

# Petr Tuma

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	1,267 citations	23 h-index	31 g-index
78 ext. papers	1,508 ext. citations	4.3 avg, IF	5.26 L-index

#	Paper	IF	Citations
76	Capillary and microchip electrophoresis with contactless conductivity detection for analysis of foodstuffs and beverages.. <i>Food Chemistry</i> , <b>2021</b> , 375, 131858	8.5	2
75	Electrophoretic Determination of Symmetric and Asymmetric Dimethylarginine in Human Blood Plasma with Whole Capillary Sample Injection. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
74	Monitoring of circulating amino acids in patients with pancreatic cancer and cancer cachexia using capillary electrophoresis and contactless conductivity detection. <i>Electrophoresis</i> , <b>2021</b> , 42, 1885-1891	3.6	1
73	Large volume sample stacking of antiepileptic drugs in counter current electrophoresis performed in PAMAPTAC coated capillary. <i>Talanta</i> , <b>2021</b> , 221, 121626	6.2	4
72	Characterization of various geometric arrangements of "air-assisted" flow gating interfaces for capillary electrophoresis. <i>Electrophoresis</i> , <b>2021</b> , 42, 749-755	3.6	0
71	Determination of amino acids by capillary and microchip electrophoresis with contactless conductivity detection - Theory, instrumentation and applications. <i>Talanta</i> , <b>2021</b> , 224, 121922	6.2	8
70	Dialysis of one sample drop on-line connected with electrophoresis in short capillary. <i>Talanta</i> , <b>2020</b> , 219, 121252	6.2	4
69	Sensitive CE-MS method for monitoring of riociguat and desmethylriociguat levels in human serum. <i>Electrophoresis</i> , <b>2020</b> , 41, 1564-1567	3.6	0
68	On-line coupling of capillary electrophoresis with microdialysis for determining saccharides in dairy products and honey. <i>Food Chemistry</i> , <b>2020</b> , 316, 126362	8.5	7
67	Separation of anaesthetic ketamine and its derivatives in PAMAPTAC coated capillaries with tuneable counter-current electroosmotic flow. <i>Talanta</i> , <b>2020</b> , 217, 121094	6.2	11
66	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> , <b>2020</b> , 857, 113772	4.1	9
65	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> , <b>2020</b> , 43, 962-969 <sup>3-4</sup>	3.4	4
64	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> , <b>2020</b> , 12,	6.7	3
63	Rapid determination of majority cations in yoghurts using on-line connection of capillary electrophoresis with mini-dialysis. <i>Food Chemistry</i> , <b>2020</b> , 308, 125647	8.5	5
62	Evaluation of the Burdening on the Czech Population by Brominated Flame Retardants. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	1
61	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> , <b>2019</b> , 150, 1417-1424	1.4	
60	Lactate production without hypoxia in skeletal muscle during electrical cycling: Crossover study of femoral venous-arterial differences in healthy volunteers. <i>PLoS ONE</i> , <b>2019</b> , 14, e0200228	3.7	5

