

Family name, First name: Ruman, Tomasz

Date of birth: **1 December 1980**

URL for web site: <http://tr.sd.prz.edu.pl>

EDUCATION

- 2011 Habilitation (D.Sc.; University professorship) approved by Centre of Molecular and Macromolecular Studies in Łódź, Poland
- 2004 PhD - Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland
- 2003 M.Sc.Eng - Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland

CURRENT POSITION

from 2011 Rzeszow University of Technology Professor position; Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland

PREVIOUS POSITIONS

- 2007– 2011 Associate professor Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland
- 2004 – 2007 Assistant professor Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland

TEACHING ACTIVITIES

- 2004 – 2017 Lectures and laboratory exercises (Industrial Microbiology, Biocatalysis, Elements of Biotechnology, Isolation and Identification of Biomacromolecules) at Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland.

RESEARCH STAYS

- The University of Oklahoma, Department of microbiology and plant biology, Affiliate Research Scholar. Research stay for development of LASCA MS method and analysis of renal cancer tissue (with prof. J. Sunner). 12.1.2016-15.3.2016
- Advanced MS course - Wroclaw University, Poland, 2011 (1 week)
- Advanced MS course - Bruker, Bremen, Germany, 2011 (1 week)
- 2002 Crystallography (and crystal growth) course, Erice, Italy, 2002. (2 weeks)
- NMR courses – Wroclaw University, Poland, 2001 (1 month in total during 2001 year)
- X-ray diffraction course, Wroclaw University, Poland, 2001 (1 month in total during 2001 year)

FELLOWSHIPS AND AWARDS

- 2001 Rzeszow University of Technology Rector Award
- 2002 Rzeszow University of Technology Rector Award
- 2003 President of Rzeszow City Award
- 2003 Foundation for Rzeszow University of Technology Development Award
- 2003 Rzeszow University of Technology Rector Award
- 2004 "Polityka" Scholarship for Young Scientists
- 2005 Foundation for Polish Science scholarship (START)
- 2005 Polish Ministry of Science Award for outstanding PhD work
- 2010 Rzeszow University of Technology Rector Award
- 2011 Rzeszow University of Technology Rector Award
- 2012 Rzeszow University of Technology Rector Award

- 2014 Rzeszow University of Technology Rector Award
- 2012-2015 Polish Ministry of Science - "Scholarship for Outstanding Young Scientists"
- 2016 Rzeszow University of Technology Rector Award

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2010-2014 Supervisor of PhD work: Dr Karolina Długopolska-Gmitrzuk (PhD from 5.2.2014)
- 2011-2015 Supervisor of PhD work: Dr Joanna Nizioł (PhD from 15.2.2015)
- from 2012 Supervisor of PhD students: Barbara Laskowska, from 2016 Adrian Arendowski
- 2014-2017 Supervisor of PhD work: Dr Justyna Sekuła (PhD from 11.9.2017)

- 2004-2014 Supervisor of graduate students (approx. 20 MSc.Eng students and 30 Eng. deg. students), Faculty of Chemistry, Rzeszow University of Technology, Rzeszow, Poland

MAJOR COLLABORATIONS

- from 2004 - Prof. W. Rode, Nencki Institute for Experimental Biology, Polish Academy of Sciences, Warsaw, Poland
- from 2006 - Prof. Z. Szewczuk, Faculty of Chemistry, Wrocław University, Wrocław, Poland
- from 2004 - Prof. A. Leś, Faculty of Chemistry, Warsaw University, Warsaw, Poland
- from 2006 - Sanofi-Aventis and Valeant (pharmaceutical companies, Rzeszow, Poland)
- from 2008 - Prof. Marek Danilczuk, University of Detroit Mercy, USA
- from 2012- Dr Michał Gryziński, National Centre for Nuclear Research, MARIA nuclear reactor, Otwock, Poland
- from 2014 prof. Jan Sunner, Iwona Beech, Oklahoma University, USA

