Literature references for Cogent TYPE-C HPLC columns – Tech Information

The following is a list of Articles published in peer-reviewed Journals and books that discuss Cogent TYPE-C™ Silica based HPLC Columns and their Applications:

Authors	Title	Publication	Date	Volume	Pages
Appia-Kusi, Volda and Lurie, Ira S.,	Utility of 'Flip-Flop' Chromatography Employing Silica Hydride Stationary Phases with Simultaneous Photodiode Array Ultraviolet and Single Quadrupole Mass Detection for the Analysis of Seized Drugs	Journal of Chromatography	September 2023	1707	
Jason G. Dumelie, Qiuying Chen, Dawson Miller, Nabeel Attarwala, Steven S. Gross & Samie R. Jaffrey	Biomolecular condensates create phospholipid-enriched microenvironments	Nature chemical biology	2023		
Joseph J. Pesek, Maria T. Matyska, Tanya Hiltz, Gary Takeoka	Validation of an Aqueous Normal Phase Chromatography Method for the Analysis of Ergothioneine in Commercial Mushrooms	LCGC North America	2023	41	341–344, 349
Joseph J. Pesek, Maria T. Matyska, Tanya Hiltz, Jennifer McCall	Application of a Cholesterol-Based Stationary Phase for the Analysis of Brevetoxins	Journal of Separation Science	2022	46	2200666
Bugajev Viktor, Halova Ivana, Demkova Livia, Cernohouzova Sara, Vavrova Petra, Mrkacek Michal, Utekal	ORMDL2 Deficiency Potentiates the ORMDL3-Dependent Changes in Mast Cell Signaling	Frontiers in Immunology	2021	11	591975
Pesek JJ, Matyska MT, Tardiff E, Hiltz T.	Chromatographic characterization of a silica hydride-based amide stationary phase.	Journal of Separation Science	2021	14	2728-2734
Pesek JJ, Matyska MT.	Silica Hydride: A Separation Material Every Analyst Should Know About.	Molecules	2021	26	7505
Marisa C. May, David C. Pavone, Dr. Ira S. Lurie	The separation and identification of synthetic cathinones by portable low micro-flow liquid chromatography with dual capillary columns in series and dual wavelength ultraviolet detection	Journal of Separation Science	2020	43	1-9

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Carly Ploumen, Ioan Marginean, Ira S. Lurie	The utility of silica hydride-based stationary phases for dual-mode ultra high performance liquid chromatography separation of synthetic cathinone positional isomers	Journal of Separation Science	2020	43	1–9
P. Jandera, T. Hájek	Mobile phase effects on the retention on polar columns with special attention to the dual hydrophilic interaction–reversed-phase liquid chromatography mechanism, a review	Journal of Separation Science	2018	41	145-162
E. Bartó, A. Felinger, P. Jandera	Investigation of the temperature dependence of water adsorption on silica-based stationary phases in hydrophilic interaction liquid chromatography	Journal of Chromatography A	2017	1489	143–148
J.J. Pesek, M.T. Matyska	Silica Hydride-Based Packing Materials: HPLC Stationary Phases for a Global Approach to Complex Sample Analysis	Current Chromatography	2017	4	1-10
D.K. Appulage, K.A. Schug	Silica hydride based phases for small molecule separations using automated liquid chromatography–mass spectrometry method development	Journal of Chromatography A	2017	1507	115-123
J.E. Young, Z. Pan, H. Ean, V. Menon, B. Modereger, J.J. Pesek, M.T. Matyska, G. Takeoka	Phenolic Composition of Pomegranate Peel Extracts using an LC-MS Approach with Silica Hydride Columns	J. Sep. Sci.	2017	40	1449-1456
J.E. Young, J.J. Pesek, M.T. Matyska, B. Sanchez, B. White	Quantitative Analysis of Uric Acid Metabolites in Urine by High Performance Liquid Chromatography – Mass Spectrometry using Silica Hydride Columns	Current Chromatography	2017	4	51-57
R. Naffa, G. Holmes, M. Ahn, D. Harding, G. Norris	Liquid chromatography-electrospray ionization mass spectrometryfor the simultaneous quantitation of collagen and elastin crosslinks	Journal of Chromatography A	2016	1478	60-67
J.E. Young, T. Nguyen, C. Ly, S. Jarman, D. Diep, C. Pham, J.J. Pesek, M.T. Matyska, G.R. Takeoka	LC–MS Characterization of Mesquite Flour Constituents	LC-GC North America Special Issues	2016	10	28-31

