

Karel Klepárník

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,192
citations

361413

20
h-index

377865

34
g-index

49
all docs

49
docs citations

49
times ranked

1306
citing authors

#	ARTICLE	IF	CITATIONS
1	Miniaturized bioluminescence technology for single-cell quantification of caspase-3/7. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114512.	2.8	2
2	Caspase-8 Deficient Osteoblastic Cells Display Alterations in Non-Apoptotic Pathways. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 794407.	3.7	2
3	A single-cell analytical approach to quantify activated caspase-3/7 during osteoblast proliferation, differentiation, and apoptosis. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5085-5093.	3.7	6
4	A device for investigation of natural cell mobility and deformability. <i>Electrophoresis</i> , 2020, 41, 1238-1244.	2.4	3
5	Osteogenic impact of pro-apoptotic caspase inhibitors in MC3T3-E1 cells. <i>Scientific Reports</i> , 2020, 10, 7489.	3.3	13
6	Preparation and Analysis of Quantum Dots: Applications of Capillary Electrophoresis. <i>Methods in Molecular Biology</i> , 2020, 2135, 55-83.	0.9	0
7	Bi-Ligand Modification of Nanoparticles: An Effective Tool for Surface-Enhanced Raman Spectrometry in Salinated Environments. <i>Nanomaterials</i> , 2019, 9, 1259.	4.1	7
8	Microfabricated liquid junction hybrid capillary electrophoresisâ€”mass spectrometry interface for fully automated operation. <i>Electrophoresis</i> , 2019, 40, 2263-2270.	2.4	23
9	Combination of liquidâ€”based column separations with surfaceâ€”enhanced Raman spectroscopy. <i>Journal of Separation Science</i> , 2019, 42, 431-444.	2.5	4
10	Time-Dependent Growth of Silica Shells on CdTe Quantum Dots. <i>Nanomaterials</i> , 2018, 8, 439.	4.1	5
11	Capillary electrophoresis, a method for the determination of nucleic acid ligands covalently attached to quantum dots representing a donor of FÃ¶rster resonance energy transfer. <i>Journal of Separation Science</i> , 2018, 41, 2961-2968.	2.5	6
12	An advanced conjugation strategy for the preparation of quantum dot-antibody immunoprobes. <i>Analytical Methods</i> , 2017, 9, 1991-1997.	2.7	16
13	Parallel single-cell analysis of active caspase-3/7 in apoptotic and non-apoptotic cells. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 269-274.	3.7	11
14	Recent advances in CEâ€”MS coupling: Instrumentation, methodology, and applications. <i>Electrophoresis</i> , 2017, 38, 115-134.	2.4	86
15	Selfâ€”aligning subatmospheric hybrid liquid junction electrospray interface for capillary electrophoresis. <i>Electrophoresis</i> , 2016, 37, 414-417.	2.4	17
16	Caspases and osteogenic markersâ€”in vitro screening of inhibition impact. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2016, 52, 144-148.	1.5	11
17	Recent advances in combination of capillary electrophoresis with mass spectrometry: Methodology and theory. <i>Electrophoresis</i> , 2015, 36, 159-178.	2.4	95
18	Determination of ζ -potential, charge, and number of organic ligands on the surface of water soluble quantum dots by capillary electrophoresis. <i>Electrophoresis</i> , 2015, 36, 867-874.	2.4	28