PUBLICATIONS

58. M. Misiorek, J. Sekuła and T. Ruman, Mass spectrometry imaging of low molecular weight compounds in garlic (*Allium sativum* L.) with gold nanoparticle enhanced target, *Phytochemical Analysis*, 2017, IF=2.5
57. J. Nizioł, J. Sekuła, T. Ruman, "Visualizing spatial distribution of small molecules in the rhubarb stalk (*Rheum rhabarbarum*) by surface-transfer mass spectrometry imaging", *Phytochemistry*, 2017, 139, 72-80, IF = 3.2.
56. A. Arendowski and T. Ruman, Laser desorption/ionization mass spectrometry imaging of European yew (*Taxus baccata*) on gold-nanoparticle enhanced target", *Phytochemical Analysis*, 2017, IF=2,5. DOI:10.1002/pca.2693
55. Barbara Laskowska, Marek Laskowski, Anna Lewandowska, Tomasz Ruman, *Zasady Schiffa oparte o związki dendrymeryczne oraz ich zastosowanie*. Wydawnictwo Naukowe TYGIEL (4 pkt MNiSW), 2016.
54. Pietrzak K., Glińska S., Gapińska M., Ruman T., Nowak A., Aydın E., Gutarowska B. Silver nanoparticles: mechanism of action on moulds. *Metallomics*, 2016, 8, 1294, IF=3,6

53. J. Sekuła, J. Nizioł, T. Ruman, Zastosowanie nanocząstek srebra w laserowej spektrometrii mas oraz w obrazowaniu MS, *Wiadomości Chemiczne*, zeszyt: 7-8-2016.
52. J. Nizioł, K. Ossoliński, T. Ossoliński, A. Ossolińska, V. Bonifay, J. Sekuła, Z. Dobrowolski, J. Sunner, I. Beech and T. Ruman, Surface-transfer mass spectrometry imaging of renal tissue on gold nano-particle enhanced target, *Analytical Chemistry*, 2016, 88 (14), pp 7365–7371 (IF = 5.9).
51. Jan Ludwiczak, Piotr Maj, Piotr Wilk, Tomasz Frączyk, Tomasz Ruman, Borys Kierdaszuk, Adam Jarmuła and Wojciech Rode, Phosphorylation of thymidylate synthase affects slow-binding inhibition by 5-fluorodUMP and N4-hydroxy-dCMP, *Molecular BioSystems*, 2016, *Mol. BioSyst.*, 2016,12, 1333-1341, IF = 3.21
50. J. Sekuła, J. Nizioł, M. Misiorek, P. Dec, A. Wrona, A. Arendowski and T. Ruman, Gold nanoparticle-enhanced target for MS analysis and imaging of harmful compounds in plant, animal tissue and on fingerprint, *Analytica Chimica Acta*, 2015, 895, 45-53, IF = 4.7.
49. J. Nizioł, Ł. Uram, M. Szuster, J. Sekuła and T. Ruman, Biological activity of N(4)-boronated derivatives of 2'-deoxycytidine, potential agents for boron-neutron capture therapy, *Bioorg. Med. Chem.* (2015), 23 (2015), pp. 6297-6304, IF (5y) = 2.97
48. T. Frączyk, T. Ruman, P. Wilk, P. Palmowski, A. Rogowska-Wrzesińska, J. Cieśla, Z. Zieliński, J. Nizioł, A. Jarmuła, P. Maj, B. Gołos, P. Wińska, S. Ostafil, E. Wałajtyś-Rode, D. Shugar, W. Rode, Properties of Phosphorylated Thymidylate Synthase, *BBA - Proteins and Proteomics*, 2015, 1854, 1922-1934. IF (5-year) = 3.127;
47. J. Sekuła, J. Nizioł, W. Rode and T. Ruman, Silver nanostructures in laser desorption/ionization mass spectrometry and mass spectrometry imaging. Review article, *Analyst*, 2015, w druku, IF = 4.1. *Analyst*, 2015, 140, 6195 - 6209
46. J. Nizioł, W. Rode and T. Ruman, The investigation of borane-unsaturated nucleoside reaction system. *Organic Communications*, (2015), 8:1; 9-16
45. J. Sekuła, J. Nizioł, W. Rode and T. Ruman, "Gold nanoparticle-enhanced target (AuNPET) as universal solution for laser desorption/ionization mass spectrometry analysis and imaging of low molecular weight compounds", *Analytica Chimica Acta* 875, 2015, 61–72. IF = 4,7 (5-letni).
44. J. Nizioł, Z. Zieliński, P. Maj, W. Rode and T. Ruman, N(4)-boronated derivatives of 2'-deoxycytidine as potential BNCT agents, *Anticancer Research* 2014, 34, 6143-6145. (publikacja pokonferencyjna recenzowana).
43. J. Nizioł, Z. Zieliński, A. Leś, M. Dąbrowska, W. Rode and T. Ruman, Synthesis, reactivity and biological activity of N(4)-boronated derivatives of 2'-deoxycytidine, *Bioorg. Med. Chem.* (2014), 22, 3906-3912, IF(5y) = 3.15
42. Piotr Wilk, Adam Jarmuła, Tomasz Ruman Katarzyna Banaszak, Wojciech Rypniewski, Joanna Cieśla, Anna Dowierciał, Wojciech Rode, Crystal structure of phosphoramidate-phosphorylated thymidylate synthase reveals pSer127, reflecting probably pHis to pSer phosphotransfer, *Bioorganic Chemistry*, 52 (2014) 44–49.
41. J. Nizioł and T. Ruman, Surface-transfer mass spectrometry imaging on monoisotopic silver nanoparticle enhanced target, *Anal. Chem.*, 2013, 85 (24), pp 12070–12076, IF=5.9
40. J. Nizioł and T. Ruman, The synthesis and NMR properties of boron analogues of nucleotides and cyclic nucleotides, *Letters in Organic Chemistry*, 2013, 10, 664-667

