

CURRICULUM VITAE

1. Full name

- Kauppila, Tiina Johanna
- Gender: Female
- Date: Jan 7th, 2019

2. Date and place of birth, nationality, current residence

- Date and place of birth: Jan 30, 1973, Jyväskylä, Finland
- Citizenship: Finland
- Current residence: Koroistenkuja 1 b 29, 00280 Helsinki, Finland
- Family: 2 children, born 2008 and 2010

3. Education and degrees awarded

- *Ph.D.*, University of Helsinki (UH), pharmaceutical chemistry, 17.12.2004, Subject of Thesis: "Atmospheric pressure photoionization-mass spectrometry", approved with distinction (highest grade) and awarded by two prizes (see Honors and awards)
- *M.Sc.*, UH, analytical chemistry, 22.9.1999
- Title of Docent (mass spectrometry), UH, 17.12.2009

Other education and training, qualifications and skills

- Leadership Programme for Academic Staff, UH 2014-2015
- Project management training for Researchers, UH 2015
- Esimiehen työkalupakki (Supervisor's toolbox) webinar, the Finnish Union of Experts in Science (LAL) 2016

5. Linguistic skills

- Mother tongue: Finnish
- Other languages: English: excellent, Spanish: excellent, Dutch: good, German: good, Swedish: good, Italian: satisfactory

6. Current position

- Research director 12/2018-, Finnish Institute for the Verification of the Chemical Weapons Convention (Verifin), Dept. of Chemistry, UH
- Research career phase: independent researcher

7. Previous work experience

- Forensic chemist/technical manager, 8/2017–12/2018, Crime Laboratory of the Finnish National Bureau of Investigation
- Head of Mass Spectrometry and Metabolomics unit, 1/2015–7/2017 / University Researcher, 4/2015–11/2018 Fac. of Pharmacy, Div. of Pharmaceutical Chemistry and Technology, UH
- Academy Research Fellow, UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry and Technology: 8/2008–3/2015 (Academy of Finland project #218150)
- Visiting scholar 10/2013–4/2014, 6–7/2015, 6–7/2016 (6+1.5+1.5 months), University of Wuppertal, Dept. of Physical and Theoretical Chemistry, Germany (group of Prof. Thorsten Benter)
- Acting professor of mass spectrometry 1-5/2013, UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry/Dept. of Chemistry, Laboratory of Analytical Chemistry
- Post-doctoral assistant 9/2006–7/2008, Post-doctoral researcher 11/2004–9/2006, Research scientist 12/2000–10/2002 and 10/2003–10/2004, UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry
- Post-doctoral research associate 10/2005–4/2006 (7 months), University of Purdue, Dept. of Chemistry, West Lafayette, IN, USA (group of Prof. R. Graham Cooks)
- Visiting research scientist, 2/2005–3/2005 (3 weeks) University of Purdue, Dept. of Chemistry, West Lafayette, IN, USA (group of Prof. R. Graham Cooks)

- Visiting research scientist, 10/2002–9/2003 (12 months), University of Groningen, Mass Spectrometry Core Facility, Groningen, the Netherlands (group of Dr. Andries Bruins)
- Forensic chemist, 8/1999–11/2000, Crime Laboratory of the Finnish National Bureau of Investigation
- Research assistant, 10/1998, cyanobacteria analysis research project of Professor Erkki Vuori
- Laboratory assistant, summers 1996, 1997, 1998 and 1999, UH, Dept. of Toxicology
- Undergraduate student, 8/1997–6/1998, research project at the University of Santiago de Compostela, Spain (ERASMUS exchange)
- Practical trainee, 10/15–12/15, 1996, Eötvös Lorand University, Budapest, Hungary (IAESTE traineeship)
- Career breaks: family leaves 3/2008–3/2009 and 10/2010–11/2011

8. Research funding, leadership and supervision

Research funding:

Personal funding (PI Doc. Kauppila):

- Academy of Finland project “Multidimensional data from complex samples using ambient ionization, mass spectrometry imaging and ion mobility spectrometry”, 440 000 €(2015–2018)
- HiLIFE Research Infrastructure funding for Viikki Mass Spectrometry and Metabolomics Laboratory, 50 000 €(2017)
- Academy of Finland Researcher mobility project: “Fundamental gas-phase chemistry in atmospheric pressure photoionization-mass spectrometry”, 16 700 €(2015–2016)
- Academy of Finland Academy Research Fellow project “Research and development of desorption ionization techniques for mass spectrometry”, 586 320 €(8/2008–3/2015)
- Academy of Finland Researcher mobility project: “The role of gas-phase ion clusters in atmospheric pressure ionization-mass spectrometry”, 17 560 €(2013–2014)
- CHEMSEM graduate school funding for Anu Vaikkinen: “Desorption ionization techniques for mass spectrometry”, 89 487 €(2011–2013)
- CHEMSEM graduate school funding for Riikka Räsänen: Applications of ion mobility spectrometry, 22 372 €(2012–2013)
- CIMO Fellowship for Mr. Kert Martma (MSc) “Development of desorption ionization-mass spectrometry imaging techniques for the study of biological tissues”, 7 200 €(2010–2011)
- Fellowship of the Research Foundation of the UH to cover a 1 year research visit to the University of Groningen, 13 500 €(2002–2003)
- Several travel grants from Magnus Ehrnrooth’s Foundation, Finnish Mass Spectrometry Society, the Finnish Chemical Society, and the Finnish Cultural Foundation, ~12 000 €(2003–2006)

Other related project funding:

- Tekes project “Microchip-based ionization methods for fast mass spectrometric analysis”, a cooperation project between UH (PI Doc. Raimo Ketola, project manager/writer of the application Doc. Tiina Kauppila) and Helsinki University of Technology (Prof. Sami Franssila), 250 000 €(2009–2010)

Leadership in research:

- PI at UH since 2009
- Title of Docent 2009
- Own project funding, including Academy Research Fellow position and an Academy project
- 24 corresponding author articles
- Supervisor of 2 post docs, 6 PhD students and 9 Master students

Supervision of post docs

- Dr. Anu Vaikkinen, 9/2015–
- Dr. Riikka Räsänen, 12/2017–

Experience as officially appointed supervisor to post-graduate students/doctoral students (6):

- Laura Luosujärvi, UH, Dept. of Chemistry 2010: Miniaturized mass spectrometric ionization techniques for environmental analysis and bioanalysis (secondary supervisor)
- Anu Vaikkinen, UH, Fac. of Pharmacy 2013: “Direct Open Air Surface Sampling/Ionization Mass Spectrometry Methods in the Study of Neutral and Nonpolar Compounds” (primary supervisor); awarded as the “Best Thesis of the Year 2013” by the Doctoral School of Pharmacy

