Curriculum Vitae

Personal information

Surname(s) / First name(s)	Robert W. Góra
Address(es)	Department of Physical and Quantum Chemistry Faculty of Chemistry Wroclaw University of Science and Technology Wybrzeże Wyspiańskiego 27 PL-50370 Wrocław, Poland
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Email(s)	robert.gora@pwr.edu.pl
Date of birth	1974-10-05
Positions held	
since 2019	Associate Professor, Faculty of Chemistry, Wroclaw University of Science and Technology
2014	Madurai Kamarai University (Madurai, India), Department of Physical Chemistry, Visiting Professor (2 weeks)
2003-2019	Assistant Professor, Faculty of Chemistry, Wroclaw University of Science and Technology
2002–2003	Research Assistant,
	Faculty of Chemistry, which an Oniversity of Science and Technology
Education	
2014	D.Sc. (habilitation) in Chemical Sciences (Theoretical Chemistry), Faculty of Chemistry,
2002	Ph.D. in Chemical Sciences (Physical Chemistry), Institute of Physical and Theoretical Chemistry, Wroclaw University of Technology
1998	M.Sc. Eng. in Computational Chemistry, Faculty of Chemistry, Wroclaw University of Technology
1998	Certificate of Attendance, TEMPUS Mobility Scheme, School of Chemistry, University of Bristol
Experience	
1999–2003	Jackson State University (Jackson, USA), Computational Center for Molecular Structure and Interactions, Prof. Leszczynski's group, frequent short-term visits (18 months)
62 publications	University of Oxford (Oxford, UK),
879 times cited	Summer School in Molecular Physics and Quantum Chemistry (1 week)
229.6impact factor200118H-index	Theoretical and Physical Chemistry Institute, Petsalakis group,
	University of Lundt (Tjörnarp, Sweden),
	European Summerschool in Quantum Chemistry (2 weeks)

- photochemistry and photophysics of organic molecules;
- prebiotic chemistry, chemical abiogenesis and origins of Life on Earth; _
- nonadiabatic phenomena, in particular excitation energy transfer (EET), internal conversion and intersystem crossings:
- linear and nonlinear electrooptic properties of atomic and molecular aggregates;
- theory of intermolecular interactions;
- continuous and discrete solvation models in ab initio calculations
- development of ab initio quantum chemistry methods: hybrid variational-perturbational interaction energy and interaction-induced electric properties partitioning schemes, methods for estimation of EET couplings;

Selected articles

- M. J. Janicki, S. J. Roberts, J. Šponer, M. W. Powner*, R. W. Góra*, R. Szabla*, 2018 "Photostability of oxazoline RNA-precursors in UV-rich prebiotic environments", Chem. Commun. 2018, 54, 13407-13410 (IF: 6,290).
- 2017 J. Xu, M. Tsanakopoulou, C. J. Magnani, R. Szabla*, J. E. Šponer, J. Šponer, R. W. Góra, J. D. Sutherland^{*}, "A prebiotically plausible synthesis of pyrimidine β ribonucleosides and their phosphate derivatives involving photoanomerization", Nat. Chem. 2017, 9, 303-309 (IF: 26,201).
- R. Szabla*, H. Kruse, J. Šponer, R. W. Góra*, "Water-chromophore electron transfer 2017 determines the photochemistry of cytosine and cytidine", Phys. Chem. Chem. Phys. 2017, 19, 17531-17537 (IF: 3,906).
- 2016 J. E. Šponer, R. Szabla, R. W. Góra, A. M. Saitta, F. Pietrucci, F. Saija, E. D. Mauro, R. Saladino, M. Ferus, S. Civiš, J. Šponer*, "Prebiotic synthesis of nucleic acids and their building blocks at the atomic level - merging models and mechanisms from advanced computations and experiments", Phys. Chem. Chem. Phys. 2016, 18, 20047-20066 (IF: 4,123).
- R. Szabla*, R. W. Góra*, J. Šponer, "Ultrafast excited-state dynamics of isocytosine", 2016 Phys. Chem. Chem. Phys. 2016, 18, 20208-20218 (IF: 4,123).
- R. Szabla*, J. Campos, J. E. Šponer, J. Šponer, R. W. Góra*, J. D. Sutherland*, 2015 "Excited-state hydrogen atom abstraction initiates the photochemistry of β -2'deoxycytidine", Chem. Sci. 2015, 6, 2035-2043 (IF: 9,144).
- 2015 R. Szabla*, J. Šponer, R. W. Góra*, "Electron-Driven Proton Transfer Along H₂O Wires Enables Photorelaxation of $\pi\sigma^*$ States in Chromophore–Water Clusters", J. Phys. Chem. Lett. 2015, 6, 1467-1471 (IF: 8,539).
- B. Błasiak*, M. Maj, M. Cho, R. W. Góra*, "Distributed Multipolar Expansion Approach 2015 to Calculation of Excitation Energy Transfer Couplings", J. Chem. Theory Comput. 2015, 11, 3259-3266 (IF: 5,301).

