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Curriculum Vitae

SYLWIA PTASIŃSKA

CONTACT INFORMATION

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EDUCATION

2002-2004	Leopold-Franzens University of Innsbruck (LFUI), Ion and Applied Physics Institute, Innsbruck, Austria	Graduate student in physics
2001-2002	Maria Curie Sklodowska University (UMCS), Lublin, Poland	Graduate student in physics
1996-2001	Maria Curie Sklodowska University (UMCS), Lublin, Poland	Undergraduate student in physics

ACADEMIC DEGREES

24 May 2011	Habilitation "Controlling Bond Cleavage in DNA Analogues by Low Energy Electrons and Cold Plasmas"	Thesis in molecular physics, LFIU, Austria
23 Nov. 2004	Doctor of Natural Sciences "Low-energy electron interactions with biomolecules" under supervision of Prof. Tilmann D. Märk	Thesis in physics, LFIU, Austria
26 June 2001	Master of Science "Mass spectrometry of gaseous clusters" under supervision of Prof. Leszek Michalak	Thesis in physics, UMCS, Poland

EMPLOYMENT

2022-present	Professor of Physics	University of Notre Dame (ND), IN, USA
2016-2022	Associate Professor	ND, USA
2015 - 2017	Concurrent Assistant/Associate Professor in First Year of Studies	ND, USA
2013 - 2016	Tom and Carolyn Marquez Assistant Professor of Biophysics	ND, USA
2010-2013	Assistant Professor	ND, USA
2010 - present	Notre Dame Radiation Laboratory Faculty Member	ND, USA
2008-2011	Guest Professor	LFUI, Innsbruck, Austria
2007-2010	Independent Post-doctoral Fellow	Open University, Milton Keynes, UK

2006	Post-doctoral Fellow	University of Sherbrooke, Canada
2005	Post-doctoral Fellow	LFUI, Austria
2002-2004	Research Assistant	LFUI, Austria
2002	Physics Shows	UMCS, Poland

AWARDS AND HONOROS

- Director of Graduate Admissions (Department of Physics and Astronomy) (2024-present)
- Editor board: Nature's Scientific Reports (2023-present)
- Editor in Chief of the European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics: 2020-2025
- Kaneb Center Faculty Fellow (2019-2020)
- 2019 Rev. Edmund P. Joyce, C.S.C., Awards for Excellence in Undergraduate Teaching
- Editorial Board of Multidisciplinary Digital Publishing Institute (MDPI) journal: Plasma, 2017-2020
- Editorial Board of the European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics: 2015-2025
- College of Science Teaching Initiative, 2014
- Faculty Research Scholarship Program (FRSP) Initiation Grant, 2014
- Tom and Carolyn Marquez Assistant Professorship, 2013-2016
- Edison Innovation Award, 2013
- US member of COST Action: Nano-IBCT (Nano-Ion Beam Cancer Therapy) 2010 - 2014
- SIT Travel Award for the Annual Meeting of the Radiation Research Society, 2009, 2007, 2006, 2005
- 3rd Poster Prize, 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
- Award of Dr. Maria Schaumayer Foundation for the PhD thesis (Stiftungspreise und Förderpreise zur Unterstützung von Frauenkarrieren), 2005
- Award of Polish Vacuum Society for the best master thesis, 2002.

PROFESSIONAL MEMBERSHIPS

Society of Catholic Scientists (since 2016)
American Association of Physics Teachers (since 2011)
American Vacuum Society (since 2011)
American Physics Society (since 2010)
Radiation Research Society (2006-2010)
Polish Vacuum Society (since 2001)

PUBLICATION LIST (h-index = 38 @Web of Science, = 43 @Google Scholar)

Refereed *(reverse chronological order):*

1. A. Paul, D.S. Slaughter, S. Ptasinska, D. Nandi, I. Carmichael, J.D. Gorfinkiel, D. Chakraborty - *Fragmentation dynamics through geometrical distortion in low-energy electron attachment to carbon disulfide.* Physical Review A 111 (2025) 042804
2. J. Finley, G. Kharchilava, I. Carmichael, D. Chakraborty, S. Ptasinska - *Dissociation of gas-phase anisole induced by low-energy electron interactions: understanding patterns of aromatic bond cleavage*. Physica Scripta 100 (2025) 045402
3. J. Chen, D. Chakraborty, M. Oncak, S. Ptasinska, S. Denifl - *Low-energy Electron Driven Reactions in 2-Bromo-5-Nitrothiazole.* Journal of Chemical Physics 162 (2025) 044304

4. C.J.G. Villavicencio, B.C. Silva, A. Matara, S. Ptasinska - *Exploring pH Dynamics in Amino Acid Solutions Under Low-Temperature Plasma Exposure.* Molecules *29* (2024) 5889
5. A. Sebastian, F. Ducrozet, C. Sicard-Roselli, S. Ptasinska - *Assessing solvated electron uptake in low-temperature plasma-exposed solutions as a pathway to quantifying plasma electrons.* Journal of Chemical Physics 161 (2024) 204301
6. B.A. Chen, A.J.E. Rowberg, T.A. Pham, T. Ogitsu, P.V. Kamat, S. Ptasinska - *Reactivity of Sulfur Vacancy-Rich MoS_2 to Water Dissociation.* Journal of Physical Chemistry C 128 (2024) 10379-10387
7. B.A. Chen, A. Kipkorir, S. Ptasinska, P.V. Kamat. *Intercalation of quaternary ammonium cations as a key factor of electron storage in MoS_2 thin films.* Applied Physics Reviews 11 (2024) 021425
8. D. Chakraborty, G. Kharchilava, I. Carmichael, S. Ptasinska - *Dissociative electron attachment studies of gas-phase acetic acid using a velocity map imaging technique.* Journal of Physics B: Atomic, Molecular and Optical Physics 56 (2024) 245202
9. B.A. Chen, N.L. Dominique, A. Kipkorir, J.P. Camden, S. Ptasinska, P.V. Kamat - *From Light to Dark: Dancing with Electrons in Colloidal 2D MoS_2 Nanosheets*. Journal of Physical Chemistry Letters 15 (2024) 4920-4927
10. F. Ducrozet, A. Sebastian, C.J. Garcia Villavicencio, S. Ptasinska, C. Sicard-Roselli - *Quantifying Hydroxyl Radicals Generated by a Low-Temperature Plasma using Coumarin: Methodology and Precautions*. Physical Chemistry Chemical Physics 26 (2024) 8651-8657
11. J. Wang, T. Musall, B.A. Chen, M. Gerges, L. Riney, S. Ptasinska, X. Liu, B.A. Assaf - *Evidence of indium impurity band in superconducting (Sn, In) Te thin films.* Physical Review B 109 (2024) 014513
12. A. Paul, I. Carmichael, D. Nandi, S. Ptasinska, D. Chakraborty - *Structural rearrangements and fragmentation pathways induced by a low-energy electron attachment to ethyl acetate.* Physical Review A 109 (2024) 042818
13. D. Chakraborty, D.S. Slaughter, S. Ptasinska - *Dynamics of resonant low-energy electron attachment to ethanol-producing hydroxide anions*. Physical Review A, 108 (2023) 052806
14. J. Vujin, W. Huang, J. Ciganović, S. Ptasinska, R. Panajotović - *Direct Probing of Water Adsorption on Liquid-Phase Exfoliated WS_2 Films Formed by the Langmuir–Schaefer Technique*. Langmuir 39 (2023) 8055
15. X. Zhang, B.C. Wood, A.J.E. Rowberg, T.A. Pham, T. Ogitsu, J. Kapaldo, S. Ptasinska, *Kinetically versus thermodynamically controlled factors governing elementary pathways of GaP (111) surface oxidation*. Journal of Power Sources 560 (2023) 232663
16. A. Sebastian, D. Lipa, S. Ptasinska - *DNA Strand Breaks and Denaturation as Probes of Chemical Reactivity versus Thermal Effects of Atmospheric Pressure Plasma Jets.* ACS Omega 8 (2023) 1663–1670
17. S. Ptasinska, M.T.N. Varella, M.A. Khakoo, D.S. Slaughter, S. Denifl - *Electron scattering processes: fundamentals, challenges, advances, and opportunities.* European Physical Journal D 76 (2022) 179
18. A. Sebastian, D. Spulber, A. Lisouskaya, S. Ptasinska - *Revealing low-temperature plasma efficacy through a dose-rate assessment by DNA damage detection combined with machine learning models*. Scientific Reports 12 (2022) 18353
19. E. Alizadeh, D. Chakraborty, S. Ptasińska - *Low-Energy Electron Generation for Biomolecular Damage Inquiry: Instrumentation and Methods.* Biophysica 2 (2022) 475-497
20. D. Danilovic, A. Milosavljevic, P. Sapkota, R. Dojcilovic, D. Tosic, N. Vukmirovic, M. Jocic, V. Djokovic, S. Ptasinska, D. Bozanic, Dusan - Electronic Properties of Silver-Bismuth Iodide Rudorffite Nanoplatelets. Journal of Physical Chemistry C 126 (2022) 13739
21. B.A. Chen, S. Ptasinska, P.V. Kamat - Metal Cocatalyst Dictates Electron Transfer in Ag-Decorated MoS_2 Nanosheets. Journal of Physical Chemistry C 126 (2022) 11907
22. S. Ptasinska - *A Missing Puzzle in Dissociative Electron Attachment to Biomolecules: The*

Detection of Radicals. Atoms 9 (2021) 77

23. H.A. Suarez-Moreno, L. Eckermann, F. Zappa, E. Arthur-Baidoo, S. Ptasinska, S. Denifl - *Electron ionization of clusters containing the formamide molecule*. European Physical Journal D 75 (2021) 1-11
24. E. Alizadeh, S. Ptasinska - *Recent Advances in Plasma-Based Cancer Treatments: Approaching Clinical Translation through an Intracellular View*. Biophysica 1 (2021) 48-72
25. V. Samara, Y. Sutton, N. Braithwaite, S. Ptasinska - *Acoustic characterization of atmospheric-pressure dielectric barrier discharge plasma jets.* European Physical Journal D 74 (2020) 169
26. R.D. Neal, R.A. Hughes, P. Sapkota, S. Ptasinska, S. Neretina - *Effect of Nanoparticle Ligands on 4-Nitrophenol Reduction: Reaction Rate, Induction Time, and Ligand Desorption.* ACS Catalysis 10 (2020) 10040–10050
27. S. Banerjee, E. Adhikari, P. Sapkota, A. Sebastian, S. Ptasinska - *Atmospheric Pressure Plasma Deposition of TiO_2: A Review*. Materials 13 (2020) 2931
28. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, E. Alizadeh, S. Ptasinska - *Large-Scale Image Analysis for Investigating Spatio-Temporal Changes in Nuclear DNA Damage Caused by Nitrogen Atmospheric Pressure Plasma Jets.* International Journal of Molecular Sciences 21 (2020) 4127
29. J. Ameixa, E. Arthur-Baidoo, J. Pereira-da-Silva, M. Ryszka, I. Carmichael, L.M. Cornetta, M.T. do N. Varella, F. Ferreira da Silva, S. Ptasińska, S. Denifl - *Formation of resonances and anionic fragments upon electron attachment to benzaldehyde*. Physical Chemistry Chemical Physics 22 (2020) 8171-8181
30. X. Zhang, S. Ptasinska - *Dissociative adsorption of H_2O onto a Pt thin film in direct contact with GaN (0001): Effect of electronic communications between catalyst and a semiconducting support.* Applied Surface Science 516 (2020) 146127
31. X. Zhang, T.A. Pham, T. Ogitsu, B.C. Wood, S. Ptasinska - *Modulation of Surface Bonding Topology: Oxygen Bridges on OH-Terminated InP (001)*. Journal of Physical Chemistry C 124 (2020), 3196–3203
32. P. Sapkota, A. Aprahamian, K. Yu Chan, B. Frentz, K.T. Macon, S. Ptasinska, D. Robertson, K. Manukyan - *Irradiation-induced reactions at the $CeO_2/SiO_2/Si$ interface*. Journal of Chemical Physics 152, (2020) 104704
33. D. Danilović, D.K. Božanić, R. Dojčilović, N. Vukmirović, P. Sapkota, I. Vukašinović, V. Djoković, J. Bozek, Ch. Nicolas, S. Ptasinska, A.R. Milosavljević - *Aerosol Synthesis and Gas-Phase Photoelectron Spectroscopy of Ag-Bi-I Nanosystems*, Journal of Physical Chemistry C (2020)
34. D. Chakraborty, L. Eckermann, I. Carmichael, S. Ptasińska - Dissociative electron attachment to amide bond containing molecules: N-ethylformamide and N-ethylacetamide. Journal of Chemical Physics 153 (2020) 224306
35. J. Kapaldo, X. Han, S. Ptasinska - *Shielding-gas-controlled atmospheric pressure plasma jets: Optical emission, reactive oxygen species, and the effect on cancer cells.* Plasma Processes and Polymers, (2019) 1800169
36. Z. Li, M. Ryszka, M.M. Dawley, I. Carmichael, K.B. Bravaya, S. Ptasińska - *Dipole-Supported Electronic Resonances Mediate Electron-Induced Amide Bond Cleavage*. Physical Review Letters 122 (2019), 073002
37. Y. Pang, J. Yang, T.E. Curtis, S. Luo, D. Huang, Z. Feng, J.O. Morales-Ferreiro, P. Sapkota, F. Lei, J. Zhang, Q. Zhang, E. Lee, Y. Huang, R. Guo, S. Ptasinska, R.K. Roeder, T. Luo - *Exfoliated Graphene Leads to Exceptional Mechanical Properties of Polymer Composite Films.* ACS Nano 13 (2019), 1097-1106
38. S.A. Pshenichnyuk, I.I. Fabrikant, A. Modelli, S. Ptasińska, A.S. Komolov - *Resonance electron interaction with five-membered heterocyclic compounds: Vibrational Feshbach resonances and hydrogen atom stripping.* Physical Review A 100 (2019) 012708
39. X. Zhang, T. Ogitsu, B.C. Wood, T.A. Pham, S. Ptasinska - *Oxidation Induced Polymerization*

of InP Surface and Implications for Optoelectronic Applications. Journal of Physical Chemistry C 123 (2019), 30893

40. E.R. Adhikari, V. Samara, S. Ptasinska - *Total yield of reactive species originating from an atmospheric pressure plasma jet in real time.* Biological Chemistry 400 (2019) 93-100
41. X. Liu, S.K. Bac, P. Sapkota, C. Gorsak, X. Li, S. Dong, S. Lee, S. Ptasinska, J.K. Furdyna, M. Dobrowolska - *In situ annealing of $III_{1-x}Mn_x$ V ferromagnetic semiconductors.* Journal of Vacuum Science & Technology B 36 (2018) 02D102
42. T.A. Pham, X. Zhang, B.C. Wood, D. Prendergast, S. Ptasinska, T. Ogitsu - *Integrating ab initio simulations and X-ray photoelectron spectroscopy: towards a realistic description of oxidized solid/liquid interfaces.* Journal of Physical Chemistry Letters 9 (2018) 194-203
43. V. Samara, S. Ptasinska - *Interferometry of plasma bursts in helium atmospheric-pressure plasma jets.* Journal of Vacuum Science & Technology A 36 (2018) 04F402
44. A.R Milosavljevic, D. Bozanic, S. Sadh, N. Vukmirovic, R. Dojcilovic, P. Sapkota, W. Huang, J.D. Bozek, Ch. Nicolas, L. Nahon, S. Ptasinska - *Electronic Properties of Free-Standing Surfactant-Capped Lead Halide Perovskite Nanocrystals Isolated in Vacuo.* Journal of Physical Chemistry Letters 9 (2018) 3604-3011
45. E.R. Adhikari, V. Samara, S. Ptasinska - *Influence of O_2 or H_2O in a plasma jet and its environment on plasma electrical and biochemical performances.* Journal of Physics D-Applied Physics 51 (2018) 185202
46. Z. Li, I. Carmichael, S. Ptasinska - *Dissociative Electron Attachment induced Ring Opening in Five-Membered Heterocyclic Compounds.* Physical Chemistry Chemical Physics 20 (2018) 18271-18278
47. W. Huang, S. Sadhu, P. Sapkota, S. Ptasinska - *In situ identification of cation-exchange-induced reversible transformations of 3D and 2D perovskites.* Chemical Communications 54 (2018) 5879-5882
48. X. Zhang, Y.S. Chen, P.V. Kamat, S. Ptasinska - *Probing interfacial electrochemistry on a Co_3O_4 water oxidation catalyst using lab-based ambient pressure X-ray photoelectron spectroscopy.* Journal of Physical Chemistry C 122 (2018) 13894-13901
49. V. Kanzyuba, S. Dong, X. Liu, X. Li, S. Rouvimov, H. Okuno, H. Mariette, X. Zhang, S. Ptasinska, B.D. Tracy, D.J. Smith, M. Dobrowolska, J.K Furdyna - *Structural evolution of dilute magnetic (Sn, Mn) Se films grown by molecular beam epitaxy.* Journal of Applied Physics 121 (2017) 075301
50. A. Ribar, K. Fink, Z. Li, S. Ptasińska, I. Carmichael, L. Feketeová, S. Denifl - *Stripping off hydrogens in imidazole triggered by the attachment of a single electron.* Physical Chemistry Chemical Physics 19 (2017) 6406-6415
51. X. Zhang, Ch-G. Wang, W. Ji, S. Ptasinska - *Evolution of CH_3NO_2/Si interfacial chemistry under reaction conditions: a combined experimental and theoretical study.* Chemical Communications 53 (2017) 3342-3345
52. L.V. Trandafilovic, D.J. Jovanovic, X. Zhang, S. Ptasinska, M.D. Dramicanin, - *Enhanced photocatalytic degradation of methylene blue and methyl orange by ZnO:Eu nanoparticles.* Applied Catalysis B-environmental, 203 (2017) 740-752
53. Z. Li, A.R. Milosavljević, I. Carmichael, S. Ptasinska - *Characterization of Neutral Radicals from a Dissociative Electron Attachment Process.* Physical Review Letters 119 (2017) 053402
54. J. Yang, Y. Pang, W. Huang, S.K. Shaw, J. Schiffbauer, M.A. Pillers, X. Mu, S. Luo, T. Zhang, Y. Huang, G. Li, S. Ptasinska, M. Lieberman, T. Luo - *Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation.* ACS Nano 11 (2017) 5510-5518
55. M. Ryszka, E. Alizadeh, Z. Li, S. Ptasińska - *Low-energy electron-induced dissociation in gas-phase nicotine, pyridine, and methyl-pyrrolidine.* Journal of Chemical Physics 147 (2017) 094303
56. W. Huang, S. Sadhu, S. Ptasinska - *Heat-and Gas-Induced Transformation in $CH_3NH_3PbI_3$ Perovskites and Its Effect on the Efficiency of Solar Cells.* Chemistry of Materials 29 (2017)