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J.C. Evans, C. Trujillo, Z. Wang, H. Eoh, S. Ehrt, D. Schnappinger, H.I.M. Boshoff, K.Y. Rhee, C.E. Barry III, V. Mizrahi	Validation of CoaBC as a bactericidal target in the coenzyme A pathway of Mycobacterium tuberculosis	ACS Infectious Diseases	2016	2	958–968
H. Grajek, Z. Witkiewicz, M. Purchała, W. Drzewiński	Liquid Crystals as Stationary Phases in Chromatography	Chromatographia	2016		1-29
Y. Kannan1, J. Perez-Lloret, Y. Li1, L.J. Entwistle, H. Khoury, S. Papoutsopoulou, R. Mahmood, N.R. Mansour, S.C. Huang, E.J. Pearce, L.P.S. de Carvalho, S.C. Ley, M.S. Wilson	TPL-2 Regulates Macrophage Lipid Metabolism and M2 Differentiation to Control TH2-Mediated Immunopathology	PLOS Pathogens	2016	12(8)	1-26
E. Cífková, R. Hájek, M. Lísa, M. Holčapek	HILIC/ESI-MS Separation of acidic and other lipid classes using hydride column	HPLC 2016 poster	2016	N/A	N/A
C. Kulsing, Y. Yang, R. Sepehrifar, M. Lim, J. Toppete, M.T. Matyska, J.J. Pesek, R.I. Boysen, M.T.W. Hearn	Investigations into the separation behaviour of perfluorinated C8 and Undecanoic acid modified silica hydride stationary phases	Analytica Chimica Acta	2016	916	102-111
J.E. Young	Advances in chromatographic analysis of foods and beverages: modern stationary phases for challenging compounds	Agro Food Industry Hi Tech	2016	27	14-17
J.J. Pesek, M.T. Matyska, M. Sieng, L. Doan	Analysis of Capsaicinoids in Hot Sauces Using a Silica Hydride-Based Stationary Phase	Current Chromatography	2016	3	12-16
J.E. Young, J.J. Pesek, M.T. Matyska	Robust HPLC-Refractive Index Analysis of Simple Sugars in Beverages using Silica Hydride Columns	Current Nutrition & Food Science	2016	12	125-131