- Riikka Räsänen, UH, Fac. of Pharmacy 2017: Ion mobility based separation techniques for the direct analysis of gaseous and solid samples and fundamental studies of gas phase reactions (primary supervisor)
- Jaakko Laakia, UH, Dept. of Chemistry 2017: Advanced separation techniques combined with mass spectrometry for difficult analytical tasks isomer separation and oil analysis (secondary supervisor)
- Juha-Pekka Hieta, UH, Fac. of Pharmacy (ongoing research, estimated time of graduation 2019): “Ambient mass spectrometry imaging of neutral and nonpolar compounds” (primary supervisor)
- Sami Huhtala, UH, Fac. of Pharmacy (ongoing research, estimated time of graduation 2018) Chemical profiling of illicit drugs using novel analytical and statistical methods (secondary supervisor)

9. Merits in teaching and pedagogical competence

- Pedagogical training: University pedagogy I, 2012, 10 credits

Supervision of 9 undergraduate students (research aiming for pro gradu)

- Terhi Nikkola, UH, Faculty of Pharmacy, 2006: Aivojen välittäjäaineiden analyysi ilmanpainekeemiallinen ionisaatio ja ilmanpainefotoionisaatio massaspektrometrialla
- Ville Arvola, UH, Faculty of Pharmacy, 2008: Desorptioilmanpainefotoionisaatio
- Risto Ihanus, UH, Department of Chemistry, 2010: Pinta-avusteiset laserdesorptioionisaatiotekniikat bio- ja ympäristöanalytiikassa
- Anu Flink, UH, Faculty of Pharmacy 2010: Huumaus- ja räjähdysaineiden analyysi desorptioilmanpainefotoionisaatiolla
- Henni Aalto, UH, Faculty of Pharmacy 2010: Lipidien analyysi desorptioilmanpainefotoionisaatiolla ja desorptiosähkösumutuksella
- Niina Kannela, UH, Faculty of Pharmacy 2012: Desorptioilmanpainefotoionisaatio pyörivältä levyltä
- Jarkko Mäkinen, UH, Faculty of Pharmacy 2013: Kuumennusputkisumuttimen käyttö mikro-ilmanpainefotoionisaatiossa
- Eliisa Vuori, UH, Department of Chemistry, 2012: Pintaionisaatiotekniikoiden hyödyntäminen lääkeaineiden massaspektrometrisessä analyysissä
- Juha Hannula, UH, Faculty of Pharmacy 2013: Transmissiodesorptioilmanpainefotoionisaatio metalliverkolta

Supervision of 6 Master of Science theses:

- Terhi Nikkola, UH, Faculty of Pharmacy, 2005: Aivojen välittäjäaineiden analyysi ilmanpainekeemiallinen ionisaatio ja ilmanpainefotoionisaatio massaspektrometrialla
- Ville Arvola, UH, Faculty of Pharmacy, 2007: Desorptioilmanpainefotoionisaatio
- Risto Ihanus, UH, Department of Chemistry, 2010: Pinta-avusteiset laserdesorptioionisaatiotekniikat bio- ja ympäristöanalytiikassa
- Henni Aalto, UH, Faculty of Pharmacy 2011: Lipidien analyysi desorptioilmanpainefotoionisaatiolla ja desorptiosähkösumutuksella
- Anu Flink, UH, Faculty of Pharmacy 2011: Huumaus- ja räjähdysaineiden analyysi desorptioilmanpainefotoionisaatiolla
- Niina Kannela, UH, Faculty of Pharmacy, 2013: Kortisolin kvantitatiivinen analyysi syljestä desorptioilmanpaine-fotoionisaatio-massaspektrometrialla
- Jarkko Mäkinen, UH, Faculty of Pharmacy 2014: Kuumennusputkisumuttimen käyttö mikro-ilmanpainefotoionisaatiossa

Reviewer of 5 Master of Science theses:

- Henni Aalto: Lipidien analyysi desorptioilmanpainefotoionisaatiolla ja desorptiosähkösumutuksella, UH, Fac. of Pharmacy 2011
- Anna Takala: Neurosteroidien analyysi virtsanäytteistä kaasukromatografia-ilmanpaine fotoionisaatio-tandem massaspektrometria -tekniikalla, UH, Fac. of Pharmacy 2012
- Elisa Ollikainen: Fosfopeptidien hapetusreaktiot titaanidioksidivalokatalyysissä, UH, Fac. of Pharmacy, 2013

- Niina Kannela: Kortisolin kvantitatiivinen analyysi syljestä desorptioilmanpaine-fotoionisaatio-massaspektrometrialla, UH, Fac. of Pharmacy, 2013
- Arttu Kallio: Nestekromatografia-massaspektrometria -menetelmä lääkeaineiden ja ympäristökemikaalien välisten metabolisten yhteisvaikutusten tutkimiseen, UH, Fac. of Pharmacy 2014

Other teaching experience:

