of Chromatography A, 2012, 1268, 91-101.	3.7	65
8	Continuous comprehensive two-dimensional liquid chromatographyâ€“electrospray ionization mass spectrometry of complex lipidomic samples. Analytical and Bioanalytical Chemistry, 2015, 407, 5033-5043.	3.7	63
9	Comparison of various secondâ€dimension gradient types in comprehensive twoâ€dimensional liquid chromatography. Journal of Separation Science, 2010, 33, 1382-1397.	2.5	51
10	Effects of the gradient profile, sample volume and solvent on the separation in very fast gradients, with special attention to the second-dimension gradient in comprehensive two-dimensional liquid chromatography. Journal of Chromatography A, 2011, 1218, 1995-2006.	3.7	49
11	Monolithic and coreâ€“shell columns in comprehensive two-dimensional HPLC: a review. Analytical and Bioanalytical Chemistry, 2015, 407, 139-151.	3.7	47
12	Mobile phase effects on the retention on polar columns with special attention to the dual hydrophilic interactionâ€“reversedâ€phase liquid chromatography mechanism, a review. Journal of Separation Science, 2018, 41, 145-162.	2.5	45
13	Characterization of HPLC columns for twoâ€dimensional LCâ€‰Ã—â€‰LC separations of phenolic acids and flavonoids. Journal of Chemometrics, 2008, 22, 203-217.	1.3	42
14	Analysis of Czech meads: Sugar content, organic acids content and selected phenolic compounds content. Journal of Food Composition and Analysis, 2015, 38, 80-88.	3.9	40
15	New zwitterionic polymethacrylate monolithic columns for oneâ€and twoâ€dimensional microliquid chromatography. Journal of Separation Science, 2013, 36, 2430-2440.	2.5	36
16	Capillary electrophoretic chiral separation of <i>Cinchona</i> alkaloids using a cyclodextrin selector. Journal of Separation Science, 2008, 31, 1130-1136.	2.5	28
17	Automated dual two-dimensional liquid chromatography approach for fast acquisition of three-dimensional data using combinations of zwitterionic polymethacrylate and silica-based monolithic columns. Journal of Chromatography A, 2016, 1446, 91-102.	3.7	26
18	Antioxidant properties and textural characteristics of processed cheese spreads enriched with rutin or quercetin: The effect of processing conditions. LWT - Food Science and Technology, 2018, 87, 266-271.	5.2	23

#	Article	IF	Citations
19	Mobile phase effects in reversed-phase and hydrophilic interaction liquid chromatography revisited. Journal of Chromatography A, 2018, 1543, 48-57.	3.7	19
20	Columns and optimum gradient conditions for fast secondâ€dimension separations in comprehensive twoâ€dimensional liquid chromatography. Journal of Separation Science, 2012, 35, 1712-1722.	2.5	17
21	Retention and bandwidths prediction in fast gradient liquid chromatography. Part 2â€"Coreâ€"shell columns. Journal of Chromatography A, 2014, 1337, 57-66.	3.7	16
22	Possibilities of retention prediction in fast gradient liquid chromatography. Part 3: Short silica monolithic columns. Journal of Chromatography A, 2015, 1410, 76-89.	3.7	15
23	Retention Models on Coreâ€"Shell Columns. Journal of AOAC INTERNATIONAL, 2017, 100, 1636-1646.	1.5	15
24	Dualâ€mode hydrophilic interaction normal phase and reversed phase liquid chromatography of polar compounds on a single column. Journal of Separation Science, 2020, 43, 70-86.	2.5	14
25	Bioaccessibility of phenolics from carob (Ceratonia siliqua L.) pod powder prepared by cryogenic and vibratory grinding. Food Chemistry, 2022, 377, 131968.	8.2	12
26	Voltammetric determination of ethylvanillin and methylvanillin sum at carbon paste electrode modified by sodium dodecyl sulfate in selected foodstuffs. Monatshefte FÃ¼r Chemie, 2018, 149, 1945-1953.	1.8	11
27	Utilization of coulometric array detection in analysis of beverages and plant extracts. Procedia Chemistry, 2010, 2, 92-100.	0.7	10
28	Monolithic stationary phases with a longitudinal gradient of porosity. Journal of Separation Science, 2017, 40, 1703-1709.	2.5	9
29	Antioxidant properties of processed cheese spread after freeze-dried and oven-dried grape skin powder addition. Potravinarstvo, 0, 14, 230-238.	0.6	9
30	Comprehensive twoâ€dimensional monolithic liquid chromatography of polar compounds. Journal of Separation Science, 2019, 42, 670-677.	2.5	6
31	The effect of soaking regime and moderate drying temperature on the quality of buckwheat-based product. Journal of Cereal Science, 2018, 81, 15-21.	3.7	2
32	A New Definition of the Stationary Phase Volume in Mixed-Mode Chromatographic Columns in Hydrophilic Liquid Chromatography. Molecules, 2021, 26, 4819.	3.8	2