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J.J. Pesek, M.T. Matyksa, B. Modereger, A. Hasbun, V.T. Phan, Z. Mehr, M. Guzman, S. Watanable	The separation and analysis of symmetric and asymmetric dimethylarginine and other hydrophilic isobaric compounds using Aqueous Normal Phase Chromatography	J. Chromatogr. A.	2016	1441	52-59
J.E. Young, M.V. Lim, J. Topete, H. Hang, M. Gahol, J.J. Pesek, M.T. Matyska	Improved Sensitivity and **Specificity** for trans-Resveratrol in Red Wine Analysis with HPLC-UV and LC-MS	LC GC N. Am.	2016	34	206-213
E. Cífková, R. Hájek, M. Lísa, M. Holčapek	Hydrophilic interaction liquid chromatography–mass spectrometry of (lyso)phosphatidic acids, (yso)phosphatidylserines and other lipid classes	J. Chromatogr. A.	2016	1439	65-73
J. Pesek, M. Matyska, A. Jimena, J. Juan, A. Jo, B. Berioso	Analysis of glucosamine using **aqueous normal phase** chromatography	Food Sci. Technol.	2016	65	777-782
J.J. Kamphorst, M. Nofal, C. Commisso, S.R. Hackett,W. Lu, E. Grabocka, M.G.Vander Heiden, G. Miller, J.A. Drebin, D. Bar-Sagi, C.B. Thompson, J.D. Rabinowitz	Human Pancreatic Cancer Tumors Are Nutrient Poor and Tumor Cells Actively Scavenge Extracellular Protein	Cancer Research	2015	75	544-553
Y. Dai, S.M. Fischer	Metabolomics Batch Data Analysis Workflow to Characterize Differential Metabolites in Bacteria	Agilent Application Note	2015	N/A	1-8
E.M. Borges	Silica, Hybrid Silica, Hydride Silica and Non-Silica Stationary Phases for Liquid Chromatography	J. Chromatogr. Sci.	2015	53	580-597
A. Dang, M. Sieng, J.J. Pesek, M.T. Matyska	Determination of Bisphenol A in Receipts and Carbon Paper by HPLC-UV	J. Liq. Chromatogr. & Rel Technol.	2015	38	438-442
J.J. Pesek, M.T. Matyska, M. Sieng, L. Doan	Analysis of Capsaicinoids in Hot Sauces using a Silica Hydride-based Stationary Phase	Curr. Chromatogr.	2015	3	

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Y. Nolvachai, C. Kulsing, R.I. Boysen, M.T. Matyska, J.J. Pesek, P.J. Marriott, M.T.W. Hearn	Comparison of the performance of different silica hydride particles for the solid-phase extraction of non-volatile analytes from dark chocolate with analysis by gas chromatography–quadrupole mass spectrometry	Food Chem.	2015	174	434-439
J. Pesek, M. Matyska, A. Dang	Analysis of ethyl glucuronide and ethyl sulfate using aqueous normal-phase chromatography with mass spectrometry	J. Sep. Sci.	2015	38	1515-1520
J. Pesek, M. Matyska, N. Salehi	Evaluation of Stationary Phases Made by Hydrosilation of Alkynes on Silica Hydride	Curr. Chromatogr.	2015	2	41-47
J. Pesek, M. Matyska	Ammonium fluoride as a mobile phase **additive** in **aqueous normal phase** chromatography	J. Chromatogr. A.	2015	1401	69-74
J.E. Young, M.T. Matyska, J.J. Pesek	LC-MS-Compatible Approaches for the Quantitation of Limonin in Citrus Juice	LCGC N. Am.	2015	33	192-199
S. Rocchi, A. Rocco, J.J. Pesek, M.T. Matyska, D. Capitani, S. Fanali	Enantiomers separation by nano-liquid chromatography: Use of a novel sub-2 µm vancomycin silica hydride stationary phase	J. Chromatogr. A.	2015	1381	149-159
C. Kulsing, Y. Nolvachai, P.J. Marriott, R.I. Boysen, M.T. Matyska, J.J. Pesek, M.T.W. Hearn	Insights into the Origin of the Separation Selectivity with Silica Hydride Adsorbents	J. Phys. Chem. B.	2015	119	3063-3069
C. Kulsing, Y. Yang, R.I. Boysen, M.T. Matyska, J.J. Pesek, M.T.W. Hearn	Role of electrostatic contributions in the separation of peptides with silica hydride stationary phases	Analytical Methods	2015	7	1578-1585
C. Kulsing, Y. Yang, R.I. Boysen, M.T. Matyska, J.J. Pesek, M.T.W. Hearn	Prediction of the zeta potentials and ionic descriptors of a silica hydride stationary phase with mobile phases of different pH and ionic strength	Anal. Chim. Acta	2015	859	79-86

