

# **Krzysztof Matyjaszewski**

**University Professor at Carnegie Mellon University**

Pittsburgh, PA, US

Krzysztof Matyjaszewski is one of the leading educators of polymer chemistry.

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## **Biography**

One of the leading educators in the field of polymer chemistry, Krzysztof (Kris) Matyjaszewski is perhaps best known for the discovery of atom transfer radical polymerization (ATRP), a novel method of polymer synthesis that has revolutionized the way macromolecules are made. As head of the Department of Chemistry, Matyjaszewski formed a research consortium with various industrial corporations to expand the understanding of controlled radical polymerization, including ATRP, and accelerate the transfer of this technology to different commercial applications. A second consortium, formed under his leadership in 2001, continues and expands these efforts, training university and industrial scientists in procedures for responsive polymeric material development. Over 60 companies from Europe, Asia and North America have been members of these consortia.

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## **Industry Expertise**

Chemicals

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## **Areas of Expertise**

Atom Transfer Radical Polymerization (ATRP), Polymer Chemistry, Polymer Synthesis, Macromolecules, Responsive Polymeric Material Development

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## **Education**

**Polish Academy of Sciences**

Ph.D. Chemistry

**Technical University of Moscow**

M.S. Chemistry

**Technical University of Moscow**

B.S. Chemistry

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## **Accomplishments**

**National Academy of Sciences Award in Chemical Sciences**

2023

**Grand Prix de la Fondation de la Maison de la Chimie**  
2021

**Benjamin Franklin Medal in Chemistry**  
2017

**Medema Lecture Award (Polymer Technology Netherlands)**  
2017

**International Dreyfus Prize in the Chemical Sciences**  
2015

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