39. Joanna Nizioł and Tomasz Ruman, Silver ¹⁰⁹Ag nanoparticles for matrix-less mass spectrometry of nucleosides and nucleic bases, *International Journal of Chemical Engineering and Applications*, 2013, vol. 2(4), p. 46-49
38. J. Nizioł, W. Rode, B. Laskowska and T. Ruman, Novel monoisotopic ¹⁰⁹AgNPET for laser desorption-ionization mass spectrometry, *Anal. Chem.* 2013, 85(3), p.1926-1931, IF=5.9
37. J. Nizioł, Z. Zieliński, W. Rode and T. Ruman, Matrix-free laser desorption-ionization with silver nanoparticle enhanced steel targets, *Int. J. Mass Spectrom.*, 2013, 335, 22-32
36. J. Nizioł, W. Rode and T. Ruman. Boron nucleic acid bases, nucleosides and nucleotides. *Mini-Reviews In Organic Chemistry*, 2012, 9(4), 418-425
35. J. Nizioł and T. Ruman, Exceptionally selective catalytic hydrogenation of alkene with pinacolborane, *Letters in Organic Chemistry* Vol. 9, No. 4, 257-262, 2012
34. E. Dąbrowska-Maś, T. Frączyk, T. Ruman, K. Kowalewska, P. Wilk, J. Ciela, Z. Zieliński, A. Jurkiewicz, B. Gołos, P. Wińska, E. Wałajtys-Rode, A. Leś, J. Nizioł, A. Jarmuła, P. Stefanowicz, Z. Szewczuk, W. Rode, Tyrosine nitration affects thymidylate synthase properties, *Org. Biomol. Chem.*, 2012, 10, 323–331
33. J. Kisala, T. Ruman, Pincer complexes based on phosphinoaminopyridines: synthesis, structural characterization and catalytic applications; *Current Organic Chemistry*, 2011, 15 3486-3502.
32. T. Frączyk, T. Ruman, D. Rut, E. Dąbrowska-Maś, J. Cieśła, Z. Zieliński, K. Sieczka, J. Dębski, B. Gołos, P. Wińska, E. Wałajtys-Rode, D. Shugar, W. Rode, Histidine phosphorylation, or tyrosine nitration, Affects Thymidylate Synthase Properties, *Pteridines* 20: 137-142, 2010
31. K. Długopolska, J. Kisala, M. Danilczuk, D. Pogocki, T. Ruman. The Analysis of Hyperfine Shifts of Monoligand High-spin Cobalt(II) Pyrazolylborate Complexes. *Applied Magnetic Resonance* 2010, 38(3), 321-335
30. Tomasz Ruman, Karolina Długopolska and Wojciech Rode, Synthesis and NMR properties of the first boron analogues of uracil, *Bioorganic Chemistry* 38 (2010) 33–36
29. Tomasz Ruman, Karolina Długopolska, Agata Jurkiewicz, Katarzyna Rydel, Andrzej Leś and Wojciech Rode, "The synthesis and NMR investigation on novel boron derivatives of stavudine", *Bioorganic Chemistry* (2010), 38(3), p. 87-91
28. Tomasz Ruman, Karolina Długopolska, Agata Jurkiewicz, Dagmara Kramarz, Tomasz Frączyk, Joanna Cieśła, Andrzej Leś, Zbigniew Szewczuk and Wojciech Rode, "Thiophosphorylation of free amino acids and enzyme protein by thiophosphoramidate ions", *Bioorganic Chemistry*, 2010, vol 38(2), p. 74-80.
27. K. Kowalewska, P. Stefanowicz, T. Ruman, T. Frączyk, W. Rode and Z. Szewczuk, "Electron Capture Dissociation Mass Spectrometric Analysis of Lysine-Phosphorylated Peptides", *Biosci. Rep.* 2010, 30, 433–443
26. T. Ruman, A. Jarmuła and W. Rode, The aromaticity of 5,6-dihydroborauracil, borauracil and benzoborauracil systems, *Bioorganic Chemistry*, 2010, 38, 242-245
25. T. Frączyk, T. Ruman, D. Rut, E. Dąbrowska-Maś, J. Cieśła, Z. Zieliński, K. Sieczka, J. Dębski, B. Gołos, P. Wińska, E. Wałajtys-Rode, D. Shugar, W. Rode, Histidine phosphorylation, or tyrosine nitration, Affects Thymidylate Synthase Properties, *Pteridines* 2009, 20, 79-80.

