

Petr Tuma

List of Publications by Year in descending order

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78
papers

1,673
citations

257450

24
h-index

345221

36
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78
all docs

78
docs citations

78
times ranked

1466
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary and microchip electrophoresis with contactless conductivity detection for analysis of foodstuffs and beverages. <i>Food Chemistry</i> , 2022, 375, 131858.	8.2	23
2	Monitoring of amoxicilline and ceftazidime in the microdialysate of diabetic foot and serum by capillary electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , 2022, , .	2.4	8
3	Large volume sample stacking of antiepileptic drugs in counter current electrophoresis performed in PAMAPTAC coated capillary. <i>Talanta</i> , 2021, 221, 121626.	5.5	12
4	Characterization of various geometric arrangements of "air-assisted" flow gating interfaces for capillary electrophoresis. <i>Electrophoresis</i> , 2021, 42, 749-755.	2.4	4
5	Determination of amino acids by capillary and microchip electrophoresis with contactless conductivity detection " Theory, instrumentation and applications. <i>Talanta</i> , 2021, 224, 121922.	5.5	41
6	Electrophoretic Determination of Symmetric and Asymmetric Dimethylarginine in Human Blood Plasma with Whole Capillary Sample Injection. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2970.	4.1	7
7	Monitoring of circulating amino acids in patients with pancreatic cancer and cancer cachexia using capillary electrophoresis and contactless conductivity detection. <i>Electrophoresis</i> , 2021, 42, 1885-1891.	2.4	10
8	Rapid determination of majority cations in yoghurts using on-line connection of capillary electrophoresis with mini-dialysis. <i>Food Chemistry</i> , 2020, 308, 125647.	8.2	10
9	Measuring venous-arterial differences of valine, isoleucine, leucine, alanine and glutamine in skeletal muscles using counter-current electrophoresis with contactless conductivity detection. <i>Journal of Electroanalytical Chemistry</i> , 2020, 857, 113772.	3.8	17
10	Rapid methods for the separation of natural mixtures of beauverolides, cholesterol acyltransferase inhibitors, isolated from the fungus <i>Isaria fumosorosea</i> . <i>Journal of Separation Science</i> , 2020, 43, 962-969.	2.5	4
11	Effect of Food with Low Enrichment of N-3 Fatty Acids in a Two-Month Diet on the Fatty Acid Content in the Plasma and Erythrocytes and on Cardiovascular Risk Markers in Healthy Young Men. <i>Nutrients</i> , 2020, 12, 2207.	4.1	5
12	Dialysis of one sample drop on-line connected with electrophoresis in short capillary. <i>Talanta</i> , 2020, 219, 121252.	5.5	9
13	Sensitive CE-MS method for monitoring of riociguat and desmethylriociguat levels in human serum. <i>Electrophoresis</i> , 2020, 41, 1564-1567.	2.4	5
14	On-line coupling of capillary electrophoresis with microdialysis for determining saccharides in dairy products and honey. <i>Food Chemistry</i> , 2020, 316, 126362.	8.2	14
15	Separation of anaesthetic ketamine and its derivates in PAMAPTAC coated capillaries with tuneable counter-current electroosmotic flow. <i>Talanta</i> , 2020, 217, 121094.	5.5	20
16	New Design of the Electrophoretic Part of CLARITY Technology for Confocal Light Microscopy of Rat and Human Brains. <i>Brain Sciences</i> , 2019, 9, 218.	2.3	1
17	Evaluation of the Burdening on the Czech Population by Brominated Flame Retardants. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4105.	2.6	3
18	The use of coupled gas chromatography columns for the determination of individual isomers of trans fatty acids in the adipose tissue of vegans. <i>Monatshefte für Chemie</i> , 2019, 150, 1417-1424.	1.8	0

