



This is a draft version only. Do not submit to any funding organization. Only the final version from the History page can be submitted.

Protected when completed

Dr. Paul Michael Mayer

Correspondence language: English

Contact Information

The primary information is denoted by (*)

Address

Mailing (*)

Department of Chemistry and Biomolecular Sciences
University of Ottawa
10 Marie Curie
Ottawa Ontario K1N 6N5
Canada

Telephone

Work (*) 1-613-562 5800 extension: 6038

Email

Work (*) pmmayer@uottawa.ca



This is a draft version only. Do not submit to any funding organization. Only the final version from the History page can be submitted.

Protected when completed

Dr. Paul Mayer

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	No	No	Yes	No

Degrees

- 1994/10 Doctorate, Chemistry, University of Ottawa
- 1990/5 Bachelor's Honours, Chemistry, The University of Manitoba

User Profile

Research Specialization Keywords: gas phase ion chemistry

Employment

- 2012/7 - 2016/6 Department Chair
Chemistry and Biomolecular Sciences, University of Ottawa
Full-time, Professor
Tenure Status: Tenure
- 2012/6 - 2012/8 OBW Exchange Fellow
Chemistry, Science, Karlsruhe Institute of Technology
Full-time, Visiting Professorship, Professor
Tenure Status: Non Tenure Track
- 2010/3 - 2012/6 Visiting Professor
IRAP, Paul Sabatier, University of Toulouse
Full-time, Visiting Professorship, Professor
Tenure Status: Non Tenure Track
- 2010/6 - 2010/6 Visiting Professor
CHIMICA E TECNOLOGIE DEL FARMACO, Science, University of Rome "La Sapienza"
Full-time, Visiting Professorship, Professor
Tenure Status: Non Tenure Track
- 2003/7 - 2009/6 Associate Professor
Chemistry, University of Ottawa
Full-time, Associate Professor
Tenure Status: Tenure

1998/1 - 2003/6
 Assistant Professor
 Chemistry, University of Ottawa
 Full-time, Assistant Professor
 Tenure Status: Tenure

Research Funding History

Awarded [n=3]

2016/4 - 2021/3 Principal Applicant	Gas Phase Reaction Dynamics of Catalytic Systems, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Total Funding - 300,000 Portion of Funding Received - 300,000 Funding Competitive?: Yes
2014/4 - 2020/3 Principal Applicant	JLH Mass Spectrometry Facility, Grant Funding Sources: University of Ottawa IOF Total Funding - 220,000 Portion of Funding Received - 220,000 Funding Competitive?: Yes
2014/4 - 2020/3 Principal Applicant	JLH Mass Spectrometry Core Facility, Grant Funding Sources: University of Ottawa Core Facilities Total Funding - 170,000 Portion of Funding Received - 170,000 Funding Competitive?: Yes

Completed [n=16]

2018/11 - 2018/11 Principal Investigator	Beamtime at the Swiss Light Source, Grant Funding Sources: Paul Sherrer Institut Beamtime (days) at the SLS Total Funding - 6 Portion of Funding Received - 6 Funding Competitive?: Yes
2018/6 - 2018/6 Principal Investigator	Beamtime at the Swiss Light Source, Grant Funding Sources: Paul Sherrur Institut Beamtime (days) at the SLS Total Funding - 7 Portion of Funding Received - 7 Funding Competitive?: Yes
2017/10 - 2017/10 Principal Applicant	Beamtime days at the Swiss Light Source, Grant Funding Sources: Paul Sherrer Institut

Beamtime (days) at the SLS

Total Funding - 7

Portion of Funding Received - 7

Funding Competitive?: Yes

2016/4 - 2017/10
Principal Applicant

Deadly doses: deploying analytical chemistry to characterize fake medicines contributing to antimicrobial resistance, Grant

Funding Sources:

Bill and Melinda Gates Foundation

Grand Challenges Exploration Fund

Total Funding - 100,000

Portion of Funding Received - 100,000

Funding Competitive?: Yes

2016/2 - 2016/7
Principal Applicant

Improving hydrocarbon classification analysis for lubricant base oils, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Engage Grant

Total Funding - 25,000

Portion of Funding Received - 25,000

Funding Competitive?: Yes

2012/4 - 2016/3
Co-investigator

Tough on fakes, tough on crime: a multidisciplinary study of criminally falsified products that threaten public safety, Grant

Funding Sources:

