

### Advances in drug testing using capillary electrophoresis and native fluorescence

**Bolkvadze, Vyacheslav; Saar-Reismaa, Piret; Kaljurand, Mihkel; Vaher, Merike; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina** V4 Symposium Flow Analysis & Capillary Electrophoresis : abstracts 2021 / p. 64  
[https://v4face.project.uj.edu.pl/documents/144328876/0/Book\\_of\\_abstracts\\_FACE+2020.pdf/d09dca39-a279-47c4-90e3-72f05bcd4a1](https://v4face.project.uj.edu.pl/documents/144328876/0/Book_of_abstracts_FACE+2020.pdf/d09dca39-a279-47c4-90e3-72f05bcd4a1)

### Analysis of psychoactive compounds in oral fluid by capillary electrophoresis = Psühhoaktiivsete ühendite analüüs süljes kapillaarelektroforeesi meetodil

**Saar-Reismaa, Piret** 2020 <https://digikogu.taltech.ee/et/Item/b7a6fb1d-5df0-4250-afd4-8323e65f3b5c> kookuvõte: Uudne narkotester leiab Eesti enim levinud uimastid veerand tunniga / novaator.err.ee

### Application of the capillary electrophoresis technique in real life

**Biel, Iwona;** Wozniakiewicz, Michal; **Mazina-Šinkar, Jekaterina** FLOW ANALYSIS XV Krakow, Poland 2022, June 26-July 1 : Book of Abstracts 2022 / p. 127 [https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26\\_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed](https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed)

### Autosampler for portable capillary electrophoresis

**Ružicka, Martin; Kaljurand, Mihkel; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina** Journal of chromatography A 2022 / art. 463619 <https://doi.org/10.1016/j.chroma.2022.463619> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### Cannabinoids ( $\Delta^9$ -THC and CBD) quantitative analysis by in-situ portable drug analyzer Drug Hunter

**Gorbatšova, J; Bolkvadze, V; Vaher, Merike; Halling, Evelin; Mazina-Šinkar, Jekaterina** Flow Analysis XV, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 155  
[https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26\\_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed](https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed)

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**Gorbatšova, Jelena; Bolkvadze, Vyacheslav; Vaher, Merike; Halling, Evelin; Mazina-Šinkar, Jekaterina** Flow Analysis XV, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 155  
[https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26\\_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed](https://flowanalysis2022.confer.uj.edu.pl/documents/148482257/0/ksi%C4%85%C5%BCKa+2022-05-28+str+numeracja+od+stopki+spad3mm+26_06+g+16.pdf/151f7dba-0b67-4e9b-af55-3f042f9b55ed)

### Capillary electrophoresis as a monitoring tool for flow composition determination

**Kaljurand, Mihkel; Saar-Reismaa, Piret; Vaher, Merike; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina** Molecules 2021 / art. 4918, 12 p. : ill <https://doi.org/10.3390/molecules26164918> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### Chloride, bromide, and TFA determination in the mixture of ionic liquids by CE-C4D

**Gorbatšova, Jelena; Kuchtinskaja, Maria; Halling, Evelin; Mazina-Šinkar, Jekaterina** V4 Symposium FLOW ANALYSIS & CAPILLARY ELECTROPHORESIS, Krakow, June 28 – July 1, 2021 : abstracts 2021 / 1 p

### Detection of banned chemicals in various matrices (saliva, sediments) by capillary electrophoresis

**Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina; Saar-Reismaa, Piret; Jõul, Piia; Lees, Heidi; Tretjakova, Anastassia; Kulp, Maria; Vaher, Merike** 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 38 [http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts\\_Book\\_EcoBalt\\_2016.pdf](http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf)

### Drug Hunter on uudne ja kiire tehniline lahendus kiireks narkojoobe tuvastamiseks

Kuzmina, Monika goodnews.ee 2023 [Drug Hunter on uudne ja kiire tehniline lahendus kiireks narkojoobe tuvastamiseks Эстонские ученые разработали для полиции сверхточный тест на наркотики](https://goodnews.ee/2023/07/20/drug-hunter-on-uudne-ja-kiire-tehniline-lahendus-kiireks-narkojoobe-tuvastamiseks-estonskije-ucenye-razrabotali-dlya-politsii-sverhtocnyj-test-na-narkotiki)

### Evaluation of different operating modes of an autosampler for portable capillary electrophoresis

**Kaljurand, Mihkel; Ruzicka, Martin; Gorbatsova, Jelena; Mazina-Šinkar, Jekaterina** Journal of Chromatography A 2023 / art. 464201 <https://doi.org/10.1016/j.chroma.2023.464201> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### Future perspective of in situ soil analysis

**Leinus, Mari-Liis; Jõul, Piia; Rūžicka, Martin; Gorbatšova, Jelena; Vaher, Merike; Shimmo, Ruth; Mazina-Šinkar, Jekaterina** Proceedings 2023 / art. 10 <https://doi.org/10.3390/proceedings2023092010>