8478-8485

57. J.D. Gorfinkiel, S. Ptasinska - Electron scattering from molecules and molecular aggregates of biological relevance. Journal of Physics B: Atomic, Molecular, Optical Physics (2017) 182001
58. W. Huang, J. Manser, P.V. Kamat, S. Ptasinska - *Evolution of Chemo-structural Composition and Photovoltaic Efficiency of CH3NH3PbI3 Perovskite under Ambient Conditions.* Chemistry of Materials 28 (2016) 303-3011
59. X. Zhang, S. Ptasinska - *Heterogeneous Oxygen-containing Species Formed via Oxygen or Water Dissociative Adsorption onto a Gallium Phosphide Surface.* Topics in Catalysis 59 (2016) 564-573
60. W. Huang, S. Ptasinska - *Functionalization of Graphene by Atmospheric Pressure Plasma Jet in Air or H_2O_2 environments.* Applied Surface Science 367 (2016) 160-166
61. M.A. Smialek, M.A. MacDonald, S. Ptasinska, L. Zuin, N.J. Mason – *Photoelectron and threshold valence spectra of Pyridine*. European Physical Journal D 70 (2016) 1-7
62. X. Zhang, S. Ptasinska – *Electronic and chemical structure of the H_2O/GaN(0001) interface under ambient conditions.* Scientific Reports 6 (2016) 24848
63. X. Zhang, S. Ptasinska - *High pressure Induced Pseudo-Oxidation of Copper Surface by Carbon Monoxide*. ChemCatChem 8 (2016) 1632 also appeared as a back cover
64. T. Jiang, X. Zhang, S. Vishwanath, X. Mu, V. Kanzyuba, D.A Sokolov, S. Ptasinska, D.B Go, H. Xing, T. Luo - *Covalent Bonding Modulated Graphene-Metal Interfacial Thermal Transport.* Nanoscale 8 (2016) 10993-11001
65. R. Panajotovic, S. Ptasinska, V. Lyamayev, K. Prince – *Low-energy electron damage of DPPC molecules – a NEXAFS study*. Radiation and Applications 1 (2016) 46-50
66. W. Huang, J.S. Manser, S. Sadhu, P.V Kamat, S. Ptasinska - *Direct Observation of Reversible Transformation of $CH_3NH_3PbI_3$ and NH_4PbI_3 Induced by Polar Gaseous Molecules.* Journal of Physical Chemistry Letters 7 (2016) 7 5068-5073
67. Z. Li, M.M. Dawley, I. Carmichael, S. Ptasińska - *Electron-Induced Fragmentation of Methylated Formamides*. International Journal of Mass Spectrometry 410 (2016) 36-46
68. K.P. Arjunan, A. Obrusník, B.T. Jones, L. Zajíčková, S. Ptasinska - *Effect of Additive Oxygen on the Reactive Species Profile and Microbicidal Property of a Helium Atmospheric Pressure Plasma Jet.* Plasma Processes and Polymers 13 (2016) 1087-1103
69. E.R. Adhikari, S Ptasinska - *Correlation between helium atmospheric pressure plasma jet (APPJ) variables and plasma induced DNA damage.* European Physical Journal D 70 (2016) 180
70. T.X.T. Sayle, F. Caddeo, X. Zhang, T. Sakthivel, S. Das, S. Seal, S. Ptasinska, D.C. Sayle - Structure–*Activity Map of Ceria Nanoparticles, Nanocubes, and Mesoporous Architectures.* Chemistry of Materials 28 (2016), 7287-7295
71. A.R. Milosavljević, W. Huang, S. Sadhu, S. Ptasinska - *Low-Energy Electron-Induced Transformations in Organolead Halide Perovskite*. Angewandte Chemie International Edition 128 (2016) 10237-10241
72. X. Zhang, S. Ptasińska - *Evolution of surface-assisted oxidation of GaAs (100) by gas-phase N_2O, NO, and O_2 under near-ambient pressure conditions.* Journal of Physical Chemistry C 119 (2015) 262-270
73. K.P. Arjunan, V.K. Sharma, S. Ptasinska - *Effects of Atmospheric Pressure Plasmas on Isolated and Cellular DNA – A Review.* International Journal of Molecular Sciences 16 (2015) 2971-3016
74. X. Zhang, S. Ptasinska - *Distinct and dramatic water dissociation on GaP (111) tracked by near ambient pressure XPS.* Physical Chemistry Chemical Physics 17 (2015) 3909-3918
75. M .A. Smialek, S. Ptasinska, J. Gow, S.V. Hoffman, N.J. Mason - *Radio- and photosensitization of DNA with compounds containing platinum and bromide atoms.* European Physical Journal D 69 (2015) 121(1-6)
76. O. Plekan, V. Feyer, A. Cassidy, V. Lyamayev, N. Tsud, S. Ptasinska, S. Reiff, R.G. Acres,

K.C. Prince - *Functionalisation and immobilisation of an Au(110) surface via uracil and 2-thiouracil anchored layer.* Physical Chemistry Chemical Physics 17 (2015) 15181-15192

77. M.M. Dawley, K. Tanzer, I. Carmichael, S. Denifl, S. Ptasinska - *Dissociative electron attachment to the gas-phase nucleobase hypoxanthine*. Journal of Chemical Physics 142 (2015) 215101
78. I. Tolbatov, P. Bartl, J. Yurkovich, P. Scheier, D.M. Chipman, S. Denifl, S. Ptasinska - *Monocarbon cationic cluster yields from N2/CH4 mixtures embedded in He nanodroplets and their calculated binding energies.* Journal of Chemical Physics 140 (2014) 034316(1-8)
79. X. Zhang, S. Ptasinska - *Dissociative Adsorption of Water on an H_2O/GaAs(100) Interface: In Situ Near-Ambient Pressure XPS Studies.* Journal of Physical Chemistry C 118 (2014) 4259-4266
80. M.M. Dawley, S. Ptasinska - *Dissociative electron attachment to gas-phase N-methylformamide*, International Journal of Mass Spectrometry 365-366 (2014) 143-151
81. X. Zhang, S. Ptasinska - *Growth of Silicon Oxynitride Films by Atmospheric Pressure Plasma Jet*. Journal of Physics D-Applied Physics 47 (2014) 145202(1-9)
82. X. Han, W.A. Cantrell, E.E. Escobar, S. Ptasinska – *Plasmid DNA Damage Induced by Helium Atmospheric Pressure Plasma Jet.* European Physical Journal D 68 (2014) 46(1-7)
83. M.A. Smialek, S. Ptasinska, J. Gow, C. DaPieve, N.J. Mason - *Radiosensitization of DNA in presence of Pt(II)-based compounds.* European Physical Journal D 68 (2014) 85(1-5)
84. O. Plekan, V. Feyer, S. Ptasinska, N. Tsud, K.C. Prince - *Cyclic dipeptide immobilization on Au(111) and Cu(110) surfaces.* Physical Chemistry Chemical Physics 16 (2014) 6657-6665
85. B. Bahnev, M.D. Bowden, A. Stypczyńska, S. Ptasinska, N.J. Mason, N.St.J. Braithwaite - *A novel method for the detection of plasma jet boundaries by exploring DNA damage.* European Physical Journal D 68 (2014) 140(1-5)
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88. F. Sun, T. Zhang, M.M. Jobbins, Z. Guo, X. Zhang, Z. Zheng, D. Tang, S. Ptasinska, T. Luo* – *Molecular Bridge Enables Anomalous Enhancement in Thermal Transport across Hard-Soft Material Interfaces.* Advanced Materials 26 (2014) 6093-6099
89. M.M. Dawley, K. Tanzer, W.A. Cantrell, P. Plattner, N.R. Brinkmann, P. Scheier, S. Denifl, S. Ptasinska - *Electron ionization of the nucleobases adenine and hypoxanthine near the threshold: a combined experimental and theoretical study*. Physical Chemistry Chemical Physics 16 (2014) 25039-25053
90. X. Han, Y. Liu, M.S. Stack, S. Ptasinska - *3D Mapping of plasma effective areas via detection of cancer cell damage induced by atmospheric pressure plasma jets.* Journal of Physics: Conference Series 565 (2014) 012011(1-6)
91. S. Jheeta, A. Domaracka, S. Ptasinska, B. Sivaraman, N. Mason - *The Irradiation of pure CH_3OH and 1:1 Mixture of NH_3:CH_3OH Ices at 30 K using Low Energy Electrons*. Chemical Physics Letters 556 (2013) 359-364
92. M. Klas, S. Ptasinska - *Characteristics of N_2 and N_2/O_2 atmospheric pressure glow discharges.* Plasma Sources Science & Technology 22 (2013) 025013(1-7)
93. X. Han, M. Klas, Y. Liu, S.M. Stack, S. Ptasinska – *DNA damage in oral cancer cells induced by nitrogen atmospheric pressure plasma jets.* Applied Physics Letters 102 (2013) 233703(1-5)
94. F. Ferreira da Silva, C. Matias, D. Almeida, G. García, O. Ingólfsson, H. Dögg Flosadóttir, B. Ómarsson, S. Ptasinska, B. Puschnigg, P. Scheier, P. Limão-Vieira, S. Denifl - *NCO^-, a Key Fragment Upon Dissociative Electron Attachment and Electron Transfer to Pyrimidine Bases:*

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99. F. Ferreira da Silva, S. Ptasińska, S. Denifl, D. Gschliesser, J. Postler, C. Matias, T. D. Märk, P. Limão-Vieira, P. Scheier - *Electron interaction with nitromethane embedded in helium droplets: attachment and ionization measurements.* Journal of Chemical Physics 135 (2011) 174504
100. S. Ptasińska, D. Gschliesser, P. Bartl, I. Janik, P. Scheier, S. Denifl - *Dissociative electron attachment to triflates,* Journal of Chemical Physics 135 (2011) 214309(1-6)
101. M. Dampc, B. Mielewska, M.R.F. Siggel-King, G.C. King, B. Sivaraman, S. Ptasińska, N. Mason, M. Zubek - *Threshold photoelectron studies of isoxazole over the energy range 9.9-30 eV.* Chemical Physics 367 (2010) 75-79
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103. S. Ptasińska, Z. Li, N.J. Mason, L. Sanche - *Damage to amino acid-nucleotide pairs induced by 1 eV electrons*. Physical Chemistry Chemical Physics 12 (2010) 9367-9371
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106. O. Plekan, V. Feyer, S. Ptasinska, N. Tsud, V. Chab, V. Matolin, K.C. Prince - *Photoemission Study of Thymidine Adsorbed on Au(111) and Cu(110).* Journal of Physical Chemistry C 114 (2010) 15036-15041
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112. M. Probst, N. Injan, S. Denifl, F. Zappa, I. Mähr, M. Beikircher, S. Ptasińska, J. Limtrakul, T. D. Märk, A. Mauracher, P. Scheier - *Calculation of Processes Relevant to Reactions Between Nucleic Acids and Free Electrons.* Chemical Engineering Communications 195 (2008) 1371-1381
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121. S. Ptasińska and L. Sanche – *Dissociative electron attachment to hydrated single DNA strands.* Physical Review E 75 (2007) 031915(1-5), also selected to Virtual Journal of Biological Physics Research 13 (2007)
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129. S. Ptasińska and L. Sanche – *On the mechanism of anion desorption from DNA induced by low energy electrons*. Journal of Chemical Physics 125 (2006) 144713, also selected to Virtual Journal of Biological Physics Research 12 (2006)
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131. S. Ptasińska, P. Limão-Vieira, S. Denifl, P. Scheier, T. D. Märk - *Electron attachment to monomeric and dimeric forms of glycolaldehyde.* Chemical Physics Letters 401 (2005) 227-231
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134. S. Ptasińska, S. Denifl, P. Scheier, T. D. Märk - *Electron impact ionization of glycolaldehyde.* International Journal of Mass Spectrometry 243 (2005) 171-176
135. A. Smolira, S. Ptasińska, M. Smolira, L. Michalak - *Matrix-assisted laser desorption/ionization detection of hemoglobin from long-stored samples of human blood.* Vacuum 78 (2005) 655-660
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139. S. Denifl, S. Ptasińska, B. Sonnweber, P. Scheier, D. Liu, F. Hagelberg, J. Mack, L. T. Scott, T. D. Märk - *Free-electron attachment to coronene and corannulene in the gas phase.* Journal of Chemical Physics 123 (2005) 104308(1-8)
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142. S. Denifl, S. Matejcik, S. Ptasinska, B. Gstir, M. Probst, P. Scheier, E. Illenberger, T.D. Märk - *Electron attachment to chlorouracil: a comparison between 6-ClU and 5-ClU.* Journal of Chemical Physics 120 (2004) 704-709
143. S. Denifl, S. Ptasinska, P. Scheier, T.D. Märk - *Electron impact ionization of 5- and 6-chlorouracil: appearance energies.* International Journal of Mass Spectrometry 232 (2004) 99-105
144. S. Denifl, S. Ptasinska, G. Hanel, B. Gstir, M. Probst, P. Scheier, T.D. Märk - *Electron attachment to gas-phase uracil.* Journal of Chemical Physics 120 (2004) 6557-6565
145. S. Ptasinska, S. Denifl, P. Scheier, T.D. Märk - *Inelastic electron interaction (attachment/ionization) with deoxyribose.* Journal of Chemical Physics 120 (2004) 8505-8511, , also selected to Virtual Journal of Biological Physics Research 7 (9) 2004
146. S. Denifl, S. Ptasinska, G. Hanel, B. Gstir, P. Scheier, M. Probst, B. Farizon, M. Farizon, S. Matejcik, E. Illenberger, T.D. Märk - *Electron attachment to uracil, thymine and cytosine*, Physica Scripta T 110 (2004) 252-255
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148. S. Denifl, S. Ptasinska, M. Cingel, S. Matejcik, P. Scheier, T.D. Märk - *Electron attachment to the DNA bases thymine and cytosine*. Chemical Physics Letters 377 (2003) 74-80
149. S. Ptasinska, S. Denifl, A. Abedi, P. Scheier, T.D. Märk - *Dissociative electron attachment to gas-phase glycine*. Analytical and Bioanalytical Chemistry 377 (2003) 1115-1119
150. S. Ptasińska, J. Dąbek, L. Michalak – *Formation of water dimers in expanding air flows*. Vacuum 70 (2003) 403-409
151. S. Ptasińska, A. Bajuk, L. Michalak – *Influence of potassium chloride on the MALDI detection process*. Vacuum 70 (2003) 439-445
152. S. Ptasińska, L. Michalak, M. Smolira – *Some aspects of the stability of ion current in a matrix-assisted laser desorption/ionisation source*. Rapid Communications in Mass Spectrometry 17 (2003) 917-923

Non-refereed:
Editorials:

1. C.A. Mayhew, Y. Chu, S. Ptasinska, E. Gruber, S. Denifl, P. Scheier - *From student to rector: the remarkable career of professor Tilmann Märk at the university of Innsbruck, Austria.* Physica Scripta 100 (2025) 060201
2. M.H.F. Bettega, S.J. Buckman, D. Marić, S. Ptasinska, R.D. White - *Electron and positron interactions and their applications: a tribute to Professor Michael Brunger*. European Physical Journal D 79 (2025) 16
3. A. Laricchiuta, I.E. Gordon, C. Hill, G. Colonna, S. Ptasinska - *Atomic and molecular data and their applications: ICAMDATA 2022.* European Physical Journal D 78 (2024) 1-3 Ptasinska, *Atmospheric Pressure Plasmas in Material Science.* Materials 14 (2021) 1963
4. S. Ptasinska, M.A. Śmiałek, A.R. Milosavljević, B. Sivaraman - *Low-energy interactions related to atmospheric and extreme conditions*. European Physical Journal D 71 (2017) 264

Other:

5. J. Dąbek, S. Ptasińska, L. Michalak- *The effect of carrier gas on formation of ammonia clusters.* Section AAA Physica vol. LVII (2002) 6

6. S. Ptasińska – *Spektrometria masowa klasterów gazowych*. VI National Vacuum Conference, Korbielów, Polska 2002, Prace Naukowe Politechniki Warszawskiej, Elektronika, 143 (2002) p. 65 (in Polish)
7. P. Scheier, S. Ptasinska, S. Denifl, P. Candori, M. Probst and T.D. Märk - *Inelastic interaction of low energy electrons with biologically relevant molecules.* 22nd Summer School and International Symposium on the Physics of Ionized Gases 2004: 2, L. Hadzievski (ed.), Vinca Inst. of Nuclear Sci, Belgrade, Serbia.
8. Y. Soo Park, H. Ah Noh, H. Cho, A. Dumont, S. Ptasinska, A.D. Bass, L. Sanche – *DNA damage by X-ray and low energy electron beam irradiation.* Journal of Radiation Protection, 33 (2008) 53 (in Korean)

BOOK CHAPTERS

1. S. Denifl, F. Zappa, A. Mauracher, I. Mähr, S. Ptasińska, M. Probst, E. Illenberger, T.D. Märk and P. Scheier - *Free Electron Attachment to Biomolecules: from Gas Phase to Clusters and Droplets.* COST P9 book
2. E. Alizadeh, S. Ptasinska, L. Sanche – *Transient Anions in Radiobiology and Radiotherapy: From Gaseous Biomolecules to Condensed Organic and Biomolecular Solids*. Radiation Effects in Materials (2016) InTech

GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS (while at ND)

2010-2024	US Department of Energy, (DE-FC02-04ER15533) Radiation Chemistry and Photochemistry in the Condensed Phase and at Interfaces (principal investigator (PI), lead PI: I. Carmichael)
2019	Plasma Science and Engineering at ND and PUC: A Workshop to Launch Interdisciplinary Collaborations with Pontificia Universidad Católica de Chile (PUC), Santiago, Chile (PI: David Go, Co-PI)
2017	Luksburg Foundation Collaboration Grants, Efficacy of copper-based oxide materials involved in energy-related processes" with Pontificia Universidad Católica de Chile (PUC), Santiago, Chile, PI, Co-PI: Alejandro Cabrera
2017	Greater China Collaboration Grants "Next-generation materials for exhaust gas pollutant control" with University of Hong Kong, (PI: Khachatur Manukyan, Co-PI)
2017	International project at the SOLEIL synchrotron: "Electronic structure of isolated organolead halide perovskite nanoparticles probed by gas-phase XPS". (Lead PI, facility user)
2015-2017	Molecular Foundry proposal "Investigations on surface chemistry of III-V semiconductors using Near Ambient Pressure X-ray Photoelectron Spectroscopy" in collaboration with LLNL Quantum Simulation Group (Lead PI, facility user)
2016	International project at the SOLEIL synchrotron: "VUV photoelectron-photoion spectroscopy of organolead halide perovskite nanoparticles isolated in vacuo" (lead PI, facility user)
2017	ND Equipment Restoration and Renewal Program (co-PI, PI: P. Clark)
2014-2015	ND Faculty Research Scholarship Program (FRSP) Initiation Grant (PI) ND Edison Innovation Award for post-doctoral fellowship (PI)
2013-2014	ORAU travel grant, Oak Ridge Associated Universities (07/01/2012-06/30/2013)
2012-2013	National Science Foundation, Acquisition of an X-ray Photoelectron Spectroscopy (Senior personnel)

