

SIPS 2025, in Honor of Nobel Laureate in Chemistry, Prof. Aaron Ciechanover

2025 SIPS



MATYJASZEWSKI INTERNATIONAL SYMPOSIUM
on Green Chemistry & Polymers & their Application

17-20 November 2025, Dusit Thani Mactan Resort, Cebu, Philippines

Curriculum Vitae of Krzysztof Matyjaszewski

Education

- ❖ Polytechnic University of Lodz, Poland, Habilitation, 1985
- ❖ Polish Academy of Sciences, Ph.D., 1976 (Prof. S. Penczek, Thesis Advisor)
- ❖ Technical (Petrochemical) University of Moscow, B.S./M.S., 1972

Employment

- | | |
|----------------|---|
| 2004 - present | University Professor, Carnegie Mellon University |
| 1998 - present | J.C. Warner Professor of Natural Sciences, Carnegie Mellon University |
| 1994 - 1998 | Head, Chemistry Department, Carnegie Mellon University |
| 1985 - 1998 | Assistant, Associate and Full Professor, Carnegie Mellon University |
| 1984 - 1985 | Research Associate, CNRS and Invited Professor, University of Paris, France |
| 1978 - 1984 | Research Associate, Polish Academy of Sciences |
| 1977 - 1978 | Post-Doctoral Fellow, University of Florida |

Professional Affiliations

- ❖ Carnegie Mellon University, Center for Macromolecular Engineering, Director
- ❖ Carnegie Mellon University, Controlled Radical Polymerization Consortium, Director
- ❖ Carnegie Mellon University, Department of Chemical Engineering, Adjunct Professor
- ❖ Carnegie Mellon University, Department of Materials Science, Adjunct Professor
- ❖ University of Pittsburgh, Department of Chemical and Petroleum Engineering, Adjunct Professor
- ❖ Polish Academy of Sciences, Lodz, Poland, Adjunct Professor
- ❖ Lodz Polytechnic, Lodz, Poland, Adjunct Professor
- ❖ Visiting Professor at University of Paris (1985, 1990, 1997, 1998, 2005), University of Freiburg (1988), University of Bayreuth (1991), University of Strasbourg (1992), University of Bordeaux (1996, 2004), University of Ulm (1999), University of Pisa (2000), Michigan Molecular Institute (2004), University of Tokyo (2005), Lodz Polytechnic (2009-), University of Pusan, Korea (2010, 2011), Ecole Supérieure de Physique Chimie Industrielles, Paris (2011), Collège de France (2016), CNRS Ambassador of Chemical Sciences (2022)
- ❖ Faculty of the McGowan Institute for Regenerative Medicine, University of Pittsburgh (2009-present)
- ❖ McGraw Hill Encyclopedia of Science and Technology, Advisor
- ❖ Editor-in-Chief: "Progress in Polymer Science" 1999-2021 (IF=31)
- ❖ Co-editor-in-Chief "Polymer Science: A Comprehensive Reference", 10 volumes, Elsevier, 2012
- ❖ Member of Scientific Advisory Boards: Max Planck Institute of Polymer Research, Mainz Germany (2010-2017); Aachen Leibnitz Institute (2008-2021); CNRS Institut Charles Sadron, Strasbourg, France (2012-2019), Université Bordeaux, France (2012-2019), ESPCI, Paris (2017-2024)
- ❖ Member of Editorial Boards: "Chem. Centr. J.", "ChemPlusChem", "Chinese J. Polym. Sci.", "E-Polymers", "Intern. J. Polym. Mater.", "Internat. J. Appl. Chem.", "J. Inorg. Organomet. Polymers", "Polimery", "Polymer", "J. Nanostruct. Polym.", "J. Polym. Sci., Polym. Chem. Ed.", "Macromol. Chem. Phys.", "Macromol. Rapid Comm.", "Macromol. Research", "Macromol. Synth.", "Polymer", "Polym. Adv. Techn.", "Nanocontainers", "Nano-Micro Letters".

Professional Associations/Society Memberships/Committees

- ❖ US National Academy of Engineering (2006-); US National Academy of Sciences (2019-)
- ❖ Foreign Member of Polish Academy of Sciences (2004-), Polish Academy of Arts and Sciences (2017-), Russian Academy of Sciences (2012-), Australian Academy of Sciences (2019-), European Academy of Sciences (2020-), Hungarian Academy of Sciences (2023-), Georgian Academy of Natural Sciences (2022-)
- ❖ Honorary member of the Polish, Georgian, Chinese, and Israeli Chemical Society
- ❖ President, Pacific Polymer Federation, (2013-2015)
- ❖ IUPAC: Fellow (2002); Corresponding Member of IUPAC Commission on Polymer Nomenclature
- ❖ American Chemical Society: ACS, Fellow (2010) and member since 1986; ACS Polym. Mat. Sci. Eng. Div.: Fellow (2001); ACS Polym. Chem. Div.: Fellow (2010); Past Chair of the Polym. Curric. Dev. Award (1987-2001); Member of Program Comm. and past Chair Intern. Committee (2003-2016).
- ❖ Biohybrid Solutions, founder and board member, 2016-present