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C. Kulsing, Y. Yang, C. Munera, C. Tse, M.T. Matyska, J.J. Pesek, R.I. Boysen, M.T.W. Hearn	Correlations between the zeta potentials of silica hydride-based stationary phases, **analyte** retention behaviour and their ionic interaction descriptors	Anal. Chim. Acta	2014	817	48-60
J.J. Pesek, R.I. Boysen, M.T.W. Hearn, M.T. Matyska	Hydride-based HPLC stationary phases: A rapidly evolving technology for the development of new bio-analytical methods	Analytical Methods	2014	6	4496-4503
S. Bocian, G. Rychlicki, M.T. Matyska, J.J. Pesek, B. Buszewski	Study of hydration process on silica hydride surfaces by micro-calorimetry and water adsorption	J. Colloid Interface Sci.	2014	416	161-166
E.Y. Santali, D. Edwards, O.B. Sutcliffe, S. Bailes, M.R. Euerby, D.G. Watson	A Comparison of Silica C and Silica Gel in HILIC Mode: The Effect of Stationary Phase Surface Area	Chromatographia	2014	77	873-881
J.J. Pesek, M.T. Matyska, J.E.Young	Analysis of thiopurines using **aqueous normal phase** chromatography	J. Pharm. Biomed. Anal.	2014	95	102-106
J.E. Young, M.T. Matyska, J.J. Pesek	Why development of new HPLC column technology is still alive	Chimica Oggi.	2014	32	8-12
N. Byrd	Quick, Easy and Reliable Detection of Histamine in Food Using the Agilent 6490 Triple Quadrupole LC/MS with Jet Stream Technology	Agilent Application Note	2013	N/A	1-4
S. Jenkins, S.M. Fischer, T.R. Sana	Compound Identification, Profiling and Pathway Analysis of the Yeast Metabolome in Mass Profiler Professional	Agilent Application Note	2013	N/A	1-10
A. Marcobal, P.C Kashyap, T.A. Nelson, P.A. Aronov, M.S. Donia, A. Spormann, M.A. Fischbach, J.L. Sonnenburg	A metabolomic view of how the human gut microbiota impacts the host metabolome using humanized and gnotobiotic mice	ISME J.	2013	7	1933-1943
Tong Zhang and David G. Watson	High Performance Liquid Chromatographic Approaches to Mass Spectrometry Based Metabolomics	Current Metabolomics	2013	1	3-33

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Y. Yang, R.I. Boysen, C. Kulsing, M.T. Matyska, J.J. Pesek, M.T. W. Hearn	Analysis of polar peptides using a silica hydride column and high aqueous content mobile phases	J. Sep. Sci.	2013	36	3019-3025
J.J. Pesek, MT. Matyska, A.M. Kim	Evaluation of stationary phases based on silica hydride for the analysis of drugs of abuse	J. Sep. Sci.	2013	36	2760-2766
R. Le, J.E. Young, J.J. Pesek, M.T. Matyska	Separation of 1,3-dimethylamylamine and other polar compounds in a dietary supplement formulation using **aqueous normal phase** chromatography with MS	J. Sep. Sci.	2013	36	2578-2583
Y. Yang, M.T. Matyska, R.I. Boysen, J.J. Pesek, M.T. W. Hearn	Simultaneous separation of hydrophobic and polar bases using a silica hydride stationary phase	J. Sep. Sci.	2013	36	1209-1216
H. Yeman, T. Nicholson, M.T. Matyska, J.J. Pesek, K. Albert	Simulation of the chromatographic separation process in HPLC employing suspended-state NMR spectroscopy – Comparison of interaction behavior for monomeric and hydride-modified C18 stationary phases	J. Sep. Sci.	2013	36	173-181
A. Dang, J.J. Pesek, M.T. Matyska	The use of **aqueous normal phase** chromatography as an analytical tool for food analysis: Determination of histamine as a model system	Food Chem.	2013	141	4226-4230
J.E. Young, H.N. Nguyen, M.T. Matyska, J.J. Pesek,	LC-MS-Compatible separation of polar compounds using silica hydride columns	LCGC N. Am.	2013	31	144-157
J. E. Young, M.T. Matyska, A.K. Azad, S.E. Yoc, J.J. Pesek	Separation Differences Among Phenyl Hydride, Undecanoyl Cholesterol, and Bidentate C8 Stationary Phases for Stability Indicating Methods of Tetracyclines	J. Liq. Chromatogr. & Rel Technol.	2013	36	926-942
J.J. Pesek, M.T. Matyska, R.I. Boysen, Y. Yang, M.T.W. Hearn	Aqueous normal-phase chromatography using silica-hydride-based stationary phases	Trends Anal. Chem.	2013	42	64-73
S. Jenkins, S.M. Fischer, T.R. Sana	Mass Profiler Professional and Personal Compound Database and Library Software Facilitate Compound Identification for Profiling of the Yeast Metabolome	Agilent Application Note	2012	N/A	1-12