59	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> , <b>2019</b> , 1972, 15-24	1.4	4
58	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> , <b>2019</b> , 1972, 95-108	1.4	0
57	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> , <b>2019</b> , 42, 2062-2068	3.4	8
56	An air-assisted flow-gating interface for capillary electrophoresis. <i>Electrophoresis</i> , <b>2019</b> , 40, 587-590	3.6	7
55	Monitoring of adipose tissue metabolism using microdialysis and capillary electrophoresis with contactless conductivity detection. <i>Talanta</i> , <b>2019</b> , 192, 380-386	6.2	12
54	Electrophoretic large volume sample stacking for sensitive determination of the anti-microbial agent pentamidine in rat plasma for pharmacological studies. <i>Electrophoresis</i> , <b>2018</b> , 39, 2605-2611	3.6	6
53	Metformin Does Not Inhibit Exercise-Induced Lipolysis in Adipose Tissue in Young Healthy Lean Men. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 604	4.6	2
52	Menthol-based hydrophobic deep eutectic solvents: Towards greener and efficient extraction of phytocannabinoids. <i>Journal of Cleaner Production</i> , <b>2018</b> , 193, 391-396	10.3	82
51	Novel electrophoretic acetonitrile-based stacking for sensitive monitoring of the antiepileptic drug perampanel in human serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 160, 368-373	3.5	10
50	Direct sample injection from a syringe needle into a separation capillary. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1042, 133-140	6.6	9
49	Hydrodynamic sample injection into short electrophoretic capillary in systems with a flow-gating interface. <i>Journal of Chromatography A</i> , <b>2017</b> , 1480, 93-98	4.5	14
48	Chronic dietary exposure to branched chain amino acids impairs glucose disposal in vegans but not in omnivores. <i>European Journal of Clinical Nutrition</i> , <b>2017</b> , 71, 594-601	5.2	16
47	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> , <b>2017</b> , 40, 940-947	3.4	25
46	Increased Incretin But Not Insulin Response after Oral versus Intravenous Branched Chain Amino Acids. <i>Annals of Nutrition and Metabolism</i> , <b>2017</b> , 70, 293-302	4.5	16
45	Coaxial flow-gating interface for capillary electrophoresis. <i>Journal of Separation Science</i> , <b>2017</b> , 40, 3138-3143	3.1	10
44	Quantification of paracetamol and 5-oxoproline in serum by capillary electrophoresis: Implication for clinical toxicology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 145, 616-620	3.5	16
43	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> , <b>2017</b> , 219, 193-198	8.5	19
42	Electrophoretic stacking for sensitive determination of antibiotic ceftazidime in human blood and microdialysates from diabetic foot. <i>Analytica Chimica Acta</i> , <b>2016</b> , 942, 139-145	6.6	15

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> , <b>2016</b> , 1447, 148-54	4.5	7
40	Mitochondrial Probe Methyltriphenylphosphonium (TPMP) Inhibits the Krebs Cycle Enzyme 2-Oxoglutarate Dehydrogenase. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161413	3.7	3
39	Electrokinetic injection of samples into a short electrophoretic capillary controlled by piezoelectric micropumps. <i>Electrophoresis</i> , <b>2016</b> , 37, 595-600	3.6	11
38	Dual-channel capillary electrophoresis for simultaneous determination of cations and anions. <i>Journal of Chromatography A</i> , <b>2016</b> , 1446, 158-63	4.5	26
37	Voltammetric and capillary electrophoretic study of scavenger kinetics of methylglyoxal by antidiabetic biguanide drugs. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 777, 26-32	4.1	5
36	Rapid determination of branched chain amino acids in human blood plasma by pressure-assisted capillary electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , <b>2015</b> , 36, 1969-75	3.6	35
35	A simple impedance tester for determining the water content in organic solvents. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 485-490	8.5	9
34	Pressure-assisted introduction of urine samples into a short capillary for electrophoretic separation with contactless conductivity and UV spectrometry detection. <i>Electrophoresis</i> , <b>2015</b> , 36, 1962-8	3.6	24
33	Contactless conductometric determination of methanol and ethanol in samples containing water after their electrophoretic desalination. <i>Electrophoresis</i> , <b>2015</b> , 36, 1976-81	3.6	5
32	Rapid determination of globin chains in red blood cells by capillary electrophoresis using INSTCoated fused-silica capillary. <i>Journal of Separation Science</i> , <b>2014</b> , 37, 1026-32	3.4	29
31	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> , <b>2014</b> , 714-715, 109-115	4.1	6
30	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> , <b>2014</b> , 35, 1660-5	3.6	31
29	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> , <b>2014</b> , 35, 956-61	3.6	25
28	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> , <b>2014</b> , 1345, 207-11	4.5	27
27	Large-volume sample stacking for in vivo monitoring of trace levels of $\beta$ -aminobutyric acid, glycine and glutamate in microdialysates of periaqueductal gray matter by capillary electrophoresis with contactless conductivity detection. <i>Journal of Chromatography A</i> , <b>2013</b> , 1303, 94-9	4.5	35
26	Very fast electrophoretic separation on commercial instruments using a combination of two capillaries with different internal diameters. <i>Electrophoresis</i> , <b>2013</b> , 34, 552-6	3.6	9
25	Contactless impedance sensors and their application to flow measurements. <i>Sensors</i> , <b>2013</b> , 13, 2786-801	3.8	31
24	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> , <b>2013</b> , 34, 2058-64	3.6	4