Awards & Honors

2024 : Honorary Fellow, Polish Chemical Society, Poland; Honorary Degree (*Doctorate Honoris Causa*) Rzeszow University of Technology, Poland; **2023** : National Academy of Sciences Award in Chemical Sciences ; CNRS Fellow (France) ; Honorary Degree (*Doctorate Honoris Causa*) University of Crete, Greece; **2022** : CNRS Ambassador of Chemical Sciences in France; Honorary Member of Hungarian Academy of Sciences; Georgian Academy of Natural Sciences, Member; **2021**: Grand Prix de la Fondation de la Maison de la Chimie; **2020**: Fellow, European Academy of Sciences; Paul Flory Polymer Educational Award (ACS); William H. Nichols Medal Award (ACS); **2019**: Chemistry of Materials Award (ACS); Menachem Lewin Award; Member, National Academy of Sciences; Fellow, Australian Academy of Sciences; **2018**: Honorary Degree (*Doctorate Honoris Causa*) University of Coimbra, Portugal; Herman Mark Medal, Austrian Polymer Society, Austria; **2017**: Benjamin Franklin Medal in Chemistry, USA; Honorary Degree (*Doctorate Honoris Causa*) University of Padova, Italy; Medema Award, The Netherlands; Foreign Member: Polish Academy of Arts and Sciences; **2016**: Honorary Degree (*Doctorate Honoris Causa*) University of Poznan, Poland; Casimir Funk Award, Polish Institute of Arts and Sciences, USA **2015**: The International Dreyfus Prize in the Chemical Sciences; Charles Overberger Prize (ACS); Honorary Degree (*Doctorate Honoris Causa*) Technion, Haifa, Israel; **2014**: Fellow, National Academy of Inventors; National Institute of Materials Science (NIMS, Japan), Award; **2013**: Inaugural AkzoNobel North American Science Award (ACS); Honorary Degree (*Doctorate Honoris Causa*), Pusan National University, South Korea; Honorary Degree (*Doctorate Honoris Causa*), Universite P & M Curie (Sorbonne), Paris, France; Smets Lectures Award (Belgium), Madison Marshall Award, North Alabama Section, ACS; **2012**: Dannie-Heineman Prize; Société Chimique de France Prize; Solomon Lecture Award (Australia); Marie Skłodowska-Curie Science Medal, Pilsudski Institute of America ; Foreign Member of Russian Academy of Sciences; Honorary Fellow of Chinese Chemical Society; Hermann F. Mark Award (ACS); Maria Skłodowska-Curie Medal, Polish Chemical Society; **2011**: Wolf Prize in Chemistry, Israel; Applied Polymer Science Award (ACS); Japanese Society Polymer Science Award; Carnegie Science Award in Advanced Materials; **2010**: American Chemical Society, Fellow; ACS Polymer Division, Fellow; Gutenberg Lecture Award, University of Mainz, Germany; Honorary Degree (*Doctorate Honoris Causa*) l'Institut Polytechnique, Toulouse, France; **2009**: Presidential Green Chemistry Challenge Award; **2008**: Honorary Degree (*Doctorate Honoris Causa*) University of Athens, Greece; **2007**: Hermann F. Mark Senior Scholar Award (ACS); Honorary Degree (*Doctorate Honoris Causa*) Lodz Polytechnic, Poland; **2006**: Member of US National Academy of Engineering; Honorary Degree (*Doctorate Honoris Causa*) Russian Academy of Sciences; **2005**: UK Macro Medal; **2004**: Annual Prize of the Foundation of Polish Science (aka Polish Nobel Prize); Foreign Member of Polish Academy of Sciences; Cooperative Research Award in Polymer Science (ACS); **2002**: Polymer Chemistry Award (ACS); Honorary Degree (*Doctorate Honoris Causa*) University of Ghent, Belgium; **2001**: Pittsburgh Award (ACS); Polymeric Materials Science and Engineering Fellow (ACS); **1999**: Humboldt Award for Senior US Scientists; **1998**: Elf Chair of French Academy of Sciences; **1995**:

Carl S. Marvel - Creative Polymer Chemistry Award (ACS); **1989**: Presidential Young Investigator Award (NSF); **1981**: Polish Academy of Sciences Award; **1980**: Polish Chemical Society Award.

Publications and Patents: *See Addendum 1 and 2*

-25 books, 103 book chapters and 1,330 peer-reviewed papers published

-71 issued US patents, 36 pending US patent applications; 155 original and derived international patents

Expertise:

- Macromolecular engineering, preparation and processing of precisely controlled polymers to reach targeted materials properties. Correlation of macromolecular structure with macroscopic properties

- Synthesis of well-defined macromolecules via living and controlled polymerizations. Radical, cationic, and anionic polymerization of alkenes and heterocyclics. Block, graft and gradient copolymers. Control of chain microstructure and topology. Functional polymers and telechelics

- Preparation of well-defined polymers and hybrids for optoelectronic, biomedical and special applications.

- Inorganic and organometallic polymers. Homogeneous and heterogeneous catalysis

Research Impact:

- >150 postdoctoral fellows, > 100 graduate, and >100 undergraduate students have been members of the CMU research group.

-61 international companies from Europe, Japan, South Africa and North America have been members of CRP and ATRP Consortia at CMU; 18 licenses signed for ATRP technology. Commercial production of materials by ATRP started in Japan, USA and Europe in 2004.

- The first paper and the first review on ATRP have been cited together >13,000 times (Clarivate Web of Science or >16,000 - Google Scholar), citation record >158,000 (Clarivate or >203,000 Google Scholar); h-index: 188 Clarivate (214 Google Scholar).