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J.J. Pesek, M.T. Matyska	A New Approach to Bioanalysis: **Aqueous Normal Phase** Chromatography with Silica Hydride Stationary Phases	Bioanalysis	2012	4	845-853
J.J. Pesek, M.T. Matyska, A. Dang	Analysis of cycloserine and related compounds using A**queous Normal Phase C**hromatography/Mass Spectrometry	J. Pharm. Biomed. Anal.	2012	64	72-76
R. MacNeill, R. Stromeyer, B. Urbanowicz, V. Acharya, M. Moussallie, J.J. Pesek	Silica hydride-based chromatography of LC–MS response-altering compounds native to human plasma	Bioanalysis	2012	4	2877-2886
H. Yeman, T. Nicholson, V. Friebolin, L. Steinhauser, M.T. Matyska, J.J. Pesek, K. Albert	Time-dependent column performance of cholesterol-based stationary phases for HPLC by LC characterization and solid-state NMR spectroscopy	J. Sep. Sci.	2012	35	1582-1588
S. Bocian, J. Soukup, M. Matyska, J. Pesek, P. Jandera, B. Buszewski	The influence of the organic modifier in hydro-organic mobile phase on separation selectivity of steroid hormones separation using cholesterol-bonded stationary phases	J. Chromatogr. A.	2012	1245	90-97
B. Buszewski, S. Bocian, G. Rychlicki, M. Matyska, J. Pesek	Determination of accessible silanols groups on silica gel surfaces using micro calorimetric measurements	J. Chromatogr. A.	2012	1232	43-46
A.D. Panopoulos, O. Yanes, S. Ruiz, Y. Kida, D. Diep, R. Tautenhahn, A. Herrerías, E.M. Batchelder, N. Plongthongkum, M. Lutz, W.T. Berggren, K. Zhang, R.M. Evans, G. Siuzdak, J.C.I. Belmonte	The metabolome of induced pluripotent stem cells reveals metabolic changes occurring in somatic cell reprogramming	Cell Res.	2012	22	168-177
D. Ryan, K. Robards, P.D. Prenzler, M. Kendall	Recent and potential developments in the analysis of urine: A review	Analytica Chimica Acta	2011	684	17-29