Social Sciences and Humanities Research Council of Canada (SSHRC)

Insight Grant

Total Funding - 474,290

Portion of Funding Received - 1,000

Funding Competitive?: Yes

2011/4 - 2016/3
Principal Investigator

Gas Phase Ion Reaction Dynamics, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Discovery

Total Funding - 335,500

Portion of Funding Received - 100

Funding Competitive?: Yes

2015/10 - 2015/10
Principal Applicant

Beamtime days at the Swiss Light Source, Grant

Funding Sources:

Paul Sherrer Institute

Beamtime DAYS at the Swiss Light Source

Total Funding - 8

Portion of Funding Received - 100

Funding Competitive?: Yes

2014/10 - 2014/10
Principal Applicant

Beam time Days at CLIO, Grant

Funding Sources:

Centre Laser Infrarouge d'Orsay

Centre Laser Infrarouge d'Orsay

Total Funding - 4

Portion of Funding Received - 4

Funding Competitive?: Yes

2014/10 - 2014/10 Principal Applicant	Beamtime days at the Swiss Light Source, Grant Funding Sources: Paul Sherrer Institut Swiss Light Source Total Funding - 7 Portion of Funding Received - 7 Funding Competitive?: Yes
2010/5 - 2014/4 Principal Applicant	Mass Spectrometry Core Facilities, Grant Funding Sources: University of Ottawa Core Facilities -Non CFI IOF Total Funding - 100,000 Portion of Funding Received - 100,000 Funding Competitive?: Yes
2010/5 - 2014/3 Principal Applicant	Mass Spectrometry Core Facilities, Grant Funding Sources: University of Ottawa Core Facilities Total Funding - 180,000 Portion of Funding Received - 180,000 Funding Competitive?: Yes
2013/11 - 2013/11 Principal Applicant	Beam time Days at CLIO, Grant Funding Sources: Centre Laser Infrarouge d'Orsay Centre Laser Infrarouge d'Orsay Total Funding - 4 Portion of Funding Received - 4 Funding Competitive?: Yes
2011/9 - 2013/8 Principal Applicant	Gas phase chemistry of atomic metal anions, Grant Funding Sources: American Chemical Society Petroleum Research Fund Total Funding - 100,000 Portion of Funding Received - 100,000 Funding Competitive?: Yes
2013/3 - 2013/4 Principal Applicant	Beam time Days at the Swiss Light Source, Grant Funding Sources: Paul Sherrer Institut Swiss Light Source Total Funding - 9 Portion of Funding Received - 9 Funding Competitive?: Yes
2012/4 - 2013/3 Principal Applicant	Ion Trap Mass Spectrometer, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) RTI 1 Total Funding - 133,089 Portion of Funding Received - 133,089

Funding Competitive?: Yes

Student/Postdoctoral Supervision

Bachelor's Honours [n=20]

2019/9 - 2020/4 Principal Supervisor	Sean Overton (In Progress) , University of Ottawa Student Degree Expected Date: 2020/4 Thesis/Project Title: Ion mobility spectrometry to study glycoproteins Present Position: BSc student, University of Ottawa
2018/9 - 2018/12 Principal Supervisor	Jake Burner (Completed) , University of Ottawa Thesis/Project Title: Unimolecular reactions of amino-PAHs Present Position: BSc, uOttawa
2018/5 - 2018/8 Principal Supervisor	Lukas Lesniak (Completed) , University of Ottawa Thesis/Project Title: Unimolecular reactions of hydroxy-PAHs Present Position: Undergraduate, Physics, UOttawa
2017/6 - 2017/9 Principal Supervisor	Bethany Lowe (Completed) , University of York, England Thesis/Project Title: Unimolecular dissociation of methylpyrene ions Present Position: BSc Chemistry, University of York
2016/10 - 2017/8 Principal Supervisor	Jake Burner (Completed) , Univ of Ottawa Thesis/Project Title: Ion chemistry of nitro-PAHs Present Position: BSc student, uOttawa
2016/10 - 2017/4 Principal Supervisor	Jean-Philippe Dallaire Dumais (Completed) , University of Ottawa Thesis/Project Title: Unimolecular dissociation of proton-bound dimers Present Position: BSc UOttawa
2016/10 - 2017/4 Principal Supervisor	Haben Tesfu Dawit (Completed) , University of Ottawa Thesis/Project Title: Dual-electrospray for HDX reactions of proteins Present Position: BSc UOttawa
2016/9 - 2017/4 Principal Supervisor	Yardley Paige Cuthbert (Completed) , University of Ottawa Thesis/Project Title: Dissociation dynamics of substituted PAHs Present Position: BSc student uOttawa
2016/9 - 2017/4 Principal Supervisor	Kerolos Eisa (Completed) , University of Ottawa Thesis/Project Title: Dissociation dynamics of substituted PAHs Present Position: unknown
2016/6 - 2017/8 Principal Supervisor	Lukas Lesniak (Completed) , uOttawa Thesis/Project Title: Dissociation dynamics of substituted PAHs Present Position: BSc student, uOttawa
2016/5 - 2017/4 Principal Supervisor	Iden Djavani-Tabrizi (Completed) , uOttawa Thesis/Project Title: Dissociation dynamics of substituted PAHs Present Position: MSc. U of Toronto
2016/5 - 2016/8 Principal Supervisor	Bihac Mazigh (Completed) , uOttawa Thesis/Project Title: Dual electrospray for HDX of proteins Present Position: Dentistry school
2015/1 - 2015/4 Principal Supervisor	Emily Gee (Completed) , UOttawa Thesis/Project Title: reactions of Atomic Metal Anions Present Position: MSc, UOttawa