- Supervisor of 4 Bachelor's essays at Faculty of Pharmacy, UH (Henni Aalto and Anniina Muona: Insuliinit, 2007; Anna Karlsson and Marika Karvonen: Triptaanit migreenin hoidossa, 2008; Eveliina Taavitsainen: Kantasoluterapia neurodegeneratiivisten sairauksien hoidossa, 2015; Jaakko Veräjänkorka: Massaspektrometrian yhdistäminen ohutkerroskromatografiaan suorilla ionisaatiotekniikoilla, 2016)
- Supervisor at the Laboratory Course for Pharmaceutical Chemistry Nov 27–Dec 22, 2006; Nov 26–Dec 21, 2007; Nov 16–Dec 11 2015 and Feb 8–Mar 4th, 2016
- Supervisor at the laboratory practice for Bioanalysis course Oct 30–Nov 3, 2006 and Oct 26–Nov 1, 2007
- Supervisor at the laboratory practice for Metabolism Analysis course Nov 20–Dec 1, 2003 and Nov 24–Dec 2, 2004
- Supervisor of the laboratory practice of Structure Analysis course Oct 24, 2003, Oct 26, 2004, Oct 6, 2006 and Oct 5, 2007
- Small group supervisor at Analytics-course Nov 18, 2002–Jan 24, 2003
- Editor of the practice book for the Analytics-course 2003
- Responsible of the Pharmaceutical Chemistry Calculus -course 2007, 2008, 2010
- Teacher tutor at the Introduction to University Studies course, 2007
- Supervisor of laboratory demonstrations of the Division of Pharmaceutical Chemistry, Sep 2009
- Lecture "LC-MS-ionisaatiomenetelmät, niiden erityispiirteet ja vertailu" (45 min) at "LC-MS teoriassa ja käytännössä" -course organized by the Finnish Chemical Society, Helsinki, Mar 19, 2009
- Lecture "Desorption electrospray ionization and desorption atmospheric pressure photoionization-mass spectrometry in bioanalysis" at "Introduction to biological mass spectrometry" course organized by Helsinki Biomedical Graduate School, Helsinki Sep 23-24, 2009
- Lecture: "Ionization techniques in LC-MS" (90 min) at Bioanalysis course, organized by UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry, Sep 15, 2009 and Sep 15, 2010
- Lectures (6 hours) at "Mass Spectrometry" course organized by UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry, Jan-Feb 2010
- Lectures (6 hours) at "Mass Spectrometry" course organized by UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry, Jan-Feb 2012
- Lectures (6 hours) at "Mass Spectrometry" course organized by UH, Fac. of Pharmacy, Div. of Pharmaceutical Chemistry, Jan-Feb 2016
- Supervisor at the Analytical chemistry laboratory course organized by UH, Fac. of Pharmacy, in Feb 2012
- Member of the organization committee of a 2-day course in GC- and LC-MS (Uudet tuulet GC- ja LC-MS analytiikassa), Oct 16-17 2012 by the Finnish Chemical Society, Finnish Mass Spectrometry Society and Finnish Chromatography Society
- Lecture (45 min) "Liuottimen vaikutus ionisaatioon LC-MS:ssä", Uudet tuulet GC- ja LC-MS analytiikassa -course by the Finnish Chemical Society, Oct 2012
- Responsible teacher of "Mass spectrometry in environmental and bioanalysis", several lectures, UH, Jan-Mar 2013.
- Responsible teacher of "Micro- and nanotechnology in environmental and bioanalysis", several lectures and exercises, UH, Jan-Apr 2013.
- Responsible of "Rakenneanalytiikan harjoitustyöt", UH, Mar-Apr 2013.
- Responsible teacher of "Farmaseuttisen kemian harjoitustyöt I", UH, 2016 (laboratory course with lectures and group work)
- Lecture: "UV/VIS spectroscopy", UH, Sep 2013

- Lecture: “Photoionization mass spectrometry for the analysis of low polarity compounds” at Introduction to Biological Mass Spectrometry course, organized by Doctoral School of Integrative Life Sciences, UH, May 2014
- Lecture “ESI, APCI and APPI” (2 hours) at “Mass Spectrometry in Atmospheric Sciences and Environmental Analysis” -course organized by UH, Dept. of Chemistry and Dept. of Physics, Jan-Feb 2015

10. Awards, prizes and honours

- Award for the Best Thesis from the Graduate School in Pharmaceutical Research, 2005
- Award for the Best Thesis of Viikki BioCenter, 2005
- Article in Analyst on the list of “Cutting-edge Chemistry of 2007” by Royal Society of Chemistry (Kauppila, T.J.; Talaty, N.; Kuuranne, T.; Kotiaho, T.; Kostianen, R.*; Cooks, R.G.*: Rapid Analysis of Metabolites and Drugs of Abuse from Urine Samples by Desorption Electrospray Ionization-Mass Spectrometry. Analyst 2007, 132(9), 868–875)
- Article in Journal of Chromatography A nominated as one of the highly cited reviews of 2009 (Kostianen, R.; Kauppila, T.J.: Effect of Eluent on the Ionization Process in Liquid Chromatography-Mass Spectrometry. Journal of Chromatography A 2009, 1216(4), 685–699)
- Article in Analytica Chimica Acta chosen as feature article (Vaikkinen, A.; Kotiaho, T.; Kostianen, R.; Kauppila, T.J.*: Desorption Atmospheric Pressure Photoionization with PDMS as Extraction Phase and Sample Plate Material. Analytica Chimica Acta 2010, 682, 1-8)
- Invited journal cover: Kauppila, T.J.*; Flink, A.; Pukkila, J.; Ketola, R.A.: Analysis of nitrogen-based explosives with desorption atmospheric pressure photoionization-mass spectrometry. Rapid Communications in Mass Spectrometry 2016, 30(4) 467-475.
- The RCM Beynon Award 2016 for article by R-M. Räsänen, P. Dwivedi, F.M. Fernández* and T.J. Kauppila*: “Desorption Atmospheric Pressure Photoionization and Direct Analysis in Real Time Coupled with Travelling Wave Ion Mobility-Mass Spectrometry (DAPPI/DART-TWIM-MS)” Rapid Communications in Mass Spectrometry 2014, 2325–2336.
- ERC Starting Grant interview, 2013

11. Other academic merits

- Dissertation reviewer of the PhD thesis of Valerie Derpmann, University of Wuppertal, Germany, 2014: Development and Characterization of capillary Atmospheric Pressure Electron Capture Ionization (cAPECI)
- Dissertation reviewer of the Ph.D. thesis of Pekka Keski-Rahkonen, University of Eastern Finland, Faculty of Health Sciences, 2011: New Liquid Chromatography-Mass Spectrometry Assays for Drugs and Endogenous Compounds in Small-Volume Biological Samples
- Board member, Drug Research Program, Faculty of Pharmacy, UH, 2016-
- Thesis-committee member of Päivi Pöhö (MSc), 2014-
- Chairman of the Finnish Mass Spectrometry Society (2012-2015)
- National affiliate of the International Mass Spectrometry Foundation (IMSF, 2012-2015)
- Chairman of the organization committee and session chairman at the 13th Mass Spectrometry Symposium of the Finnish Mass Spectrometry Society at Tampere, Finland 2010
- Member of the organization committee and a session chairman at course “New developments in GC- and LC-MS ” by the Finnish Chemical Society, Finnish Mass Spectrometry Society and the Finnish Chromatography Society, Helsinki, Finland, 2012
- Member of the organization committee and a session chair for course and symposium “1st Biological Mass Spectrometry Symposium” by the Finnish Mass Spectrometry Society, FinnProt and Peptide Society, Tampere, Finland, 2015
- Session chair at the annual meeting of the German Mass Spectrometry Society (Deutsche Gesellschaft für Massenspektrometrie, DGMS), Wuppertal, Germany, 2015
- Invited talks at Photoionization Workshops of 62nd and 63rd ASMS Conferences on Mass Spectrometry and Allied Topics (Baltimore, MD 2014 and St. Louis, MO 2015)
- Invited talk at Annual meeting of the German Mass Spectrometry Society (Deutsche Gesellschaft für Massenspektrometrie, DGMS), Wuppertal, Germany, 2015