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J.E. Young, M.T. Matyska, J.J. Pesek	Liquid Chromatography/Mass Spectrometry Compatible Approaches for the Quantitation of Folic Acid in Fortified Juices and Cereals using **Aqueous Normal Phase** Conditions	J. Chromatogr. A	2011	1218	2121-2126
J.J. Pesek, M.T. Matyska, P. Lee	Synthesis of a Preparative C30 Stationary Phase on a Silica Hydride Surface and its Application to Carotenoid Separation	J. Liq. Chromatogr. & Rel Technol.	2011	34	231-240
J.J. Pesek and M.T. Matyska	**Aqueous Normal Phase** Chromatography. The Bridge between Reversed-Phase and HILIC	Hydrophilic Interaction Chromatography (HILIC) and Advanced Applications, P.G. Wang, W. He, eds.	2011	N/A	26-Jan
S. Bocian, M. Matyska, J. Pesek, B. Buszewski	Study of solvation processes on cholesterol bonded phases	J. Chromatogr. A	2011	1218	441-448
R.I. Boysen, Y. Yang, J. Chowdhury, M.T. Matyska, J.J. Pesek, M.T.W. Hearn	Simultaneous separation of hydrophobic and hydrophilic peptides with a silica hydride stationary phase using **aqueous normal phase** conditions	J. Chromatogr. A	2011	1218	8021-8026
J.J. Pesek, M.T. Matyska, S.M. Fischer	Improvement of Peak Shape in **Aqueous Normal Phase** Analysis of Anionic Metabolites	J. Sep. Sci.	2011	34	3509-3516
J.J. Pesek, M.T. Matyska, M. Nshanian	Open-tubular capillary electro-chromatography of small polar molecules using etched, chemically modified capillaries	Electrophoresis	2011	32	1728-1734
J.E. Young, M.T. Matyska, J.J. Pesek	Liquid chromatography/mass spectrometry compatible approaches for the quantitation of folic acid in fortified juices and cereals using **aqueous normal phase** conditions	J. Chromatogg.A.	2011	1218	2121-2126
J.J. Pesek, M.T. Matyska, J. Duley, M. Zamzami, S.M. Fischer	**Aqueous Normal Phase** (ANP) Retention of Nucleotides on Silica Hydride-Based Columns. Method Development Strategies for Analytes Relevant in Clinical Analysis	J. Sep. Sci.	2010	33	930-938
J.J, Pesek, M.T. Matyska, K. Prajapati	Synthesis and Evaluation of Silica Hydride-Based Fluorinated Stationary Phases	J. Sep. Sci.	2010	33	2908-2916

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S. Bocian, M. Matyska, J. Pesek, B. Buszewski	Study of the Retention and Selectivity of Cholesterol Bonded Phases with Different Linkage Spacers	J. Sep. Sci.	2010	1217	6891-6897
J.J. Pesek, M.T. Matyska	Recent Developments in Type C Stationary Phases: Exploiting the Versatility of Silica Hydride Materials	Chromatography Today	2010	3	24-26
J.J. Pesek, M.T. Matyska	Silica Hydride: Chemistry and Applications	Advances in Chromatography, Grushka, E., Grinberg, N., eds	2010	N/A	255-288
J.J. Pesek, M.T. Matyska, J. Duley, M. Zamzami, S.M. Fischer	**Aqueous normal phase** (ANP) retention of nucleotides on silica hydride-based columns. Method development strategies for analytes relevant in clinical analysis	J. Sep. Sci.	2010	33	930-938
D.L. Callahan, D. De Souza, A. Bacic, U. Roessner	Profiling of polar metabolites in biological extracts using diamond hydride-based **aqueous normal phase** chromatography.	J. Sep. Sci.	2009	32	2273-2280
J.J. Pesek, M.T. Matyska, M.T.W. Hearn, R.I. Boysen	**Aqueous Normal Phase** retention of nucleotides on Silica Hydride columns	J. Chromatogr. A	2009	1216	1140-1146
V. Freibolin, M.P. Bayer, M.T. Matyska, J.J. Pesek, K. Albert	1H HR/MAS NMR in the suspended state: Molecular recognition processes in liquid chromatography between steroids and a silica hydride-based cholesterol phase	J. Sep. Sci.	2009	32	1722-1728
J.J. Pesek, M.T. Matyska, J.A. Loo, S.M. Fischer, T.R. Sana	Analysis of Hydrophilic Metabolites in Physiological Fluids by HPLC-MS using a Silica Hydride-Based Stationary Phase	J. Sep. Sci.	2009	32	2200-2208
J.J..Pesek, M.T. Matyska	Our Favorite Materials: Silica Hydride Stationary Phases	J. Sep. Sci.	2009	32	3999-4011
M.T. Matyska, J.J. Pesek, G. Shetty	Type C Amino Columns for Affinity and **Aqueous Normal Phase** Chromatography: Synthesis and HPLC Evaluation	J. Liq. Chromatogr. & Rel Technol.	2009	33	1-26
J.J. Pesek, M.T. Matyska, A. Sharma	Use of Hydride-Based Separation Materials for Organic Normal Phase Chromatography	J. Liq. Chromatogr. & Rel Technol.	2008	31	134-147