TALKS (CONFERENCES, SEMINARS, AND COLLOQUIA)

1. "Spektrometria mas klasterow gazowych" VI Natioional Vacuum Conference, Korbielów, Polska 2002 — Contributed
2. "Mass spectrometry of gaseous clusters" Technical University of Gdansk, Poland, June 2002 — Seminar
3. "MALDI method for biomolecules" Technical University of Gdansk, Poland, June 2002 — Seminar
4. "Dissociative electron attachment to glycine by low energy electron impact" EPIC Network Meeting, Pruhonice near Prague, Czech Republic 2003 — Contributed
5. "Electron attachment to biological relevant molecules" 53.ÖPG-Jahrestagung, Salzburg, Austria 2003 — Contributed
6. "Radiation damage of biomolecules" Schwerpunktseminar Ionen- Plasmaphysik, Leopold-Franzens-University, Innsbruck, Austria 2004 — Contributed
7. "Site- selective electron attachment to the partially deuterated thymine" EPIC Network Meeting, Obergurgl, Austria 2004 — Contributed
8. "Low energy electron interactions with porphine derivates" RADAM Conference 2005, Potsdam, Germany 2005 — Invited
9. "Free electron attachment to higher order and endohedral fullerenes" EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy — Invited Seminar
10. "Bond- and site-selective dissociative electron attachment to pyrimidine bases." Atomic, Molecular and Optical Physics Seminars, University of Aarhus, Denmark, September 2005 — Invited
11. "Explosives detection by low energy electrons" LEEMI IV, 6-9 October 2005, Smolenice, Slovakia — Contributed
12. "Electron irradiation of biocomplexes" ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June 2006 — Invited
13. "Electron stimulated ion desorption from dry and hydrated single strand DNA" 15th International Symposium on Electron Molecule Collisions and Swarms & XIV International Workshop on Low Energy Positron and Positronium Physics University of Reading, UK, 1st - 4th August 2007 — Invited
14. "Dissociative electron attachment to the DNA-water complex" COST UK meeting, St. Catherine's College, Oxford, United Kingdom, 10-12 September 2007 — Invited
15. "Electron stimulated anion desorption from dry and hydrated single strand of DNA" Institut für Physikalische und Theoretische Chemie, Freie Universität Berlin, Germany, 12 October 2007 — Seminar
16. "X-ray radiation induced damage in DNA monitored by XPS" XVI Symposium on Atomic, Cluster and Surface Physics (SASP) 20-25 January 2008, Les Diablerets, Switzerland — Invited
17. "Alteration of DNA-base molecules induced by low energy electrons: XPS study" Electron Induced Processes at Molecular Level and Low-Energy Electron Molecule Interaction. (LEEMI-EIPAM-ECCL) Roscoff, France, 7th - 11th, May 2008 — Contributed
18. "Low Energy Electron Induced Damage to DNA and its Components - XPS study" National Conference on Electronic, Atomic, Molecular and Photonic Physics (CEAMPP), 15-18 May, 2008, Zaječar, Serbia — Invited
19. "Processes induced by Low Energy Electron-DNA Interactions" Gordon Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry And Biology, July 6-11, 2008, Waterville Valley, NH — Contributed

20. "Low Energy Electrons Induced Chemistry in dry DNA," 8th International Conference on Pulse Investigations in Chemistry, Biology and Physics PULS 2008, 6-12 September 2008, Krakow, Poland & Free Radicals in Chemical Biology, Joint Working Groups Meeting CM0603 — Contributed
21. "Dissociative Electron attachment to gas-phase 5 nitrouracil" Control of Molecular Processes Induced by Electrons and Photons: Experiments and Interpretations, A congress in Honor of Prof. Hotop, CMP 2008, 2-4 October 2008, Rome, Italy — Invited
22. Meeting of Working Group 01, Selective bond cleavage by electron induced dissociation, COST Action CM0601: Electron Controlled Chemical Lithography (ECCL), 01 May 2009, Harnack-Haus Berlin, Germany 2009 — Contributed
23. "Chemical processes of electrons with biomolecules inside helium droplets." Meeting of Working Group 2, ESF COST Action CM0805, The Chemical Cosmos, 15-17 June 2009 at University College London. United Kingdom 2009 — Contributed
24. "Fundamental low energy electron-biomolecule interactions and their applications" Radiation Research in 21st Century, A Visionary Meeting, University of Notre Dame, Indiana, USA, July 12th – 15th, 2009 — Invited
25. "DNA damage induced by non-thermal atmospheric pressure plasma jet" XVIIth Symposium on Atomic, Cluster and Surface Physics 2010 (SASP 2010), Obergurgl, Austria, January 24-29, 2010 — Contributed
26. "Non-thermal atmospheric pressure plasma treatment of DNA molecules" Collisions with Molecules and Clusters Co-organized by the Molecular Physics Group and the Atomic and Molecular Interactions Group, Milton Keynes, UK, April 15-16, 2010 — Contributed
27. "The influence of amino acids on the fragmentation of oligonucleotides exposed to low energy electrons" Radiation Research Society, Annual Meeting, Maui, USA, September 25-29, 2010 — Invited
28. "Controlling Bond Cleavage in DNA Analogues by Low Energy Electrons and Cold Plasmas", Faculty of Mathematics, Computer Science and Physics, University of Innsbruck, Austria, May 24, 2011 — Colloquium
29. "DNA damage induced by fast-flowing metastable species in a cold plasma" 14th International Congress of Radiation Research, Warsaw, Poland, August 28-September 1, 2011 — Invited
30. "The action of amino acids on electron irradiated DNA films" 14th International Congress of Radiation Research, Warsaw, Poland, August 28-September 1, 2011 — Contributed
31. "Atmospheric Pressure Studies in Notre Dame Radiation Laboratory" Florida Institute of Technology, Melbourne, FL, USA, March 15, 2012 — Seminar
32. "Low energy electron interactions with biomolecules" 12th International Workshop on Radiation Damage to DNA, Prague, Czech Republic, June 2-6, 2012 — Invited
33. "Dissociative electron attachment to triflates" 65th Annual Gaseous Electronics Conference, Austin, TX, USA, October 22 -26, 2012. — Contributed
34. "Cold plasma interactions with biological systems" 2nd Nanoscale Insights into Ion Beam Cancer Therapy (Nano-IBCT), Sopot, Poland, May 20-24, 2013 — Invited
35. "Surface characterization of polypeptide bilayers" 35th Annual Symposium on Applied Surface Analysis, Urbana-Champaign, IL, June 5-7, 2013 — Contributed
36. "Treatment of Biosystems by Atmospheric Pressure Plasma Jet" 19th International Vacuum Congress (IVC), Paris, France, September 9-13, 2013 — Contributed
37. "Physical-chemical characterization of nitrogen atmospheric pressure plasma jets" 66th Gaseous Electronic Conference (GEC), Princeton, NJ, September 30-October 4, 2013 — Contributed

38. "In-situ NAP XPS studies of dissociative water adsorption on GaAs(100) surfaces"' American Physics Society (APS March meeting), Denver, CO, March 3-7, 2014 — Contributed
39. "Controlling Bond Cleavage in Gas-Phase Biomolecules"" 23rd International Conference on Application of Accelerators in Research and Industry (CAARI), San Antonio, TX, May 25-30, 2014 — Invited
40. "Near Ambient Pressure X-ray Photoelectron Spectroscopy of water interaction with semiconductors" 36th Annual Symposium on Applied Surface Analysis, Albuquerque, NM, June 2-5, 2014 — Contributed
41. "Near Ambient Pressure X-ray Photoelectron Spectroscopy of water interaction with semiconductors" Collaborative Conference on 3D & Materials Research (3DMR), Incheon, South Korea, June 23-27, 2014 — Invited
42. "Selective Bond Dissociation in Gas-Phase Molecules Induced by Low Energy Electrons" Gordon Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014 — Invited
43. "Atmospheric Pressure Plasma Jet interactions with liquids"27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2014), Belgrade, Serbia, August 26-29, 2014 — Invited
44. "Interfacial chemistry of water interaction with GaAs (100)" Dynamics, Interactions and Electronic Transitions at Surfaces (DIET 14), Pacific Grove, CA, October 13-17, 2014 — Contributed
45. "Interfacial Chemistry between Gas-Phase Molecules and GaAs Surfaces Probed by Near-Ambient Pressure X-ray Photoelectron Spectroscopy" 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Potomac, Maryland, October 19-22, 2014 — Invited
46. "Tailoring Bond Cleavage in Gas-Phase Biomolecules by Low Energy Electrons"67th Gaseous Electronic Conference (GEC), Raleigh, NC, November 2-7, 2014 — Invited
47. "Morphology Dependence of Gas-Phase Molecule Interactions with GaAs Surfaces" American Vacuum Conference, 61st International Symposium & Exhibition, Baltimore, MD, November 9-14, 2014 — Contributed
48. "Interfacial chemistry of water and Ga-based semiconductor surfaces" International workshop on "Surface chemistry and near-ambient pressure photoemission; new tools and new paradigms" SOLEIL, France, December 10-12, 2014 — Contributed
49. "Interfacial Processes between Gas-Phase Molecules and Ga-based Surfaces Probed by Near-Ambient Pressure X-ray Photoelectron Spectroscopy" Department of Physics at the Indiana University-Purdue University Indianapolis, 12 February 2015 — Colloquium
50. "Dynamic Oxidation of Gallium Phosphide Surface Tracked by Near Ambient Pressure XPS" American Physics Society (APS March meeting), San Antonio, TX, 2-6 March 2015 — Contributed
51. "Tailoring Bond Dissociation in Gas-Phase Biomolecules by Low-Energy Electrons" Department of Physics, the Oakland University, Rochester, MI, 12 March 2015 — Colloquium
52. "Dissociative electron attachment to isotopic and isomeric gas-phase molecules" 29th Miller Conference on Radiation Chemistry in Windermere, the English Lake District, the UK, 14-19 March, 2015 — Invited
53. "Atmospheric Pressure Plasma induced damage to isolated and cellular DNA" Department of Nuclear Medicine and Radiobiology at the University of Sherbrooke, Canada — Seminar

54. "Evaluation of low energy electron-induced fragmentation of peptide model molecules" XIX International Symposium on Electron-Molecule Collisions and Swarms in Lisbon, Portugal, 17-20 July 2015 — Invited
55. "Electron impact dissociation of gas-phase heterocyclic compounds", XXIX International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC) Toledo, Spain, 22-28 July 2015 — Invited
56. "Development of DEA instrumentation for a comprehensive understanding of molecular fragmentation in the gas phase" International Workshop on Dissociative Electron Attachment, Mumbai, India, November 18-20, 2015 — Seminar
57. "Interfacial Processes at Water/Semiconductor Surfaces under Operando Conditions" Gordon Research Conference: Electron Donor-Acceptor Interactions Newport, RI, August 7-12, 2016 — Invited
58. "Stepwise Electron Spectroscopy for Neutral Fragment Detection" 24th International Conference on Application of Accelerators in Research and Industry (CAARI), Fort Worth, TX, October 30- November 4, 2016 — Invited
59. "Charge transfer processes at water/semiconductor interfaces" 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Gaithersburg, MD, November 1-4, 2016 — Invited
60. "Plasma: From Lightning to Medical Applications" as part of the Our Universe Revealed: Physics for Everyone lecture series, Notre Dame, IN, September 27, 2016 — Public talk
61. "Probing Interfacial Processes at H_2O/III-V Semiconductor Surfaces under operando conditions" CORE-CM Seminar, Michigan State University, East Lansing, MI, February 23, 2017 — Seminar
62. "Interfacial Processes at H_2O/III-V Semiconductor Surfaces under Operando Conditions" Institute of Physics at the Pontificia Universidad Católica de Chile in Santiago, Chile May 23, 2017 — Seminar
63. "Direct Observation of Neutral Radicals from a Dissociative Electron Attachment Process" Telluride Science Research Center workshop on Advances in Theory of Electronic Resonances, Telluride, CO, July 17-21, 2017 — Invited
64. "Development of DEA instrumentation for a comprehensive understanding of molecular fragmentation in the gas phase" the Open University, Milton Keynes, UK. September 1, 2017 — Seminar
65. "Instrumentation for neutral radical detection from gas-phase molecular dissociative electron attachment" the 4th CELINA (Chemistry for ELectron-Induced NAnofabrication - COST Action CM1301) conference, Porto, Portugal, September 13-16, 2017 — Invited
66. "Interfacial Processes at H_2O/III-V Semiconductor Surfaces", Institute of Materials for Electronics and Magnetism (IMEM - CNR) in Parma, Italy, October 3, 2017 — Seminar
67. "Towards comprehensive picture of a dissociative electron attachment process" the 50th anniversary of the Institut für Ionenphysik und Angewandte Physik, Universität Innsbruck, Austria. October 6, 2017 — Public talk
68. "Spatial Distribution of Biological Effects Induced by Plasma Reactive Species" 64th American Vacuum Society International Symposium and Exhibition, Tampa, FL, October 29-November 3, 2017 — Invited
69. "Development of DEA instrumentation for a comprehensive understanding of gas-phase molecular fragmentation" 70th Annual Gaseous Electronics Conference (GEC 2017), Pittsburgh, PA, November 6-10, 2017 — Contributed

70. "Dissociative electron attachment to ring-containing compounds" 3rd International Conference on Dissociative Electron Attachment (the 3rd meeting of the DEA club) Prague, Czech Republic, April 10 - 13, 2018. — Invited
71. "Probing Interfacial Processes on Semiconductors Using Lab-Based Ambient Pressure XPS" Solar Photochemistry Research Principal Investigator Meeting, Gaithersburg, MD, June 4-7, 2018 — Invited
72. "Plasma Radiation-Induced Processes in Biomolecular Systems" Department of Nuclear Medicine and Radiobiology, University of Sherbrooke, Canada, July 10 2018 — Seminar
73. "Plasma Radiation-induced Chemistry in Molecular Systems" 64th Annual Meeting of the Radiation Research Society, Chicago, IL, 23-26 September, 2018 — Invited
74. "Effects of plasma reactive species on biomolecular systems" 5th International Conference "Dynamics of Systems on the Nanoscale" (DySoN 2018), Potsdam, Germany, 8 -12 October, 2018 — Invited
75. "Dissociative Electron Attachment to Gas-Phase Molecules" 71st Annual Gaseous Electronics Conference (GEC 2018), Portland, OR, November 5-9, 2018 — Invited
76. "Dissociative electron attachment to biomolecules" 50th Annual Meeting of the American Physics Society Division of Atomic, Molecular and Optical Physics (DAMOP), Milwaukee, WI, May 27–31, 2019 — Invited
77. "Oxidation mechanisms onto semiconductor surfaces" European Materials Research Society, Fall Meeting, Warsaw, Poland, September 16-19, 2019 — Contributed
78. "Plasma Reactive Species Formation in Liquids" American Vacuum Society (AVS) 66th International Symposium & Exhibition, Columbus, OH, October 20-25, 2019 — Invited
79. "Dissociative electron attachment to ring-containing compounds" 72nd Annual Gaseous Electronics Conference (GEC 2019), College Station, TX, October 28 – November 1, 2019 — Contributed
80. "Fundamental mechanisms of oxide evolution on semiconductor surfaces" 15th DOE Condensed Phase and Interfacial Molecular Science (CPIMS) Principal Investigators Meeting, Gaithersburg, MD, November 4-6, 2019 — Invited
81. "Toward a realistic description of oxidation at the semiconductor/liquid interfaces" U.S. Department of Energy-Basic Energy Science Solar Photochemistry Principle Investigators' Meeting, June 2-4, 2021 (virtual) — Lightning talk
82. "Electron-induced bond dissociation in amides" Telluride Science Research Center workshop on Advances in Theory of Electronic Resonances, Telluride, CO, July 13-17, 2021 (virtual) — Invited
83. "Chemistry versus energetic of non-thermal plasma irradiation"63rd Scientific Congress of the Polish Chemical Society, Lodz, Poland, September 13-16, 2021 (virtual) — Invited
84. "Importance of Neutral Detection in Electron Scattering Processes" Workshop of 74th Annual Gaseous Electronics Conference (GEC 2021), Huntsville, AL, October 4-8, 2021 (virtual) — Invited
85. "Importance of Radiation Chemistry to Low-Temperature Plasmas" Miller Online Workshop on Radiation Chemistry, February 12, 2022 (virtual) — Invited
86. "Dissociative Electron Attachment to Gas-Phase Biomolecules" Gaseous Electronics Meeting (GEM) 2022 hybrid conference, University of Sydney, Australia, February 14-16, 2022 (virtual) — Invited
87. "Foundations of non-thermal plasmas for biochemical applications" Department of Chemical Physics, University of Adam Mickiewicz, Poznan, Poland, May 10, 2022 — Seminar

88. "Low energy electrons-induced damage to biomolecules" Wielkopolska Center of Advanced Technologies, University of Adam Mickiewicz, Poznan, Poland, May 12, 2022 — Seminar
89. "Re-Evaluating Routes of Oxidation of III-V Semiconductor Surfaces" U.S. Department of Energy-Basic Energy Science Solar Photochemistry Principle Investigators' Meeting, June 8-10, 2022 (virtual) — Lightning talk
90. "Photoelectron Spectroscopy of Interfacial Oxides" at the Forty-Fourth U.S. Department of Energy Solar Photochemistry Principal Investigators' Meeting in Rockville, MD, May 22-24, 2023 — Lightning talk
91. "Dissociation and dynamics of electron attachment to specific intramolecular structures" 54th Annual Meeting of the American Physics Society Division of Atomic, Molecular and Optical Physics in Spokane, Washington, USA, June 5-9, 2023 — Invited
92. "DNA damage as a probe of low-temperature plasma properties and efficacy" Canadian Association of Physicists Congress held by the University of New Brunswick, Fredericton, Canada, June 18-23, 2023 — Invited
93. "Electrons rule the world - from quantum physics to industrial and medical applications" Department of Physics, University of North Texas, Denton, TX, October 17, 2023 — Colloquium
94. "DNA damage as a probe of low-temperature plasma dose rate and chemistry" 17th Biennial Trombay Symposium on Radiation & Photochemistry. (TSRP-2024), Anushaktinagar, Mumbai, INDIA, January 7-11, 2024 — Invited
95. "Dissociation electron attachment to molecules - a research overview at Notre Dame" International Workshop: Insights into Collisional Processes with Atoms, Molecules, and Clusters and Related Topics in honor of Ilya Fabrikant's 75th birthday, Department of Physics & Astronomy, University of Nebraska-Lincoln, February 17th, 2024 (virtual) — Invited
96. "Advancements in product detection and dynamics of molecular dissociation: insights from low-energy electron-molecule interactions." Final General Meeting of the MD-GAS COST Action, Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany April 9 -12, 2024 — Invited
97. "Exploring the Connection between Electronic States and Surface Chemistry Using Photoelectron Spectroscopy." 45th DOE Solar Photochemistry Principal Investigators Meeting, Gaithersburg, MD June 3-5, 2024 — Invited
98. "Advances in Instrumentation for Product Detection and Understanding Molecular Dissociation Dynamics Triggered by Electrons." 4th DEA Club Meeting, Potsdam, Germany June 19-21, 2024 — Invited
99. "Experimental Data-Driven Predictive Modeling of DNA Damage Induced by Low-Temperature Plasma Radiation." 5th Jagiellonian Symposium on Advances in Particle Physics and Medicine (JS:2024), Jagiellonian University, Kraków, Poland June 29 -July 7, 2024 — Invited
100. "DNA damage as a probe to assess the dose rate and chemistry of low-temperature plasma radiation." 27th International Conference on the Application of Accelerators in Research and Industry (CAARI) and the 55th Symposium of Northeastern Accelerator Personnel (SNEAP), Fort Worth, TX July 21-26, 2024 — Invited
101. "Electrons at the Core – From Quantum Physics to Industrial and Medical Innovations." Department of Physics, East Carolina University (ECU), Greenville, NC March 21, 2025 — Colloquium
102. "Radiation-Induced Molecular Changes as a Probe for Low-Temperature Plasma Chemistry." Institut de Chimie Physique, CNRS and the Université Paris-Saclay, Orsay, France June 4, 2025 — Seminar