24. Tomasz Ruman, Karolina Długopolska, Anna Kuśnierz and Wojciech Rode, Synthesis and NMR properties of 5,6-dihydroborauracil and 5,6-dihydroborathymine, *Bioorganic Chemistry*, 2009, 37(5), 180-184
23. Tomasz Ruman, Karolina Długopolska, Dagmara Kramarz, Agata Jurkiewicz, Andrzej Leś, and Wojciech Rode, "The synthesis, reactivity and NMR investigation on ¹⁵N-thiophosphoramidates", *Letters in Organic Chemistry*, 2009, 8(6) 642-647.
22. Tomasz Ruman, Karolina Długopolska, Anna Kuśnierz, Agata Jurkiewicz, Andrzej Leś and Wojciech Rode, "Synthesis and NMR properties of novel 5,6-dihydroborauracil derivatives", *Bioorganic Chemistry*, 2009, 37(3), 65-69
21. K. Długopolska, T. Ruman, D. Pogocki, M. Danilczuk, „Medyczne zastosowania sit molekularnych”, *Wiad. Chem.*, 2009, 63, 11-12
20. Altered properties of phosphorylated or nitrosylated thymidylate synthase. T. Frączyk, T. Ruman, D. Rut, E. Dąbrowska-Maś, J. Cieśla, Z. Zieliński, K. Sieczka, J. Sikora, E. Wałajtys-Rode, D. Shugar, W. Rode, *Anticancer Research*, 2008, vol 28, p.3462-3463
19. Karolina Długopolska, Tomasz Ruman, Marek Danilczuk, Dariusz Pogocki. "The Analysis of Nuclear Magnetic Resonance Shifts of High-spin Cobalt(II) Complexes", *Applied Magnetic Resonance*, 2008 p.271-283, vol 35,
18. Marek Danilczuk, Karolina Długopolska, Tomasz Ruman, and Dariusz Pogocki; "Molecular Sieves in Medicine" *Mini-Reviews in Medicinal Chemistry*, 2008 , 8, 1407-1417
17. Tomasz Ruman, Anna Kuśnierz, Agata Jurkiewicz, Andrzej Leś, and Wojciech Rode, The synthesis, reactivity and ¹H NMR investigation of the hydroxyborohydride anion, *Inorganic Chemistry Communications*, 2007, 10, 1074-1078.
16. Dariusz Pogocki, Tomasz Ruman, Magdalena Danilczuk, Marek Danilczuk, Monika Celuch and Elżbieta Wałajtys-Rode, "Application of Nicotine Enantiomers, Close Derivatives and Analogues in Therapy of Neurodegenerative Disorders", *European Journal of Pharmacology*, 2007, 563(1-3), 18-39 (review article).
15. T. Ruman, Z. Ciunik, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate ligands. Part XII. Variable hapticity of hydrobis(3-phenyl-5-isopropylpyrazolyl)(3,5-dimethylpyrazolyl)borate in its rhodium(I) complexes with COD and NBD" *Polyhedron*, 23/2-3 (2004) 219-223
14. Z. Ciunik, T. Ruman, M. Łukasiewicz, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate ligands. Part XI. Weak CH/π interactions in crystals of hydrotris(3-phenylpyrazolyl)boratothallium(I) and hydrobis(5-methyl-3-phenylpyrazolyl)(3,5-dimethylpyrazol-yl)boratothallium(I) studied by X-ray crystallography" *J. Mol. Struct.*, 690/1-3 (2004).
13. T. Ruman, Z. Ciunik, S. Wołowiec, „ Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part VIII. Synthesis, X-ray crystallographic and ¹H NMR structural studies on cobalt(II) complexes of homoscorpionate, heteroscorpionates and chiral trispyrazolylborates obtained from 3(5)-phenyl-5(3)-iso-propylpyrazole and 3,5-dimethylpyrazole" *Eur. J. Inorg. Chem.* (2003) 2475-2485.
12. J. Kisała, Z. Ciunik, K. Drabent, T. Ruman, S. Wołowiec, "The complexes of tetra(3-isopropylpyrazolyl)borate anionic ligand with cobalt(II), nickel(II) and copper(II)" *Polyhedron* 22 (2003) 1645-1652.
11. T. Ruman, Z. Ciunik, A. M. Trzeciak S. Wołowiec, J. J. Ziółkowski, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part X.