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19	A miniaturized device for bioluminescence analysis of caspase-3/7 activity in a single apoptotic cell. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5389-5394.	3.7	8
20	Analysis of Quantum Dots and Their Conjugates by Capillary Electrophoresis with Detection of Laser-Induced Luminescence. <i>Methods in Molecular Biology</i> , 2014, 1199, 33-54.	0.9	0
21	Recent advances in the development of single cell analysis – A review. <i>Analytica Chimica Acta</i> , 2013, 800, 12-21.	5.4	80
22	Recent advances in the combination of capillary electrophoresis with mass spectrometry: From element to single cell analysis. <i>Electrophoresis</i> , 2013, 34, 70-85.	2.4	70
23	Bioluminescence determination of active caspase-3 in single apoptotic cells. <i>Electrophoresis</i> , 2013, 34, 1772-1777.	2.4	8
24	Simultaneous analysis of cocaine and its metabolites in urine by capillary electrophoresis-electrospray mass spectrometry using a pressurized liquid junction nanoflow interface. <i>Electrophoresis</i> , 2012, 33, 653-660.	2.4	27
25	Photodeposited silver nanoparticles for on-column surface-enhanced Raman spectrometry detection in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2012, 1226, 43-47.	3.7	20
26	Capillary electrophoresis immunoassays with conjugated quantum dots. <i>Electrophoresis</i> , 2011, 32, 1217-1223.	2.4	16
27	Analyte transport in liquid junction nano-electrospray interface between capillary electrophoresis and mass spectrometry. <i>Electrophoresis</i> , 2010, 31, 879-885.	2.4	17
28	Electrophoresis today and tomorrow: Helping biologists' dreams come true. <i>BioEssays</i> , 2010, 32, 218-226.	2.5	42
29	Multidimensional liquid phase separations for mass spectrometry. <i>Journal of Separation Science</i> , 2008, 31, 1964-1979.	2.5	27
30	DNA Diagnostics by Capillary Electrophoresis. <i>Chemical Reviews</i> , 2007, 107, 5279-5317.	47.7	71
31	Optimization of a pressurized liquid junction nanoelectrospray interface between CE and MS for reliable proteomic analysis. <i>Electrophoresis</i> , 2007, 28, 1964-1969.	2.4	33
32	Capillary electrophoresis mass spectrometry coupling with immobilized enzyme electrospray capillaries. <i>Journal of Chromatography A</i> , 2007, 1159, 110-118.	3.7	69
33	A continuous-flow instrument for the determination of linear polyacrylamide stability. <i>Electrophoresis</i> , 2004, 25, 2139-2143.	2.4	3
34	Detection of the major mutation M467T causing cystinuria by single-strand conformation polymorphism analysis using capillary electrophoresis. <i>Electrophoresis</i> , 2004, 25, 57-64.	2.4	7
35	Unsteady transport phenomena in free-flow electrophoresis - prerequisite of ultrafast sample cleaning in microfluidic devices. <i>Electrophoresis</i> , 2004, 25, 3633-3642.	2.4	3
36	Detection of DNA fragmentation in a single apoptotic cardiomyocyte by electrophoresis on a microfluidic device. <i>Electrophoresis</i> , 2003, 24, 3778-3783.	2.4	71

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37	Electroosmotic flow in capillary channels filled with nonconstant viscosity electrolytes: Exact solution of the Navier-Stokes equation. <i>Electrophoresis</i> , 2002, 23, 3574-3582.	2.4	11
38	in Bare Fused Silica Capillaries. , 2001, 162, 239-258.		1
39	Fast separation of DNA sequencing fragments in highly alkaline solutions of linear polyacrylamide using electrophoresis in bare silica capillaries. <i>Electrophoresis</i> , 2001, 22, 783-788.	2.4	31
40	Ultrafast detection of microsatellite repeat polymorphism in endothelin 1 gene by electrophoresis in short capillaries. <i>Electrophoresis</i> , 2000, 21, 238-246.	2.4	18
41	Genomic relatedness of <i>Staphylococcus aureus</i> phages of the International Typing Set and detection of serogroup A, B, and F prophages in lysogenic strains. <i>Canadian Journal of Microbiology</i> , 2000, 46, 1066-1076.	1.7	20
42	Fast detection of a (CA) ₁₈ microsatellite repeat in the IgE receptor gene by capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 1998, 19, 249-255.	2.4	15
43	DNA cycle sequencing of a common restriction fragment of <i>Staphylococcus aureus</i> bacteriophages by capillary electrophoresis using replaceable linear polyacrylamide. <i>Electrophoresis</i> , 1998, 19, 695-700.	2.4	9
44	The use of elevated column temperature to extend DNA sequencing read lengths in capillary electrophoresis with replaceable polymer matrices. <i>Electrophoresis</i> , 1996, 17, 1860-1866.	2.4	64
45	An improvement of restriction analysis of bacteriophage DNA using capillary electrophoresis in agarose solution. <i>Electrophoresis</i> , 1995, 16, 366-376.	2.4	24
46	Injection bias of DNA fragments in capillary electrophoresis with sieving. <i>Journal of Chromatography A</i> , 1995, 698, 375-383.	3.7	25
47	Selectivity of the separation of DNA fragments by capillary zone electrophoresis in low-melting-point agarose sol. <i>Journal of Chromatography A</i> , 1993, 638, 283-292.	3.7	30
48	Theoretical background for clinical and biomedical applications of electromigration techniques. <i>Biomedical Applications</i> , 1991, 569, 3-42.	1.7	37