CONFERENCE CONTRIBUTIONS (POSTERS, STUDENT'S TALK)

1. S. Ptasińska, J. Dąbek, L. Michalak - *Some aspects of formation of ammonia microclusters.* IV International Symposium Ion Implantation and other Application of ions and electrons, Kazimierz Dolny, Poland, June 10-13, 2002
2. S. Ptasińska, J. Dąbek, L. Michalak – *Formation of water dimers in expanding air flows.* IV International Symposium Ion Implantation and other Application of ions and electrons, Kazimierz Dolny, Poland, June 10-13, 2002
3. S. Ptasińska, A. Bajuk, L. Michalak – *Influence of potassium chloride on the MALDI detection process*. IV International Symposium Ion Implantation and other Application of ions and electrons, Kazimierz Dolny, Poland, June 10-13 2002
4. J. Dąbek, S. Ptasińska, L. Michalak - *Wytwarzanie mikroklasterów $(NH_3)n$ i $(CO_2)n$ w mieszaninach dwuskładnikowych"* Materiały VI Krajowej Konferencji Techniki Próżni, Korbielów, 23-25 września 2002, s. 47.
5. S. Denifl, S. Matejcik, S. Ptasińska, G. Hanel, B. Gstir, A. Stamatovic, P. Scheier, T.D. Märk – *Electron attachment and electron impact ionization of biomolecules.* Deutsche Gesellschaft für Massenspektromtrie-meeting (DGMS 2003), Munich, Germany, 07-10.March 2003
6. S. Denifl, G. Hanel, B. Gstir, S. Ptasińska, P. Scheier, M. Probst, B. Farizon, M. Farizon, S. Matejcik, E. Illenberg, T.D. Märk – *Site selctive electron attachment to RNA and DNA bases.* XXIII International Conference on Photonic, Electronic, and Atomic Collisions (XXII ICPEAC), Stockholm, Sweden, 23 - 29 July, 2003
7. E.T.M. Selim, L. Michalak, S. Ptasińska – Study of manganese chloride and its reactivity in the negative ion mode using laser desorption/ionization (LDI) TOF - mass spectrometer. 16th International Mass Spectrometry Conference (IMSC-16), Edinburgh, 31 August – 5 September, 2003
8. S. Ptasińska, S. Denifl, A. Abedi, P. Scheier, T.D. Märk - Dissociative electron attachment to glycine by low energy electron impact. 13th International Symposium on Electron-Molecule Collisions and Swarms July (EMS 2003 Prague), Pruhonice near Prague, Czech Republic, 30 July – 2 August, 2003
9. S. Denifl, G. Hanel, S. Ptasinska, B. Gstir, S. Matejcik, A. Stamatovic, P. Scheier, T.D. Märk - *Electron impact and attachment studies of biomolecules*. 13th International Symposium on Electron-Molecule Collisions and Swarms (EMS 2003 Prague), Pruhonice near Prague, Czech Republic, 30 July – 2 August 2003
10. S. Ptasińska, S. Denifl, A. Abedi, P. Scheier, T.D. Märk - *Electron attachment to biologically relevant molecules.* 53.ÖPG-Jahrestagung, Salzburg, Austria, 1-2 October, 2003
11. S. Denifl, S. Ptasinska, G. Hanel, M. Probst, P. Scheier, T.D. Märk – *Radiation damage in molecules of biological relevance.* Austrian- Hungarian workshop on charged-particle transport through nanostructures and solids; Debrecen, Hungary, 14-16 November, 2003
12. S. Ptasińska, S. Denifl, P. Candori, P. Limão-Vieira, P. Scheier and T.D. Märk – *Inelastic electron interaction (attachment/ionization) with sugar molecules and amino acids* V -th International Conference Ion Implantation and Other Applications of Ions and Electrons, Kazimierz Dolny, Poland, June 14-17, 2004 (ION 2004)
13. S. Ptasińska, P. Candori, S. Denifl, S. Yoon, P. Scheier and T.D. Märk – *Electron interactions with nucleosides of DNA and RNA: thymidine and uridine.* RADAM Conference „ Radiation Damage in Biomolecular System", Lyon, France, 24-27 June, 2004
14. P.Scheier, S. Ptasinska, S. Denifl, P. Candori, M. Probst and T.D. Märk – *Inelastic interaction of low energy electrons with biologically relevant molecules.* RADAM Conference „ Radiation Damage in Biomolecular System", Lyon, France, 24-27 June, 2004
15. P. Scheier, S. Denifl, S. Ptasinska, M. Probst, S. Yoon and T.D. Märk - *Dissociative electron attachment to biologically relevant molecule.* 8th European Conference on Atomic and Molecular Physics, Rennes, France, 6-10 July 2004 (ECAMP8)

16. S. Ptasińska, S.P. Denifl, P. Limão-Vieira, P. Scheier and T.D. Märk - *Damage of DNA sugar and its moiety by electron impact.* 8th European Conference on Atomic and Molecular Physics, Rennes, France, 6-10 July, 2004 (ECAMP8)
17. P. Scheier, S. Ptasinska, S. Denifl, P. Candori, M. Probst and T.D. Märk – *Inelastic interaction of low energy electrons with biologically relevant molecules.* International Symposium on the Physics of Ionized Gases, SPIG, National Park Tara, Serbia and Montenegro, 23-27 August, 2004
18. S. Ptasinska, S. Denifl, M. Probst, P. Scheier and T.D. Märk- *Interaction of low energy electrons (attachment/ionization) with molecules of biological relevance*. 332th Wilhelm and Else Heraeus Seminar Processes Driven by Low Energy Electron-Molecule Interactions, LEEMI Bad Honnef, Germany, 1-4 September, 2004
19. S Ptasińska, P. Candori, S. Denifl, S. Yoon, P. Scheier and T. D. Märk – *Radiation damage of nucleosides by low energy electrons.* 332th Wilhelm and Else Heraeus Seminar Processes Driven by Low Energy Electron-Molecule Interactions, LEEMI Bad Honnef, Germany, 1-4 September, 2004
20. S. Denifl, S. Ptasińska, M. Stano, F. Martinez, P. Scheier and T.D. Märk - *High resolution electron ionization study of helium-clusters.* 332th Wilhelm and Else Heraeus Seminar Processes Driven by Low Energy Electron-Molecule Interactions, LEEMI Bad Honnef, Germany, 1-4 September, 2004
21. S. Denifl, S. Ptasinska, M. Probst, P. Scheier and T.D. Märk- *Low energy electron interaction with biomolecules.* International Conference on Dynamics of Molecular System, MOLEC XV, Nunspeet, the Netherlands, 5-10 September, 2004
22. S. Ptasinska, S. Denifl, P. Candori, P. Limao-Vieira, P. Scheier, T.D. Märk- *Damage of sugar molecules by electron impact.* 1st Annual CMBI Meeting, Vill, Tyrol, 1-2 October, 2004
23. S. Denifl, S. Ptasinska, P. Candori, S. Yoon, P. Scheier, T.D. Märk- *Electron interactions with nucleosides: thymidine and uridine* 1st Annual CMBI Meeting, Vill, Tyrol, 1-2 October, 2004
24. L. Zajickova, S. Ptasinska, M. Cingel, S. Matejcik - *Study of electron impact ionization and electron attachment to HMDSO* – The 15th Symposium on Applications of Plasma Processes (SAPP XV) and Third EU-Japan Joint Symposium on Plasma Processing, Podbanske, Slovakia, 15-20 January, 2005
25. P. Scheier, S. Ptasinska, S. Denifl, P. Candori, W. Schustereder, V.G. Hasan, P. Cicman, S. Feil, B. Coupier, J. Fedor, S. Matejcik, E. Illenberger, T.D. Märk - *Dissociative Electron Attachment to Biologically Relevant Molecules* - The 15th Symposium on Applications of Plasma Processes (SAPP XV) and Third EU-Japan Joint Symposium on Plasma Processing, Podbanske, Slovakia, 15-20 January, 2005
26. K. Głuch, S. Matt-Leubner, S. Feil, O. Echt, S. Denifl, S. Ptasinska, B. Concina, P. Scheier, and T.D. Märk - *High Resolution Measurements of Fullerenes and Endohedrals.* Symposium on Size Selected Clusters 2005, Brand, Austria, 28 February–3 March, 2005
27. S. Denifl, S. Ptasińska, F. Martinez, K. Gluch, S. Feil, P. Scheier, T. D. Märk – *High resolution electron ionization study of helium-clusters.* Symposium on Size Selected Clusters 2005, Brand, Austria, 28 February–3 March, 2005
28. M. Probst, B. Mroz, S. Denifl, S. Ptasinska, G. Hanel, B. Gstir, P. Scheier, B. Farizon, M. Farizon, S. Matejcik, E. Illenberger, T. D. Märk, - *Bond dissociation energies of Nucleic acids.* 7th Congress of the World Association of Theoretically Oriented Chemists, 16–21 January 2005*,* Cape Town, South Africa WATOC 2005
29. S. Ptasinska, S. Denifl, E. Illenberger, T.D. Märk and P. Scheier - *The use of isotope and site labeling for the identification of DEA peaks in biomolecule.* RADAM Conference 2005, Potsdam, Germany, 17-20 March, 2005
30. P. Scheier, S. Ptasinska, S. Denifl, J. Fedor, S. Feil, B. Coupier, M. Winkler, M. Probst and T.D. Märk - *Low energy electron interactions with biologically relevant molecules*. Electron Induced Processing at the Molecular Level (EIPAM 1), 19-20 April 2005, Milton Keynes, UK

31. S. Ptasińska, S. Denifl, B. Mróz, A. Wisthaler, V. Grill, M. Probst, E. Illenberger, T. D. Märk and P. Scheier – *Site selective hydrogen abstraction from thymine.* International Conference of Photonic, Electronic and Atomic Collisions (XXIV ICPEAC), July 20 – 26 , 2005, Rosario, Argentina
32. S. Ptasińska, S. Denifl, V. Grill, E. Illenberger, P. Scheier and T. D. Märk- *Radiation damage in biomolecular systems by low energy electrons.* European Young Investigator Conference (EYIC), June 7-12, 2005, Gniezno, Poland
33. P. Sulzer, M. Stano, S. Feil, M. Winkler, S. Ptasinska, V. Grill, F. Zappa, T. D. Märk and P. Scheier. *Inelastic interaction of free electrons with gas phase porphyrin.* EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
34. S. Ptasińska, S. Denifl, M. Stano, P. Sulzer, F. Zappa, A. Stamatovic, O. Echt, P. Scheier and T. D. Märk - *Free electron attachment to higher order and endohedral fullerenes.* EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
35. F. Zappa, P. Sulzer, B. Mielewska, A. Milosavljevic, S. Ptasinska, S. Denifl, P. Scheier and T.D. Märk - *Inelastic electron interaction with sugar molecules*. EPIC 2005/EIPAM, 25-30 June 2005, San Martino al Cimino, Viterbo, Italy
36. P. Sulzer, M. Stano, S. Feil, M. Winkler, S. Ptasinska, V. Grill, F. Zappa, B. Kräutler, T. D. Märk and P. Scheier - *Wechselwirkung von freien Elektronen mit Porphyrinen* – 55.ÖPG-Jahrestagung, Vienna, Austria, September, 2005
37. M. Winkler, F. Rondino, S. Feil, F. Zappa, S. Denifl, T. Schlthölter, S. Ptasinska, A. Stamatovic, V. Grill, T.D. Märk and P. Scheier- *Ultrakalte Uracilcluster*, 55.ÖPG-Jahrestagung, Vienna, Austria, September, 2005
38. M. Beikircher, S. Ptasinska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, O. Echt, T.D.Märk and P. Scheier - *Unimolekularer Zerfall von Uracil und Thymin*, 55.ÖPG-Jahrestagung, Vienna, Austria, September, 2005
39. S. Ptasinska, S. Denifl, B. Mroz, M. Probst, E. Illenberger, T.D. Märk and P. Scheier - *The use of isotope and site labeling for the identification of DEA peaks in biomolecule.* International Symposium on Electron-Molecule Collisions and Swarms, 27-30 July 2005 Campinas, SP, Brazil 2005
40. V. Grill, S. Denifl, S. Ptasinska, B. Mróz, M. Probst, T.D. Märk, P. Scheier - *Isotope and site labeling for the identification of DEA peaks in biomolecules.* 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
41. M. Beikircher, S. Ptasinska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, O.Echt, T.D. Märk, P. Scheier – *Stability of uracil and thymine cations.* 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
42. P. Sulzer, M. Stano, S. Feil, M. Winkler, S. Ptasinska, V. Grill, F. Zappa, B. Kräutler, T.D. Märk, P. Scheier - *Inelastic interaction of free electrons with gas phase Porphyrins.* 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
43. S. Ptasinska, S. Denifl, B. Mróz, M. Probst, V. Grill, T. D. Märk and P. Scheier - *Bond selective hydrogen abstraction from thymine.* 2nd Annual CMBI Meeting, Vill, Tyrol, 30 September-1 October, 2005
44. S. Ptasinska, S. Denifl, V. Grill, F. Zappa, M. Probst, P. Scheier and T. D. Märk – *Low energy electron with complex molecules*. LEEMI IV, 6-9 October 2005, Smolenice, Slovakia
45. I. Bald, T. Skalický, P. Sulzer, S. Ptasińska, P. Scheier and E. Illenberger – *Electron induced reaction in cyclic sugar molecules.* LEEMI IV, 6-9 October 2005, Smolenice, Slovakia
46. S. Ptasinska, S. Denifl, V. Grill, F. Rondino, F. Zappa, E. Illenberger, T. D Märk and P. Scheier - *Isotope and site labeling for the identification of resonances in dissociative electron attachment to biomolecules.* 52nd Annual Meeting of the Radiation Research Society, 16-19 October, 2005, Denver, Colorado

47. M. Beikircher, S. Ptasińska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, O. Echt, T.D.Märk, P. Scheier – *Stability of uracil and thymine cations*. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
48. P. Sulzer, F. Rondino, D. Kilgour, V. Grill, S. Ptasinska, P. Scheier, T. D. Märk – Explosives detection by low energy electrons. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
49. S. Ptasinska, S. Denifl, F. Zappa,V. Grill, P. Scheier, T.D. Märk- *Site selectivity in dissociative free-electron attachment to gas phase nucleobases.* XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
50. O. Echt, S. Ptasinska, S. Denifl, M. Stano, P. Sulzer, F. Zappa, P. Scheier, T. D. Märk, J. U. Andersen, E. Bonderup, B. Concina, P. Hvelplund, B. Liu, S. Brøndsted Nielsen, J. Rangama, J. S. Forster, K. Hansen - Fullerenes: Electron Attachment and Detachment. XV Symposium on Atomic, Cluster and Surface Physics, February 4th - 9th, 2006, Obergurgl, Austria
51. P. Sulzer, F. Rondino, D. Kilgour, V. Grill, S. Ptasinska, P. Scheier and T. D. Märk - *Dissociative electron attachment to gas phase explosives*. 39. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie (DGMS) gemeinsam mit dem 20. ICP-MS Anwendertreffen sowie dem 7. Symposium über Massenspektrometrische Verfahren der Elementspurenanalyse*,* 5-8 March, 2006, Mainz, Germany
52. S. Ptasinska, P. Sulzer, F. Rondino, S. Denifl, B. Mroz, M. Probst, E. Illenberger, V. Grill, T.D. Märk and P. Scheier - *Bond and site selective fragmentation upon dissociative electron attachment.* 39. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie (DGMS) gemeinsam mit dem 20. ICP-MS Anwendertreffen sowie dem 7. Symposium über Massenspektrometrische Verfahren der Elementspurenanalyse*,* 5-8 March, 2006, Mainz, Germany
53. P. Sulzer, F. Rondino, D. Kilgour, V. Grill, S. Ptasinska, S. Denifl, P. Scheier, T. D. Märk - *Explosives detection by low energy electrons.* DPG-Meeting Frankfurt 13-17.March 2006
54. M. Beikircher, S. Ptasińska, S. Feil, M. Winkler, A. Bacher, W. Schustereder, S. Denifl, O. Echt, T.D.Märk, P. Scheier – *Stability of uracil and thymine cations*. DPG-Meeting Frankfurt 13.3-17.3 2006
55. S. Ptasinska, S. Denifl, F. Zappa,V. Grill, P. Scheier, T.D. Märk- *Site selectivity in dissociative free-electron attachment to gas phase nucleobases.* DPG-Meeting Frankfurt 13-17.March 2006
56. F. Zappa, S. Denifl, S. Ptasińska, I. Mähr, M. Beikircher, P. Scheier, T.D. Märk – *Hidden resonances in dissociative electron attachment to thymine?* RADAM conference 2006, Groningen, Netherlands, 6-9 June 2006
57. E.S. Worm, J.U. Andersen, T. Chakraborty, A.I.S. Holm, P. Hvelplund, S.B. Nielsen, J.-C. Poully, S. Ptasinska, A.V. Streletskii, E. Williams - *Electron capture induced dissociation of peptide cations.* RADAM conference 2006, Groningen, Netherlands, 6-9 June 2006
58. S. Ptasinska, L. Sanche – *Electron irradiation of biocomplexes*. ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June, 2006.
59. P. Sulzer, S. Ptasinska, S. Denifl, V. Grill, S. Moser, B. Kräutler, P. Scheier, T. Märk- *Low energy electron interactions with labelled gas phase nucleobases.* ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June, 2006.
60. S. Denifl, S. Ptasinska, F. Zappa, I. Mähr, M. Beikircher, P. Sulzer, P. Scheier and T.D. Märk - *Electron driven processes in molecules of biological relevance: bond, site, energy and state selectivity.* ESF-FWF Conference in Partnership with LFUI on Biomolecules: From Gas Phase Properties to Reactions relevant in Living Cells, Obergurgl, Austria, 24-29 June 2006