Structures and Fluxional Behavior of Rhodium(I) Complexes with Heteroscorpionate Trispyrazolylborate Ligands, $Tp^*Rh(LL)$; $(LL) = (CO)_2$ or (COD)
Organometallics, 22 (2003) 1072-1080.

10. T. Ruman, Z. Ciunik, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate ligands. Part IX. X-ray crystallographic studies on cobalt(II) complexes of hydrobis(3-phenyl,5-methylpyrazolyl)(3,5-diethylpyrazolyl)borate" *Polyhedron* 22 (2003) 581-586.
9. T. Ruman, Z. Ciunik, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part VII.
The bonding ambivalency of 3(5)-iso-propylpyrazolyl moiety in homo- and heteroscorpionate hydrobis(n-iso-propylpyrazolyl)(3-R1-5-R2-pyrazolyl)boratocobalt(II) complexes. *Eur. J. Inorg. Chem.* (2003) 89-93.
8. T. Ruman, Z. Ciunik, E. Szklanny, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part VI.
Carboxylate induced conversion of mono-ligand $Tp^*M(L)$ into bis-ligand Tp^*2M complexes ($M = Co(II)$ and $Cu(II)$). *Polyhedron* 21 (2002) 2743-2753.
7. T. Ruman, Z. Ciunik, A. Goćlan, M. Łukasiewicz, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part V. X-ray crystallographic studies of cobalt(II) complexes with hydrobis(3,5-dimethylpyrazolyl)(3,5-diphenylpyrazolyl)borate and hydrobis(3,5-diphenylpyrazolyl)(3,5-dimethylpyrazolyl)borate ligands." *Polyhedron* 20 (2001) 2965-2970.
6. T. Ruman, Z. Ciunik, J. Mazurek, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands.
Part IV. Poly(pyrazolyl)borate anionic ligands obtained from 3,5-di-methylpyrazole and 3,5-diphenylpyrazole and their cobalt(II) complexes." *Eur. J. Inorg. Chem.* (2002) 754-760.
5. T. Ruman, M. Łukasiewicz, Z. Ciunik, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands.
Part III. X-ray crystallographic and NMR studies on cobalt(II) complexes with tris(pyrazolyl)borate anionic ligands obtained from 3,5-di-methylpyrazole and 3(5)-methyl,5(3)-phenylpyrazole. *Polyhedron* 20 (2001) 2551-2558.
4. M. Łukasiewicz, Z. Ciunik, T. Ruman, M. Skóra, S. Wołowiec, "Complexes of heteroscorpionate trispyrazolylborate anionic ligands.
Part II. The X-ray crystallographic and 1H NMR studies on thiocyanato[hydrobis(3-phenylpyrazolyl)(3,5-di-tert-butylpyrazolyl)borato]cobalt(II) and thiocyanato[hydrobis(3-phenyl,5-methylpyrazolyl)(3-methyl,5-phenylpyrazolyl)borato]cobalt(II) complexes." *Polyhedron* 20 (2001) 237-244.
3. I. Zarzyka-Niemiec, J. Lubczak, Z. Ciunik, S. Wołowiec, T. Ruman, „Hydroxyalkylated derivatives of parabanic acid". *Heterocyclic. Commun*, 8 (2002) 559-563.
2. T. Ruman, „Od genu do lekarstwa. Nowe metody badawcze". *Gazeta Politechniki*, 10/2002, p.10, Politechnika Rzeszowska. (paper in polish)
1. J. Kalembkiewicz, T. Ruman, „Zastosowanie derywatywacji w metodach chromatograficznych w analizie śladowej". *Wiadomości Chemiczne*, 2004, 58, 263. (in polish)

