

Pavel Karásek

List of Publications by Year in descending order

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56
papers

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#	ARTICLE	IF	CITATIONS
1	Sensitive identification of milk protein allergens using on-line combination of transient isotachopheresis/micellar electrokinetic chromatography and capillary isoelectric focusing in fused silica capillary with roughened part. <i>Food Chemistry</i> , 2022, 377, 131986.	4.2	9
2	Characterization and applications of a trioctyl(3/4-vinylbenzyl)phosphonium stationary phase for use in capillary liquid chromatography. <i>Journal of Chromatography A</i> , 2022, 1666, 462866.	1.8	1
3	Fabrication of monolithic capillary columns with inner diameter 50µm employing a mixture of pentaerythritol tetraacrylate and polyhedral oligomeric silsesquioxane-methacrylate as crosslinkers. <i>Journal of Separation Science</i> , 2022, 45, 3256-3263.	1.3	4
4	Classification of clinical <i>Cutibacterium acnes</i> isolates at phylotype level by capillary electrophoretic methods in roughened fused silica capillary. <i>Talanta</i> , 2022, 247, 123565.	2.9	1
5	Bacteriophage replication on permissive host cells in fused silica capillary with nanostructured part as potential of electrophoretic methods for developing phage applications. <i>Talanta</i> , 2021, 224, 121800.	2.9	2
6	Pressurized Water Extraction as a Tool for Rapid and Efficient Isolation of Proteins from Almonds. <i>Food Analytical Methods</i> , 2021, 14, 1953-1963.	1.3	1
7	Online Concentration of Bacteria from Tens of Microliter Sample Volumes in Roughened Fused Silica Capillary with Subsequent Analysis by Capillary Electrophoresis and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>ACS Infectious Diseases</i> , 2020, 6, 355-365.	1.8	16
8	Rapid Isolation, Propagation, and Online Analysis of a Small Number of Therapeutic Staphylococcal Bacteriophages from a Complex Matrix. <i>ACS Infectious Diseases</i> , 2020, 6, 2745-2755.	1.8	8
9	Identification of <i>Aspergillus</i> Conidia in Bronchoalveolar Lavage Using Offline Combination of Capillary Electrophoresis in Supercritical Water-Treated Fused Silica Capillary and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 7588-7595.	3.2	4
10	Nano-etched fused-silica capillary used for on-line preconcentration and electrophoretic separation of bacteriophages from large blood sample volumes with off-line MALDI-TOF mass spectrometry identification. <i>Mikrochimica Acta</i> , 2020, 187, 177.	2.5	13
11	Supercritical water-treated fused silica capillaries in analytical separations: Status review. <i>Journal of Chromatography A</i> , 2018, 1539, 1-11.	1.8	11
12	Pre-concentration and separation of bacteria by volume coupling electrophoresis on supercritical water-etched fused silica capillary with two segments of different internal diameters and inner surface roughnesses. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 167-175.	1.9	12
13	Fused silica capillaries with two segments of different internal diameters and inner surface roughnesses prepared by etching with supercritical water and used for volume coupling electrophoresis. <i>Electrophoresis</i> , 2017, 38, 1260-1267.	1.3	17
14	Capillary electrophoresis in a fused-silica capillary with surface roughness gradient. <i>Journal of Separation Science</i> , 2016, 39, 3827-3834.	1.3	9
15	Determination of methicillin-resistant and methicillin-susceptible <i>Staphylococcus aureus</i> bacteria in blood by capillary zone electrophoresis. <i>Analytica Chimica Acta</i> , 2015, 868, 67-72.	2.6	28
16	Partitioning of organics between ionic liquids and supercritical CO ₂ : Limiting K-factors in [bmim][N(CN) ₂]–scCO ₂ system and generalized correlation with cation- and anion-specific LSERs. <i>Journal of Supercritical Fluids</i> , 2015, 102, 133-139.	1.6	2
17	Etching of glass microchips with supercritical water. <i>Lab on A Chip</i> , 2015, 15, 311-318.	3.1	13
18	Direct and Indirect Applications of Sub- and Supercritical Water in Food-Related Analysis. <i>Food Engineering Series</i> , 2015, , 269-302.	0.3	0

