

Curriculum vitae

Ing. Patrycja Magdalena Bober, PhD

Date of birth: 21 April 1984
Place of birth: Blazowa, Poland
E-mail: bober@imc.cas.cz

Institute address:

Institute of Macromolecular Chemistry, CAS, Heyrovsky Sq. 2, 162 06 Prague 6, Czech Republic; Tel.: (+420) 296-809-443. Fax: (+420) 296-809-410.

Position:

Institute of Macromolecular Chemistry, CAS; since 2009. Recent position: Head of the Department of Conducting Polymers.

Education:

09.2013–04.2014	Post doc , Johan Gadolin Scholarship – The Process Chemistry Centre at Åbo Akademi University, Turku, Finland.
10.2009–05.2013	Doctorate (Ph.D.) in Polymer Chemistry at the Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Department of Conducting Polymers and Charles University Prague, Faculty of Natural Sciences, Department of Physical and Macromolecular Chemistry, Czech Republic.
09–12.2012	Johan Gadolin Scholarship for PhD student – The Process Chemistry Centre at Åbo Akademi University, Turku, Finland.
2003–2008	Master of Science and Engineer (MSc Eng) at Rzeszów University of Technology, The Faculty of Chemistry, Subject: Technical Technology, Specialty: Polymer Technology.

Awards:

2018 The Otto Wichterle Award
Professional Activities:

2011	Member of the Organizing Committee of the 75th Prague Meeting on Macromolecules - Conducting Polymer, 10-14 July 2011, Czech Republic.
2022	Member of the Organizing Committee of the EPF European Polymer Congress, 26 June – 1 July 2022, Prague, Czech Republic.

Research grants:

01.2014–12.2016	Czech Science Foundation (with the budget 1773 tis. Kc) Project title: Conducting inks based on hybrid colloidal composites
01.2017–12.2018	The Ministry of Education, Youth and Sports of the Czech Republic (with the budget 300 tis. Kc) - Programme for Funding Multilateral Scientific and Technological Cooperation Projects in the Danube Region 2017–2018 (project partners: Czech Republic, Austria, Serbia and Slovakia). Project title: Conducting polymer composites
01.2018–12.2020	Czech Science Foundation (with the budget 4552 tis. Kc) Project title: Nanostructured conducting polymer composites

04.2021–03.2024	Czech Science Foundation (with the budget 4905 tis. Kč) Project title: Innovative conducting polymer composites for water purification
07.2022-06.2025	M-ERA.NET (with the budget 248 625 €); Project partners: Czech Republic, Austria and Taiwan. Project title: Development of novel Li ion battery solid electrolyte separators based on metal organic frameworks
<i>Distinguish results:</i>	113 papers published in international journals; <i>h</i> -index: 30 ResearcherID: J-9778-2012

10 most important scholarly publications

- I. M. Minisy, U. Acharya, S. Veigel, Z. Morávková, O. Taboubi, J. Hodan, S. Breitenbach, C. Unterweger, W. Gindl-Altmutter, P. Bober, [Sponge-like polypyrrole-nanofibrillated cellulose aerogels: synthesis and application](#), Journal of Materials Chemistry C (2021).
- I. M. Minisy, P. Bober, [Frozen-state polymerization as a tool in conductivity enhancement of polypyrrole](#), Macromolecular Rapid Communications, 41, 17 (2020), 2000364:1–5.
- K. A. Milakin, Z. Capáková, U. Acharya, J. Vajdák, Z. Morávková, J. Hodan, P. Humpolíček, P. Bober, [Biocompatible and antibacterial gelatin-based polypyrrole cryogels](#), Polymer, 197 (2020), 122491:1–7.
- I. Minisy, U. Acharya, L. Kobera, M. Trchova, C. Unterweger, S. Breitenbach, J. Brus, J. Pflieger, J. Stejskal, P. Bober, [Highly conducting 1-D polypyrrole prepared in the presence of safranin](#), Journal of Materials Chemistry C, 8, 35 (2020), 12140–12147.
- P. Bober, J. Pflieger, I. A. Pasti, N. M. Gavrilov, S. K. Filippov, D. Klepac, M. Trchova, H. Hlídková, J. Stejskal, [Carbogels: carbonized conducting polyaniline/poly\(vinyl alcohol\) aerogels derived from cryogels for electrochemical capacitors](#), Journal of Materials Chemistry A, 7, 4 (2019), 1785–1796.
- I. M. Minisy, N. Gavrilov, U. Acharya, Z. Morávková, C. Unterweger, M. Mičušík, S. K. Filippov, J. Kredatusová, I. A. Pašti, S. Breitenbach, G. Ćirić-Marjanović, J. Stejskal, P. Bober, [Tailoring of carbonized polypyrrole nanotubes core by different polypyrrole shells for oxygen reduction reaction selectivity modification](#), Journal of Colloid and Interface Science, 551, 2019, 184–194.
- P. Bober, M. Trchová, Z. Morávková, J. Kovářová, I. Vulić, N. Gavrilov, I. A. Pašti, J. Stejskal, [Phosphorus and nitrogen-containing carbons obtained by the carbonization of conducting polyaniline complex with phosphites](#), Electrochimica Acta, 246 (2017), 443–450.
- Y. Li, P. Bober, M. Trchova, J. Stejskal, [Polypyrrole prepared in the presence of methyl orange and ethyl orange: nanotubes versus globules in conductivity enhancement](#), Journal of Materials Chemistry C, 5, 17 (2017) 4236–4245.
- P. Bober, J. Kovářová, J. Pflieger, J. Stejskal, M. Trchová, I. Novák, D. Berek, [Twin carbons: The carbonization of cellulose or carbonized cellulose coated with a conducting polymer, polyaniline](#), Carbon, 109 (2016), 836–842.
- P. Bober, J. Liu, K. S. Mikkonen, P. Ihalainen, M. Pesonen, C. Plumed-Ferrer, A. von Wright, T. Lindfors, Ch. Xu, R.-M. Latonen, [Biocomposites of nanofibrillated cellulose, polypyrrole, and silver nanoparticles with electroconductive and antimicrobial properties](#), Biomacromolecules, 15, 10 (2014), 3655–3663.