61. E.S. Worm, J.U. Andersen, T. Chakraborty, A.I.S. Holm, P. Hvelplund, S.B. Nielsen, J.-C. Poully, S. Ptasinska, A.V. Streletskii, E. Williams - *Electron capture induced dissociation of peptide cations.* 1st Annual Meeting ITSLEIF, Sandbjerg, Denmark, 7-12 July, 2006
62. S. Ptasińska, O. Echt, S. Denifl, M. Stano, P. Sulzer, F. Zappa, A. Stamatovic, P. Scheier, T. D. Märk - *Electron Attachment to Higher Fullerenes and to $Sc_3N@C_{80}$.* ISSPIC XIII, Göteborg, Sweden, 24-28 July, 2006
63. P. Sulzer, F. Rondino, D. Kilgour, M. D. Brookes, V. Grill, S. Ptasinska, P. Scheier, T. D. Märk - *Dissociative electron attachment to gas phase explosives*. 17th international mass Spectrometry Conference, Prague/Czech Republic, Aug27-Sep 1, 2006
64. S. Ptasinska, S. Denifl, P. Sulzer, F. Zappa, P. Scheier and T. D. Märk - *Site-selective fragmentation of molecules induced by electron attachment.* International Symposium "Scattering, Coincidence and Absorption Studies of Molecules" Rio de Janeiro, Brazil, Sept. 4-6, 2006
65. P. Sulzer, V. Grill, S. Ptasinska, P. Scheier, T.D. Märk, F. Rondino, D. Kilgour, M.D. Brookes - *Dissociative electron attachment to gas phase explosives and (di)nitrotoluene-isomers.* MOLEC XVI European Conference on Dynamics of Molecular Systems, Levico Terme (Trento) Italy, 11-15 Sep, 2006
66. S. Denifl, F. Zappa, I. Mähr, M. Beikircher, P. Sulzer, S. Ptasińska, D.K. Bohme, T.D. Märk, P. Scheier - *Free electron attachment to nucleobases: reactions induced by hydride ions.* MOLEC XVI European Conference on Dynamics of Molecular Systems, Levico Terme (Trento) Italy, 11-15 Sep, 2006
67. S. Ptasińska and L. Sanche – *The role of water in dissociative electron attachment to DNA*. 2nd EIPAM Meeting (Electron Induced Processing At the Molecular Level), Valletta, Malta, 16-20 September 2006
68. S. Ptasińska, P. Cloutier, A.D. Bass and L. Sanche – *Electron-Stimulated-Desorption from biologically relevant molecules.* 2nd EIPAM Meeting (Electron Induced Processing At the Molecular Level), Valletta, Malta, 16-20 September 2006
69. V. Grill, S. Ptasinska, S. Denifl, F. Zappa, P. Scheier, T.D. Mark, Molecular data for biological Applications, ICAMDATA 05, The 5th International Conference on Atomic and Molecular Data and Their Applications, Meudon, France, 15-19 October 2006
70. S. Ptasinska, L. Sanche – *Anion desorption from oligonucleotides induced by low energy electrons.* Radiation Research Society Annual Meeting, Philadelphia, Pennsylvania, USA, 5-8November 2006
71. P. Scheier, S. Denifl, F. Zappa, I. Mähr, P. Sulzer, S. Ptasinska, E. Illenberger, T.D. Märk – *Inelastic interactions of electrons with biomolecules: from gas phase to complex systems.* Symposium on Radiation Effects of Biomedical Interest, Madrid, Spain, 22-25 February 2007
72. I. Mähr, P. Sulzer, F. Rondino, V. Grill, S. Ptasinska, D. Kilgour, M.D. Brookes, P. Scheier, T.D. Märk - *Dissociative electron attachment to gas phase explosives*. Symposium on Radiation Effects of Biomedical Interest, Madrid, Spain, 22-25 February 2007
73. S. Ptasinska, E. Hebert, L. Sanche - Anion desorption from hydrated single stranded DNA induced by low energy electrons. The 1st International Conference -Medical Radiations: research and Applications. Marrakech, Morocco, 4-6 April 2007
74. S. Jaksch, P. Sulzer, S. Denifl, A. Mauracher, F. Zappa, N. Wendt, A. Aleem, F. Rondino, A. Bacher, V. Grill, S. Ptasinska, S. Matejcik, P. Scheier, T.D. Märk – Dissociative electron attachment to nitrotoluene isomers. 9th European Conference on Atomic and Molecular Physics ECAMP IX, Crete, Greece, 6-11 May 2007
75. P. Cloutier, S. Ptasinska, L. Sanche - *Désorption d'anions induite par l'impact d'électrons de basse énergie sur des films d'ADN hydratés* - 75e Congrès de l'ACFAS, Québec à Trois-Rivières, Canada, 7-11 Mai 2007

76. M. Bazin, S. Ptasinska, A. Bass, L. Sanche - *Désorption des anions des couches minces du méthanol par l'attachement dissociatif d'électrons et la dispersion réactif d'ions.* 75e Congrès de l'ACFAS, Québec à Trois-Rivières, Canada, 7-11 Mai 2007
77. S. Jheeta, A. LaFosse, B. Sivaraman, S. Ptasinska, N. J. Mason - *Irradiation of a Homogenous Mixture of Ammonia and Carbon Dioxide (NH_3:CO_2) at Low Temperatures.* New Astronomical Challenges In Surface Science, Heriot-Watt University, Edinburgh, UK, 13 – 15 June, 2007
78. B. Sivaraman, S. Ptasinska, S. Jheeta and N. J. Mason *Electron-induced Ozone Isotopomer Formation in a Binary Oxygen Mixture.* New Astronomical Challenges In Surface Science, Heriot-Watt University, Edinburgh, UK, 13 – 15 June, 2007
79. S. Ptasinska, Z. Li, T. Pengpan, R. Wagner, L. Sanche - Irradiation of DNA-Amino Acid Complexes by Low-Energy (0 – 4 eV) Electrons. RADAM Conference „Radiation Damage in Biomolecular System", Dublin, Ireland, 19-22 June, 2007
80. S. Ptasinska, L. Sanche – Hydration of single stranded DN*A studied by low energy electron stimulated desorption*. International Conference of Radiation Research, San Francisco, USA, 8-12 July, 2007
81. P. Sulzer, S. Denifl, A. Mauracher, F. Zappa, N. Wendt, A. Aleem, F. Rondino, A. Bacher, V. Grill, S. Ptasinska, S. Matejcik, P. Scheier, T.D. Märk – *Dissociative electron attachment to nitrotoluene isomers.* XXV International Conference on Photonic, Electronic, and Atomic Collisions (XXV ICPEAC), Freiburg, Germany, 25 - 31 July, 2007
82. S. Ptasinska, L. Sanche – *Anion desorption from hydrated single stranded DNA induced by low energy electrons.* XXV International Conference on Photonic, Electronic, and Atomic Collisions (XXV ICPEAC), Freiburg, Germany, 25 - 31 July, 2007
83. S. Ptasinska, Y. Zheng, L. Sanche - *Resonant interactions of low energy electrons with DNA and its abasic forms.* XXV International Conference on Photonic, Electronic, and Atomic Collisions (XXV ICPEAC), Freiburg, Germany, 25 - 31 July, 2007
84. A. Stypczynska, S. Ptasinska, T. Nixon, N.J. Mason – *Effect of X-rays on DNA*. 15th International Symposium on Electron Molecule Collisions and Swarms (EMS), Reading United Kingdom, 1-4 August 2007
85. S. Ptasinska, Z. Li, T. Pengpan, R. Wagner, L. Sanche - *Irradiation of DNA-Amino Acid Complexes by Low-Energy (1 and 10 eV) Electrons.* UK COST, Oxford, United Kingdom, 10-12 September 2007
86. S. Ptasinska, A. Stypczynska, T. Nixon, N.J. Mason - *Radiation Damage induced by soft X-ray in the DNA molecule*. UK COST, Oxford, United Kingdom, 10-12 September 2007
87. S. Jheeta, A. LaFosse, B. Sivaraman, S. Ptasinska, N. J. Mason - *Irradiation of a Homogenous Mixture of Ammonia and Carbon Dioxide (NH_3:CO_2) at Low Temperatures.* 7th European Workshop on Astrobiology, University of Turku, Turku, Finland, October 22-24th, 2007.
88. A. Stypczynska, S. Ptasinska, T. Nixon, N.J. Mason, J. Rak – *XPS surface analysis of poly-L-arginine hydrochloride.* XVI Symposium on Atomic, Cluster and Surface Physics (SASP) 20-25 January 2008, Les Diablerets, Switzerland
89. H. D. Flosadóttir, I. Bald, S. Ptasinska, I. Dąbkowska, O.Ingólfsson, E. Illenberger - *Electron attachment to pentafluorinated phenyl isocyanate and phenylacetonitrile.* Electron Controlled Chemical Lithography, ECCL, 12-16 March 2008, Lisbon, Portugal
90. S. Ptasińska, A. Stypczyńska, N.J. Mason – *Chemical Modification of Biological surfaces induced by X-rays.* Electron Controlled Chemical Lithography, ECCL, 12-16 March 2008, Lisbon, Portugal
91. I. Dąbkowska, H.D. Flosadóttir, S. Ptasińska, I. Bald, O. Ingólfsson, E. Illenberger, *Electron attachment to pentafluorinated phenyl-isocyanate and phenylacetonitrile. Experiment and theory.* Electron Induced processes at Molecular Level-Low Energy Electron Molecule Interaction, 07-11, May 2008, Roscoff, France

92. S. Ptasińska, E. Alizadeh, P. Sulzer, R. Abouaf, N.J. Mason, T.D. Märk, P. Scheier, *Formation of negative ions by low energy (<20 eV) electron impact to gas phase 5-nitrouracil.* Electron Induced processes at Molecular Level-Low Energy Electron Molecule Interaction, 07-11, May 2008, Roscoff, France
93. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason, XPS studies of poly-L-arginine hydrochloride on silicon surface, Radiation Damage in Biomolecular Systems, RADAM 2008, 13-15 June 2008, Debrecen, Hungary
94. S. Denifl, S. Ptasinska, P. Sulzer, F. Zappa, F. Ferreira da Silva, M. Probst, A. Mauracher, E. Illenberger, D.K. Bohme, T.D. Märk, P. Scheier - *Inelastic interactions of electrons with biomolecules: from gas phase to complexes and clusters.* 8th International Conference on Pulse Investigations in Chemistry, Biology and Physics PULS 2008, 6-12 September 2008, Krakau, Poland & Free Radicals in Chemical Biology, Joint Working Groups Meeting CM0603
95. S. Ptasińska, A. Stypczyńska, N.J. Mason, L. Sanche. *X-ray irradiation of multilayered DNA-polypeptide thin films*. RRS 54th Annual Meeting, September 21-24, 2008, Boston, USA
96. B. Bahnev, A. Stypczyńska, S. Ptasińska, M.D. Bowden, N.St.J. Braithwaite – *Investigation of low frequency atmospheric pressure plasma jet*. 11th Euregional WELTPP (Workshop on the Exploration of Low temperature Plasma Physics) 13-14 November 2008, Kerkrade, the Netherlands
97. B. Bahnev, A. Stypczyńska, S. Ptasińska, M.D. Bowden, N.St.J. Braithwaite – *Investigation of low frequency atmospheric pressure plasma jet*. 6th Technological Plasma Workshop, TPW 08, 15-16 December 2008, Milton Keynes, United Kingdom
98. A. Stypczyńska, S. Ptasińska, B. Bahnev, M.D. Bowden, N. Mason, N.St.J. Braithwaite – *Investigation of low frequency atmospheric pressure plasma jet*. 6th Technological Plasma Workshop, TPW 08, 15-16 December 2008, Milton Keynes, United Kingdom
99. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason - *XPS as a tool for characterising DNA damage.* IOP Atomic and Molecular Interactions Group: Winter Meeting AMIG, 29-30 January 2009, Milton Keynes, United Kingdom
100. B. Bahnev, M. Bowden, S. Ptasińska, A. Stypczynska, N. St. J. Braithwaite – DNA damaging as a detection of plasma boundaries in the open atmosphere. IOP Plasma Physics Group: Annual General Meeting, 1 April 2009, Warwick, United Kingdom
101. B. Bahnev, A. Stypczyńska, S. Ptasińska, M.D. Bowden, N.St.J. Braithwaite *Measuring plasma boundaries via observations of DNA damage.* Frontiers in Low Temperature Plasma Diagnostics (FLTPD08), 19–23 April 2009, Blansko, Czech Republic
102. A. Stypczyńska, S. Ptasińska, T. Nixon, N.J. Mason - *Directly induced damage of biomolecules studied by means of X-ray Photoelectron Spectroscopy.* ESF-EMBO Symposium Spatio-Temporal Radiation Biology: Transdisciplinary Advances For Biomedical Applications, 16-21 May 2009, Sant Feliu de Guixols, Spain
103. K. Polska, I. Sobolewski, A. Żylicz-Stachula, S. Ptasińska, N.J. Mason, P. Skowron, J. Rak - *Enzymatic/HPLC assay of 5-bromouracil incorporated in DNA by means of PCR*. 6th International Conference on Radiation Damage in Biomolecular System (RADAM), 1-5 July, 2009, Frankfurt, Germany
104. K. Polska, I. Sobolewski, A. Żylicz-Stachula, P. Skowron, P. Możejko, C. Szmytkowski, S. Ptasińska, N.J. Mason, J. Rak – *Damage to plasmid DNA induced by its interaction with gold, tantalum or silica surface.* 6th International Conference on Radiation Damage in Biomolecular System (RADAM), 1-5 July, 2009, Frankfurt, Germany
105. S. Ptasińska, A. Mauracher, S. Denifl, C.A. Hunniford, N.J. Mason, P. Scheier and R.W. MacCullough – *Desorption of small fragments from oligonucleotides induced ny low energy carbon ions.* 6th International Conference on Radiation Damage in Biomolecular System (RADAM), 1-5 July, 2009, Frankfurt, Germany
106. S. Ptasińska, B. Bahnev, A. Stypczyńska, M.D. Bowden, N.St.J. Braithwaite, N.J. Mason - The effect of a cold atmospheric pressure plasma jet on DNA. XXIII International Conference

on Photonic, Electronic, and Atomic Collisions (XXVI ICPEAC), 22 - 28 July 2009, Kalamazoo, Michigan, USA

107. S. Ptasińska, A. Stypczyńska, B. Bahnev, M.D. Bowden, N.St.J. Braithwaite, N.J. Mason - *The effect of a non-thermal atmospheric pressure plasma jet on DNA.* 55th Annual Meeting of the Radiation Research Society; October 4-7, 2009, Savannah, USA
108. G. Vall-llosera, S. Lacombe, R. Panajotovic, S. Ptasinska, S. Sarabipour, F Hennies, E Rachlew, M.A. Huels - *The morphology and degradation of adenine films*, 55th Annual Meeting of the Radiation Research Society; October 4-7, 2009, Savannah, USA
109. K. Polska, A. Żylicz-Stachula, I. Sobolewski, J. Rak, P. Skowron, P. Możejko, C. Szmytkowski, S. Ptasińska, N.J. Mason, T. Gotszalk, *Interactions of plasmid DNA with various surfaces (gold, tantalum and silica)*. IV Russian-Ukrainian-Polish Conference on Molecular Interactions, 4-9 October 2009, Jastarnia, Poland
110. O. Plekan, V. Feyer, N. Tsud, S Ptasinska, and K.C. Prince. *A photoemission study of thymidine adsorption on solid surfaces.* EIPAM/PEIC, Joint EU-Australia meeting, 12-16 October 2009, Trieste, Italy
111. S. Ptasińska, B. Bahnev, A. Stypczyńska, M. Bowden, N. St. Braithwaite, N. Mason - *Non-thermal atmospheric pressure plasma treatment of DNA molecules*. Collisions with Molecules and Clusters IOP meeting, Molecular Physics Group and the Atomic and Molecular Interactions Group (AMIG), 15-16 April 2010, The Open University, Milton Keynes, United Kingdom
112. S. Ptasinska, O. Plekan, V. Feyer, K.C. Prince - *Adsorption geometry of thymidine on Au (111) surface: experiment and computational modelling.* Isolated biomolecules and biomolecular interactions (IBBI 2010), Berlin, Germany, June 12-17, 2010
113. S. Ptasińska, A. Stypczyńska, B. Bahnev, T. Pengpan, L. Sanche, N. J. Mason - *The effect of amino-acids on DNA damage induced by cold plasma and low energy electrons.* RADAM Conference „ Radiation Damage in Biomolecular System", Madrid, Spain, 30 June- 4 July, 2010
114. A. Stypczyńska, S. Ptasińska, T. Nixon, N. Mason - *Chemical modifications of biomacromolecules caused by soft X-rays.* RADAM Conference „ Radiation Damage in Biomolecular System", Madrid, Spain, 30 June- 4 July, 2010
115. S.Denifl, S. Ptasińska, A. Mauracher, C.A. Hunniford, P. Scheier, N.J. Mason, R.W. McCullough - *Low-energy ion beam irradiation of oligonucleotides: desorption of small fragment ions.* RADAM Conference „ Radiation Damage in Biomolecular System", Madrid, Spain, 30 June- 4 July, 2010
116. M. A. Śmiałek, S. Ptasińska, J. Gow, C. DaPieve, S. Vrønning Hoffmann, N.J. Mason - *DNA radio- and photosensitation with platinum-bromine complexes.* RADAM Conference „Radiation Damage in Biomolecular System", Madrid, Spain, 30 June- 4 July, 2010
117. S. Ptasińska, B. Bahnev, A. Stypczyńska, M. Bowden, N. Mason and N. St. Braithwaite - *Detection of cold plasma effluent by probing DNA damage*. 10th European Conference on Atoms, Molecules and Photons, (ECAMP), Salamanca, Spain, July 4-9, 2010
118. A. Stypczyńska, S. Ptasińska, T. Nixon, N. Mason - *Experimental investigations of the core level spectra of biomacromolecules.* 10th European Conference on Atoms, Molecules and Photons, (ECAMP), Salamanca, Spain, July 4-9, 2010
119. S. Ptasinska, Z. Li, N.J. Mason, L. Sanche – *The influence of amino acids on the fragmentation of oligonucleotides exposed to low energy electrons.* Radiation Research Society, Annual Meeting, Maui, USA, September 25-29, 2010
120. A. Stypczyńska, S. Ptasińska, B. Bahnev, T. Pengpan, L. Sanche, N. J. Mason - *The effect of amino-acids on DNA damage induced by cold plasma and low energy electrons.* International Workshop on Radiosensitization : From fundamental processes involved in radiosensitization to biological applications, Orsay, France, December 2-3, 2010