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19	Separation of Methicillin-Resistant from Methicillin-Susceptible <i>Staphylococcus aureus</i> by Electrophoretic Methods in Fused Silica Capillaries Etched with Supercritical Water. <i>Analytical Chemistry</i> , 2014, 86, 9701-9708.	3.2	32
20	Solubilities of Calix[6]arene and 4- <i>tert</i> -Butylcalix[4]arene in Pressurized Hot Water. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2433-2436.	1.0	3
21	Capillary isoelectric focusing of probiotic bacteria from cow's milk in tapered fused silica capillary with off-line matrix-assisted laser desorption/ionization time-of-flight mass spectrometry identification. <i>Analytica Chimica Acta</i> , 2013, 788, 193-199.	2.6	27
22	Solubilities of selected organic electronic materials in pressurized hot water and estimations of aqueous solubilities at 298.15K. <i>Chemosphere</i> , 2013, 90, 2035-2040.	4.2	7
23	Solubility of fused silica in sub- and supercritical water: Estimation from a thermodynamic model. <i>Journal of Supercritical Fluids</i> , 2013, 83, 72-77.	1.6	13
24	Isoelectric Focusing in Continuously Tapered Fused Silica Capillary Prepared by Etching with Supercritical Water. <i>Analytical Chemistry</i> , 2013, 85, 4296-4300.	3.2	12
25	Combination of Capillary Isoelectric Focusing in a Tapered Capillary with MALDI-TOF MS for Rapid and Reliable Identification of <i>Dickeya</i> Species from Plant Samples. <i>Analytical Chemistry</i> , 2013, 85, 6806-6812.	3.2	20
26	Near- and Supercritical Water as a Diameter Manipulation and Surface Roughening Agent in Fused Silica Capillaries. <i>Analytical Chemistry</i> , 2013, 85, 327-333.	3.2	20
27	Solute Partitioning Between 1- <i>n</i> -Butyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid and Supercritical CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 1064-1071.	1.0	8
28	Generalized linear solvation energy model applied to solute partition coefficients in ionic liquid-supercritical carbon dioxide systems. <i>Journal of Chromatography A</i> , 2012, 1250, 54-62.	1.8	6
29	Isolation of Quaternary Benzo[<i>c</i>]phenanthridine Alkaloids from <i>Macleaya microcarpa</i> () Tj ETQq1 1 0.784314 rgBT /Overdo Extraction. <i>Phytochemical Analysis</i> , 2012, 23, 477-482.	1.2	11
30	Limiting Partition Coefficients of Sulfur-Containing Aromatics in a Biphasic [bmim][MeSO ₄]-Supercritical CO ₂ System. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 527-531.	1.0	8
31	Antioxidant activity of grape skin aqueous extracts from pressurized hot water extraction combined with electron paramagnetic resonance spectroscopy. <i>Talanta</i> , 2011, 85, 2233-2240.	2.9	29
32	Silica-based monolithic capillary columns—Effect of preparation temperature on separation efficiency. <i>Journal of Chromatography A</i> , 2010, 1217, 5737-5740.	1.8	15
33	Offline combination of pressurized fluid extraction and electron paramagnetic resonance spectroscopy for antioxidant activity of grape skin extracts assessment. <i>Journal of Chromatography A</i> , 2010, 1217, 7990-8000.	1.8	21
34	Solubility of Solid Ferrocene in Pressurized Hot Water. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2866-2869.	1.0	9
35	Group Contribution Correlation for Aqueous Solubilities of Solid Aromatics, Heterocycles, and Diamondoids over a 200 K Temperature Interval. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 3485-3491.	1.8	3
36	Analysis of polyphenols in brewing raw materials by PSE (Pressurized Solvent Extraction) - and by HPLC method with CoulArray detection.. <i>Kvasn½ PrÁmysl</i> , 2010, 56, 18-23.	0.1	3