- Invited talk at the Nordic Scientific Forum by Agilent Technologies, Gothenburg, Sweden, 2016
- Invited talk at 21st International Mass Spectrometry Conference, Toronto, Canada, Aug 20-26, 2016.
- Invited presentation on research results (GC-API-MS) at Sciex (instrument company), Toronto, Canada, Aug 23rd, 2016
- Assistant editor of Finnish Mass Spectrometry book (Massaspektrometrian perusteet, Editors-in-Chief: R. Ketola, R. Kostiainen, T. Kotiaho and P. Vainiotalo, Hakapaino, Helsinki 2010)
- Reviewer of manuscripts for scientific journals: (22 for Journal of Chromatography, 11 for Rapid Communications in Mass Spectrometry, 8 for Analytical Chemistry, 5 for Journal of the American Society for Mass Spectrometry, 4 for Analytica Chimica Acta, 3 for Journal of Mass Spectrometry, 3 for Analytical Methods, 2 for Bioanalysis, 2 for European Journal of Mass Spectrometry, 2 for Drug Testing and Analysis, 1 for PLOS ONE, 1 for Chemosphere, 1 for International Journal of Environmental Analytical Chemistry, 1 for Fuel, 1 for Science and Justice)
- Participation in VAMAS interlaboratory study on DESI (VAMAS interlaboratory study for desorption electrospray ionisation mass spectrometry (DESI MS) intensity repeatability and constancy. Anal. Chem. 2014, 86(19), 9603-9611).
- Active member of the Finnish Mass Spectrometry Society (2001-) and the Finnish Chromatography Society (2001-)
- Member of the Quality and Safety Board of the Division of Pharmaceutical Chemistry and Technology (2016-)
- Vice member of the selection committee of the Faculty of Pharmacy (2011-)

12. Scientific and societal impact of research

For list of publications, see below.

Patents (1):

- Kostiainen, Risto; Kauppila, Tiina; Haapala, Markus; Pol, Jaroslav; Kotiaho, Tapio: Method and system for desorbing and ionizing chemical compounds from surfaces. U.S. Pat. 8,044,346, 2011.

Merits related to the application of research results:

- Extensive collaboration with the Crime Laboratory of the Finnish National Bureau of Investigation, resulted in the implementation of desorption atmospheric pressure photoionization technique at the Crime Laboratory and 4 peer-reviewed articles in international scientific journals

Merits in science communication and expert assignments in the media:

- A radio interview about the desorption atmospheric pressure photoionization (DAPPI) technique, *Swedish radio* (2010)
- The utilization of DAPPI technique in crime investigations was highlighted in the science section of *Helsingin Sanomat* as well in the following newspapers and magazines: *Tiede, Kemia-Kemi, Aamulehti, Kaleva, Verkkouutiset, Iltalehti* and *Keskisuomalainen* (2010)
- The nomination for the RCM Beynon award was highlighted at the *Kemia/Kemi* magazine (2016)

13. Positions of trust in society and other societal merits

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14. Other merits

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PUBLICATIONS

Publication statistics:

Articles in international, peer-reviewed journals:

52

- of which 19 as first author
- of which 24 as the corresponding author
- of which 5 invited review articles

Total citations to the above work	1758 (1486 without self-citations, citing articles 1088)
Average citations per item	34.47
Average citations per year	103.41
H-index	21
(From Web of Science: kauppila tj, 2002-2019)	

Accepted manuscripts (not yet in Web of Science)	1
Submitted manuscripts	1
Patents	1
Book chapters	6
Oral presentations in international conferences	9
Poster presentations in international conferences	35
Invited lectures at courses, national symposia, universities or other	17
Journal cover pictures	1

Thesis

Atmospheric Pressure Photoionization-Mass Spectrometry, University of Helsinki, Division of Pharmaceutical Chemistry, Finland, Oct 2004

Scientific articles in peer-reviewed journals (corresponding author marked with an asterisk)

- Bermejo-Barrera, P.; Moreda-Pineiro, A.; Moreda-Pineiro, J.; Kauppila, T.; Bermejo-Barrera, A.: Slurry Sampling for Electrothermal AAS Determination of Cadmium in Seafood Products. *Atomic Spectroscopy* 2000, 21(1), 5-9.
- Kauppila, T.J.; Kuuranne, T.; Meurer, E.C.; Eberlin, M.N.; Kotiaho, T.; Kostiainen, R.*: Atmospheric Pressure Photoionization-Mass Spectrometry (APPI-MS) – Ionization Mechanisms and the Effect of Solvent on the Ionization of Naphthalenes. *Analytical Chemistry* 2002, 74 (21), 5470-5479.
- Kauppila, T.J.; Kotiaho, T.; Bruins, A.P.; Kostiainen, R.*: Negative Ion Atmospheric Pressure Photoionization-Mass Spectrometry. *Journal of the American Society for Mass Spectrometry* 2004, 15, 203-211.
- Kauppila, T.J.; Kostiainen, R.; Bruins, A.P.*: Anisole, a New Dopant for Atmospheric Pressure Photoionization-Mass Spectrometry of Low Proton Affinity, Low Ionization Energy Compounds. *Rapid Communications in Mass Spectrometry* 2004, 18, 808-815.
- Kauppila, T.J.; Östman, P.; Marttila, S.; Ketola, R.; Kotiaho, T.; Franssila, S.; Kostiainen, R.*: Atmospheric Pressure Photoionization-Mass Spectrometry with a Microchip Heated Nebulizer. *Analytical Chemistry* 2004, 76, 6797-6801.
- Kauppila, T.J.; Kostiainen, R.; Bruins, A.P.*: Effect of the Solvent Flow Rate on the Ionization Efficiency in Atmospheric Pressure Photoionization Mass Spectrometry. *Journal of the American Society for Mass Spectrometry* 2005, 16 (8), 1399-1407.
- Kauppila, T.J.; Wiseman, J.M.; Ketola, R.A.; Kotiaho, T.; Cooks, R.G.*; Kostiainen, R.*: Desorption Electrospray Ionization Mass Spectrometry for the Analysis of Pharmaceuticals and Metabolites. *Rapid Communications in Mass Spectrometry* 2006, 20(3), 387-392.
- Kauppila, T.J.; Nikkola, T.; Ketola, R.A.; Kostiainen, R.*: Atmospheric Pressure Photoionization-Mass Spectrometry and Atmospheric Pressure Chemical Ionization-Mass Spectrometry in the Analysis of Neurotransmitters. *Journal of Mass Spectrometry* 2006, 41, 781-789.
- Kauppila, T.J.; Talaty, N.; Salo, P. K.; Kotiaho, T.; Kostiainen, R.*; Cooks, R.G.*: New Surfaces for Desorption Electrospray-Mass Spectrometry: Porous Silicon and Ultra-Thin Layer Chromatography Plates. *Rapid Communications in Mass Spectrometry* 2006, 20, 2143-2150.
- Pól, J.; Kauppila, T.J.; Haapala, M.; Saarela, V.; Franssila, S.; Ketola, R.; Kotiaho, T.; Kostiainen, R.*: Microchip Sonic Spray Ionization, *Analytical Chemistry* 2007, 79(9), 3519-3523.