121. O. Plekan, V. Feyer, K. C. Prince, S. Ptasinska, N. Tsud - *Cyclic dipeptide immobilization on Au (111) and Cu (110) surfaces*, 43rd Conference of the European Group for Atomic Systems (EGAS) June 28 - July 2, 2011 Fribourg, Switzerland
122. S. Ptasińska, A. Stypczyńska, B. Bahnev, M. Bowden, N. St. Braithwaite, N. Mason - Interaction of highly reactive species of cold plasma with DNA-protein complexes. 27th Miller Conference on radiation Chemistry, 20-25 May 2011, Tallberg, Sweden,
123. J. LaVerne, D.M. Chipman, I. Carmichael, D. Meisel, S. Ptasinska, *Radiation Effects in Heterogeneous Systems and at Interfaces.* 7th research Meeting of the Condensed Phase and Interfacial Molecular Science, Baltimore, MD, June 12-15, 2011
124. S. Ptasinska, A. Stypczynska, B. Bahnev, N.J. Mason, *DNA damage induced by fast-flowing metastable species in a cold plasma*. 14th International Congress of Radiation Research, 28 August-1 September 2011
125. S. Ptasinska, L. Sanche, *The action of amino acids on electron irradiated DNA films*. 14th International Congress of Radiation Research, 28 August-1 September 2011
126. J. Brems, S. Ptasinska, *The effect of X-ray induced radiation on DNA and poly-L-arginine.* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
127. W. Cantrell, S. Ptasinska, *Construction and development of an electron radiator for DNA damage studies*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
128. B. Coffey, S. Ptasinska, *Development and species characterization of atmospheric pressure plasma jets*, Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
129. J. Levri, S. Ptasinska, *Plasma surface cleaning.* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
130. Y. Yurkovich, S. Ptasinska, *Treatment of SCC-25 oral cancer cells with non-thermal atmospheric pressure plasma jet.* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 4, 2012
131. S. Reiff, S. Ptasinska, *Radiation damage of DNA from 10 eV electrons monitored by x-ray photoelectron spectroscopy.* 12th International Workshop on Radiation Damage to DNA, Prague, Czech Republic, June 2-6, 2012
132. S. Ptasinska, M. Klas, X. Han. *Atmospheric pressure plasma jet for biomedical applications.*12th International Workshop on Radiation Damage to DNA, Prague, Czech Republic, June 2-6, 2012
133. S. Ptasinska, X. Han, J. Levri, M. Klas. *DNA damage by Atmospheric Pressure Plasma Jet.* Gordon Research Conference: Plasma Processing Science, Smithfield, RI, USA, July 22-27 2012
134. I. Tolbatov, D.M. Chipman, S. Ptasinska. *Towards understanding of Titan's atmosphere chemistry.* Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012
135. X. Han, E. Escobar, M. Klas, J. Levri, J. Yurkovich, B. Coffey, S. Ptasinska, *Atmospheric Pressure Plasma Jet for treatment of biological surfaces.* Gordon Research Conference: Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012
136. S. Reiff, J. Brems, A. Stypczynska, T. Nixon, N.J. Mason, S. Ptasinska. *Investigation of radiation damage to poly-L-arginine using X-Ray Photoelectron Spectroscopy.* Gordon Research Conference: Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012
137. J.A. LaVerne, D.M. Bartels D.M. Chipman, S. Ptasińska. *Radiation Chemistry Underpinning Nuclear Power Generation*, 8th research Meeting of the Condensed Phase and Interfacial Molecular Science, Potomac Maryland, October 21 – 24, 2012

138. D.M. Bartels, I. Carmichael, D.M. Chipman, I. Janik, J.A. LaVerne, S. Ptasińska, *Fundamental Advances in Radiation Chemistry*, 8th research Meeting of the Condensed Phase and Interfacial Molecular Science, Potomac Maryland, October 21 – 24, 2012
139. J. Yurkovich, X. Han, B. Coffey, M. Klas, S. Ptasinska, *Treatment of oral cancer cells with nonthermal atmospheric pressure plasma jet.* 65th Annual Gaseous Electronics Conference, Austin, TX, USA, October 22 -26, 2012
140. E. Lamere, X. Zhang, X. Li, J. Furdyna, S. Ptasinska, *Morphology effects in electronic properties of GaAs.* Graduate Student Union Research Symposium Notre Dame, IN February 27, 2013
141. J. Brems, S. Ptasinska, *Characterization of Polyamine/DNA Bilayers for Bio-functional Material Purposes*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
142. W.A. Cantrell, S. Ptasinska, *Damage to DNA in DNA-Gold Nanoparticle Mixture by Atmospheric Pressure Plasma Jet.* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
143. J. Kabuye, S. Ptasinska, *Dissociative Electron Attachment to DNA in a DNA-Glycine mixture.* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
144. E. Kunce, S. Ptasinska, *Effects of Helium Plasma Radiation on Glycine Solution*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
145. R. Mumme, S. Ptasinska, *Characterization of Polyelectrolytic Microcapsules by Atomic Force Microscopy.* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 3, 2013
146. I. Tolbatov, S. Ptasinska, D.M. Chipman, *Formation of monocarbon molecular complexes from irradiated methane - nitrogen mixtures in He droplets.* 45th Midwest Theoretical Chemistry Conference. Urbana-Chmpaing, IL, May 29– 31, 2013
147. X. Zhang, S. Ptasinska, *Growth of Amorphous Silicon Nitride Film on Silicon Wafer by Atmospheric Pressure Plasma Jet.* 35th Annual Symposium on Applied Surface Analysis, Urbana-Champaign, IL, June 5-7, 2013
148. E. Lamere, X. Zhang, X. Liu, J. Furdyna, S. Ptasinska, *Characterization of Environmental Molecules on GaAs Surfaces by Near Ambient Pressure X-ray Photoelectron Spectroscopy*, 35th Annual Symposium on Applied Surface Analysis, Urbana-Champaign, IL, June 5-7, 2013
149. E. Lamere, X. Zhang, X. Liu, J. Furdyna, S. Ptasinska, *Size-dependent effects on the electronic properties of GaAs*. 55th Electronic Materials Conference, Notre Dame, IN, June 26-28, 2013
150. X. Zhang, S. Ptasinska, *Silicon surface treatment by Atmospheric Pressure Plasma Jet.* 55th Electronic Materials Conference, Notre Dame, IN, June 26-28, 2013
151. I. Tolbatov, S. Ptasinska, D.M. Chipman, *Methane clusters under electron irradiation*. 246th American Chemical Society National Meeting, Indianapolis, IN, September 8–12, 2013
152. X. Zhang, E. Lamere, X. Liu, J. Furdyna, S. Ptasinska. *In-situ X-ray photoelectron spectroscopy studies of small environmental molecules on GaAs surface.* 246th American Chemical Society National Meeting, Indianapolis, IN, September 8–12, 2013
153. M.M. Dawley, S. Ptasinska, *Dissociative electron attachment studies using a new optimized crossed molecular beam/low–energy electron experimental chamber.* 246th American Chemical Society National Meeting, Indianapolis, IN, September 8–12, 2013
154. S. Reiff, J. Brems, S. Ptasinska, *Characterization of interfaces between polypeptide and DNA layers using X-ray photoelectron spectroscopy*, 19th International Vacuum Congress (IVC), Paris, France, September 9-13, 2013
155. X. Zhang, S. Ptasinska, *Growth of Amorphous Silicon Nitride Films on Silicon Wafer by Atmospheric Pressure Plasma Jet.* 66th Gaseous Electronic Conference (GEC), Princeton, NJ, September 30-October 4, 2013

156. X. Han, M. Klas, Y. Liu, M.S. Stack, S. Ptasinska. *DNA damage in oral cancer cells induced by nitrogen atmospheric pressure plasma jets*. 66th Gaseous Electronic Conference (GEC), Princeton, NJ, September 30-October 4, 2013
157. J. Brems, S. Ptasinska, *Characterization of Layer-by-Layer DNA/PLA Microcapsules by Atomic Force Microscopy.* College of Science – Fall Undergraduate Research Fair 2013, Notre Dame October 31, 2013, Notre Dame
158. E. Kunce, S. Ptasinska*, Glycine Alteration By Cold Atmospheric Plasma.* College of Science – Fall Undergraduate Research Fair 2013, Notre Dame October 31, 2013
159. I. Tolbatov, D. Chipman, S. Ptasinska, *On the way to understanding the chemistry of Titan's atmosphere,* Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
160. X. Han, S. Ptasinska, *Atmospheric Pressure Plasma Jet as a New Tool for Medical Application,* Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
161. K.P. Arjunan, S. Ptasinska, *Surface Sterilization by Cold Atmospheric Pressure Plasma Jet,* Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
162. X. Zhang, S. Ptasinska, *Near ambient pressure X-ray photoelectron spectroscopy study of N_2O, NO and O_2 interactions with GaAs (100).* Graduate Student Union, Graduate Research Symposium, Notre Dame, February 27, 2014
163. X. Han, Y. Liu, M.S. Stack, S. Ptasińska, *Cold atmospheric plasma jet as a new tool for cancer cell treatment*, Harper Cancer Research Institute Research Day, Notre Dame, IN April 14, 2014
164. I. Tolbatov, D.M. Chipman, S. Ptasińska, *Study of clusterization processes in the irradiated ultra-cold methane - nitrogen mixtures.* 3rd Annual GPS Spring Conference, Notre Dame. IN April 28, 2014
165. W. Cantrell, N. Brinkmann, S. Ptasinska, *Computational Examination of Electron-Induced Dissociation of Hypoxanthine and Adenine* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
166. A. Jensen, S. Ptasinska, *Damage to DNA with Various Flow Rates by Atmospheric Pressure Plasma Jet,* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
167. J. Kabuye, S. Ptasinska, *Dissociative Electron Attachment to DNA in a DNA-Glycine mixture,* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
168. E. Kunce, S. Ptasinska, *Effects of Atmospheric-Pressure Helium Plasma on Cysteine Solutions,* Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 2, 2014
169. X. Han, W.A. Cantrell, E.E. Escobar, Y. Liu, M.S. Stack, S. Ptasinska, *Damage of plasmid and cellular DNA induced by atmospheric pressure plasma jets.* 13th International Workshop on Radiation Damage to DNA, MIT, Cambridge, Massachusetts USA, June 14-18, 2014
170. K.P. Arjunan, S. Ptasinska, *Surface Sterilization by Cold Atmospheric Pressure Plasma Jet Ignited in Helium and Helium/Oxygen Mixture*, Gordon Research Conference: Plasma Processing Science, Bryant University Smithfield, RI, July 26-27, 2014
171. X. Han, Y. Liu, M.S. Stack, S. Ptasinska, *DNA damage in oral cancer and healthy cells induced by nitrogen atmospheric pressure plasma jets.* Gordon Research Conference: Plasma Processing Science, Bryant University Smithfield, RI, July 26-27, 2014
172. X. Han, I. Janik, S. Ptasinska, *Radiation dose characterization of helium atmospheric pressure plasma jets using Fricke dosimetry for biological applications.* Gordon Research Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014
173. W.A. Cantrell, M.M. Dawley, N.R. Brinkmann, S. Ptasinska, *Electron Ionization of the Nucleobases Adenine and Hypoxanthine*. Gordon Research Conference: Radiation Chemistry,

Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014

174. M.M. Dawley, S. Ptasinska, *Dissociative electron attachment to gas-phase N-methylformamide,* Gordon Research Conference: Radiation Chemistry, Radiation Driven Processes In Physics, Chemistry, Biology and Industry, Andover, NH, July 13-18, 2014
175. C. Luck, E. Bell, S. Ptasinska, *Plasmid DNA Damage Induced by Helium and Oxygen Atmospheric Pressure Plasma Jet.* Summer Undergraduate Research Symposium, Notre Dame, IN August 1, 2014
176. S. Ptasinska, X. Han, *DNA Strand Break Formation in Cells by Atmospheric Pressure Plasma Jet*, 27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2014), Belgrade, Serbia, August 26 -29, 2014
177. X. Zhang, S. Ptasinska, *Dynamic H_2O/GaP (110) interfacial chemistry tracked by near ambient pressure XPS in real time.* Loyola University Chicago, Chicago, IL, September 10, 2014
178. X. Zhang, S. Ptasinska, *Evolution of surface-assisted oxidation of GaAs (100) by gas-phase N_2O, NO and O_2 probed by near ambient pressure X-ray photoelectron spectroscopy*, Dynamics, Interactions and Electronic Transitions at Surfaces (DIET 14), Pacific Grove, CA, October 13-17, 2014
179. J.A. LaVerne, D.M. Bartels, I. Carmichael, S. Ptasinska, *Interfacial Radiation Sciences*. 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Potomac, Maryland, October 19-22, 2014D.M. Bartels, I. Carmichael, D.M. Chipman, I. Janik, J.A. LaVerne, S. Ptasińska, *Fundamental Advances in radiation Chemistry*, 10th Condensed Phase and Interfacial Molecular Science (CPIMS) Program, Potomac, Maryland, October 19-22, 2014
180. S. Ptasinska, X. Zhang, *Morphology Dependence of Gas-Phase Molecule Interactions with GaAs Surfaces*, American Vacuum Conference, 61st International Symposium & Exhibition, Baltimore, MD, November 9-14, 2014
181. X. Zhang, S. Ptasinska, *Evolution of Surface-Assisted Oxidation of GaAs by Gas-Phase N_2O, NO and O_2,* American Vacuum Conference, 61st International Symposium & Exhibition, Baltimore, MD, November 9-14, 2014
182. X. Zhang, S. Ptasinska, Dynamic *H_2O/GaP (111) interfacial chemistry monitored by near-ambient pressure XPS in real time.* Pacific Rim Symposium on Surfaces, Coatings and Interfaces (PacSurf 2014), Big Island of Hawaii, December 7-11, 2014
183. S. Ptasinska, X. Zhang, *Interfacial Chemistry between gas-phase molecules and GaAs surfaces: morphology dependence.* Pacific Rim Symposium on Surfaces, Coatings and Interfaces (PacSurf 2014), Big Island of Hawaii, December 7-11, 2014
184. S. Ptasinska, X. Zhang, *Interfacial chemistry of water and Ga-based semiconductor surfaces.* International workshop on "Surface chemistry and near-ambient pressure photoemission; new tools and new paradigms" SOLEIL, France, December 10-12, 2014
185. W. Huang, S. Ptasinska, *Functionalization of Graphene by Atmospheric Pressure Plasma Jet,* Gordon Research Conference: Chemical Reactions at Surfaces, Ventura, California, February 7-13, 2015
186. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA.* Graduate Student Union and Office for Postdoctoral Scholars 7th Annual Research Symposium, Notre Dame, IN, April 9, 2015
187. X. Han, J. Kapaldo, I. Janik, S. Ptasinska, *Plasma jet induced liquid chemistry.* Graduate Student Union and Office for Postdoctoral Scholars 7th Annual Research Symposium, Notre Dame, IN, April 9, 2015
188. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. 4th Annual Harper Cancer Research institute Research Day, Notre Dame, IN, April 13, 2015

189. X. Zhang, S. Ptasinska, *Dynamic H_2O/GaP (111) Interfacial Chemistry Monitored by Near-Ambient Pressure XPS in Real Time*. GLCACS Annual Conference, Northwestern University, Evanston, IL, USA, May 2, 2015
190. S. Ptasinska, X. Zhang, *Interfacial processes between gas-phase molecules and Ga-based surfaces probed by near-ambient pressure XPS*. 37th Department of Energy Solar Photochemistry Research Conference, Gaithersburg, Maryland, May 31-June 3, 2015
191. W. Huang, S. Ptasinska, *Functionalization of Graphene by Atmospheric Pressure Plasma Jet*. American Vacuum Society (AVS) Prairie Chapter Symposium, Notre Dame, IN, September 10, 2015
192. S. Sadhu, W. Huang, S. Ptasinska, *Effects of Organic Halides and Substrates on the Perovskite Crystal Growth*. American Vacuum Society (AVS) Prairie Chapter Symposium, Notre Dame, IN, September 10, 2015
193. X. Zhang, S. Ptasinska, *Dynamic O_2 and H_2O/GaP (111) Interfacial Chemistry Monitored by Near-Ambient Pressure X-ray Photoelectron Spectroscopy*. American vacuum Society (AVS) Prairie Chapter Symposium, Notre Dame, IN, September 10, 2015
194. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA.* 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
195. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *DNA damage in oral cancer cells induced by atmospheric pressure plasma jets.* 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
196. J. Kapaldo, X. Han, S. Ptasinska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
197. Z. Li, M.M. Dawley, S. Ptasinska, *Gas Phase Dissociative Electron Attachment to Formamide Derivatives NMF and DMF*. 68th Annual Gaseous Electronics Conference (GEC)/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing, Honolulu, HI, October 12-16, 2015
198. X. Zhang, S. Ptasinska, *Formation of Heterogeneous Multiple-Oxide/Hydroxide Species on a GaP(111) Surface tracked by In-situ Near-Ambient Pressure XPS.* American Vacuum Society (AVS) 62st International Symposium & Exhibition, San Jose, CA, October 18-23, 2015
199. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA.* Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
200. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
201. W. Huang, S. Ptasinska, *Functionalization of Graphene by Atmospheric Pressure Plasma Jet*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
202. J. Kapaldo, X. Han, S. Ptasinska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
203. S. Sadhu, W. Huang, S. Ptasinska, *Effects of Organic Halides and Substrates on the Perovskite Crystal Growth*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015