2014/9 - 2015/4 Principal Supervisor	Naomi Mattli-Lewis (Completed) , University of Ottawa Thesis/Project Title: dissociation of ionized squaric acid Present Position: BSc, UOttawa
2014/5 - 2014/8 Principal Supervisor	Iden Djavani-Tabrizi (Completed) , University of Ottawa Thesis/Project Title: Modelling the Dissociation of Metallocene Ions Present Position: MSc, U of Toronto
2014/1 - 2014/4 Principal Supervisor	Zachary John Comeau (Completed) , University of Ottawa Thesis/Project Title: Reactions of atomic metal anions Present Position: BSc, UOttawa
2013/1 - 2013/4 Principal Supervisor	Samuel MacDonnell (Completed) , University of Ottawa Thesis/Project Title: Generating Atomic Metal Anions Present Position: BSc, UOttawa
2012/9 - 2013/8 Principal Supervisor	Nick Zinck (Completed) , University of Ottawa Thesis/Project Title: Ion mobility mass spectrometry of proteins Present Position: MSc, York University
2012/9 - 2013/4 Principal Supervisor	Michal Plucinski (Completed) , University of Ottawa Thesis/Project Title: computational study of atomic metal anionic complexes Present Position: MSc, Dalhousie University
2012/5 - 2015/4 Principal Supervisor	Alicia Sit (Completed) , University of Ottawa Thesis/Project Title: Modeling the dissociation of gas-phase ions (she has been with my group for 2 years) Present Position: PhD, UOttawa Physics

Master's non-Thesis [n=3]

2017/5 - 2017/7 Principal Supervisor	Melissa Vieille (Completed) , Lycée Pierre Gilles de Gennes Thesis/Project Title: GC and GC-MS analysis of ethanol and vitamin C in fruit juice Present Position: BSc student, Lycée Pierre Gilles de Gennes
2013/4 - 2013/7 Principal Supervisor	Kevin Berland (Completed) , University of Blaise Pascal, France Thesis/Project Title: Energetics of the dissociation of cyclodextrin multimers in the gas phase (exchange student) Present Position: MSc, University of Blaise Pascal, France
2013/4 - 2013/9 Principal Supervisor	Milène Nghiem (Completed) , Pierre et Marie Curie, Paris Thesis/Project Title: Modelling the Dissociation of Polymer/amino acid ion complexes (exchange student) Present Position: MSc, Pierre et Marie Curie, Paris

Master's Thesis [n=10]

2019/9 - 2023/8 Principal Supervisor	Nick Zinck (In Progress) , University of Ottawa Thesis/Project Title: Unimolecular reactions of oxygenated PAH ions Present Position: MSc student, University of Ottawa
2018/1 - 2019/12 Principal Supervisor	Malick Diedhiou (In Progress) , uOttawa Thesis/Project Title: Unimolecular Chemistry of Hydrogenated PAHs Present Position: MSc student, uOttawa
2017/1 - 2019/12 Principal Supervisor	Norah Alotaibi (In Progress) , UOttawa Student Degree Expected Date: 2018/12 Thesis/Project Title: Development of a portable FT-IR for quality control of antibiotics Present Position: MSc student, uOttawa

