



# ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

## DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

### 1. Basic information

Name, surname:	Robert Góra
Grade / Title:	PhD DSc
Scientific discipline	nauki chemiczne / chemical sciences
Faculty:	W3 Wydział Chemiczny / Faculty of Chemistry
Email address:	robert.gora@pwr.edu.pl
Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	<a href="https://iam.pwr.edu.pl/people/robert-gora">https://iam.pwr.edu.pl/people/robert-gora</a> <a href="https://scholar.google.pl/citations?user=Ht6eChQAAAAJ">https://scholar.google.pl/citations?user=Ht6eChQAAAAJ</a> <a href="https://orcid.org/0000-0003-0253-4295">https://orcid.org/0000-0003-0253-4295</a>

### 2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	B. Błasiak, W. Bartkowiak and R. W. Góra, <a href="#">An effective potential for Frenkel excitons</a> , <i>Phys. Chem. Chem. Phys.</i> , 2021, <b>23</b> , 1923–1935.	2021
2.	J. Xu, V. Chmela, N. J. Green, D. A. Russell, M. J. Janicki, R. W. Góra, R. Szabla, A. D. Bond and J. D. Sutherland, <a href="#">Selective prebiotic formation of RNA pyrimidine and DNA purine nucleosides</a> , <i>Nature</i> , 2020, <b>582</b> , 60–66.	2020
3.	K. E. Szkaradek, P. Stadlbauer, J. Šponer, R. W. Góra and R. Szabla, <a href="#">UV-induced hydrogen transfer in DNA base pairs promoted by dark <math>\pi\pi^*</math> states</a> , <i>Chem. Commun.</i> , 2020, <b>56</b> , 201–204.	2020
4.	M. J. Janicki, S. J. Roberts, J. Šponer, M. W. Powner, R. W. Góra and R. Szabla, <a href="#">Photostability of oxazoline RNA-precursors in UV-rich prebiotic environments</a> , <i>Chem. Commun.</i> , 2018, <b>54</b> , 13407–13410.	2018
5.	J. Xu, M. Tsanakopoulou, C. J. Magnani, R. Szabla, J. E. Šponer, J. Šponer, R. W. Góra and J. D. Sutherland, <a href="#">A prebiotically plausible synthesis of pyrimidine <math>\beta</math>-ribonucleosides and their phosphate derivatives involving photoanomerization</a> , <i>Nat. Chem.</i> , 2017, <b>9</b> , 303–309.	2017
6.	R. Szabla, J. Šponer and R. W. Góra, <a href="#">Electron-Driven Proton Transfer Along H<sub>2</sub>O Wires Enables Photorelaxation of <math>\pi\sigma^*</math> States in Chromophore–Water Clusters</a> , <i>J. Phys. Chem. Lett.</i> , 2015, <b>6</b> , 1467–1471.	2015
7.	R. Szabla, J. Campos, J. E. Šponer, J. Šponer, R. W. Góra and J. D. Sutherland, <a href="#">Excited-state hydrogen atom abstraction initiates the photochemistry of <math>\beta</math>-2'-deoxycytidine</a> , <i>Chem. Sci.</i> , 2015, <b>6</b> , 2035–2043.	2015
8.	B. Błasiak, M. Maj, M. Cho and R. W. Góra, <a href="#">Distributed Multipolar Expansion Approach to Calculation of Excitation Energy Transfer Couplings</a> , <i>J. Chem. Theory Comput.</i> , 2015, <b>11</b> , 3259–3266.	2015

### 3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).



1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal investigator
	Project title	Photochemistry and photophysics of the prebiotic synthetic routes to biomolecules
	Sources of funding	National Science Centre
	Name of the call	OPUS grant no 2016/23/B/ST4/01048
	Implementation period	2016-2019
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal investigator
	Project title	Theoretical Studies of the Resonant Excitation Energy Transfer in the Model Systems and DNA-templated Helical Cyanine Dye Aggregates
	Sources of funding	National Science Centre
	Name of the call	OPUS grant no 2011/03/B/ST4/00587
	Implementation period	2012-2015

#### 4. International experience

*Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).*

No.	Description	Year(s)
1.	Jackson State University (Jackson, USA), Computational Center for Molecular Structure and Interactions	1999-2003
2.	National Hellenic Research Foundation (Athens, Greece),	2001
3.	Madurai Kamarai University (Madurai, India), Visiting Professor	2014

#### 5. Experience in teaching doctoral students

*Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).*

No.	Description	Year(s)
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1.	Lectures and laboratories on <i>Theoretical methods for studies of photochemistry and photophysics of molecular systems</i>	Since 2019
2.	Lecture series on <i>Photonics and Spectroscopy</i>	2015

## 6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	Rafał Szabla	Origin of Life Theory: Study of Prebiotically Plausible Photochemical Reactions	2017
2.	Mikołaj Janicki	Theoretical studies of the influence of environment on photochemical and photophysical properties of selected heterocyclic compounds	2022

## 7. Prizes and awards

The most important national and international prizes and awards related to research, development and teaching activities.

No.	Description	Year
1.	National Scholarship of the Foundation for Polish Science for the Young Scientists, Warsaw, Poland	2002 & 2003
2.	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
3.	3rd degree Team Award of Nicolaus Copernicus University Rector in recognition of achievements in the field of scientific research in 2007, Toruń, Poland	2007
4.	Numerous Awards of Rector of Wrocław University of Science and Technology, Wrocław, Poland	2004-2023

## 8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.

Chair of the National Science Centre Poland panel ST4 (Chemistry) 2019-2020. Member of Polish Chemical Society and Royal Society of Chemistry.