

## prof. dr hab. Tadeusz Andruniów

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### ■ Education

- 2008** D.Sc. (habilitation) in Biophysics; Faculty of Biochemistry, Biophysics and Biotechnology Jagiellonian University, Kraków, Poland
- 1999** Ph.D. in Theoretical Chemistry; Faculty of Chemistry, Department of Theoretical Chemistry Jagiellonian University, Kraków, Poland
- 1994** M.Sc. in Chemistry; Faculty of Chemistry, Department of Theoretical Chemistry Jagiellonian University, Kraków, Poland

### ■ Professional Experience

- Jul. 2022 - present** Director of the Institute of Advanced Materials, Wrocław Tech
- Jul. 2022 - present** Professor, Institute of Advanced Materials, Wrocław Tech
- Feb. 2015 - May 2022** Vice-Chair of Advanced Materials Engineering and Modelling Department Wrocław Tech
- Feb. 2010 - May 2022** Professor, Advanced Materials Engineering and Modelling Department Wrocław Tech
- Jun. 2008 - Feb. 2010** Associate Professor, Institute of Physical and Theoretical Chemistry Wrocław Tech
- Feb. 2005 - Jun. 2008** Assistant Professor, Institute of Physical and Theoretical Chemistry Wrocław Tech

## ■ Research Experience

<b>Sept. 2010 (2 weeks)</b>	Visiting Professor, Università di Siena, Italy
<b>Jan. 2008 (1 week)</b>	Visiting Professor, Università di Siena, Italy
<b>Feb. 2003 - Feb. 2005</b>	Marie Curie Fellow, Università di Siena, Italy (Host: Prof. M. Olivucci)
<b>Nov. 2001 - Jan. 2003</b>	Postdoctoral Associate, Laboratoire de Maturation des ARN et Enzymologie Moléculaire, Université H. Poincaré, CNRS, Nancy France (Host: Dr. F. Leclerc)
<b>Aug. 2000</b>	Visiting Scientist, National Research Council of Canada, Steacie Institute for Molecular Sciences, Ottawa, Canada (Host: Dr. M. Z. Zgierski)
<b>Sept. 1999 - Sept. 2001</b>	Postdoctoral Associate, University of Louisville, Louisville, USA (Host: Prof. P.M. Kozlowski)
<b>Dec. 1998 - Apr. 1999</b>	TEMPUS Fellow, Department of Chemistry, Lund University, Lund, Sweden (Host: Prof. B.O. Roos)

## ■ Scientific Highlights

- over 60 publications in premiere scientific journals
- 1 paper in Nature Chemistry, 2 papers in PNAS, 3 papers in J. Am. Chem. Soc. (1 JACS Spotlight), 3 papers in Angew. Chem. Int. Ed. (1 Hot Paper), 1 paper in J. Phys. Chem. Lett.
- co-authored (with M. Olivucci) a first monograph on QM/MM studies of light-responsive biological systems published by Springer
- Hirsch Index: h=26 (Scopus); h=29 (Google Scholar)
- Number of citations: 2239 (Scopus); 2825 (Google Scholar)
- Average no. of Citations per Article: ca. 37 (Scopus); ca. 47 (Google Scholar)
- ca. 100 presentations at scientific meetings (ca. 20 invited lectures)

## ■ Awards and Honors

<b>2024, 2020, 2018, 2009, 2008</b>	President's of Wroclaw Tech Award
<b>2009</b>	Polityka Scientific Award (the most prestigious scientific award in Poland for young scientists)
<b>2006</b>	Lindau Nobel Laureate Meeting Young Researcher Grant
<b>2005</b>	Marie Curie Reintegration Grant by European Commission
<b>2002</b>	Marie Curie Individual Fellowship by European Commission
<b>1999</b>	TEMPUS Fellowship by European Commission

## ■ Research Funding

- 2018** KNOW (Principle Investigator)
- 2017** National Science Centre (3 years; PhD Advisor)
- 2014** National Science Centre (2 years; Investigator)
- 2011** Wroclaw Research Centre EIT+/European Regional Development Fund (4 years; 2 725 000 PLN; Principle Investigator)
- 2011** Wroclaw University of Technology (2 years; Principle Investigator)
- 2009** Polish State Committee for Scientific Research (2 years; Investigator)
- 2006** Polish State Committee for Scientific Research (3 years; Investigator)
- 2005** Marie Curie Reintegration Grant from European Commission (1 year; Principle Investigator)
- 2002** Marie Curie Individual Fellowship by European Commission (2 years; Principle Investigator)
- 1999** Grant for young scientists from the Polish State Committee for Scientific Research (1 year; Principle Investigator)

