

Hana Sklenářová

List of Publications by Year in descending order

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70
papers

1,282
citations

304368

22
h-index

395343

33
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70
all docs

70
docs citations

70
times ranked

1322
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated on-line dispersive liquid-liquid microextraction based on a sequential injection system. <i>Microchemical Journal</i> , 2012, 100, 77-82.	2.3	91
2	Sequential injection chromatographic determination of paracetamol, caffeine, and acetylsalicylic acid in pharmaceutical tablets. <i>Journal of Separation Science</i> , 2004, 27, 529-536.	1.3	76
3	Examination of the Functional Activity of P-glycoprotein in the Rat Placental Barrier Using Rhodamine 123. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 305, 1239-1250.	1.3	54
4	Development and validation of a rapid HPLC method for the determination of ascorbic acid, phenylephrine, paracetamol and caffeine using a monolithic column. <i>Analytical Methods</i> , 2012, 4, 1588.	1.3	54
5	Automation of simultaneous release tests of two substances by sequential injection chromatography coupled with Franz cell. <i>Talanta</i> , 2006, 69, 730-735.	2.9	53
6	Sequential injection chromatographic determination of ambroxol hydrochloride and doxycycline in pharmaceutical preparations. <i>Talanta</i> , 2005, 68, 214-218.	2.9	52
7	Automated in-syringe single-drop head-space micro-extraction applied to the determination of ethanol in wine samples. <i>Analytica Chimica Acta</i> , 2014, 828, 53-60.	2.6	46
8	Direct-immersion single-drop microextraction and in-drop stirring microextraction for the determination of nanomolar concentrations of lead using automated Lab-In-Syringe technique. <i>Talanta</i> , 2018, 184, 162-172.	2.9	39
9	Lab-In-Syringe for automated double-stage sample preparation by coupling salting out liquid-liquid extraction with online solid-phase extraction and liquid chromatographic separation for sulfonamide antibiotics from urine. <i>Talanta</i> , 2021, 221, 121427.	2.9	37
10	A novel approach to Lab-In-Syringe Head-Space Single-Drop Microextraction and on-drop sensing of ammonia. <i>Analytica Chimica Acta</i> , 2016, 934, 132-144.	2.6	36
11	Automated simultaneous monitoring of nitrate and nitrite in surface water by sequential injection analysis. <i>Water Research</i> , 2002, 36, 2777-2783.	5.3	35
12	A flow-based platform hyphenated to on-line liquid chromatography for automatic leaching tests of chemical additives from microplastics into seawater. <i>Journal of Chromatography A</i> , 2019, 1602, 160-167.	1.8	35
13	Enhanced capabilities of separation in Sequential Injection Chromatography - Fused-core particle column and its comparison with narrow-bore monolithic column. <i>Talanta</i> , 2011, 85, 1129-1134.	2.9	30
14	Fully Automatic In-Syringe Magnetic Stirring-Assisted Dispersive Liquid-Liquid Microextraction Hyphenated to High-Temperature Torch Integrated Sample Introduction System-Inductively Coupled Plasma Spectrometer with Direct Injection of the Organic Phase. <i>Analytical Chemistry</i> , 2017, 89, 3787-3794.	3.2	30
15	Retention and selectivity of basic drugs on solid-phase extraction sorbents: Application to direct determination of β -blockers in urine. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4207-4215.	1.9	29
16	Determination of salbutamol using on-line solid-phase extraction and sequential injection analysis. Comparison of chemiluminescence and fluorescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 448-454.	1.9	26
17	Development and validation of HPLC method for determination of clotrimazole and its two degradation products in spray formulation. <i>Talanta</i> , 2007, 73, 483-489.	2.9	26
18	An air-assisted liquid-liquid extraction using a dual-valve sequential injection manifold (DV-SIA): Determination of copper. <i>Analytical Methods</i> , 2010, 2, 1134.	1.3	25