CONFERENCES AND SEMINARS

1. T. Ruman, Z. Ciunik, S. Wolowiec, "From homoscorpionates, through spontaneous heteroscorpionates, synthetic heteroscorpionates, to chiral scorpionates" 33rd Crystallographic course at the E. Majorana Centre: Erice, Italy, May 23 – June 2, 2002
2. T. Ruman, S. Wolowiec, Z. Ciunik, „Trispyrazolylborates - tripodal ligands of tunable symmetry". YoungChem 2003, Zakopane, 21-26th October 2003. Referat (w języku angielskim)
3. S. Wolowiec, Z. Ciunik, T. Ruman, "From homoscorpionates, through spontaneous heteroscorpionates, synthetic heteroscorpionates, to chiral scorpionates". 225th National Meeting of the American-Chemical-Society Location - ACS Meeting, 23-27 March, 2003, New Orleans, Symposium „Scorpionate Ligands Thirty-Five Years Later". Invited Lecture 430.
4. T. Ruman, Z. Ciunik, S. Wołowiec, „Kompleksy kobaltu(II) z heteroskorpionianowymi ligandami trispirazoliloboranowymi" XLV Zjazd PTChem, Kraków 9-12.09.2002, Materiały Zjazdowe, tom I, str. 316
5. Indukowana rodnikami sulfanylowymi racemizacja alkaloidów. D. Pogocki, A. Bielecka, M. Celuch, M. Krupa, J. Pióro, T. Ruman, Sesja sprawozdawcza użytkowników Komputerów Dużej Mocy (KDM) Interdyscyplinarnego Centrum Modelowania Matematycznego i Komputerowego Uniwersytetu Warszawskiego, Jadwisin, 8-11.03.2006.
6. Kataliza nukleofilowa procesów jednolektronowego utleniania tioeterów organicznych. D. Pogocki, M. Celuch, M. Enache, T. Ruman, Sesja sprawozdawcza użytkowników Komputerów Dużej Mocy (KDM) Interdyscyplinarnego Centrum Modelowania Matematycznego i Komputerowego Uniwersytetu Warszawskiego, Jadwisin, 8-11.03.2006.
7. Stereoelectronic control over the mechanism of one-electron oxidation-induced fragmentation of substituted thioethers. M. Celuch, M. Enache, T. Ruman, D. Pogocki, 3rd European Young Investigator Conference - EYIC 2007 June 13-17, 2007, Collegium Polonicum, Slubice ().
8. Free radicals induced racemization of nictotine receptor agonists. D. Pogocki, A. Bielecka, M. Celuch, M. Krupa, J. Pióro, T. Ruman, 3rd European Young Investigator Conference - EYIC 2007 June 13-17, 2007, Collegium Polonicum, Slubice ().
9. Altered properties of phosphorylated or nitrosylated thymidylate synthase. T. Frączyk, T. Ruman, D. Ruć, E. Dąbrowska-Maś, J. Cieśła, Z. Zieliński, K. Sieczka, J. Sikora, E. Wałajtys-Rode, D. Shugar, W. Rode (Rzeszow;Warszawa, Poland) EIGHTH INTERNATIONAL CONFERENCE OF ANTICANCER RESEARCH, 2008, 566A, pages 3462-3463, October 17-22, Kos, Greece