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19	Lactate production without hypoxia in skeletal muscle during electrical cycling: Crossover study of femoral venous-arterial differences in healthy volunteers. <i>PLoS ONE</i> , 2019, 14, e0200228.	2.5	10
20	Rapid and Sensitive Determination of Branched-Chain Amino Acids in Human Plasma by Capillary Electrophoresis with Contactless Conductivity Detection for Physiological Studies. <i>Methods in Molecular Biology</i> , 2019, 1972, 15-24.	0.9	4
21	The Control of Glucose and Lactate Levels in Nutrient Medium After Cell Incubation and in Microdialysates of Human Adipose Tissue by Capillary Electrophoresis with Contactless Conductivity Detection. <i>Methods in Molecular Biology</i> , 2019, 1972, 95-108.	0.9	2
22	Rapid electrophoretic monitoring of the anaesthetic ketamine and its metabolite norketamine in rat blood using a contactless conductivity detector to study the pharmacokinetics. <i>Journal of Separation Science</i> , 2019, 42, 2062-2068.	2.5	10
23	An air-assisted flow-gating interface for capillary electrophoresis. <i>Electrophoresis</i> , 2019, 40, 587-590.	2.4	14
24	Monitoring of adipose tissue metabolism using microdialysis and capillary electrophoresis with contactless conductivity detection. <i>Talanta</i> , 2019, 192, 380-386.	5.5	19
25	Electrophoretic large volume sample stacking for sensitive determination of the anti-microbial agent pentamidine in rat plasma for pharmacological studies. <i>Electrophoresis</i> , 2018, 39, 2605-2611.	2.4	13
26	Direct sample injection from a syringe needle into a separation capillary. <i>Analytica Chimica Acta</i> , 2018, 1042, 133-140.	5.4	20
27	Metformin Does Not Inhibit Exercise-Induced Lipolysis in Adipose Tissue in Young Healthy Lean Men. <i>Frontiers in Physiology</i> , 2018, 9, 604.	2.8	4
28	Menthol-based hydrophobic deep eutectic solvents: Towards greener and efficient extraction of phytocannabinoids. <i>Journal of Cleaner Production</i> , 2018, 193, 391-396.	9.3	125
29	Novel electrophoretic acetonitrile-based stacking for sensitive monitoring of the antiepileptic drug perampanel in human serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 160, 368-373.	2.8	15
30	Hydrodynamic sample injection into short electrophoretic capillary in systems with a flow-gating interface. <i>Journal of Chromatography A</i> , 2017, 1480, 93-98.	3.7	15
31	Chronic dietary exposure to branched chain amino acids impairs glucose disposal in vegans but not in omnivores. <i>European Journal of Clinical Nutrition</i> , 2017, 71, 594-601.	2.9	18
32	Frequency-tuned contactless conductivity detector for the electrophoretic separation of clinical samples in capillaries with very small internal dimensions. <i>Journal of Separation Science</i> , 2017, 40, 940-947.	2.5	31
33	Increased Incretin But Not Insulin Response after Oral versus Intravenous Branched Chain Amino Acids. <i>Annals of Nutrition and Metabolism</i> , 2017, 70, 293-302.	1.9	18
34	Coaxial flow-gating interface for capillary electrophoresis. <i>Journal of Separation Science</i> , 2017, 40, 3138-3143.	2.5	13
35	Quantification of paracetamol and 5-oxoproline in serum by capillary electrophoresis: Implication for clinical toxicology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 145, 616-620.	2.8	24
36	The use of capillary electrophoresis with contactless conductivity detection for sensitive determination of stevioside and rebaudioside A in foods and beverages. <i>Food Chemistry</i> , 2017, 219, 193-198.	8.2	25