2014/9 - 2016/8 Principal Supervisor	Shaan Rashid (Completed) , University of Ottawa Thesis/Project Title: Reactions in nanodroplets by dual-spray electrospray ionization Present Position: Regulatory Officer, Health Canada
2013/9 - 2015/6 Principal Supervisor	Peter Chen (Completed) , University of Ottawa Thesis/Project Title: Reactions of gas phase metaloporphyrins Present Position: MSc student, UOttawa
2013/9 - 2016/6 Principal Supervisor	Sabria Mohammad (Completed) , University of Ottawa Thesis/Project Title: Dissociation dynamics of PAH ions Present Position: MSc student, UOttawa
2012/9 - 2015/2 Principal Supervisor	Jenna Hamilton (Completed) , University of Ottawa Thesis/Project Title: Structure and Properties of Metal containing anionic complexes Present Position: GHS & Chemical Regulatory Scientist, ERA Environmental Management Solutions
2011/9 - 2014/1 Principal Supervisor	Jaleh Halvachizadeh (Completed) , University of Ottawa Thesis/Project Title: Reactions of gas-phase atomic metal anions, Present Position: Pharmacy Technician
2011/9 - 2013/12 Principal Supervisor	Jeffery Butson (Completed) , University of Ottawa Thesis/Project Title: Reactions of gas-phase atomic metal anions, Present Position: Technician for PetroCanada Lubricants
2011/9 - 2014/5 Principal Supervisor	Melanie Ouillette (Completed) , University of Ottawa Thesis/Project Title: Gas-phase reactions of PAH ions Present Position: Teachers college University of Ottawa

Doctorate [n=5]

2019/9 - 2022/8 Principal Supervisor	Bethany Lowe (In Progress) , University of Ottawa Thesis/Project Title: Atmospheric Free Radicals Present Position: PhD student, University of Ottawa
2013/9 - 2018/5 Principal Supervisor	Eduardo Solano (Withdrawn) , uOttawa Thesis/Project Title: Modeling CID mass spectra Present Position: in Columbia, withdrew for health reasons
2009/9 - 2014/9 Principal Supervisor	Justin Renaud (Completed) , University of Ottawa Thesis/Project Title: Gas Phase Reaction Dynamics of Non-covalent Polymer/substrate complexes Present Position: PDf, Agriculture Canada
2009/9 - 2014/9 Principal Supervisor	Brandi West (Completed) , University of Ottawa Thesis/Project Title: Chemistry of High Energy Processes in Gas-Phase Ions Present Position: PDF, uOttawa
2004/5 - 2013/5 Principal Supervisor	Eric Martineau (Completed) , University of Ottawa Thesis/Project Title: Modeling Protein and Polymer Mass Spectrometry Present Position: Instructor, CEGEP Montreal

Post-doctorate [n=3]

2017/3 - 2018/8 Principal Supervisor	Brandi West (Completed) , University of Ottawa Thesis/Project Title: Gas phase ion chemistry Present Position: Lecturer, Chemistry, uOttawa
2013/11 - 2015/8 Principal Supervisor	Barabara Francisco (Completed) , University of Ottawa Thesis/Project Title: Analytical uses for atomic metal anions Present Position: PDF UOttawa

2013/5 - 2014/10 Ameneh Gholami (Completed) , University of Ottawa
Principal Supervisor Thesis/Project Title: Ion mobility mass spectrometry of metalloporphyrin complexes
Present Position: Scientist, SCIEX Corp, Toronto

Event Administration

1999/8 - 2020/8 co-Chair, Annual Trent Conferences on Mass Spectrometry, Conference, 1999/8 - 2020/8
2002/12 - 2017/12 Scientific Organizing Committee, Lake Louise Tandem Mass Spectrometry Workshop, Conference, 2002/12 - 2017/12
2012/9 - 2016/8 Chair, 21st International Mass Spectrometry Conference, Conference, 2016/8 - 2016/8
2015/6 - 2015/6 Session Chair, 98th Canadian Chemistry Conference and Exhibition, Conference, 2015/6 - 2015/6
2010/9 - 2014/8 co-Chair, 22nd International Conference on Physical Organic Chemistry, Conference, 2014/8 - 2014/8

Editorial Activities

2014/9 - 2015/5 Guest Editor, Canadian Journal of Chemistry, Journal

International Collaboration Activities

2010/3 - 2020/1 Co-investigator, France
Active collaboration with Christine Joblin, Universite de Toulouse, on the ion chemistry of interstellar species. We develop joint projects and write papers together.
2007/3 - 2020/1 Co-investigator, Switzerland
Actively collaborate with Andras Bodi and Patrick Hemberger at the Swiss Light Source on ion chemistry projects involving iPEPICO.
2004/1 - 2020/1 Co-investigator, Italy
Active collaboration with Simonetta Fornarini at the University of Rome "La Sapienza" on ion chemistry projects. We have published a couple of papers together since we started working together.