11. Kauppila, T.J.; Talaty, N.; Kuورانne, T.; Kotiaho, T.; Kostiainen, R.*; Cooks, R.G.*: Rapid Analysis of Metabolites and Drugs of Abuse from Urine Samples by Desorption Electrospray Ionization-Mass Spectrometry. *Analyst* 2007, 132(9), 868-875. (*Selected to the list of "Cutting-edge Chemistry of 2007" by the Royal Society of Chemistry*)
12. Haapala, M.; Pól, J.; Saarela, V.; Arvola, V.; Kotiaho, T.; Ketola, R. Franssila, S.; Kauppila, T.J.*; Kostiainen, R.*: Desorption Atmospheric Pressure Photoionization. *Analytical Chemistry* 2007, 79(20), 7867–7872.
13. Luosujärvi, L.; Karikko, M.; Haapala, M.; Saarela, V.; Huhtala, S.; Franssila, S.; Kostiainen, R.; Kotiaho, T.; Kauppila, T.J.*: Gas chromatography-mass spectrometry of polychlorinated biphenyls using atmospheric pressure chemical ionization and atmospheric pressure photoionization microchips, *Rapid Communications in Mass Spectrometry* 2008, 22, 425-431.
14. Kauppila, T.J.*; Arvola, V.; Haapala, M. Pól, J.; Aalberg, L.; Saarela, V.; Franssila, S.; Kotiaho T.; Kostiainen, R.: Direct Analysis of Illicit Drugs by Desorption Atmospheric Pressure Photoionization, *Rapid Communications in Mass Spectrometry* 2008, 22, 979-985.
15. Kauppila, T.J.; Talaty, N.; Jackson, A.U.; Kotiaho, T.; Kostiainen, R.*; Cooks, R.G.*: Carbohydrate and Steroid Analysis by Desorption Electrospray Ionization Mass Spectrometry. *Chemical Communications* 2008, 23, 2674-2676.
16. Luosujärvi, L.; Arvola, V.; Haapala, M.; Pol J.; Saarela V.; Franssila S.; Kotiaho T.; Kostiainen R.; Kauppila T.J.*: Desorption and ionization mechanisms in desorption atmospheric pressure photoionization. *Analytical Chemistry* 2008, 80(19), 7460-7466.
17. Luosujärvi, L.; Laakkonen, U.-M.; Kostiainen R.; Kotiaho T.; Kauppila T.J.*: Analysis of Street Market Confiscated Drugs by Desorption Atmospheric Pressure Photoionization and Desorption Electrospray Ionization Coupled with Mass Spectrometry. *Rapid Communications in Mass Spectrometry* 2009, 23, 1401–1404.
18. Kostiainen, R.*; Kauppila, T.J.: Effect of Eluent on the Ionization Process in Liquid Chromatography-Mass Spectrometry. *Journal of Chromatography A* 2009, 1216(4), 685-699. (*Nominated "A Highly-cited Review of 2009" by the Journal of Chromatography*)
19. Luosujärvi, L.; Kanerva, S.; Saarela, V.; Franssila, S.; Kostiainen, R.; Kotiaho, T.; Kauppila, T.J.*: Environmental and food analysis by desorption atmospheric pressure photoionization–mass spectrometry. *Rapid Communications in Mass Spectrometry* 2010, 24(9), 1343-1350.
20. Sikanen, T.; Franssila, S.; Kauppila, T.J.; Kostiainen, R.; Kotiaho, T., Ketola, R.*: Microchip Technology in Mass Spectrometry. *Mass Spectrometry Reviews* 2010, 29(3), 351-391.
21. Pól, J.; Kauppila, T.J.; Franssila, S.; Kotiaho, T.; Kostiainen, R.*: Ionspray Microchip. *Rapid Communications in Mass Spectrometry* 2010, 24, 2584–2590.
22. Vaikkinen, A.; Kotiaho, T.; Kostiainen, R.; Kauppila, T.J.*: Desorption Atmospheric Pressure Photoionization with PDMS as Extraction Phase and Sample Plate Material. *Analytica Chimica Acta* 2010, 682, 1-8 (*Feature article*).
23. Kauppila, T.J.*; Flink, A.; Haapala, M.; Laakkonen, U.-M.; Aalberg, L.; Ketola, R.A.; Kostiainen, R.: Desorption atmospheric pressure photoionization-mass spectrometry in routine analysis of confiscated drugs. *Forensic Science International* 2011, [210](#), 206-212.
24. Suni, N.M.; Lindfors, P.; Laine, O.; Östman, P.; Ojanperä, I.; Kotiaho, T.; Kauppila, T.J.; Kostiainen, R.*: Matrix effect in the analysis of drugs of abuse from urine with desorption atmospheric pressure photoionization-mass spectrometry (DAPPI-MS) and desorption electrospray ionization-mass spectrometry (DESI-MS). *Analytica Chimica Acta* 2011, 699, 73-80.
25. Vaikkinen, A.; Haapala, M.; Kersten H.; Benter, T.; Kostiainen, R.; Kauppila, T.J.*: Comparison of direct and alternating current vacuum ultraviolet lamps in atmospheric pressure photoionization. *Analytical Chemistry* 2012, 84 (3), 1408–1415.

26. Vaikkinen, A.; Shrestha, B.; Kauppila, T.J.; Vertes, A.*; Kostianen, R.*: Infrared laser ablation atmospheric pressure photoionization mass spectrometry. *Analytical Chemistry* 2012, 84 (3), 1630–1636.
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Book chapters

1. Kostiainen, R.; Kauppila, T.: Liquid Chromatography-Atmospheric Pressure Photoionization-Mass Spectrometry. The Analysis of Steroids. Chapter in “Modern Methods for Lipid Analysis by Liquid Chromatography/Mass Spectrometry and Related Techniques”, Ed. W. C. Byrdwell, AOCS Press 2005, 1, 472–487.
2. Kauppila, T.J.; Kostiainen, R.: APPI interfacing and ionization for LC-MS, The Encyclopedia of Mass Spectrometry Volume 8: Hyphenated Methods: Principles and Instrumentation: Editor-in-Chief: Wilfried M.A. Niessen, Elsevier Science, Oxford 2006, p. 217–222.
3. Kauppila, T.J.; Kostiainen, R.: Dopant-Assisted Atmospheric Pressure Photoionization, the Encyclopedia of Mass Spectrometry Volume 6: Molecular Ionization, Editors-in-Chief: Michael L. Gross and Richard M. Caprioli, Elsevier Science, Oxford 2007, 223–228.
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5. Kauppila, T.J.; Vaikkinen, A.: Ambient Mass Spectrometry: Food and Environmental Applications. Chapter in “Fast Liquid Chromatography-Mass Spectrometry Methods in Food and Environmental Analysis” Editor-in-Chief: Oscar Núñez, Imperial College Press, London, 2015, p. 271–324.
6. Kauppila, T.J.: Desorption atmospheric photoionization. Chapter in “Ambient MS Techniques in Food and Environment” Editors-in-Chief Leo M.L. Nollet and Basil K. Munjanja, CRC Press, 2019, Boca Raton.