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37	Electrokinetic injection of samples into a short electrophoretic capillary controlled by piezoelectric micropumps. <i>Electrophoresis</i> , 2016, 37, 595-600.	2.4	19
38	Dual-channel capillary electrophoresis for simultaneous determination of cations and anions. <i>Journal of Chromatography A</i> , 2016, 1446, 158-163.	3.7	29
39	Voltammetric and capillary electrophoretic study of scavenger kinetics of methylglyoxal by antidiabetic biguanide drugs. <i>Journal of Electroanalytical Chemistry</i> , 2016, 777, 26-32.	3.8	7
40	Electrophoretic stacking for sensitive determination of antibiotic ceftazidime in human blood and microdialysates from diabetic foot. <i>Analytica Chimica Acta</i> , 2016, 942, 139-145.	5.4	19
41	The use of polarity switching for the sensitive determination of nitrate in human cerebrospinal fluid by capillary electrophoresis with contactless conductivity detection. <i>Journal of Chromatography A</i> , 2016, 1447, 148-154.	3.7	9
42	Mitochondrial Probe Methyltriphenylphosphonium (TPMP) Inhibits the Krebs Cycle Enzyme 2-Oxoglutarate Dehydrogenase. <i>PLoS ONE</i> , 2016, 11, e0161413.	2.5	10
43	Pressure-assisted introduction of urine samples into a short capillary for electrophoretic separation with contactless conductivity and UV spectrometry detection. <i>Electrophoresis</i> , 2015, 36, 1962-1968.	2.4	32
44	Contactless conductometric determination of methanol and ethanol in samples containing water after their electrophoretic desalination. <i>Electrophoresis</i> , 2015, 36, 1976-1981.	2.4	6
45	Rapid determination of branched chain amino acids in human blood plasma by pressure-assisted capillary electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , 2015, 36, 1969-1975.	2.4	44
46	A simple impedance tester for determining the water content in organic solvents. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 485-490.	7.8	13
47	Simultaneous and rapid determination of caffeine and taurine in energy drinks by MEKC in a short capillary with dual contactless conductivity/photometry detection. <i>Electrophoresis</i> , 2014, 35, 1660-1665.	2.4	35
48	Very fast electrophoretic determination of creatinine and uric acid in human urine using a combination of two capillaries with different internal diameters. <i>Electrophoresis</i> , 2014, 35, 956-961.	2.4	31
49	Large volume sample stacking for rapid and sensitive determination of antidiabetic drug metformin in human urine and serum by capillary electrophoresis with contactless conductivity detection. <i>Journal of Chromatography A</i> , 2014, 1345, 207-211.	3.7	35
50	Rapid determination of globin chains in red blood cells by capillary electrophoresis using INSTC-coated fused-silica capillary. <i>Journal of Separation Science</i> , 2014, 37, 1026-1032.	2.5	33
51	Correlation between the standard Gibbs energies of an anion transfer from water to highly hydrophobic ionic liquids and to 1,2-dichloroethane. <i>Journal of Electroanalytical Chemistry</i> , 2014, 714-715, 109-115.	3.8	6
52	Large-volume sample stacking for in vivo monitoring of trace levels of β -aminobutyric acid, glycine and glutamate in microdialysates of periaqueductal gray matter by capillary electrophoresis with contactless conductivity detection. <i>Journal of Chromatography A</i> , 2013, 1303, 94-99.	3.7	41
53	Very fast electrophoretic separation on commercial instruments using a combination of two capillaries with different internal diameters. <i>Electrophoresis</i> , 2013, 34, 552-556.	2.4	10
54	Contactless Impedance Sensors and Their Application to Flow Measurements. <i>Sensors</i> , 2013, 13, 2786-2801.	3.8	41