### A gas chromatograph for citizen science

**Kaljurand, Mihkel; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina** Microchemical journal 2021 / art. 106195, 6 p. : ill <https://doi.org/10.1016/j.microc.2021.106195> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### In situ determination of illegal drugs in oral fluid by portable capillary electrophoresis with deep UV excited fluorescence detection

**Saar-Reismaa, Piret; Erme, Enn; Vaher, Merike; Kulp, Maria; Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina** Analytical chemistry 2018 / p. 6253-6258 : ill <https://doi.org/10.1021/acs.analchem.8b00911> Journal metrics at Scopus Article at Scopus Journal metrics at

**The influence of organic solvents on phenylethylamines in capillary zone electrophoresis**

**Bolkvadze, Vyacheslav; Bondar, Denys; Vaher, Merike; Halling, Evelin; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina**  
Journal of chromatography A 2022 / art. 463169, 9 p. : ill <https://doi.org/10.1016/j.chroma.2022.463169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Kaasaskantav narkotester võimaldab tuvastada joovet senisest täpsemalt**

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [Kaasaskantav narkotester võimaldab tuvastada joovet senisest täpsemalt](#)

**Käivitus teadusmahukate ettevõtete teket toetav programm TalTech DeepEst**

**Kivinum, Kerje** *Mente et Manu* 2021 / lk. 44-45 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Narkotestri arendamine narkootikumide tuvastamiseks süljes**

**Saar-Reismaa, Piret; Erme, E.; Kulp, Maria; Gorbatšova, Jelena; Kaljurand, Mihkel; Vaher, Merike; Mazina-Šinkar, Jekaterina** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 27  
[https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

**New developments in separation science will help to contribute to the democratisation of analytical chemistry**

**Kaljurand, Mihkel; Ružička, Martin; Gorbatšova, Jelena; Mazina-Šinkar, Jekaterina** *Microchemical journal* 2023 / Art. 109443  
<https://doi.org/10.1016/j.microc.2023.109443> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Portable capillary electrophoresis as a green analytical technology**

**Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina** *TrAC Trends in Analytical Chemistry* 2022 / art. 116811  
<https://doi.org/10.1016/j.trac.2022.116811> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Portable fully automated oral fluid extraction device for illegal drugs**

**Ružička, Martin; Kaljurand, Mihkel; Gorbatšova, Jelena; Vaher, Merike; Mazina-Šinkar, Jekaterina** *Talanta* 2022 / art. 123389  
<https://doi.org/10.1016/j.talanta.2022.123389> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rapid and sensitive capillary electrophoresis method for the analysis of Ecstasy in an oral fluid**

**Saar-Reismaa, Piret; Tretjakova, Anastassia; Mazina-Šinkar, Jekaterina; Vaher, Merike; Kaljurand, Mihkel; Kulp, Maria**  
*Talanta* 2019 / p. 390-396 : ill <https://doi.org/10.1016/j.talanta.2019.01.029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rapid capillary electrophoresis method with led-induced native fluorescence detection for the analysis of amphetamine and cocaine derivatives in oral fluid**

**Tretjakova, Anastassia; Mazina-Šinkar, Jekaterina; Vaher, Merike; Kaljurand, Mihkel; Kulp, Maria** 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 68 [http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts\\_Book\\_EcoBalt\\_2016.pdf](http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf)

**Simultaneous determination of  $\gamma$ -hydroxybutyric acid, ibotenic acid and psilocybin in saliva samples by capillary electrophoresis coupled with a contactless conductivity detector**

**Saar-Reismaa, Piret; Kulp, Maria; Vaher, Merike; Kaljurand, Mihkel; Mazina-Šinkar, Jekaterina** *Analytical methods* 2017 / p. 3128-3133 : ill <http://dx.doi.org/10.1039/C7AY00742F>

**The development of a handheld automatic drugmeter for quantitative analysis of  $\gamma$ -hydroxybutyric acid**

**Ružička, Martin; Kaljurand, Mihkel; Gorbatšova, Jelena; Vaher, Merike; Halling, Evelin; Jaanus, Martin; Mazina-Šinkar, Jekaterina** *Flow Analysis XV*, Krakow, Poland, June 26 - July 1, 2022 : book of abstracts 2022 / p. 156 [Kogumik](#)

**Use of a newly-developed portable capillary electrophoresis analyser to detect drugs of abuse in oral fluid: A case study**

**Saar-Reismaa, Piret; Brilla, Chelsea-Ann; Leiman, Kristiina; Kaljurand, Mihkel; Vaher, Merike; Kulp, Maria; Mazina-Šinkar, Jekaterina** *Talanta* 2020 / art. 120662, 9 p <https://doi.org/10.1016/j.talanta.2019.120662> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Uued inimesed ja positsioonid**

**Koppel, Indrek; Mazina-Šinkar, Jekaterina; Soe, Ralf-Martin; Ošeka, Maksim; Kritševskaja, Marina; Reidolf, Merli; Laasmaa, Martin; Puura, Erik; Läänelaid, Mihkel; Hadzihasanovic, Amar** *Mente et Manu* 2023 / lk. 51-55 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)