Patents

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Invited (international) conference talks

1. Kauppila, T., Kuuranne, T., Kotiaho, T.; Kostiainen, R.: Study of the Ionisation Mechanism in the Novel Atmospheric Pressure Photo Ionisation Mass Spectrometry (APPI-MS), 11th Nordic Conference on Mass Spectrometry, Loen, Norway, Aug 18–21, 2001.
2. Kauppila, T.J.; Pól, J.; Haapala, M.; Arvola, V.; Saarela, V.; Franssila, S.; Ketola, R.; Kotiaho, T.; Kostiainen, R.: Desorption Atmospheric Pressure Photoionization. 55th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN, June 3-7, 2007 (*invitation based on abstract*).
3. Kauppila, T.J.; Flink, A.; Laakkonen, U.-M.; Aalberg, L.; Ketola, R.A.: Desorption atmospheric pressure photoionization in routine analysis of confiscated drug samples, International Symposium on Drug Analysis, Antwerp, Belgium, Sep 21-24, 2010 (*invitation based on abstract*).
4. Kauppila, T.J.; Vaikkinen, A.; Haapala, M.; Suni, N.; Kotiaho, T.; Kostiainen, R.: Desorption atmospheric pressure photoionization-mass spectrometry. 29th Montreux Symposium on LC-MS, Montreux, Switzerland, November 7-9, 2012 (*invitation based on abstract*).
5. Räsänen, R.; Dwivedi, P.; Kotiaho, T.; Fernández, F.M.; Kauppila, T.J.: Desorption atmospheric pressure photoionization-mass spectrometry: Theory, applications and coupling with ion mobility spectrometry. 22nd International Conference on Ion Mobility Spectrometry. Boppard, Germany, July 21-26, 2013 (*invitation based on abstract*).

6. Kauppila, T.J.: It's not just about DART and DESI - ambient analysis by DAPPI. Photoionization workshop, 62nd ASMS Conference on Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014.
7. Kauppila, T.J.: Dopant-assisted atmospheric pressure ionization (DA-API). Annual meeting of the German Mass Spectrometry Society (Deutsche Gesellschaft für Massenspektrometrie, DGMS), Wuppertal, Germany, 1-4.3.2015.
8. Kauppila T.J.: Has photoionization reached its potential? Effect of the APPI ion source design on sensitivity. Photoionization workshop, 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, June 1-5, 2015.
9. Kauppila T.J.: Ionization techniques for atmospheric pressure ionization, Agilent Nordic Scientific Forum, Gothenburg, Sweden, March 10-11, 2016.
10. Kauppila T.J.; Hieta, J.-P., Vaikkinen, A.; Auno, S.; Räikkönen, H.; Haapala, M.; Kostiainen, R.: Laser ablation atmospheric pressure photoionization mass spectrometry imaging. Instrumentation and applications. 21st International Mass Spectrometry Conference, Aug 20-26, 2016, Toronto, Canada.
11. Räsänen, R.-M.; Dwivedi, P.; Fernández, F.M.; Kauppila, T.J.; Desorption atmospheric pressure photoionization and direct analysis in real time coupled with travelling wave ion mobility mass spectrometry. Beynon Award presentation at the 21st International Mass Spectrometry Conference, Aug 20-26, 2016, Toronto, Canada.
12. Kauppila T.J.: API experiences. Minisymposium at Sciex, Concord, Canada, Aug 23, 2016.
13. Kauppila, T.J.; Hieta, J.-P.; Auno, S.; Vaikkinen, A.; Haapala, M.; Räikkönen, H.: Laser ablation atmospheric pressure photoionization mass spectrometry imaging. Instrumentation and applications. OurCon IV, Oct 17-21, 2016, Ustron, Poland.

Poster presentations:

1. Kostiainen, R.; Kauppila, T. J.; Kotiaho, T.; Kuuranne, T.: Effect of Solvent on the Ionisation of Naphthalenes by Atmospheric Pressure Photoionization Mass Spectrometry (APPI-MS), 49th ASMS Conference on Mass Spectrometry and Allied Topics, Chicago, IL, May 27–31, 2001; XVI Helsinki University Congress of Drug Research, Helsinki, Finland, Jun 7–8, 2001.
2. Kauppila, T. J.; Kotiaho, T.; Kostiainen, R.: Negative Ion Atmospheric Pressure Photoionization Mass Spectrometry (APPI-MS), 50th ASMS Conference on Mass Spectrometry and Allied Topics, Orlando, FL, Jun 3–7, 2002.
3. Kauppila, T. J.; Kostiainen, R.; Bruins, A. P.: Effect of the Flow Rate on the Ionization Efficiency in the Atmospheric Pressure Photoionization Mass Spectrometry, 51st ASMS Conference on Mass Spectrometry and Allied Topics, Montreal, Canada, Jun 8–12, 2003; Groningen University Institute for Drug Exploration -conference, Groningen, the Netherlands, June 19, 2003; 16th International Society for Mass Spectrometry –kokous, Edinburgh, Scotland, Aug 31–Sep 5, 2003.
4. Kauppila, T. J.; Kostiainen, R.; Bruins, A. P.: Anisole, a New Dopant for Low Proton Affinity Analytes in Atmospheric Pressure Photoionization-Mass Spectrometry. 16th International Society for Mass Spectrometry Conference, Edinburgh, Scotland, Aug 31–Sep 5, 2003; Finnish Chemical Congress, Helsinki, Finland, Nov 11–13, 2003.
5. Kauppila, T. J.; Östman, P.; Marttila, S. J.; Ketola, R.; Kotiaho, T.; Franssila, S.; Kostiainen, R.: Atmospheric Pressure Photoionization-Mass Spectrometry with a Microchip Nebulizer. 52nd ASMS Conference on Mass Spectrometry and Allied Topics, Nashville, TN, May 23–27, 2004; Conference on Miniaturised Systems for Chemistry and Life Sciences. MicroTAS 2004. Malmö, Sweden, Sep 26–30, 2004; 21st Montreux LC/MS Symposium on Liquid Chromatography/ Mass Spectrometry and Related Topics, Montreux, Switzerland, Nov 10–12, 2004.