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19	Two-column Sequential Injection Chromatography—New approach for fast and effective analysis and its comparison with gradient elution chromatography. <i>Analytica Chimica Acta</i> , 2010, 668, 61-66.	2.6	24
20	Simple automated generation of gradient elution conditions in sequential injection chromatography using monolithic column. <i>Talanta</i> , 2011, 84, 1273-1277.	2.9	23
21	Application of DV-SIA manifold for determination of thiocyanate ions in human saliva samples. <i>Talanta</i> , 2012, 96, 107-112.	2.9	23
22	Highly sensitive sequential injection determination of p-aminophenol in paracetamol formulations with 18-molybdodiphosphate heteropoly anion based on elimination of Schlieren effect. <i>Talanta</i> , 2012, 96, 230-235.	2.9	23
23	Fully automated drug liberation apparatus for semisolid preparations based on sequential injection analysis. <i>Analytica Chimica Acta</i> , 2003, 499, 9-16.	2.6	22
24	Online coupling of fully automatic in-syringe dispersive liquid-liquid microextraction with oxidative back-extraction to inductively coupled plasma spectrometry for sample clean-up in elemental analysis: A proof of concept. <i>Talanta</i> , 2017, 173, 79-87.	2.9	22
25	A novel dual-valve sequential injection manifold (DV-SIA) for automated liquid-liquid extraction. Application for the determination of picric acid. <i>Analytica Chimica Acta</i> , 2010, 666, 55-61.	2.6	21
26	Determination of Ascorbic Acid with Wells-Dawson Type Molybdophosphate in Sequential Injection System. <i>Analytical Letters</i> , 2011, 44, 514-527.	1.0	19
27	High-resolution monolithic columns—a new tool for effective and quick separation. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2255-2263.	1.9	17
28	On-line coupling of Micro-Extraction by Packed Sorbent with Sequential Injection Chromatography system for direct extraction and determination of betaxolol in human urine. <i>Talanta</i> , 2015, 143, 132-137.	2.9	17
29	On-line automated evaluation of lipid nanoparticles transdermal permeation using Franz diffusion cell and low-pressure chromatography. <i>Talanta</i> , 2016, 146, 369-374.	2.9	17
30	On-line coupling of sequential injection extraction with restricted-access materials for sample clean-up and analysis of drugs in biological matrix. <i>Analyst</i> , 2003, 128, 351-356.	1.7	15
31	Sequential injection system for simultaneous determination of chloride and iodide by a Gran's plot method. <i>Analytica Chimica Acta</i> , 2004, 505, 161-166.	2.6	15
32	Automated system for release studies of salicylic acid based on a SIA method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 37, 893-898.	1.4	15
33	11-Molybdobismuthophosphate—A new reagent for the determination of ascorbic acid in batch and sequential injection systems. <i>Talanta</i> , 2010, 80, 1838-1845.	2.9	15
34	Sequential Injection Chromatography with post-column reaction/derivatization for the determination of transition metal cations in natural water samples. <i>Talanta</i> , 2015, 136, 75-83.	2.9	15
35	Fully automated analytical procedure for propofol determination by sequential injection technique with spectrophotometric and fluorimetric detections. <i>Talanta</i> , 2014, 118, 104-110.	2.9	13
36	Automated continuous-flow in-syringe dispersive liquid-liquid microextraction of mono-nitrophenols from large sample volumes using a novel approach to multivariate spectral analysis. <i>Talanta</i> , 2019, 202, 11-20.	2.9	12

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37	Application of monolithic columns in pharmaceutical analysis. Determination of indomethacin and its degradation products. <i>Journal of Separation Science</i> , 2009, 32, 2786-2792.	1.3	11
38	Application of a fully integrated photodegradation-detection flow-batch analysis system with an on-line preconcentration step for the determination of metsulfuron methyl in water samples. <i>Talanta</i> , 2014, 129, 233-240.	2.9	11
39	The application of ultrasound for the improvement of analytical procedures: Determination of boron. <i>Analytical Methods</i> , 2010, 2, 1275.	1.3	10
40	A Novel Non-Extractive Sequential Injection Procedure for Determination of Cadmium. <i>Analytical Letters</i> , 2011, 44, 431-445.	1.0	10
41	Content of major phenolic compounds in apples: Benefits of ultra-low oxygen conditions in long-term storage. <i>Journal of Food Composition and Analysis</i> , 2020, 92, 103587.	1.9	10
42	Automated sequential injection fluorimetric set-up for multiple release testing of topical formulation. <i>Analytica Chimica Acta</i> , 2006, 573-574, 366-370.	2.6	9
43	A non-extractive sequential injection method for determination of molybdenum. <i>Talanta</i> , 2012, 96, 185-189.	2.9	9
44	Renewable sorbent material for solid phase extraction with direct coupling of sequential injection analysis-bead injection to liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5719-5728.	1.9	8
45	Fully automated method based on on-line molecularly imprinted polymer solid-phase extraction for determination of lovastatin in dietary supplements containing red yeast rice. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1219-1228.	1.9	8
46	Automatic screening of antioxidants based on the evaluation of kinetics of suppression of chemiluminescence in a luminol-hydrogen peroxide system using a sequential injection analysis setup with a flow-batch detection cell. <i>Analytical Methods</i> , 2019, 11, 2531-2536.	1.3	8
47	Separation of Vitamins Retinol Acetate, Ergocalciferol, or Cholecalciferol and Tocopherol Acetate Using Sequential Injection Chromatography. <i>Analytical Letters</i> , 2011, 44, 446-456.	1.0	7
48	An integrated on-line method for the preconcentration and simultaneous determination of metsulfuron methyl and chlorsulfuron using oxidized carbon nanotubes and second order fluorescent data. <i>Microchemical Journal</i> , 2016, 129, 90-97.	2.3	7
49	Quantum dots as chemiluminescence enhancers tested by sequential injection technique: Comparison of flow and flow-batch conditions. <i>Journal of Luminescence</i> , 2017, 184, 235-241.	1.5	7
50	Determination of bopindolol using the flow injection technique coupled with solid phase extraction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 33, 1149-1153.	1.4	6
51	Determination of rhodamine 123 by sequential injection technique for pharmacokinetic studies in the rat placenta. <i>Talanta</i> , 2002, 58, 1145-1149.	2.9	5
52	Sequential injection determination of orthophosphate as ion associate of 12-molybdophosphate with Astra Phloxine. <i>Talanta</i> , 2011, 84, 1355-1360.	2.9	5
53	A study of the effect of organic solvents on the fluorescence signal in a sequential injection analysis system. <i>Analytical Methods</i> , 2014, 6, 9392-9396.	1.3	5
54	Fully automatic flow-based device for monitoring of drug permeation across a cell monolayer. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 971-981.	1.9	5

