Jan Petr

List of Publications by Year
in descending order

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58	1,028	430754	434063
papers	citations	18 h-index	31 g-index

58	58	58	1522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Luminescent Surface Quaternized Carbon Dots. Chemistry of Materials, 2012, 24, 6-8.	3.2	176
2	Determination and identification of synthetic cannabinoids and their metabolites in different matrices by modern analytical techniques â€“ a review. Analytica Chimica Acta, 2015, 874, 11-25.	2.6	74
3	Dynamic Coating Agents in CE. Chromatographia, 2008, 67, 5-12.	0.7	60
4	Analysis of microorganisms by capillary electrophoresis. TrAC - Trends in Analytical Chemistry, 2012, 31, 9-22.	5.8	50
5	Synthesis and properties of coreâ€“shell fluorescent hybrids with distinct morphologies based on carbon dots. Journal of Materials Chemistry, 2012, 22, 16219.	6.7	40
6	On-line preconcentration of weak electrolytes by electrokinetic accumulation in CE: Experiment and simulation. Electrophoresis, 2007, 28, 1540-1547.	1.3	34
7	Combination of large volume sample stacking and dynamic pH junction for on-line preconcentration of weak electrolytes by capillary electrophoresis in comparison with isotachophoretic techniques. Journal of Chromatography A, 2007, 1155, 193-198.	1.8	31
8	Chiral separation of tamsulosin by capillary electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 2005, 39, 691-696.	1.4	30
9	Study on the use of boromycin as a chiral selector in capillary electrophoresis. Journal of Chromatography A, 2012, 1237, 128-132.	1.8	30
10	Determination of mushroom toxins ibotenic acid, muscimol and muscarine by capillary electrophoresis coupled with electrospray tandem mass spectrometry. Talanta, 2014, 125, 242-247.	2.9	29
11	Electrokinetic partial filling technique as a powerful tool for enantiomeric separation ofDL-lactic acid by CE with contactless conductivity detection. Electrophoresis, 2007, 28, 1815-1822.	1.3	26
12	Using of S-(â^')-2-hydroxymethyl-1,1-dimethylpyrrolidinium tetrafluoroborate as additive to the background electrolyte in capillary electrophoresis. Journal of Chromatography A, 2006, 1103, 337-343.	1.8	25
13	Determination of Some Phenolic Acids in Majorana hortensis by Capillary Electrophoresis with Online Electrokinetic Preconcentration. Journal of Agricultural and Food Chemistry, 2008, 56, 3940-3944.	2.4	23
14	A chemometric approach for optimizing protein covalent immobilization on magnetic coreâ€“shell nanoparticles in view of an alternative immunoassay. Talanta, 2010, 81, 1703-1710.	2.9	23
15	MEKC Determination of Nilutamide in Human Serum Using Sweeping in High Salt Sample Matrix. Chromatographia, 2011, 74, 151-155.	0.7	22
16	Onâ€line preconcentration of perfluorooctanoic acid and perfluorooctanesulfonic acid by nonaqueous capillary electrophoresis. Electrophoresis, 2012, 33, 2159-2166.	1.3	22
17	Determination of some heavy metal cations in molten snow by transient isotachophoresis/capillary zone electrophoresis. Journal of Separation Science, 2006, 29, 2256-2260.	1.3	20
18	Sterility testing by CE: A comparison of online preconcentration approaches in capillaries with greater internal diameters. Electrophoresis, 2009, 30, 3870-3876.	1.3	20

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19	Simultaneous contactless conductivity detection and UV detection for the study of separation of tamsulosin enantiomers in discontinuous electrolyte systems by CE. Electrophoresis, 2006, 27, 4735-4745.	1.3	18
20	Determination of antihyperglycemic drugs in nanomolar concentration levels by micellar electrokinetic chromatography with non-ionic surfactant. Journal of Chromatography A, 2009, 1216, 4492-4498.	1.8	18
21	Separation of Î±â€lactalbumin graftedâ€•and nonâ€grafted maghemite core/silica shell nanoparticles by capillary zone electrophoresis. Electrophoresis, 2010, 31, 2754-2761.	1.3	18
22	Kinetic analyses and performance of a colloidal magnetic nanoparticle based immunoassay dedicated to allergy diagnosis. Analytical and Bioanalytical Chemistry, 2011, 400, 3395-3407.	1.9	18
23	Determination of oxaliplatin enantiomers at attomolar levels by capillary electrophoresis connected with inductively coupled plasma mass spectrometry. Talanta, 2019, 205, 120151.	2.9	18
24	Capillary isotachophoresis from the student point of view â€“ images and the reality. Journal of Separation Science, 2006, 29, 2705-2715.	1.3	17
25	Smartphones & microfluidics: Marriage for the future. Electrophoresis, 2018, 39, 1319-1328.	1.3	17
26	Enantioseparation of tartaric acid by ligandâ€exchange capillary electrophoresis using contactless conductivity detection. Journal of Separation Science, 2013, 36, 3426-3431.	1.3	16
27	Assessment of CE for the identification of microorganisms. Electrophoresis, 2009, 30, 444-449.	1.3	14
28	Onâ€line combination of CE and microscopy: An insight into the migration of microorganisms. Electrophoresis, 2009, 30, 3863-3869.	1.3	14
29	Separation of cetirizine enantiomers by capillary electrophoresis with a dual selector system based on borate-glucose complexes and sulfated-Î²-cyclodextrin. Talanta, 2019, 198, 154-158.	2.9	14
30	Study of electromigration effects on a pH boundary during the onâ€line electrokinetic preconcentration by capillary electrophoresis. Electrophoresis, 2010, 31, 2771-2777.	1.3	13
31	Study of interactions between carboxylated core shell magnetic nanoparticles and polymyxin B by capillary electrophoresis with inductively coupled plasma mass spectrometry. Journal of Chromatography A, 2020, 1609, 460433.	1.8	9
32	Online stacking of carboxylated magnetite coreâ€“shell nanoparticles in capillary electrophoresis. Journal of Separation Science, 2017, 40, 2482-2487.	1.3	8
33	Study of behavior of carboxylic magnetite core shell nanoparticles on a pH boundary. Journal of Chromatography A, 2014, 1364, 59-63.	1.8	7
34	Rapid determination of the critical micelle concentration by Taylor dispersion analysis in capillaries using both direct and indirect detection. Journal of Separation Science, 2017, 40, 1421-1426.	1.3	7
35	True lab-in-a-syringe technology for bioassays. Talanta, 2017, 174, 285-288.	2.9	7
36	Fast spore breaking by superheating. Lab on A Chip, 2013, 13, 1695.	3.1	6