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J.J. Pesek, M.T. Matyska, D. Sukul	Capillary Liquid Chromatography and Capillary Electrochromatography using Silica Hydride Stationary Phases	J. Chromatogr. A	2008	1191	136-140
J.J. Pesek, M.T. Matyska, S.M. Fischer, T.R. Sana	Analysis of hydrophilic metabolites by high-performance liquid chromatography – mass spectrometry using a silica hydride-based stationary phase	J. Chromatogr. A	2008	1204	48-55
J.J. Pesek, M.T. Matyska, S. Larrabee	HPLC Retention Behavior on Hydride-Based Stationary Phases	J. Sep. Sci.	2007	30	637-647
J.J. Pesek, M.T. Matyska, M.T.W. Hearn, R.I. Boysen	Temperature effects on solute retention for hydride-based stationary phases	J. Sep. Sci.	2007	30	1150-1157
J.J. Pesek, M.T. Matyska	A Comparison of Two Separation Modes: HILIC and **Aqueous Normal Phase** Chromatography	LCGC	2007	25	480-490
J.J. Pesek, M.T. Matyska	How to Retain Polar and Nonpolar Compounds on the same HPLC Column with an Isocratic Mobile Phase	LCGC	2006	24	296-303
J.J. Pesek, M.T. Matyska	Silica Hydride Surfaces: Versatile Separation Media for Chromatographic and Electrophoretic Analyses	J. Liq. Chromatogr. & Rel Technol.	2006	29	1105-1124
J.J. Pesek, M.T. Matyska	One Stationary Phase, Three Modes of Separation: Reversed Phase and Normal Phase Separations on the Same Column	International Labmate	2006	31	2-3
J.J. Pesek, M.T. Matyska	Hydride-based Silica Stationary Phases for HPLC: Fundamental Properties and Applications	J. Sep. Sci.	2005	28	1845-1854
.J. Pesek, M. Matyska, L. Dalal	Evaluation of Hydride-Based Stationary Phases for LC/MS	Chromatographia	2005	62	595-601
J.J. Pesek, M.T. Matyska	Hydride-Based Separation Materials for High Performance Liquid Chromatography and Open Tubular Capillary Electrochromatography	Chinese J. Chromatogr.	2005	23	599-603