6. Kauppila, T. J.; Nikkola, T.; Ketola, R.; Kotiaho, T. Kostiainen, R.: Atmospheric Pressure Photoionization-Mass Spectrometry and Atmospheric Pressure Chemical Ionization-Mass Spectrometry in the Analysis of Neurotransmitters. 53rd ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 5–9, 2005; Pharmaceutical Sciences Fair and Exhibition, Nice, France, Jun 12–17, 2005.
7. Kauppila, T. J., Wiseman, J. M. Ketola, R. A., Kotiaho, T., Cooks, R. G., Kostiainen, R.: Desorption Electrospray Ionization Mass Spectrometry for the Analysis of Pharmaceuticals and Metabolites. Turkey Run Analytical Chemistry Conference, Turkey Run State Park, Marshall, IN, Nov 4–5, 2005.
8. Kauppila, T. J.; Talaty, N.; Salo, P.; Kotiaho, T. Kostiainen, R.; Cooks, R. G.: New Surfaces for Desorption Electrospray-Mass Spectrometry: Porous Silicon Chips and Ultra-Thin Layer Chromatography Plates. 54rd ASMS Conference on Mass Spectrometry and Allied Topics, Seattle, WA, May 28–Jun 1, 2006.
9. Pól, J.; Kauppila, T. J.; Haapala, M.; Saarela, V.; Franssila, S.; Ketola, R.; Kotiaho, T.; Kostiainen, R.: Microchip Sonic Spray Ionization. Microscale Bioseparation 2007, Vancouver, Canada, Jan 13–18, 2007.
10. Pól, J.; Kauppila, T.J.; Haapala, M.; Saarela, V.; Franssila, S.; Ketola, R.; Kotiaho, T.; Kostiainen, R.: Desorption Atmospheric Pressure Ionization. Microscale Bioseparation 2007, Vancouver, Canada, Jan 13–18, 2007.
11. Luosujärvi, L., Karikko, M.-M., Kauppila, T.J., Haapala, M., Saarela, V., Franssila, S., Ketola, R.A., Kostiainen, R. Kotiaho, T.: GC-microchip APCI-MS and GC-microchip APPI-MS methods for the analysis of PCBs. 55th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN, 3.-7.6.2007; 13th Nordic Conference on Mass Spectrometry, Savonlinna, Finland, Aug 28.-31, 2007.
12. Luosujärvi, L., Vähänissi, V., Franssila, S., Kostiainen, R., Kotiaho, T., Kauppila, T.J.: Metal thin films as sampling surfaces in desorption atmospheric pressure photoionization-mass spectrometry. 18th International Mass Spectrometry Conference, Bremen, Germany, Aug 30–Sep 4, 2009.
13. Lindfors, P.; Suni, N.; Östman, P.; Kauppila, T.; Ojanperä, I.; Kotiaho, T.; Kostiainen, R.: Desorption Atmospheric Pressure Photoionization in Bioanalysis. 18th International Mass Spectrometry Conference, Bremen, Germany, Aug 30–Sep 4, 2009.
14. Laakkonen, U-M., Kauppila T.J.: Desorption atmospheric pressure photoionization (DAPPI) in routine testing of confiscated drug samples, 5th European Academy of Forensic Science Meeting, Glasgow, UK, Sep 8-11, 2009.
15. Vaikkinen, A.; Kotiaho, T.; Kostiainen, R.; Kauppila, T.J.: Desorption atmospheric pressure photoionization with PDMS as in situ sample preparation method for DAPPI. 58th ASMS Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 23–27, 2010 and International Symposium on Drug Analysis, Antwerp, Belgium, Sep 21-24, 2010.
16. Aalberg, L.; Flink, A.; Laakkonen, U.-M.; Ketola, R.A.; Kauppila T.J.: Desorption atmospheric pressure photoionization (DAPPI) in routine testing of confiscated drug samples, The 34th International Symposium on Capillary Chromatography (ISCC), Riva del Garda, Italy, May 30–Jun 4, 2010.
17. Vaikkinen, A.; Haapala, M.; Kostiainen, R.; Kauppila, T.J.: Normaali-ilmanpaineessa tapahtuva desorptiofotoionisaatio DAPPI ja RF-lamppu – tehokas ionisaatio ja uudet DAPPI-liuottimet, 13th Mass Spectrometry Symposium of the Finnish Mass Spectrometry Society at Tampere, Finland, Sep 30-Oct 1, 2010 (oral presentation by Vaikkinen).
18. Flink, A.; Laakkonen, U-M.; Aalberg, L.; Ketola, R.A.: Kauppila, T.J.: Desorptioilmanpaineefotoionisaatio takavarikoitujen huumausaineiden tutkimuksessa, 13th Mass Spectrometry Symposium of the Finnish Mass Spectrometry Society at Tampere, Finland, Sep 30-Oct 1, 2010 (oral presentation by Flink).
19. Suni, N.M.; Aalto, H.; Kauppila, T.J.; Kostiainen, R.: Analysis of lipids with desorption atmospheric pressure photoionization-mass spectrometry (DAPPI-MS) and desorption electrospray ionization-mass

spectrometry (DESI-MS). Recent developments in pharmaceutical analysis, Pavia, Italy, Sep 21-24, 2011.