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55	Determination of major phenolic compounds in apples: Part I – Optimization of high-performance liquid chromatography separation with diode array detection. <i>Journal of Separation Science</i> , 2018, 41, 3042-3050.	1.3	5
56	Benefits and Pitfalls of HPLC Coupled to Diode-Array, Charged Aerosol, and Coulometric Detections: Effect of Detection on Screening of Bioactive Compounds in Apples. <i>Molecules</i> , 2021, 26, 3246.	1.7	5
57	Flow-batch analysis of clenbuterol based on analyte extraction on molecularly imprinted polymers coupled to an in-system chromogenic reaction. Application to human urine and milk substitute samples. <i>Talanta</i> , 2018, 178, 934-942.	2.9	4
58	SIMPLE LABORATORY-MADE AUTOMATED SEQUENTIAL INJECTION ANALYSIS (SIA) DEVICE. II. SIA OPERATIONAL SOFTWARE BASED ON LABVIEW® PROGRAMMING LANGUAGE. <i>Instrumentation Science and Technology</i> , 2002, 30, 353-360.	0.9	3
59	An automated method for monitoring aluminum in water samples based on a sequential injection platform. <i>Analytical Methods</i> , 2015, 7, 5530-5537.	1.3	3
60	Automated Sequential Injection Method for Determination of Caffeine in Coffee Drinks. <i>Food Analytical Methods</i> , 2018, 11, 111-118.	1.3	3
61	UHPLC coupled with charged aerosol detector for rapid separation of steviol glycosides in commercial sweeteners and extract of <i>Stevia rebaudiana</i> . <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 207, 114398.	1.4	3
62	A simple method to quantify azo dyes in spices based on flow injection chromatography combined with chemometric tools. <i>Journal of Food Science and Technology</i> , 2022, 59, 2764-2775.	1.4	3
63	SIMPLE LABORATORY-MADE AUTOMATED SEQUENTIAL INJECTION ANALYSIS (SIA) DEVICE. I. DESIGN AND TESTING OF THE HARDWARE COMPONENT. <i>Instrumentation Science and Technology</i> , 2002, 30, 13-20.	0.9	2
64	Sequential Injection Analysis for Automation and Evaluation of Drug Liberation Profiles: Clotrimazole Liberation Monitoring. <i>Molecules</i> , 2021, 26, 5538.	1.7	2
65	Effect of storage conditions on content of pesticide residues in sweet cherries. <i>Food Chemistry: X</i> , 2022, 13, 100185.	1.8	2
66	Chromatographic determination of active compounds in topical formulations. <i>Analytical Methods</i> , 2012, 4, 1525.	1.3	1
67	Universal efavirenz determination in transport study, rat placenta perfusion and placenta lysate by HPLC-UV. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 137, 70-77.	1.4	1
68	3D printed permeation module to monitor interaction of cell membrane transporters with exogenic compounds in real-time. <i>Analytica Chimica Acta</i> , 2021, 1153, 338296.	2.6	1
69	Real-time monitoring of Metridia luciferase release from cells upon interaction with model toxic substances by a fully automatic flow setup – A proof of concept. <i>Talanta</i> , 2022, 245, 123465.	2.9	1
70	SILICA DIOXIDE NANOFIBER BASED DRUG DELIVERY SYSTEM WITH SUSTAINED RELEASE. , 2020, , .		0