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55	The use of a multichannel capillary for electrophoretic separations of mixtures of clinically important substances with contactless conductivity and UV photometric detection. <i>Electrophoresis</i> , 2013, 34, 2058-2064.	2.4	4
56	Transfer of heparin polyion across a polarized water/ionic liquid membrane interface. <i>Electrochemistry Communications</i> , 2012, 24, 25-27.	4.7	4
57	Rapid determinations of saccharides in high-energy drinks by short-capillary electrophoresis with contactless conductivity detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1549-1554.	3.7	33
58	Determination of the spectrum of low molecular mass organic acids in urine by capillary electrophoresis with contactless conductivity and ultraviolet photometric detection – An efficient tool for monitoring of inborn metabolic disorders. <i>Analytica Chimica Acta</i> , 2011, 685, 84-90.	5.4	79
59	Contactless Conductivity Detection in Capillary Electrophoresis Employing Capillaries with Very Low Inner Diameters. <i>Electroanalysis</i> , 2011, 23, 1870-1874.	2.9	27
60	Rapid monitoring of mono- and disaccharides in drinks, foodstuffs and foodstuff additives by capillary electrophoresis with contactless conductivity detection. <i>Analytica Chimica Acta</i> , 2011, 698, 1-5.	5.4	58
61	The use of capillary electrophoresis with contactless conductivity detection for monitoring of glycerol in adipose tissues during a sporting performance. <i>Electrophoresis</i> , 2010, 31, 2037-2043.	2.4	16
62	Rapid monitoring of arrays of amino acids in clinical samples using capillary electrophoresis with contactless conductivity detection. <i>Journal of Separation Science</i> , 2010, 33, 2394-2401.	2.5	63
63	The Dependence of the Sensitivity and Reliability of Contactless Conductivity Detection on the Wall Thickness of Electrophoretic Fused-Silica Capillaries. <i>Electroanalysis</i> , 2009, 21, 590-594.	2.9	10
64	A determination of submicromolar concentrations of glycine in periaqueductal gray matter microdialyzates using capillary zone electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , 2009, 30, 3436-3441.	2.4	23
65	A dual spectrophotometric/contactless conductivity detector for CE determination of incompletely separated amino acids. <i>Journal of Separation Science</i> , 2008, 31, 353-355.	2.5	23
66	Determination of ammonia, creatinine and inorganic cations in urine using CE with contactless conductivity detection. <i>Journal of Separation Science</i> , 2008, 31, 2260-2264.	2.5	31
67	A Comparison of the Properties of Contactless Conductivity and Diode Array Photometric Detectors in Analyses of Low Molecular, Biologically Active Substances by Capillary Electrophoresis in Acetic Acid Solutions. <i>Electroanalysis</i> , 2008, 20, 477-484.	2.9	16
68	Frequent intravenous pulses of growth hormone together with alanylglutamine supplementation in prolonged critical illness after multiple trauma: Effects on glucose control, plasma IGF-I and glutamine. <i>Growth Hormone and IGF Research</i> , 2008, 18, 82-87.	1.1	19
69	Determination of Intact Heparin by Capillary Electrophoresis with Contactless Conductivity Detection in Background Electrolytes Containing Hydrophilic Polymers. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 187-200.	1.0	9
70	Frequent intravenous pulses of growth hormone together with glutamine supplementation in prolonged critical illness after multiple trauma: Effects on nitrogen balance, insulin resistance, and substrate oxidation*. <i>Critical Care Medicine</i> , 2008, 36, 1707-1713.	0.9	32
71	Determination of 1-methylhistidine and 3-methylhistidine by capillary and chip electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , 2007, 28, 2174-2180.	2.4	28
72	Determination of uric acid in plasma and allantoin fluid of chicken embryos by capillary electrophoresis. <i>Journal of Separation Science</i> , 2007, 30, 1947-1952.	2.5	17

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73	Analysis of factors influencing nitrogen balance during acute starvation in obese subject with and without type 2 diabetes. <i>Clinical Nutrition</i> , 2007, 26, 552-558.	5.0	6
74	Determination of free amino acids and related compounds in amniotic fluid by capillary electrophoresis with contactless conductivity detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 839, 12-18.	2.3	69
75	Determination of Proteinogenic Amino Acids in Human Plasma by Capillary Electrophoresis with Contactless Conductivity Detection. <i>Electroanalysis</i> , 2006, 18, 152-157.	2.9	45
76	Determination of 3-methylhistidine and 1-methylhistidine in untreated urine samples by capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 821, 53-59.	2.3	40
77	Improved detection limit for a direct determination of 8-hydroxy-2'-deoxyguanosine in untreated urine samples by capillary electrophoresis with optical detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 813, 255-261.	2.3	18
78	Split-flow injector for capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 2000, 883, 223-230.	3.7	10