Other Memberships

2013/1 - 2017/5 President, Canadian Society for Mass Spectrometry
2015/1 - 2016/12 VP Conference, International Mass Spectrometry Foundation

Presentations

1. Brandi West, Bethany Lowe, Jake Burner, Lukas Lesniak, Malick Diedhiou. (2019). Reaction Dynamics of Substituted PAH Ions. Australia/New Zealand Mass Spectrometry Society Conference, Auckland, New Zealand
Main Audience: Researcher
Invited?: No, Keynote?: Yes

2. (2019). Detective Stories in Mass Spectrometry. Queensland University of Technology, Brisbane, Australia
Main Audience: Researcher
Invited?: Yes, Keynote?: No
3. Brandi West, Bethany Lowe. (2018). The Unimolecular Dissociation of 1-Methylpyrene Cations: Why are 1-Methylenepyrene Cations Formed and Not a Tropylium-Containing Ion?. 22nd International Mass Spectrometry Conference, Florence, Italy
Main Audience: Researcher
Invited?: No, Keynote?: No
4. Brandi West, Alicia Sit, Sabria Mohamad, Eduardo Solano, Bethany Lowe. (2018). Reaction dynamics of ionized PAHs by iPEPICO spectroscopy. Canadian Society for Chemistry Conference and Exhibition, Edmonton, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
5. (2017). Reaction dynamics of ionized PAHs by iPEPICO and Collision spectroscopies. Wuhan University of Nationalities, Wuhan, China
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
6. (2017). Reaction dynamics of ionized PAHs by iPEPICO and Collision spectroscopies. Hong Kong Baptist University, Hong Kong, China
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
7. (2017). Reaction dynamics of ionized PAHs by iPEPICO and Collision spectroscopies. EPolm-3, Toulouse, France
Main Audience: Researcher
Invited?: Yes, Keynote?: No
8. (2017). Investigation of the unimolecular reactions of ionized polycyclic aromatic hydrocarbons. ICASS, Quebec City, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
9. (2017). Reaction dynamics of ionized PAHs by iPEPICO and Collision spectroscopies. Beijing Institute of Technology, Beijing, China
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
10. (2016). Reaction Dynamics of PAH ions. 21st IMSC, Toronto, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
11. (2016). Reaction Dynamics of PAHs: Overview and Challenges. Chemical Physics Symposium, Waterloo, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
12. (2016). Deadly doses: deploying analytical chemistry to characterize fake medicines contributing to antimicrobial resistance. Grand Challenges Annual Meeting, London, United Kingdom
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
13. Brandi West, Alicia Sit, Sabria Mohammad, Paul M Mayer: UOttawa Christine Joblin, Valerie Blanchet: Université de Toulouse/Bordeaux Andras Bodi, Patrick Hemberger: Paul Sherrer Institut. (2014). PAH ion fragmentation by iPEPICO spectroscopy. Photon Tools for Physical Chemistry, Beatenberg, Switzerland
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

14. Kevin Berland, Justin B. Renaud and Paul M. Mayer. (2014). Modeling the Dissociation of Cyclodextrin Dimer Ions and their Inclusion Complexes. American Society for Mass Spectrometry Conference, Baltimore, United States
Main Audience: Researcher
Invited?: No, Keynote?: No
15. Brandi West, Eduardo Solano, Alicia Sit, Paul M Mayer, Andras Bodi, Patrick Hemberger, Bálint Sztáray, Christine Joblin, Valerie Blanchet. (2014). Shining Light on the Dissociation of PAH Ions. Lake Louise Tandem Mass Spectrometry Workshop, Lake Louise, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
16. Brandi West, Alicia Sit, Sabria Mohammad, Paul M Mayer: UOttawa Christine Joblin, Valerie Blanchet: Université de Toulouse/Bordeaux Andras Bodi, Patrick Hemberger: Paul Sherrer Institut. (2014). PAH ion fragmentation and post-collision internal energy distributions. 20th International Mass Spectrometry Conference, Geneva, Switzerland
Main Audience: Researcher
Invited?: No, Keynote?: No
17. Ameneh Gholami, Oliver Hampe, Justin B. Renaud, Paul M. Mayer . (2013). Structure studies of Iron Porphyrine Complexes by Ion Mobility Mass Spectrometry . Lake Louise Tandem Mass Spectrometry Workshop, Lake Louise, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
18. Paul M. Mayer, Brandi J. West, Christine Joblin, Valerie Blanchet, Andras Bodi, Balint Sztaray. (2013). Dihydro Polycyclic Aromatic Hydrocarbons: Ionic Dissociation Mechanisms and Energetics. American Society for Mass Spectrometry Conference, Minneapolis, United States
Main Audience: Researcher
Invited?: No, Keynote?: No