Awards and **Achievements**

2004, 2008, 2012, 2016, 2017	Wrocław University of Science and Technology Rector's Award in recognition of dis- tinctive contributions to the activities of the University, Wrocław, Poland
2008	3rd degree Team Award of Nicolaus Copernicus University Rector in recognition of achievements in the field of scientific research in 2007, Toruń, Poland
2006	Team Award of the Polish Ministry of Science and Higher Education for the series of publications on the physical nature of interactions in molecular complexes and the active centers of enzymes, Warsaw, Poland

- 2006, 2009 Conference Scholarships of Foundation for Polish Science, Warsaw, Poland
- 2002, 2003 National Scholarship of the Foundation for Polish Science for the Young Scientists, Warsaw, Poland
 - TEMPUS Mobility Grant, School of Chemistry, University of Bristol, UK 1998

Research Grants	
2016–2019	Photochemistry and photophysics of the prebiotic synthetic routes to biomolecules, National Science Centre grant no NCN 2016/23/B/ST4/01048, project leader (PI)
2012–2015	Theoretical Studies of the Resonant Excitation Energy Transfer in the Model Systems and DNA-templated Helical Cyanine Dye Aggregates, National Science Centre grant no NCN 2011/03/B/ST4/00587, project leader (PI)
2001–2003	Studies of the Influence of Electronic Excitations on the Nature of Intermolecular Interactions, State Committee for Scientific Research grant no KBN 7 T09A 056 21, project leader (PI)
Editorial and Reviewing Duties	
Editorial	Editorial board member of <i>Life</i>
Journals	Reviever of articles for: Astrobiology, Chemical Physics, Chemical Physics Letters, Computational and Theoretical Chemistry, International Journal of Quantum Chem- istry, Journal of Physical Chemistry & Biophysics, Molecular Physics, New Journal of Chemistry, Optical Materials, Origins of Life and Evolution of Biospheres, Physical Chemistry Chemical Physics, Structural Chemistry, The Journal of Chemical Physics, The Journal of Molecular Modeling, The Journal of Physical Chemistry A, B and C.
Grants	Reviewer of grant applications for: Czech Science Foundation (GACR), Croatian Science Foundation (HRZZ), National Science Centre Poland (NCN).
Collaboration	
since 2018	Dr. Matthew Powner, University College London, UK
since 2018	Prof. Dimitar D. Sasselov, Harvard University, USA
since 2015	Prof. John D. Sutherland, MRC Laboratory of Molecular Biology, Cambridge, UK
since 2013	Prof. Andrzej Sobolewski, Institute of Physics, Polish Academy of Sciences
since 2012	Prof. Jiří Šponer and Dr. Judit E. Šponer, Institute of Biophysics, Academy of Sciences of the Czech Republic
since 2011	Prof. Minhaeng Cho, Korea University, Korea
since 2009	Dr. Josep M. Luis, University of Girona, Spain
1998–2013	Prof. Jerzy Leszczyński, Jackson State University, USA

Wrocław, May 17, 2019