20. Vaikkinen, A.; Shrestha, B.; Vertes, A.; Kostianen, R.; Kauppila, T.J.: Simultaneous Ionization of Non-polar and Polar Compounds by Laser Ablation Electrospray Ionization with Heated Gas Jet. 60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver, Canada May 20-24, 2012; 19th International Mass Spectrometry Conference (IMSC), Kyoto, Japan, Sep 15-21, 2012.
21. Kauppila, T.J.; Flink, A.; Laakkonen, U.-M.; Aalberg, L.; Ketola, R.: Desorption atmospheric pressure photoionization-mass spectrometry for direct analysis of tetrahydrocannabinol from Cannabis sativa samples. 19th International Mass Spectrometry Conference, Kyoto, Japan, Sep 15-21, 2012.
22. Parshintsev, E.; Lamazere, I.; Ruiz-Jimenez, J.; Kauppila, T.; Hartonen, K.; Kotiaho, T.; Riekkola, M.-L.: Desorption atmospheric pressure photoionization-mass spectrometry for the determination of chemical composition of atmospheric aerosols. 19th International Mass Spectrometry Conference, Kyoto, Japan, Sep 15-21, 2012.
23. Yrjönen, T.; Matriskainen, O.; Kauppila, T.J.: Analysis of furanocoumarins from Peucedanum palustre by DAPPI-MS. Nordic Natural Products Conference, Turku, Finland, Jun 3-5, 2013.
24. Vaikkinen, A.; Shrestha, B.; Kostianen, R.; Vertes, A.; Kauppila, T.J.: Laser Ablation Atmospheric Pressure Photoionization Mass Spectrometry Imaging of Sage Leaves, 61st ASMS Conference in Mass Spectrometry and Allied Topics, Minneapolis, MN, June 9-13, 2013.
25. Vaikkinen, A.; Parshintsev, J.; Vrkoslav, V.; Cvačka, J.; Kostianen, R.; Kotiaho, T.; Riekkola, M.-L.; Kauppila, T.J.: Desorption atmospheric pressure photoionization-mass spectrometry for the direct analysis of atmospheric aerosols collected on quartz filters. 61st ASMS Conference in Mass Spectrometry and Allied Topics, Minneapolis, MN, June 9-13, 2013.
26. Räsänen, R.; Dwivedi, P.; Kotiaho, T.; Fernández, F.M.; Kauppila, T.J.: Desorption atmospheric pressure photoionization combined with ion mobility-mass spectrometry. 22nd International Conference on Ion Mobility Spectrometry, Boppard, Germany, July 21-26, 2013.
27. Räsänen, R.; Dwivedi, P.; Kotiaho, T.; Fernández, F.M.; Kauppila, T.J.: Desorption atmospheric pressure photoionization combined with travelling wave ion mobility-mass spectrometry. 14. Kansallinen massaspektrometriasyposium, Koli, 19-21.3.2014 (oral presentation by Räsänen).
28. Kauppila, T.J.; Kersten, H.; Benter, T.: Ionization of gaseous compounds in direct and dopant-assisted atmospheric pressure photoionization. 62nd ASMS Conference in Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014
29. Benter, T.; Kersten, H.; Kauppila, T.J.: Atmospheric pressure laser ionization with a novel highly sensitive atmospheric pressure ionization interface for gas chromatography-mass spectrometry. 62nd ASMS Conference in Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014.
30. Vaikkinen, A.; Kauppila, T.J.; Cvačka, J.; Kostianen, R.: Desorption atmospheric pressure photoionization-high resolution mass spectrometry fingerprinting of urinary steroids during pregnancy. 62nd ASMS Conference in Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014
31. Räsänen, R., Dwivedi, P.; Fernández, F.M.; Kauppila T.J.: Comparison of desorption atmospheric pressure photoionization and direct analysis in real time. 62nd ASMS Conference in Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014
32. Räsänen, R.; Yli-Kauhaluoma, J.; Kauppila, T.J.: Detection of betulin and its derivatives from birch using desorption atmospheric pressure photoionization. 20th International Mass Spectrometry Conference, Geneva, Switzerland, Aug 24-29, 2014
33. Haapala, M.; Teppo, J.; Ollikainen, E.; Kiiski, I.; Vaikkinen, A.; Kauppila, T.J.; Kostianen, R.; Desorption Capillary Photoionization. 1st Finnish Symposium on Biological Mass Spectrometry, Tampere, Apr 14-16, 2015 (oral presentation by Teppo).

34. Kauppila, T.J.; Kersten, H.; Benter, T.: Gas-phase nucleophilic substitution between nucleophiles and halogenated dopants in atmospheric pressure photoionization. 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, June 1-5, 2015.
35. Haapala, M.; Teppo, J.; Ollikainen, E.; Kiiski, I.; Vaikkinen, A.; Kauppila, T.J.; Kostainen, R.: Desorption capillary photoionization. 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, June 1-5, 2015.
36. Haack, A.; Kauppila, T.J.; Kersten, H.; Benter, T.: Ab initio studies on the mechanisms of *ipso*-substitution observed in DA-APPI. 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, June 5-9, 2016.
37. Kroll, K.; Polaczek, C.; Kauppila, T.J.; Vaikkinen, A.; Kersten, H.; Benter, T.: Development and Optimization of an inlet system for Desorption Atmospheric Pressure Photoionization – Mass Spectrometry (DAPPI-MS). 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, June 5-9, 2016.
38. Hieta, J.P.; Auno, S.; Vaikkinen, A.; Räikkönen, H.; Haapala, M.; Kauppila T.J.; Laser ablation atmospheric pressure photoionization (LAAPPI) for ambient mass spectrometry imaging of low polarity compounds in animal tissue. 21st International Mass Spectrometry Conference, Toronto, Canada Aug 20-26, 2016.
39. Kauppila, T.J.; Huhtala, S.; Laakkonen, U.-M.: European Association of Forensic Science (EAFS), Lyon, France, Aug 27-31, 2018.

Oral presentations at national symposia and e.g. university visits:

1. Kauppila, T.J.; Kuuranne, T. Kotiaho, T.; Kostainen, R.: Ilmanpainefotoionisaatio – uusi LC/MS ionisointitekniikka, The Finnish Chemical Congress, Helsinki, Finland, Nov 13–15, 2001.
2. Kauppila, T.J.; Kotiaho, T.; Kostainen, R.: Atmospheric Pressure Photoionization (APPI), A New Ionization Method for LC-MS, DDTC-seminar, University of Helsinki, Aug 13, 2002.
3. Kauppila, T.J.; Kotiaho, T.; Kostainen, R.: APP-ionisaation sovellukset, National Meeting of the Finnish Mass Spectrometry Society, Kuopio, Finland, Sep 11–13, 2002.
4. Kauppila, T.J.; Kotiaho, T.; Kostainen, R.: Atmospheric Pressure Photoionization (APPI), A New Ionization Method for LC-MS, University of Groningen, the Netherlands, Dec 11, 2002.
5. Kauppila, T.J.; Kostainen, R.; Bruins, A.P.: Effect of the Flow Rate on the Ionization Efficiency in APPI; University of Groningen, the Netherlands, Aug 6, 2004 and Sep 24, 2003.
6. Kauppila, T.J.; Kostainen, R.; Bruins A.P.: Studies with Atmospheric Pressure Photoionization-Mass Spectrometry (APPI-MS), DDTC-seminar, University of Helsinki, Mar 9, 2004.
7. Kauppila, T.J.; Kostainen, R.: Atmospheric Pressure Photoionization (APPI) – a New Ionization Method for LC/MS, University of Uppsala, Sweden, Apr 14, 2004.
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