23	Transfer of heparin polyion across a polarized water/ionic liquid membrane interface. <i>Electrochemistry Communications</i> , <b>2012</b> , 24, 25-27	5.1	4
22	Rapid determinations of saccharides in high-energy drinks by short-capillary electrophoresis with contactless conductivity detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 1549-54	4.4	30
21	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> , <b>2011</b> , 685, 84-90	6.6	72
20	Contactless Conductivity Detection in Capillary Electrophoresis Employing Capillaries with Very Low Inner Diameters. <i>Electroanalysis</i> , <b>2011</b> , 23, 1870-1874	3	26
19	Rapid monitoring of mono- and disaccharides in drinks, foodstuffs and foodstuff additives by capillary electrophoresis with contactless conductivity detection. <i>Analytica Chimica Acta</i> , <b>2011</b> , 698, 1-5	6.6	51
18	The use of capillary electrophoresis with contactless conductivity detection for monitoring of glycerol in adipose tissues during a sporting performance. <i>Electrophoresis</i> , <b>2010</b> , 31, 2037-43	3.6	15
17	Rapid monitoring of arrays of amino acids in clinical samples using capillary electrophoresis with contactless conductivity detection. <i>Journal of Separation Science</i> , <b>2010</b> , 33, 2394-401	3.4	58
16	The Dependence of the Sensitivity and Reliability of Contactless Conductivity Detection on the Wall Thickness of Electrophoretic Fused-Silica Capillaries. <i>Electroanalysis</i> , <b>2009</b> , 21, 590-594	3	9
15	A determination of submicromolar concentrations of glycine in periaqueductal gray matter microdialyzates using capillary zone electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , <b>2009</b> , 30, 3436-41	3.6	23
14	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> , <b>2008</b> , 18, 82-7	2	17
13	Determination of Intact Heparin by Capillary Electrophoresis with Contactless Conductivity Detection in Background Electrolytes Containing Hydrophilic Polymers. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2008</b> , 73, 187-200		7
12	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> , <b>2008</b> , 36, 1707-13	1.4	30
11	A dual spectrophotometric/contactless conductivity detector for CE determination of incompletely separated amino acids. <i>Journal of Separation Science</i> , <b>2008</b> , 31, 353-5	3.4	19
10	Determination of ammonia, creatinine and inorganic cations in urine using CE with contactless conductivity detection. <i>Journal of Separation Science</i> , <b>2008</b> , 31, 2260-4	3.4	26
9	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> , <b>2008</b> , 20, 477-484	3	13
8	Determination of 1-methylhistidine and 3-methylhistidine by capillary and chip electrophoresis with contactless conductivity detection. <i>Electrophoresis</i> , <b>2007</b> , 28, 2174-80	3.6	26
7	Determination of uric acid in plasma and allantoinic fluid of chicken embryos by capillary electrophoresis. <i>Journal of Separation Science</i> , <b>2007</b> , 30, 1947-52	3.4	16
6	Analysis of factors influencing nitrogen balance during acute starvation in obese subject with and without type 2 diabetes. <i>Clinical Nutrition</i> , <b>2007</b> , 26, 552-8	5.9	6

5	Determination of Proteinogenic Amino Acids in Human Plasma by Capillary Electrophoresis with Contactless Conductivity Detection. <i>Electroanalysis</i> , <b>2006</b> , 18, 152-157	3	40
4	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> , <b>2006</b> , 839, 12-8	3.2	61
3	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> , <b>2005</b> , 821, 53-9	3.2	32
2	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> , <b>2004</b> , 813, 255-61	3.2	17
1	Split-flow injector for capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>2000</b> , 883, 223-30	4.5	10