## ■ Teaching Experience

### **1-week workshops on Molecular Dynamics (ERASMUS+ grants from European Commission) at:**

- Universidad Mayor de San Simon (Cochabamba, Bolivia; 2025)
- Siena University (Italy; 2024)
- Elbasan University (Albania; 2021),
- Pavlodar State University (Kazakhstan, 2019),
- Kathmandu University in Dhulikhel (Nepal; 2018 & 2017)

### **2005-present: Wroclaw University of Technology, Wroclaw:**

Bionanotechnology, Molecular Dynamics, BioChemBio, Highlights of Modern Chemistry, Basic Bionanotechnology, Physical Chemistry, Basic Physical Chemistry

### **2009: Silesian University in Katowice:**

Introduction to Molecular Modeling - Calculations of Large Molecular Systems

### **1994-1998: Jagiellonian University, Krakow:**

Statistical Thermodynamics, Quantum Chemistry, Theoretical Spectroscopy

## ■ Supervised PhD students:

- Dawid Grabarek „Modelling and characterization of one- and two-photon absorption for chosen green and yellow fluorescent proteins with theoretical chemistry methods”, February 2021
- Łukasz Wolański „Structural and spectral properties of rhodopsin and GFP chromophores. Quantum-chemical studies”, June 2017 (thesis in Polish)
- Elżbieta Walczak „The impact of retinals’s structural modifications on the photoisomerization process in rhodopsin”, June 2015 (thesis in Polish)

## ■ Referee Duties

### Funding Agencies:

- European Research Council - MSCA H2020 (2026, 2025, 2024, 2023, 2022, 2021, 2020, 2019, 2018)
- Slovakia Research Agency (2024)
- Czech Science Foundation (2019)
- Review Panel for Physical and Analytical Chemistry Sciences, National Science Centre, Poland (2019, 2015, 2014)
- Review Superpanel for Physical Sciences and Engineering, National Science Centre, Poland (2015)

**Peer-Reviewed Journals:** Journal of the American Chemical Society, Journal of Physical Chemistry Letters, ACS Omega, Journal of Chemical Theory and Computation, Journal of Physical Chemistry B, Journal of Photochemistry and Photobiology A: Chemistry, ChemPhysChem, Theoretical Chemistry Accounts, Journal of Chemical Information and Modeling, Journal of Molecular Modeling, Canadian Journal of Physics, Journal of Quantitative Spectroscopy and Transfer, Computational and Theoretical Chemistry, Chemical Physics Letters, Select Chemistry, and Structural Chemistry

**Reviews in academic promotion procedures (PhD, DSc, Professor):** Wrocław Tech (Poland; 2025, 2017, 2014, 2012), Szczecin University (Poland; 2024), Siena University (Italy; 2024, 2019), University of Alberta (Canada; 2021), Jagiellonian University in Krakow (Poland; 2019), Lodz University of Technology (Poland; 2019, 2016), Gdansk University of Technology (Poland; 2019, 2016), Institute of Biochemistry and Biophysics, Polish Academy of Sciences in Warsaw (Poland; 2018), Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences in Krakow (Poland; 2017, 2012), Adam Mickiewicz University in Poznan (Poland; 2016), Banaras Hindu University (India; 2013), University of Montpellier (France; 2011), University of Warsaw (Poland; 2009)

## ■ Professional Services

- Member of the Committee on Theoretical and Computational Chemistry at the Wrocław Branch of the Polish Academy of Sciences for the 2023–2026 term
- Chair of the Organizing and Scientific Committee of Modeling and Design of Molecular Materials international conference (2025), Wrocław, Poland
- Chair of the Program Committee for the Biosciences Program at Wrocław Tech (since 2024)
- Chair of the Chemistry Faculty Finance Committee at Wrocław Tech (since 2024)
- Member of the Chemistry Faculty Committee on Educational Quality (since 2024)
- Member of the Scientific Committee of Current Trends in Theoretical Chemistry international conference (2024), Kraków, Poland
- Member of the Research Ethics Committee at Wrocław Tech (2021–2023)
- Member of the Scientific Committee of Modeling and Design of Molecular Materials 2022 international conference, Gdansk, Poland
- Member, University Election Committee, Wrocław Tech (2020–2024, 2012–2016)
- Member of the Scientific Committee of XI Symposium of Polish Bioinformatics Society

(2018), Wrocław, Poland

- Member of the Organizing Committee of Modeling and Design of Molecular Materials international conference (2006–2018), Wrocław, Poland