Publications

Journal Articles

1. Burner, Jake*; West, Brandi*; Mayer, Paul**. (2019). What will photo-processing of large, ionized amino-substituted polycyclic aromatic hydrocarbons produce in the interstellar medium?. J. Phys. Chem. A. 123(24): 5027-5034.
Published
Refereed?: Yes
2. Lukas Lesniak*, Juana Salas*, Jake Burner*, Malick Diedhiou*, Maxi A Burgos Paci, Andras Bodi** and Paul M Mayer **. (2019). Trifluoroacetic Acid and Trifluoroacetic Anhydride Radical Cations Dissociate Near the Ionization Limit. J. Phys. Chem. A. 123: 6313-6318.
Published
Refereed?: Yes
3. Brandi J. West*, Lukas Lesniak* and Paul M. Mayer**. (2019). Why do large ionized polycyclic aromatic hydrocarbons not lose C₂H₂?. J. Phys. Chem. A. 123: 3569-3574.
Published
Refereed?: Yes
4. Malick Diedhiou*, Jake Burner*, Brandi J. West* and Paul M Mayer**. (2019). Structure Affecting Dissociation Energy in Polycyclic Aromatic Hydrocarbon Ions. Chem. Phys. Lett. 726: 93-98.
Published
Refereed?: Yes

5. Jake Burner,* Brandi West* and Paul M Mayer**. (2018). What Do We Expect from the Dissociation of Ionized Nitro-Substituted Polycyclic Aromatic Hydrocarbons in the Interstellar Medium?. *Int. J. Mass Spectrom.*434: 81-86.
Published
Refereed?: Yes
6. West, Brandi; Lowe, Bethany*; Mayer, Paul**. (2018). The unimolecular dissociation of 1-methylpyrene cations: why are 1-methylenepyrene cations formed and not a tropylium-containing ion?. *J. Phys. Chem A.* 122: 4730–4735.
Published
Refereed?: Yes
7. Brandi West, Sarah Rodriguez Castillo,* Alicia Sit,* Sabria Mohamad,* Bethany Lowe,* Christine Joblin, Andras Bodi and Paul M Mayer**. (2018). Unimolecular Reaction Energies for Polycyclic Aromatic Hydrocarbon Ions. *Phys. Chem. Chem. Phys.*20: 7195-7205.
Published
Refereed?: Yes, Open Access?: No
8. Alotaibi, Norah* Overton, Sean Curtis, Sharon Nickerson, Jason Attaran, Amir Gilmer, Sheldon Mayer, Paul**. (2018). Towards point-of-care drug quality assurance in developing countries: comparison of LC-UV and FT-IR quantitation of a small scale random sample of amoxicillin. *American Journal of Tropical Medicine & Hygiene.* 99: 477-481.
Published
Refereed?: Yes
9. Hazel Mumphansha, Jason W. Nickerson, Amir Attaran, Sean Overton, Sharon Curtis, Paul Mayer, M Dylan Bould**. (2017). An analysis of substandard propofol detected in use in Zambian anesthesia. *Anesthesia & Analgesia.* 125(2): 616-619.
Published
Refereed?: Yes
10. Shaan Rashid* and Paul M. Mayer**. (2017). Dual-electrospray synthesis: A method of studying unique coordination complexes in the gas phase. *Int. J. Mass Spectrom.*429: 107-114.
Published
Refereed?: Yes, Open Access?: No
11. S. Rashid,* A. Sit,* B. West* and P.M. Mayer**. (2017). Colliding the hydrocarbon building blocks of astrochemical polycyclic aromatic hydrocarbons with 8 keV He⁺ and H₂⁺ ions: luminescence from methane, acetylene, benzene and naphthalene. *Chem. Phys. Lett.*667: 129-136.
Published
Refereed?: Yes, Open Access?: No
12. J. Zhen, S. Rodriguez Castillo,* C. Joblin,** G. Mulas, H. Sabbah, A. Giuliani, L. Nahon, S. Martin, J.-P. Champeaux and P.M. Mayer. (2016). VUV Photo-processing of PAH Cations: Quantitative Study on the Ionization Versus Fragmentation Processes. *Astrophysical Journal.* 822: 113-121.
Published
Refereed?: Yes
13. J.W. Nickerson,** A. Attaran,** B.D. Westerberg, S. Curtis, S. Overton* and P M Mayer**. (2016). Fatal Bacterial Meningitis Possibly Associated with Substandard Ceftriaxone. *Morbidity and Mortality Weekly Report.* 64: 1375-1377.
Published
Refereed?: Yes, Open Access?: Yes
14. L.Liu, I. Siuda, M. R. Richards, J. Renaud,* E. N. Kitova, P. M. Mayer, D. P. Tieleman, T. L. Lowary and J. S. Klassen**. (2016). Structure and Stability of Carbohydrate–Lipid Interactions. Methylmannose Polysaccharide–Fatty Acid Complexes. *ChemBioChem.* 17: 1571-1578.
Published
Refereed?: Yes, Open Access?: No