10. D. Pogocki, J. Mirkowski, T. Ruman, K. Szpara, M. Celuch 'Pulse radiolysis and DFT studies on the radical reaction of nicotine', 8th International Conference on Pulse Investigation in Chemistry, 6-12/09/2008, Kraków, Polska.
11. Histidine Phosphorylation, or Tyrosine Nitration, Affects Thymidylate Synthase Properties Wojciech Rode, Tomasz Fraczyk, Tomasz Ruman Dagmara Kramarz, Elzbieta Dabrowska, Joanna Ciesla, Zbigniew Zielinski, Katarzyna Rys, Jacek Sikora, Barbara Golos, Patrycja Winska, Elzbieta Wałajtys-Rode, David Shugar. 14th International Symposium on Pteridines and Folates Held in Hyatt Regency Jeju, June 7~12, 2009
12. Histidine phosphorylation affects thymidylate synthase properties, Tomasz Frączyk, Tomasz Ruman, Joanna Cieśła, Zbigniew Zieliński, Elżbieta Wałajtys-Rode and Wojciech Rode, 6th International Conference: Inhibitors of Protein Kinases, June 27 - July 1, 2009, Warsaw, Poland

13. Karolina Długopolska, Tomasz Ruman, Anna Kuśnierz, Agata Jurkiewicz, Andrzej Leś and Wojciech Rode, Synteza i właściwości NMR pochodnych 5,6-dihydroborauracyli. 52 Zjazd PTCh i SITPChem. Łódź, 12-16 września 2009, PC-02-08, B034
14. Frączyk T, Ruman T, Cieśla J, Zielinski Z, Wałajtys-Rode E, Rode W (2009) Histidine phosphorylation affects thymidylate synthase properties. Acta Biochim Pol 56 (S1) 42-43
15. Joanna Nizioł and Tomasz Ruman, Catalytic hydrogenation and hydroboration of model and biologically active (nucleoside) alkene with borane. 243rd ACS National Meeting & Exposition, March 25-29 2012, San Diego, California, USA, no. 792.
16. IVth International Mini-Symposium 'Boron-organic compounds in modern organic synthesis and practical applications'. Wydział Chemii Uniwersytetu Łódzkiego, 24-25 May 2012. Invited speaker, wykład pt. "Catalytic hydrogenation and hydroboration of model cycloalkene", Joanna Nizioł and Tomasz Ruman.
17. 3rd International Conference on Chemistry and Chemical Process (ICCCP 2013), Beijing, China, 21-22 April 2013, "Nanoparticle-based laser mass spectrometry methods", T. Ruman and J. Nizioł; T. Ruman as invited keynote speaker and session chairman
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19. B. Laskowska, T. Ruman, Konferencja pt. "Wpływ Młodych Naukowców na osiągnięcia Polskiej Nauki". Edycja VII. Kraków 6.12.2014 - Nowe trendy w naukach przyrodniczych; Tytuł wystąpienia: Synteza i badania dendrymerów typu PAMAM jako nośników substancji o znaczeniu biologicznym.
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