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37	Extraction of Bitter Acids from Hops and Hop Products Using Pressurized Solvent Extraction (PSE). <i>Journal of the Institute of Brewing</i> , 2009, 115, 220-225.	0.8	16
38	Distribution of Organic Solutes in Biphasic 1- <i>n</i> -Butyl-3-methylimidazolium Methyl Sulfate ⁺ Supercritical CO ₂ System. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9520-9526.	1.2	17
39	Solubilities of Oxygenated Aromatic Solids in Pressurized Hot Water. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 1457-1461.	1.0	16
40	Solubilities of Adamantane and Diamantane in Pressurized Hot Water. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 816-819.	1.0	28
41	Simple First-Order Group Contribution Scheme for Solubilities of Solid Polycyclic Aromatic Hydrocarbons and Solid Polycyclic Aromatic Heterocycles in Pressurized Hot Water. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 620-626.	1.8	10
42	Solubilities of Triptycene, 9-Phenylanthracene, 9,10-Dimethylanthracene, and 2-Methylanthracene in Pressurized Hot Water at Temperatures from 313 K to the Melting Point. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 160-164.	1.0	16
43	Limiting Partition Coefficients of Solutes in Biphasic Trihexyltetradecylphosphonium Chloride Ionic Liquid ⁺ Supercritical CO ₂ System: Measurement and LSER-Based Correlation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7620-7625.	1.2	17
44	Aqueous solubility data for pressurized hot water extraction for solid heterocyclic analogs of anthracene, phenanthrene and fluorene. <i>Journal of Chromatography A</i> , 2007, 1140, 195-204.	1.8	36
45	Comparison of two different solvents employed for pressurised fluid extraction of stevioside from <i>Stevia rebaudiana</i> : methanol versus water. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1847-1857.	1.9	85
46	Distribution of sulfur-containing aromatics between [hmim][Tf ₂ N] and supercritical CO ₂ : a case study for deep desulfurization of oil refinery streams by extraction with ionic liquids. <i>Green Chemistry</i> , 2006, 8, 70-77.	4.6	66
47	Solubility of Solid Polycyclic Aromatic Hydrocarbons in Pressurized Hot Water at Temperatures from 313 K to the Melting Point. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 616-622.	1.0	45
48	Solubility of Solid Polycyclic Aromatic Hydrocarbons in Pressurized Hot Water: Correlation with Pure Component Properties. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4454-4460.	1.8	40
49	Supercritical Fluid Extraction - New progressive method in brewing analytics. Part I. - Theoretical principles of supercritical fluid extraction and examples of its use.. <i>Kvasn^{1/2} Pr^{1/2}mysl</i> , 2006, 52, 106-110.	0.1	1
50	Supercritical fluid extraction - new progressive method in brewing analytics. Part II. - The options of utilizing supercritical fluid extraction to analyze sensory active substances in beer.. <i>Kvasn^{1/2} Pr^{1/2}mysl</i> , 2006, 52, 142-147.	0.1	1
51	Development of packed capillary columns using carbon dioxide slurries. <i>Journal of Separation Science</i> , 2003, 26, 525-530.	1.3	26
52	Direct continuous supercritical fluid extraction as a novel method of wine analysis. <i>Journal of Chromatography A</i> , 2003, 1002, 13-23.	1.8	34
53	Partition Coefficients of Environmentally Important Phenols in a Supercritical Carbon Dioxide ⁺ Water System from Cocurrent Extraction without Analysis of the Compressible Phase. <i>Analytical Chemistry</i> , 2002, 74, 4294-4299.	3.2	17
54	Pressurised liquid extraction of ketones of polycyclic aromatic hydrocarbons from soil. <i>Journal of Chromatography A</i> , 2000, 893, 201-206.	1.8	12

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55	Analyte Collection in Off-Line Supercritical Fluid Extraction. Analytical Chemistry, 1999, 71, 905-909.	3.2	10
56	Off-Line SFE of Bis(2-ethylhexyl) Phthalate from PVC Materials. Collection of Czechoslovak Chemical Communications, 1995, 60, 1109-1114.	1.0	3