15. E.A. Solano,* S. Mohamed* and P.M. Mayer**. (2016). Modeling collision energy transfer in APCI/CID mass spectra of naphthalene using thermal distributions. *J. Chem. Phys.*145: 164311.
Published
Refereed?: Yes
16. S. Rashid,* S. Overton,* B. Mazighi,# P. M. Mayer**. (2016). Dual-spray Hydrogen Deuterium Exchange (HDX) Reactions: A New Method of Probing Protein Structure. *Rapid Commun. Mass Spectrom.*30: 1505-1512.
Published
Refereed?: Yes
17. J. M. Butson*, S. Curtis and P.M. Mayer**. (2016). Electron transfer and Multi-Atom Abstraction Reactions between Atomic Metal Anions and NO, NO₂ and SO₂. *Chem. Phys. Lett.*651: 203-208.
Published
Refereed?: Yes, Open Access?: No
18. B. B. A. Francisco,\$ E. Gee,# J. Butson* and P. M. Mayer, **. (2016). Halide anions are formed from reactions between atomic metal anions and halogenated aromatic molecules. *J. Mass Spectrom.*51: 586-590.
Published
Refereed?: Yes
19. Halvachizadeh J,* Mungham A*, Mayer PM**. (2015). The Dehydrogenation of Alcohols and Hydrocarbons by Atomic Metal Anions. *Eur. J. Mass Spectrom.* . 21: 487-495.
Published
Refereed?: Yes
20. D. Staedter,* N. Thiré,* L. Polizzi,* Y. Mairesse,* P. M. Mayer** and V. Blanchet**. (2015). Femtosecond time-resolved Electronic Relaxation Dynamics in Tetrathiafulvalene. *J. Chem. Phys.*142: 194306.
Published
Refereed?: Yes, Open Access?: No
21. Eduardo A. Solano,* Paul M. Mayer**. (2015). A Complete Map of the Ion Chemistry of the Naphthalene Radical Cation? DFT and RRKM Modeling of a Complex Potential Energy Surface. *J. Chem. Phys.*143: 104305.
Published
Refereed?: Yes
22. Berland K,* Renaud J,* Mayer PM**. (2015). Utilizing ion mobility and tandem mass spectrometry to evaluate the structure and behaviour of multimeric cyclodextrin complexes. *Canadian Journal of Chemistry.* 93: 1313-1319.
Published
Refereed?: Yes
23. Trabelsi H*, Renaud J*, Herchi W, Boukhchina S, Mayer PM**. (2015). Triacylglycerols and aliphatic alcohols from fruits of three Tunisian Pistacia lentiscus populations. *Journal of the Science of Food and Agriculture.* 95: 2028–2032.
Published
Refereed?: Yes
24. West B,* Joblin C, Blanchet V, Bodi A, Sztáray B, Mayer PM**. (2014). Dynamics of Hydrogen and Methyl Radical Loss from Ionized Dihydro-Polycyclic Aromatic Hydrocarbons: A Tandem Mass Spectrometry and Imaging Photoelectron-Photoion Coincidence (iPEPICO) Study of Dihydronaphthalene and Dihydrophenanthrene. *The Journal of Physical Chemistry A.* 118(10): 1807-1816.
Published
Refereed?: Yes