204. X. Zhang, S. Ptasinska, *Formation of Multiple-Oxide/Hydroxide Species on GaP(111) Surface tracked by Near-Ambient Pressure XPS*. Annual Fall Meeting of the American Physics Society Prairie Section, South Bend, IN, November 19-21, 2015
205. W. Huang, S. Ptasinska, *Evolution of Chemo-structural Composition of $CH_3NH_3PbI_3$ Perovskite under Ambient Conditions*. 2nd Annual AP-XPS Workshop, Lawrence Berkeley National Laboratory, CA, December 7-9, 2015.
206. X. Zhang, S. Ptasinska, *Dynamic O_2 and H_2O/GaP (111) Interfacial Chemistry Monitored by Near-Ambient Pressure X-ray Photoelectron Spectroscopy.* 2nd Annual AP-XPS Workshop, Lawrence Berkeley National Laboratory, CA, December 7-9, 2015.
207. S. Sadhu, W. Huang, S. Ptasinska, *Investigation of Water Adsorption on Oriented Rutile (001) Titania Nanorods at Ambient Conditions through In-situ X-ray Photoelectron Spectroscopy.* 2nd Annual AP-XPS Workshop, Lawrence Berkeley National Laboratory, CA, December 7-9, 2015
208. E. Adhikari, S. Ptasinska, *Characterization of an Atmospheric Pressure Plasma Jet (APPJ) and its Effect on Plasmid DNA.* Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
209. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
210. J. Kapaldo, X. Han, S. Ptasinska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
211. Z. Li, M.M. Dawley, S. Ptasinska, *Gas Phase Dissociative Electron Attachment to Formamide Derivatives NMF and DMF*. Graduate Physics Students Annual Conference, Notre Dame, IN, December 11, 2015
212. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. Three minute thesis (3MT) in Science division, Notre Dame, IN, February 24, 2016
213. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. 5th Annual Harper Cancer Research institute Research Day, Notre Dame, IN, April 4, 2016
214. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *Cold plasma as a novel tool for cancer treatment*. 8th Annual Graduate Student Union, Notre Dame, IN, April 19, 2016
215. J. Kapaldo, X. Han, S. Ptasinska, *A characterization of atmospheric pressure plasma jets through a spatio-temporal mapping of the optical emission spectra*. 8th Annual Graduate Student Union, Notre Dame, IN, April 19, 2016
216. C. Ferari, S. Ptasinska, *Computational Analysis of Dissociative Electron Attachment to Thymine*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, April 29, 2016
217. E. Kunce, S. Ptasinska, *The Effect of Plasma Radiation on Nucleobase Solutions*. Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, April 29, 2016
218. X. Zhang, S. Ptasinska, *Interfacial Processes at H_2O/III-V Semiconductor Surfaces under Operando Conditions*. 38th Department of Energy Solar Photochemistry Research Conference, Gaithersburg, Maryland, June 6-9, 2016
219. E. Adhikari, S. Ptasinska, *The role of helium atmospheric pressure plasma jet (APPJ) parameters on plasma induced DNA damage.* Gordon Research Conference/Seminar (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016
220. X. Han, J. Kapaldo, Y. Liu, M.S. Stack, S. Ptasinska, *DNA damage in oral cancer cells induced by nitrogen atmospheric plasma jets.* Gordon Research Conference (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016

221. J. Kapaldo, X. Han, S. Ptasinska, *High throughput imaging for studying the spatial effect of cold atmospheric plasma jets on cell cultures.* Gordon Research Conference (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016
222. V. Samara, S. Ptasinska *Investigation of Atmospheric Pressure Plasma Jets by Schlieren photography and interferometry.* Gordon Research Conference (GRC/GRS): Plasma Processing Science, Andover, NH, USA, July 24-29 2016
223. X. Han, J. Kapaldo, I. Janik, S. Ptasinska, Interactions of atmospheric pressure plasma jet with liquid surfaces. 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2016), Belgrade, Serbia, August 29-September 2, 2016
224. M. Ryszka, E. Alizadeh, S. Ptasinska, *Low Energy Electron Induced Fragmentation of Nicotine and N-Methylpyrrolidine.* 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2016), Belgrade, Serbia, August 29-September 2, 2016
225. X. Zhang, S. Ptasińska, *Interfacial processes at H_2O/III-V semiconductor surfaces under operando conditions.* 38th Department of Energy Solar Photochemistry Research Conference, Gaithersburg, MD June 6-9, 2016
226. E.R. Adhikari, X. Han, J. Kapaldo, V. Samara, I. Janik, S. Ptasińska, *Atmospheric pressure plasma jet: its characterization and equivalent dose in aqueous solutions.* 1st International Conference on Ionizing Processes, Brookhaven National Laboratory, Upton, NY October 10-14, 2016
227. M. Ryszka, E. Alizadeh, S. Ptasińska, *Low energy electron-induced fragmentation of nicotine and N-methylpyrrolidine.* 1st International Conference on Ionizing Processes, Brookhaven National Laboratory, Upton, NY October 10-14, 2016
228. H. Schurr, E. Panken, S. Ptasińska. *Effects of plasma radiation on nucleobase and plasmid DNA solutions.* College of Science- Fall Undergraduate Research Fair, University of Notre Dame, Notre Dame, IN October 27, 2016
229. E. Wellman, E.R. Adhikari, S. Ptasińska. *Electrical plasmas for biomedical applications.* College of Science- Fall Undergraduate Research Fair, University of Notre Dame, Notre Dame, IN October 27, 2016
230. D.M. Bartels, I. Carmichael, I. Janik, J.A. LaVerne, S. Ptasińska, *Fundamental advances in radiation chemistry.*12th Condensed Phase and Interfacial Molecular Science PI Meeting, Gaithersburg, MD November 1-4, 2016
231. J.A. LaVerne, D.M. Bartels, I. Carmichael, S. Ptasińska. *Interfacial radiation sciences.* 12th Condensed Phase and Interfacial Molecular Science PI Meeting, Gaithersburg, MD November 1-4, 2016
232. S. Sadhu, W. Huang, S. Ptasinska. *Exploring the Aging of MoS_2 through Ambient Pressure X-ray Photoelectron Spectroscopy.* Inaugural College of Science - Joint Annual Meeting (COS-JAM) for Graduate Students and Postdoctoral Fellows University of Notre Dame, Notre Dame, IN May 4, 2017
233. E. Wellman, E. Adhikari, S. Ptasinska. *Electrical Plasmas for Biomedical Applications.* 11th Notre Dame College of Science Joint Annual Meeting, Notre Dame, IN, May 5, 2017
234. V. Samara, S. Ptasinska. *Interaction of Atmospheric Pressure Plasma Jet with Helium Flow.* the 44th IEEE International Conference on Plasma Science (ICOPS 2017), Atlantic City, NJ May 21-25, 2017
235. S. Ptasinska, *Chemo-Structural Composition and Photovoltaic Efficiency of $CH_3NH_3PbI_3$ Perovskite affected by external factors.* 39th DOE Solar Photochemistry Research Principal Investigator Meeting, Gaithersburg, MD, June 5-8, 2017
236. W. Huang, S. Ptasinska, *Chemical transformations of hybrid perovskites under environmental conditions*. 21th Annual Conference of the Chinese American Chemical Society Great Lakes Chapter of CACS (GLCACS), June 10, 2017

237. D.M Bartels, I. Carmichael, I. Janik, J.A. LaVerne, S. Ptasińska, *Fundamental Advances in radiation Chemistry.* 13th Condensed Phase and Interfacial Molecular Science (CPIMS) Research Meeting, Gaithersburg, MD, October 15-18, 2017
238. E. Adhikari, V. Samara, S. Ptasinska, *Effects of Oxygen or Water in Plasma Jet Environment and Feed Gas on DNA Damage.* 64th American Vacuum Society International Symposium and Exhibition in Tampa, Florida. October 29-November 3, 2017
239. P. Sapkota, S. Ptasinska, *Ambient Pressure X-ray Photoelectron Spectroscopy of the III-V Semiconductor/Water Interface*. 64th American Vacuum Society International Symposium and Exhibition, Tampa, Florida. October 29-November 3, 2017
240. E. Adhikari, V. Samara, S. Ptasinska, *Influence of Oxygen or Water Vapor in a Plasma Jet and its Environment on DNA Damage.* Inaugural Colleges of Science & Engineering Joint Annual Meeting (COSE-JAM), Jordan Hall, Notre Dame, December 8, 2017
241. P. Sapkota, A. Cabrera, S. Ptasinska, *In situ Monitoring Copper-based Oxide/Water Interfacial Reactions by X-ray Photoelectron Spectroscopy.* American Physical Society, March Meeting 2018, Los Angeles, California, March 5-9, 2018
242. J. Cartelli, D. Ullery, B. Storke, S. Hernandez, F. Walz, M.S. Devadas, S. Ptasinska, R. Kolagani, *Effects of Fluorination on the Structural and Electrical Properties of Epitaxial* $La_{0.67}Ca_{0.33}MnO_{3-y}$ *Thin Films.* American Physical Society, March Meeting 2018, Los Angeles, California, March 5-9, 2018
243. E. Wellman, E. Adhikari, S. Ptasinska, *Atmospheric Pressure Plasma Jets for Biomedical Applications*, the College of Science Joint Annual Meeting (COS-JAM), University of Notre Dame, May 4, 2018
244. E. Adhikari, V. Samara, S. Ptasinska, *Influence of* O_2 *or* H_2O *in a Plasma Jet and Its Environment on Plasma Electrical and Biochemical Performances*, Gordon Research Conference (GRC/GRS): Plasma Processing Science, Smithfield, RI, USA, August 4-10, 2018
245. E. Adhikari, V. Samara, K. Jammeh, S. Ptasinska, *In situ Measurements of Total Yield of Species Originating from Plasma Jets*, 71st Annual Gaseous Electronics Conference (GEC 2018), Portland, Oregon, November 5-9, 2018
246. E. Adhikari, V. Samara, S. Ptasinska, *Total Yield of Reactive Species Originating from an Atmospheric Pressure Plasma Jet in Real Time*. 2nd Annual Colleges of Science and Engineering Joint Annual Meeting (COSE-JAM), Notre Dame, Indiana, December 7, 2018.
247. B.C. Wood, T. Ogitsu, T.A. Pham, X. Zhang, S. Ptasinska, *Integrating simulations and experiments to probe complex photoelectrochemical interfaces under realistic operating conditions.* Spring Meeting of the American Chemical Society, Orlando, Florida, March 31-April 4, 2019
248. D. Lipa, E. Adhikari, S. Ptasinska, *The Effect of Hydrogen Peroxide Gas from an Atmospheric Pressure Plasma Jet on Aqueous DNA*. 13th College of Science - Joint Annual Meeting (COS-JAM) Notre Dame, Indiana, May 3, 2019
249. X. Zhang, T. Ogitsu, B.C. Wood, T.A. Pham, S. Ptasinska, *Revealing Oxidation Mechanisms onto Semiconductor Surfaces*. 41st Department of Energy Solar Photochemistry Principle Investigator Meeting in Gaithersburg, Maryland, June 3-5, 2019
250. Z. Li, M. Ryszka, M.M. Dawley, I. Carmichael, K.B. Bravaya, S. Ptasińska, *Electron-Induced Fragmentation of Peptide Model Molecules*. 8th POSMOL 2019: (XX International Workshop on Low-Energy Positron and Positronium Physics and XXI International Symposium on Electron-Molecule Collisions and Swarms) Belgrade, Serbia, July 18-20, 2019
251. A.R. Milosavljević, D.K. Božanić, D. Danilović, P. Sapkota, N. Vukmirović, S. Sadhu, R. Dojčilović, W. Huang, J. Bozek, C. Nicolas, L. Nahon, S. Ptasinska, *Investigation of the electronic structure of energy conversion nanosystems by combined surface XPS and synchrotron-based gas-phase VUV/X-ray PES.* XXXI International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC) Deauville, France, July 23-30, 2019

252. S.A. Pshenichnyuk, I.I. Fabrikant, A. Modelli, S. Ptasińska, A.S. Komolov, *Resonance electron interaction with heterocyclic compounds: Vibrational Feshbach resonances and hydrogen atom stripping.* XXXI International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC) Deauville, France, July 23-30, 2019
253. J. Ameixa, E. Arthur-Baidoo, J. Pereira-da-Silva, M. Ryszka, F. Ferreira da Silva, I. Carmichael, S. Ptasińska, S. Denifl, Low-energy electron interactions with benzaldehyde. 1st NOVA Biophysica, Lisbon, Portugal, September 4-6, 2019
254. A. Sebastian, S. Ptasinska, *Atmospheric Pressure Plasma: An Alternative Tool for the Synthesis of Efficient Photocatalytic Materials."* Sustainability Expo, Notre Dame Energy Week, University of Notre Dame, Notre Dame, Indiana, September 17, 2019.
255. A. Sebastian, S. Ptasinska, *Predictive modeling of plasma-induced DNA damage: A machine learning approach to plasma.* 23rd International Summer School (October 5-10, 2019) and Master classes (October 10-12, 2019) on Low Temperature Plasma Physics: Basics and Applications, Bad Honnef, Germany, October 5-12, 2019
256. P. Sapkota, S. Ptasinska, *In-situ X-ray Photoelectron Spectroscopic Study of III-V Semiconductor/H2O Interfaces under Light Illumination.* American Vacuum Society (AVS) 66th International Symposium & Exhibition, Columbus, Ohio, October 20-25, 2019
257. A. Sebastian, *Atmospheric Pressure Plasma: An Alternative Tool for the Synthesis of Efficient Photocatalytic Materials*. American Vacuum Society (AVS) 66th International Symposium & Exhibition, Columbus, Ohio, October 20-25, 2019
258. D. Lipa, S. Ptasinska, *Modeling of the damage done by an atmospheric pressure plasma to aqueous DNA*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, Indiana, October 31, 2019
259. T. Tarkleson, S. Ptasinska, *New methods in cancer radiation research: thymine fragmentation, IR spectroscopy, and 3-D printing technology*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, Indiana, October 31, 2019
260. A. Sebastian, S. Ptasinska, *Predictive modeling of plasma-induced DNA damage: A machine learning approach to plasma medicine*. Graduate Physics Society Annual Conference, University of Notre Dame, Notre Dame, Indiana, November 13, 2019
261. A. Sebastian, S. Ptasinska, *Atmospheric Pressure Plasma: An Alternative Tool for the Synthesis of Efficient Photocatalytic Materials*. Annual Colleges of Science and Engineering Joint Annual Meeting (COSE-JAM), Notre Dame, Indiana, December 13, 2019
262. D. Danilović, D.K. Božanić, N. Vukmirović, P. Sapkota, R. Dojčilović, V. Đoković, L. Nahon, J. Bozek, Ch. Nicolas, S. Ptasinska, A.R. Milosavljević, *VUV/X-ray Photoelectron Spectroscopy of Nanocrystals for Solar Cells Absorbers Isolated in vacuo*. 1st annual meeting of the COST Action CA18212 "Molecular Dynamics in the GAS phase" – MD-GAS, Caen, France, February 18-21, 2020
263. X. Zhang, T.A. Pham, B. Wood, D. Prendergast, S. Ptasinska, T. Ogitsu, *Probing electrochemical processes at surfaces and interfaces by a combination of ab-initio simulations and in-situ characterizations.* American Physical Society, March Meeting 2020, March 2-6, 2020 (virtual)
264. P. Kinkopf, A. Sebastian, S. Ptasinska, *Optimizing Plasma-Induced DNA Damage for Atmospheric Pressure Plasma Jets*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, October 8, 2020 (virtual)
265. D. Lipa, A. Sebastian, S. Ptasinska, *Using Machine Learning to Predict Aqueous DNA Damage Caused by an Atmospheric Pressure Plasma Jet*. " Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, October 8, 2020 (virtual)
266. A. Sebastian "Blending machine learning and thermal engineering for plasma diagnostics: A predictive modeling study using plasmid DNA" 73rd Gaseous Electronics Conference (GEC) 2020, October 5-9, 2020 (virtual)

267. D. Chakraborty, Eckermann, I. Carmichael, S. Ptasinska, *Dissociative electron attachment studies of molecules containing amide bond.* 73rd Gaseous Electronics Conference (GEC) 2020, October 5-9, 2020 (virtual)
268. A. Sebastian, S. Ptasinska, *A novel plasma diagnosis approach via physics guided neural networks: A predictive modeling study using plasmid DNA.* 3rd International Conference on Data-Driven Plasma Science (ICDDPS-3), March 29-April 2, 2021 (virtual)
269. D. Lipa, A. Sebastian, S. Ptasinska, *Using Machine Learning to Predict Aqueous DNA Damage Caused by an Atmospheric Pressure Plasma Jet*. " ND College of Science Joint Annual Meeting (COS-JAM), University of Notre Dame, Notre Dame, May 12, 2021 (virtual)
270. L. Eckermann, D. Chakraborty, I. Carmichael, S. Ptasinska, *Dissociative electron attachment to N-methylacetamide.* POSMOL/EMS 2021 conference (XXII International Symposium on Electron-Molecule Collisions and Swarms), July 29-30, 2021 (virtual)
271. S. Ptasinska, *Re-Evaluating Routes of Oxidation of III-V Semiconductor Surfaces*. U.S. Department of Energy-Basic Energy Science Solar Photochemistry Principle Investigators' Meeting, June 8-10, 2022 (virtual)
272. A. Casotto, L. Sangletti, S. Ptasinska, *Probing acetone adsorption on SAM-functionalized ZnO nanowires through NAP-XPS*, Università Cattolica del Sacro Cuore, Italy, January 25, 2023 (virtual)
273. A. Milosavljević, C. Nicolas, G. Garcia, J. Bozek, L. Nahon, D. Bozanic, D. Radinovic, R. Dojclovic, J. Pajovic, V. Djokovic, N. Vukmirovic, P. Sapkota, W. Huang, S. Sadhu, S. Ptasinska, *Measuring of Electronic Properties of free standing lead halide perovskite nanocrystals isolated in vacuo at SOLEIL*. Workshop: Large Scale Facilities and Hybrid Perovskite, SOLEIL, Orsay, France, February 2, 2023
274. D. Chakrabprty, S. Ptasinska, *Dynamics of resonant low energy electron attachment to ethanol producing hydroxide anions*. POSMOL 2023, University of Notre Dame, IN, August 3-6, 2023
275. B. de Campos Silva, S. Ptasinska, *Exploring Plasma Radiation Effects on Solution pH for Medical Applications*. "Talk Science" seminar series, ND College of Science, October 5, 2023
276. D. Chakraborty, P. Anirban, S. Ptasinska, I. Carmichael, N. Dhananjay, *Dissociation dynamics of low energy electron attachment to carbon disulfide studied using velocity slice imaging technique* 76th Annual Gaseous Electronics Conference (GEC) Ann Arbor, MI, October 9 - 13, 2023
277. B. de Campos Silva, S. Ptasinska, Exploring the Effects of Plasma Radiation on the pH of Solutions for Potential Medical Applications. Fall Undergraduate Research Fair (FURF) at Notre Dame, October 26, 2023
278. A. Bittinger, S. Ptasinska, I. Carmichael, *Dissociative electron attachment to ethanol: resonance energies and fragmentation pathways.* Conference for Undergraduate Women in Physics (CUWiP 2024), Georgia Institute of Technology, Atlanta, GA, January 19-21, 2024
279. B. Campos de Silva, S. Ptasinska, *Exploring the Effects of Plasma Radiation on the pH of Solutions for Potential Medical Applications*. Conference for Undergraduate Women in Physics (CUWiP 2024), University of Michigan, Ann Arbor, MI, January 19-21, 2024
280. G. Kharchilava, D. Chakraborty, S. Ptasinska, J. Finley. *Resonant low energy electron capture and fragmentation pathways of anisole.* American Physical Society (APS) March Meeting, Minneapolis & Virtual, MN March 3 – 8, 2024
281. B. de Campos Silva, S. Ptasinska. *Exploring the Effects of Plasma Radiation on the pH of Solutions for Potential Medical Applications.* 18th annual ACC Meeting of the Minds Conference, South Bend, IN April 5-7, 2024
282. C. Garcia Villavicencio, B. de Campos Silva, S. Ptasinska. *Exploring pH Dynamics in Amino Acid Solutions under Low-Temperature Plasma Exposure.* Graduate Physics & Astronomy Students (GPAS) Annual Conference, University of Notre Dame, IN April 24, 2024