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37	Enantiomeric purity control of R-cinacalcet in pharmaceutical product by capillary electrophoresis. Chemical Papers, 2016, 70, .	1.0	6
38	Fast separation of enantiomers by capillary electrophoresis using a combination of two capillaries with different internal diameters. Electrophoresis, 2017, 38, 3124-3129.	1.3	6
39	Porous layer open tubular monolith capillary column: switching-off the reaction kinetics as the governing factor in their preparation by using an immiscible liquid-controlled polymerization. RSC Advances, 2013, 3, 24927.	1.7	5
40	Separation of ketoprofen enantiomers at nanomolar concentration levels by micellar electrokinetic chromatography with on-line electrokinetic preconcentration. Open Chemistry, 2013, 11, 335-340.	1.0	5
41	CAPILLARY ELECTROPHORESIS AS A VERIFICATION TOOL FOR IMMUNOCHEMICAL DRUG SCREENING. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2007, 151, 31-36.	0.2	5
42	CZE Separation of New Drugs for Treatment of Leukemia. Chromatographia, 2014, 77, 1477-1482.	0.7	4
43	Determination of Escherichia coli in urine using a low-cost foil-based microfluidic device. Talanta, 2017, 170, 36-40.	2.9	4
44	Electrokinetic preconcentration of magnetite core â€“ carboxylic shell nanoparticles by capillary electrophoresis. Journal of Chromatography A, 2017, 1499, 217-221.	1.8	4
45	Ultra-trace determination of oxaliplatin impurities by sweeping-MEKC-ICP-MS. Microchemical Journal, 2022, 172, 106967.	2.3	4
46	A fast determination of yohimbine in pharmaceuticals by micellar electrokinetic chromatography. Open Chemistry, 2010, 8, 273-277.	1.0	3
47	Determination of citrate released from stabilized gold nanoparticles by capillary zone electrophoresis. Chemical Papers, 2018, 72, 419-424.	1.0	3
48	Determination of Hormone Antagonists in Waste-Water Samples by Micellar Electrokinetic Chromatography. Chromatographia, 2018, 81, 1607-1612.	0.7	2
49	Fabrication of low-cost polydimethylsiloxane master from laminating foil for isotachophoresis separation on a chip. Instrumentation Science and Technology, 2018, 46, 316-325.	0.9	1
50	Rapid Production of PDMS Microdevices for Electrodriven Separations and Microfluidics by 3D-Printed Scaffold Removal. Separations, 2021, 8, 67.	1.1	1
51	Determination of total protein content in biomedical products by the PDMS-assisted lab-in-a-syringe assay using 3D printed scaffolds removal. Journal of Analytical Science and Technology, 2021, 12, .	1.0	1
52	Advances in Chromatography and Electrophoresis 2007 and Chiranal 2007. Chromatographia, 2008, 67, 1-1.	0.7	0
53	Advances in Chromatography and Electrophoresis 2012 and Chiranal 2012. Chromatographia, 2013, 76, 303-304.	0.7	0
54	Advances in Chromatography and Electrophoresis & Chiranal 2014. Chromatographia, 2014, 77, 1413-1414.	0.7	0

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55	Advances in Chromatography and Electrophoresis 2016 and Chiranal 2016. Chromatographia, 2017, 80, 521-522.	0.7	0
56	Advances in Chromatography and Electrophoresis 2018 and Chiranal 2018. Chromatographia, 2018, 81, 1605-1606.	0.7	0
57	Capillary Electrophoresis Coupled to Mass Spectrometry for Enantiomeric Drugs Analysis. , 2017, , 165-223.		0
58	Determination of orotic acid in human urine using a combination of two capillaries with different internal diameters. Chemical Papers, 2020, 74, 2375-2379.	1.0	0