25. West B*, Useli-Bacchitta F*, Sabbah H, Blanchet V, Bodi A, Mayer PM, Joblin C**. (2014). Photodissociation of Pyrene Cations: Structure and Energetics from C₁₆H₁₀⁺ to C₁₄⁺ and Almost Everything in Between. *The Journal of Physical Chemistry A*. 118(36): 7824-7831.
Published
Refereed?: Yes
26. Trabelsi H,* Renaud J,* Mayer PM,** Boukhchina S**. (2014). Triacylglycerol and Glycerophospholipid Identification and Accumulation During Ripening of *Pistacia lentiscus* L.(Lentisc) Fruit. *Journal of the American Oil Chemists' Society*. 91(7): 1189-1196.
Published
Refereed?: Yes
27. West B*, Sit A*, Mohamed S*, Joblin C, Blanchet V, Bodi A, Mayer PM**. (2014). Dissociation of the Anthracene Radical Cation: A Comparative Look at iPEPICO and Collision-Induced Dissociation Mass Spectrometry Results. *The Journal of Physical Chemistry A*. 118(42): 9870-9878.
Published
Refereed?: Yes
28. Butson JM*, Mayer PM**. (2014). Electron attachment to pentafluorophenol and pentafluoroaniline via reaction with atomic metal anions. *Chemical Physics Letters*. 614: 186-191.
Published
Refereed?: Yes
29. Arfaoui MO*, Renaud J*, Ghazghazi H, Boukhchina S,** Mayer PM. (2014). Variation in oil content, fatty acid and phytosterols profile of *Onopordum acanthium* L. during seed development. *Natural product research*. 28(24): 2293-2300.
Published
Refereed?: Yes
30. West B*, Sit A*, Bodi A, Hemberger P, Mayer PM**. (2014). Dissociative Photoionization and Threshold Photoelectron Spectra of Polycyclic Aromatic Hydrocarbon Fragments: An Imaging Photoelectron Photoion Coincidence (iPEPICO) Study of Four Substituted Benzene Radical Cations. *The Journal of Physical Chemistry A*. 118(47): 11226-11234.
Published
Refereed?: Yes
31. Gunenc A, Tavakoli H, Seetharaman K, Mayer PM, Fairbanks D, Hosseinian F**. (2013). Stability and antioxidant activity of alkylresorcinols in breads enriched with hard and soft wheat brans. *Food Research International*. 51(2): 571-578.
Published
Refereed?: Yes
32. Trabelsi H*, Renaud J*, Herchi W, Khouja M, Boukhchina S,** Mayer PM**. (2013). LC-ESI-QTOF-MS, MS/MS analysis of glycerophospholipid species in three Tunisian *Pistacia lentiscus* fruit populations. *Journal of the American Oil Chemists' Society*. 90(5): 611-618.
Published
Refereed?: Yes
33. Curtis S, Sztepanacz JL*, White BE*, Dyer KA*, Rundle HD**, Mayer PM**. (2013). Epicuticular compounds of *Drosophila subquinaria* and *D. recens*: identification, quantification, and their role in female mate choice. *Journal of chemical ecology*. 39(5): 579-590.
Published
Refereed?: Yes
34. Mayer PM,** Staedter D*, Blanchet V, Hemberger P, Bodi A. (2013). Comparing Femtosecond Multiphoton Dissociative Ionization of Tetrathiafulvene with Imaging Photoelectron Photoion Coincidence Spectroscopy. *The Journal of Physical Chemistry A*. 117(13): 2753-2759.
Published
Refereed?: Yes

35. Gunenc A, HadiNezhad M, Tamburic-Ilincic L, Mayer PM, Hosseinian F**. (2013). Effects of region and cultivar on alkylresorcinols content and composition in wheat bran and their antioxidant activity. *Journal of Cereal Science*. 57(3): 405-410.
Published
Refereed?: Yes
36. Renaud J*, Overton S*, Mayer PMM**. (2013). Energy and entropy at play in competitive dissociations: the case of uneven positional dissociation of ionized triacylglycerides. *Int. J. Mass Spectrom*. 353: 77-86.
Published
Refereed?: Yes