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.J. Pesek, M.T. Matyska, G.B. Dawson, A. Wilsdorf, P. Marc, M. Padki	The Cholesterol Bonded Phase as a Separation Medium in High Performance Liquid Chromatography. Evaluation of Properties and Applications	J. Chromatogr A	2003	986	253-262
M.T. Matyska, J.J. Pesek, S. Tong, J.E. Sandoval	Adamantyl-Modified Silica va Olefin Hydrosilation on a Hydride Intermediate	J. Liq. Chromatogr. & Rel Technol.	2003	26	1169-1195
L. Brown, B. Ciccone, J.J. Pesek, M.T. Matyska	An Evolution in Separation Media for HPLC	American Lab.	2003	24	23-29
M.T. Matyska, J.J. Pesek, V. Grandhi	Charge Transfer-Like Stationary Phase for HPLC Prepared via Hydrosilation on Silica Hydride	J. Sep. Sci.	2002	25	741-748
J.J. Pesek, M.T. Matyska, S. James	Variable-Temperature Solid-State NMR Studies of Bonded Liquid Crystal Stationary Phases for HPLC	J. Liq. Chromatogr. & Rel Technol.	2002	25	2749-2765
J.J. Pesek, M.T. Matyska	Developments in Surface Chemistry for the Improvement of Chromatographic Methods	A Century of Separation Science, H. Issaq, ed.	2001	N/A	349-364
K. Jinno, H. Sawada, A.P. Catabay, H. Watanabe, N.B.H. Sabli, J.J. Pesek, M.T. Matyska	Comparison of the Separation Behavior of Benzodiazepines in Packed Capillary Electrochromatography and Open-Tubular Capillary Electrochromatography	J. Chromatogr. A	2000	887	479-487
A.P. Catabay, J.J. Pesek, M.T. Matyska, K. Jinno	Pharmaceutical Applications using Cholesterol-10-undecenoate Bonded Phase in Micro column Liquid Chromatography	J. Liq. Chromatogr. Relat. Technol.	1999	22	953-967
J.J. Pesek, M.T. Matyska	Surface Modifications to Support Materials for HPLC, HPCE and Electrochromatography	Fundamental and Applied Aspects of Chemically Modified Surfaces, J. Blitz and C.B. Little, eds.	1999	N/A	97-110
A. Catabay, C. Okumura, K. Jinno, J.J. Pesek, E. Williamsen, J.C. Fetzer, W.R. Biggs	Retention Behavior of Large Polycyclic Aromatic Hydrocarbons on Cholesteryl 10-Undecenoate Bonded Phase in Microcolumn Liquid Chromatography	Chromatographia	1998	47	13-20

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A. Catabay, M. Taniguichi, K. Jinno, J.J. Pesek, E. Williamsen	Separation of 1,4-Benzodiazepines and Analogs Using Cholesteryl 10-Undecenoate Bonded Phase in Micro-column Liquid Chromatography	J. Chromatogr. Sci.	1998	36	111-118
A. Catabay, Y. Saito, C. Okumura, K. Jinno, J.J. Pesek, E. Williamsen	Retention Behavior of Small Polycyclic Aromatic Hydrocarbons with Cholesteryl-10-Undecenoate Bonded Phase in Micro-column Liquid Chromatography	J. Microcol Sep.	1997	9	81-85
J.J. Pesek, M.T. Matyska, J.E. Sandoval, E. Williamsen	Synthesis, Characterization and Applications of Hydride-Based Surface Materials for HPLC, HPCE and Electrochromatography	J. Liq. Chromatogr.	1996	19	2843-2865
J.J. Pesek, M.T. Matyska, H. Hemphala	HPLC Evaluation of Mono-ol, Butylphenyl, and Perfluorinated Columns Prepared Via Olefin Hydrosilation on a Silica Hydride Intermediate	Chromatographia	1996	43	10-16
J.J. Pesek, M.T. Matyska, H. Hemphala, P. Christensen	High Performance Liquid Chromatographic Characterization of Diol Bonded Phases Synthesized via a Hydride Intermediate	J. Liq. Chromatogr.	1995	18	2507-2525
M.T. Matyska, J.J. Pesek, A.M. Siouffi	Evaluation of Mono-ol and Diol Columns Prepared via Olefin Hydrosilation on a Silica Hydride Intermediate for the Separation of Tetracylines	Chem. Anal.	1995	40	517-530
J.J. Pesek, M.T. Matyska, E.J. Williamsen, R. Tam	Variable-Temperature Solid-State NMR Studies of Bonded Liquid Crystal Stationary Phases for HPLC	Chromatographia	1995	41	301-310
M.C. Montes, C. van Amen, J.J. Pesek, J.E. Sandoval	Chromatographic Evaluation of Alkyl-Bonded Phases Prepared Through Olefin Hydrosilation on a Hydride-Silica Intermediate	J. Chromatogr.	1994	688	31-45

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