283. B-A. Chen, S. Ptasinska, P.V. Kamat. *Optical Properties and Applications of Molecular-Intercalated MoS_2.* Material Research Society (MRS) Spring Meeting & Exhibit, Seattle, WA April 22-26, 2024
284. J. Finley, G. Kharchilava, D. Chakraborty, I. Carmichael, S. Ptasinska. *Dynamics and Fragmentation Channels Induced Through Dissociative Electron Attachment to Anisole.* College of Science Joint Annual Meeting (COS-JAM), University of Notre Dame, Notre Dame, IN May 2, 2024
285. B. de Campos Silva, S. Ptasinska. *Exploring the Effects of Plasma Radiation on Solution pH for Potential Medical Applications.* College of Science Joint Annual Meeting (COS-JAM), University of Notre Dame, Notre Dame, IN May 2, 2024
286. D. Chakraborty, S. Ptasinska, D. Slaugther. *Dynamics of resonant low energy electron attachment to dimethyl formamide.* 55th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, Fort Worth, TX June 3–7, 2024
287. G. Kharchilava, D. Chakraborty, J. Finley, S. Ptasinska, I. Carmichael. *Low-energy electron attachment to diethyl carbonate.* 4th DEA Club Meeting in Potsdam, Germany June 19-21, 2024
288. G. Kharchilava, D. Chakraborty, J. Finley, S. Ptasinska, I. Carmichael. *Dissociative Electron Attachment to Diethyl Carbonate.* Summer Undergraduate Research Symposium, University of Notre Dame, Notre Dame, IN July 24, 2024
289. D. Chakraborty, S. Ptasinska. *Development of a velocity map imaging spectrometer and its application in understanding the dynamics of low energy electron-molecule collisions.* 27th International Conference on the Application of Accelerators in Research and Industry (CAARI) and the 55th Symposium of Northeastern Accelerator Personnel (SNEAP) Fort Worth, TX July 21-26, 2024
290. G. Kharchilava, J. Finley, D. Chakraborty, I. Carmichael, S. Ptasinska. *Dissociative Electron Attachment to Diethyl Carbonate.*38th International Conference of Physics Students (ICPS) in Tbilisi, Georgia. August 4-11, 2024
291. D. Chakraborty, S. Ptasinska. *Development and application of velocity slice Imaging technique.* 4th International Conference on Ionizing Processes (ICIP), University of Notre Dame, Notre Dame, IN August 11-15, 2024
292. D. Chakraborty, G. Kharchilava, I. Carmichael, S. Ptasinska. *Dissociative electron attachment studies of gas phase acetic acid using velocity map imaging technique.* 4th International Conference on Ionizing Processes (ICIP), University of Notre Dame, Notre Dame, IN August 11-15, 2024
293. G. Kharchilava, J. Finley, D. Chakrabory, I. Carmichael, S. Ptasinska. *Dissociative electron attachment to carbonates.* 4th International Conference on Ionizing Processes (ICIP), University of Notre Dame, Notre Dame, IN August 11-15, 2024
294. J. Finley, G. Kharchilava, D. Chakrabory, I. Carmichael, S. Ptasinska. *Dynamics and fragmentation channels of dissociative electron attachment to aromatic rings.* Radiation Research Society 2024 Annual Meeting, Tucson, AZ September 15-18, 2024
295. C. Garcia Villavicencio, B. de Campos Silva, S. Ptasinska. *Exploring pH Dynamics in Amino Acid Solutions under Low-Temperature Plasma.* 77th Annual Gaseous Electronics Conference (GEC), San Diego, CA September 30–October 4, 2024
296. E.R. Clark, C.J. Garcia Villavicencio, S. Ptasinska. *The Effect of Low-Temperature Atmospheric Pressure Plasma Jet Parameters on Hydroxyl Radical Production*. 2024 Annual Meeting of the American Physical Society (APS) Four Corners Section, Northern Arizona University, Flagstaff, AZ, October 11–12, 2024
297. J. Finley, G. Kharchilava, D. Chakrabory, I. Carmichael, S. Ptasinska. *Dissociative Electron Attachment to Diethyl Disulfide: Low-Energy Lysis of Disulfide Bonds*. Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, IN, October 31, 2024

298. G. Kharchilava, J. Finley, D. Chakrabory, S. Ptasinska, I. Carmichael. *Dissociative Electron Attachment to Carbonates.* Fall Undergraduate Research Fair (FURF), University of Notre Dame, Notre Dame, IN, October 31, 2024
299. C. Garcia Villavicencio, S. Ptasinska. *Investigating pH Changes in Amino Acid Solutions Induced by Low Temperature Plasma*. Notre Dame Interdisciplinary Graduate Research Symposium, University of Notre Dame, Notre Dame, IN, April 28, 2025
300. G. Kharchilava, J. Finley, D. Chakrabory, S. Ptasinska, I. Carmichael. *Dissociative electron attachment to dimethyl and diethyl carbonate*. College of Science Joint Annual Meeting (COS-JAM) University of Notre Dame, Notre Dame, IN, May 1, 2025
301. J. Finley, G. Kharchilava, D. Chakrabory, I. Carmichael, S. Ptasinska. *Dissociative Electron Attachment to Diethyl Disulfide: Low-Energy Cleavage of Disulfide Bonds*. College of Science Joint Annual Meeting (COS-JAM) University of Notre Dame, Notre Dame, IN, May 1, 2025
302. A. Matara, C. Garcia Villavicencio, B. de Campos Silva, S. Ptasinska. *Exploring Structural Changes in Amino Acid Solutions Under Low-Temperature Plasma Exposure.* College of Science Joint Annual Meeting (COS-JAM) University of Notre Dame, Notre Dame, IN, May 1, 2025
303. Z. Li, C. Garcia Villavicencio. C. Pallissery, S. Ptasinska*. Effect of Low-Temperature Plasma on Neuronal Culture Media.* College of Science Joint Annual Meeting (COS-JAM) University of Notre Dame, Notre Dame, IN, May 1, 2025

MENTORING

Post-doctoral researchers	Current:	Hao Yu
	Former:	Krishna Arjunan, Soumya Banerjee, Dipayan Chakraborty, M. Michele Dawley, Surja Ghale, Matej Klas, Michal Ryszka, Subha Sadhu, Vladimir Samara, Denis A. Sokolov
Graduate students	Current:	Cecilia Garcia Villavicencio (Physics) Jason King (Chemistry) Thejaswini B. (research assistant)
	Former:	Ek Adhikari (Physics, PhD 2019) Andrea Casotto (dual International PhD student in Science, PhD 2023) Bo-An Chen (Chemistry, PhD 2024) Lauren Eckermann (Chemistry, MSc 2022) Xu Han (Physics, PhD 2017) Weixin Huang (Chemistry, PhD 2017) James Kapaldo (Physics, PhD 2018) Zhou Li (Physics, PhD 2017) Evan Panken (non-degree program F2016) Pitambar Sapkota (Physics, PhD 2021) Amal Sebastian (Phsics, PhD 2023) Agnieszka Stypczynska (grad. in 2011 OU UK) Iogann Tolbatov (Physics, PhD 2015) Xueqiang Zhang (Chemistry, PhD 2016)
Undergraduate students	Current:	Jacob Finley (Physics, AL/SC Honors Program), Jake Kilbride (Pre-professional Studies), Anesu Matara (Physics in Medicine, AL/SC Honors Program), Kenton Reeh (REU student, Creighton University)
	Former:	Patricia Alquiza (Environmental Sciences), Emily Bell (REU student, Monmouth College), Aysia Bittinger (REU student, University of North Georgia), Elizabeth Briley (REU student, UC Long Beach), John Brems (Physics in Medicine), Emily Clark (REU student, North Arizona University), Beatriz de Campos Silva (Physics in Medicine, AL/SC

		Honors Program), E. Victoria Canseco (REU student, U Texas at El Paso), Alex Cantrell (Science Business), Daniel Childers (Physics in Medicine, Honors Program), Spencer Clark (Physics, Honors Program), Ben Coffey (Electrical Engineering & ROTC), Erika Escobar (REU student, UC Long Beach), Chris Ferari (Neuroscience and behavior), Mattison Flakus (REU student U Rochester), Victor Garcia (REU student, U Texas at El Paso), Richard Garnett (COOP student), Chris Giaimo (Biological Sciences), Zach Imholte (Electrical Engineering, Physics), Neil Jairath (Computer Science), Kemo Jammeh (Mathematics, Physics, and Biochemistry, Berea College), Andrew Jensen (Science Business), Taylor Johnson (Physics in Medicine), Brendan Jones (Physics), Justin Jones (pre-professional), Joanna Kabuye (Pre-professional), Giorgi Kharchilava (Physics, AL/SC Honors Program), Jacob Kennard (biochemistry), Paul Kinkopf (Honors Program, Physics in Medicine), Tessa Klein (Physics, Honors Program), Emmy Kunce (Honors Program, Physics in Medicine), Kinsey Lee (REU student, Scripps College), Joe Levri (Electrical Engineering), Ziyu (Sharon) Li (Physics), Daniel Lipa (Applied and Computational Mathematics and Statistics), Catie Luck (RUE student, Thomas More College), Gonzalos Mallea (Mechanical engineering), Raymond Mumme (Physics, Chemistry), Max Nguyen (Physics), Collin Pallissery (English), Andrew Porrazzo (Neuroscience and Behavior), Melissa Quevedo (REU student, University of Atlántico, Colombia), Neal Ravindra (Physics in Medicine), Emil Sundang Peters (Stockholm University, Sweden), Harrison Schurr (Physics in Medicine), Diana Spulber (Applied and Computational Mathematics and Statistics, Physics, Honors Program), Tanner Tarkleson (Honors Program, Neuroscience and Behavior), Cole Weber (Physics in Medicine), Wai Yeng Wong (Chemical Engineering, Economy), Elek Wellman (Neuroscience and Behavior), Daniel Williams (Physics), Hulin (John) Yang (REU student Xi'an Jiao Tong University), James Yurkovich (Electrical Engineering), Wei Zha (REU student Xi'an Jiao Tong University), Yijia (Jessica) Zhou (Mathematics)
High school students	Current:	---
	Former:	Christian Huntington, Benjamin Kolda, Emmy Kunce, Joseph Patus, Pramod Kamalapathy

COURSES TOUGHT (while at ND)		(S-spring, F-fall)
S2011, S2012, S2013	PHYS 20330	General Physics III
S2014, S2015, S2016, S2017	PHYS 40432	Biological Physics
F2015, S2016, F2016, S2017	FYS 10101-2	Moreau First Year Experience
S2018	PHYS 11422	Physics B Lab: Electricity and Magnetism
S2019	PHYS 10310	Engineering Physics I: Mechanics
F2020, F2021, F2022, F2024	PHYS 40435	Physics of the Brain
F2023	PHYS 20210	Physics for Life Sciences I

SERVICE TO PROFESSION

2024	Local organizing Committee for 4th International Conference on Ionizing Processes (ICIP 2024), University of Notre Dame, Notre Dame, IN, August 11-15, 2024
2024	Topic Editor: Atomic Collisions: Fundamental Processes & Applications at 27th International Conference on the Application of Accelerators in Research and Industry (CAARI) and the 55th Symposium of Northeastern Accelerator Personnel (SNEAP), Fort Worth, TX July 21-26, 2024

2023	Conference chair and local organizer: POSMOL 2023: XXI International Workshop on Low-Energy Positron and Positronium Physics and XXIII International Symposium on Electron-Molecule Collisions and Swarms, University of Notre Dame, Notre Dame, IN, August 3-6, 2023
2023	Workshop organizer, Laboratory-Based Ambient-Pressure X-ray Photoelectron Spectroscopy Focus Topic Workshop and chaired the session on Laboratory-Based AP-XPS: Advances in Instrumentation and Applications at the 69th American Vacuum Society International Symposium and Exhibition in Portland, Oregon, November 5-10, 2023
2021	Workshop organizer for Gaseous Electronic Conference (GEC): Electron Scattering Processes: fundamentals, challenges, opportunities, and advances, October 4, 2021 (virtual)
2021	Conference organizer: POSMOL/EMS 2021 (XXII International Symposium on Electron-Molecule Collisions and Swarms), July 29-30, 2021 (virtual)
2020-present	Editor in Chief of European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics
2019, 2020	Executive Committee Officer of Gaseous Electronics Conference (Treasurer)
2018-2020	Guest editor for Multidisciplinary Digital Publishing Institute (MDPI) journals: Plasma (Atmospheric Pressure Plasma Sources Applied in Biological Systems) and Materials (Atmospheric Pressure Plasmas in Material Science)
2017-present	Electron-Molecule Collisions and Swarms (EMS) Advisory committee
2016-present	Editorial Board of Multidisciplinary Digital Publishing Institute (MDPI) journal: Plasma
2016	Discussion Leader (Biotechnology session): NSF workshop on Science Challenges in Low Temperature Plasma Science and Engineering: Enabling a Future Based on Electricity through Non-Equilibrium Plasma Chemistry, Washington DC, August 22-23 2016
2015/2016	Guest editor for a European Physical Journal D topical issue on Low-Energy Interactions Related to Atmospheric and Extreme Conditions
2014,2016	NSF and DOE proposal review panelist
Since 2014	NSF and DOE proposal reviewer
2015-present	Editor: European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics
2013	Co-Editor: Journal of Chemistry, Special Issue: Early Stages in the Damage Biological Systems Induced by Radiation US member of COST Action: Nano-IBCT (Nano-Ion Beam Cancer Therapy)
2012-2015	Member of DEA (Dissociative Electron Attachment) club
2015-present	Reviewer of scientific articles: physics, chemistry, physical-chemistry, and engineering journals

Chairing sessions:

- 14th International Congress of Radiation Research, 28 August-1 September 2011, Warsaw, Poland. Eye Opener session
- Gordon Research Conference: Radiation Chemistry Radiation Driven Processes in Physics, Chemistry, Biology and Industry, Andover, NH, USA, July 29 - August 3 2012, Young investigator session
- Collaborative Conference on 3D & Materials Research (3DMR), Incheon, South Korea, June 23-27, 2014
- 1st International Conference on Ionizing Processes, Brookhaven National Laboratory, Upton, NY October 10-14, 2016, Young investigator session

- 8th POSMOL 2019: (XX International Workshop on Low-Energy Positron and Positronium Physics and XXI International Symposium on Electron-Molecule Collisions and Swarms) Belgrade, Serbia, July 18-20, 2019
- Electron Molecule Collisions and Related Topics, 72nd Annual Gaseous Electronics Conference (GEC 2019), College Station, TX, October 28 – November 1, 2019
- Collisions involving positron and positronium, 73rd Annual Gaseous Electronics Conference (GEC 2019), October 5-9, 2020 (virtual)
- Electron Scattering, 32nd International Conference on Photonic, Electronic and Atomic Collisions (ViCPEAC), July 20-23, 2021 (virtual)
- Laboratory-Based AP-XPS: Advances in Instrumentation and Applications at the 69th American Vacuum Society International Symposium and Exhibition in Portland, Oregon, November 5-10, 2023
- Electron Dynamics Across Solvation and Bio-molecular Systems at 4th DEA Club Meeting, Potsdam, Germany June 19-21, 2024
- Positronium in Medicine at 5th Jagiellonian Symposium on Advances in Particle Physics and Medicine (JS:2024), Jagiellonian University, Kraków, Poland June 29 -July 7, 2024
- Atomic Collisions: Fundamental Processes & Applications at 27th International Conference on the Application of Accelerators in Research and Industry (CAARI) and the 55th Symposium of Northeastern Accelerator Personnel (SNEAP), Fort Worth, TX July 21-26, 2024
- Radiation-Induced Effects in Biological Systems at 4th International Conference on Ionizing Processes (ICIP 2024), University of Notre Dame, Notre Dame, IN, August 11-15, 2024

UNIVERSITY SERVICE

	University:
2024	Notre Dame Energy Search Committee member
2023, 2024	Nomination Committee for Barry Goldwater Scholarship and Excellence in Education Foundation ND Learning's Kaneb Center Faculty Fellow
2019-2020	Dean of Science Review Committee Member
2019	University council for Academic Technologies, College of Science Representative
2018-2022	Valedictorian Selection Committee
2017-2022	Faculty Senator, Dept. Phys. Representative
2016-present	Steering committee member for the International PhD Program in Science between Università Cattolica del Sacro Cuore, Katholieke Universiteit Leuven, University of Notre Dame du Lac and Pontificia Universidad Católica de Chile
2016/2017	Campus Life Council
2012-2015	Faculty Senator, at large
	College:
2017-present	Biophysics graduate program Steering Committee
2015-2019	Elected member of College of Science Council
2015-2020	College of Science Biophysics Committee Member
2016-2018	Virtuous Scientist Science Working Group
	Department of Physics and Astronomy:
2024-present	Director of Graduate Admissions
2019-2021	Colloquium Committee

2018-2019	Demonstrations & Instructional Labs
2016-present	Graduate Admission
2015-2018	Strategic Planning/Departmental Review
2011-2014, 2016-2021	Safety Committee Member
2010-2016, 2022-2024	Graduate Recruitment Committee Member
2012-2014	Undergraduate Research Committee Member
2011-2013	Research Services

Radiation Laboratory

2011-2021	Safety Committee
2014-2018	Seminar Organizers

Other:

2011-2016, 2018	Panelist of International Teaching Assistant Workshop organized by KANEB

OUTREACH

- Radiation Laboratory tours and seminars for undergraduate students and campus visitors
- Notre Dame Department of Physics and Astronomy representative at Conference for Undergraduate Women in Physics (CUWiP 2024)
- "Lunch'n'Learn" seminar (ND, 2011)
- Notre Dame Department of Physics representative at Physics Congress (PhysCon 2012, Orlando Florida)
- Lunch Discussion Leader ("Mentoring Undergraduate Students) and resume and CV reviewer at the AWIS Women in Science Conference on October 1, 2016 Notre Dame
- Women in Physics Lunch on October 5, 2016, Department of Physics, Notre Dame
- "Plasma: From Lightning to Medical Applications" as part of the Our Universe Revealed: Physics for Everyone lecture series, Notre Dame, IN, September 27, 2016
- Judge in the Northern Indiana Regional Science and Engineering Fair (2012-2015, 2017-2018)
- Notre Dame Department of Physics representative at the Society of Black Physicists meeting (2017)
- Panelists on discussion about Self-Reflection as a Pathway to Improve Teaching organized by Notre Dame Learning, Kaneb Center (2020)
- Advisor for Notre Dame Polish Club – Kielbasa (from 2021)
- Panelist "Insights on the Publication Process From Notre Dame Faculty: Journal Editors" Notre Dame Colleges of Science and Engineering, September 12, 2023