

**Curriculum vitae**  
**Dr. Gheorghe ROMAN**

Petru Poni Institute of Macromolecular Chemistry  
Romanian Academy  
41A Aleea Gr. Ghica Vodă  
700487 Iași, Romania  
Phone: +40-332 880 050  
Email: gheorghe.roman@icmpp.ro  
Personal identifiers: Web of Science Researcher ID: C-8521-2011;  
ORCID: 0000-0003-0939-1899



**Education**

Postdoctoral training (Medicinal Chemistry), Queen's University, Kingston, Canada (Prof. W. A. Szarek), 2005–2009;

Postdoctoral training (Chemical Biology), Biotechnology Research Institute, Montreal Canada (Dr. Y. Konishi), 2002–2005;

PhD (Organic Chemistry), Gheorghe Asachi Technical University, Iași, Romania, supervisor Prof. Eugenia Comaniță, 2001;

BSc (Chemical Engineering), Gheorghe Asachi Technical University, Iași, Romania, 1991.

**Academic/work experience**

Research Associate, Department of Inorganic Polymers, Petru Poni Institute of Macromolecular Chemistry, Iași, Romania, 2011–present;

Lecturer (Organic Chemistry), Department of Chemistry, Transilvania University, Brașov, Romania, 2001–2006;

Assistant Professor (Organic Chemistry, Biochemistry, Chemical Technology, General Chemistry), Department of Chemistry, Transilvania University, Brașov, Romania, 1997–2001.

**Research interests**

- chemistry and applications of Mannich bases;
- chalcone analogs: chemistry and structure–biological activity relationship;
- heterocyclic chemistry;
- coordination polymers;
- silicon-containing compounds;
- fluorophores for photoactive polymers.

**Skills**

Organic synthesis, NMR spectroscopy, structure–biological activity relationship.

**Scientometric indicators:**

Over 80 publications in peer-reviewed journals (h-index 15), three patent applications, more than 1,000 citations.

## Selected publications

1. G. Roman, J.G. Riley, J.Z. Vlahakis, R.T. Kinobe, J.F. Brien, K. Nakatsu, W.A. Szarek, Heme oxygenase inhibition by 2-oxy-substituted 1-(1*H*-imidazol-1-yl)-4-phenylbutanes: Effect of halogen substitution in the phenyl ring, *Bioorg. Med. Chem.* **15**, 3225–3234 (2007);
2. M. A. Alaoui-Jamali, T. A. Bismar, A. Gupta, W.A. Szarek, J. Su, W. Song, Y. Xu, B. Xu, G. Liu, J.Z. Vlahakis, G. Roman, J. Jiao, H.M. Schipper, A novel experimental heme oxygenase-1–targeted therapy for hormone-refractory prostate cancer, *Cancer Res.* **69**, 8017–8024 (2009);
3. G. Roman, Mannich bases in medicinal chemistry and drug design, *Eur. J. Med. Chem.* **89**, 743–816 (2014);
4. G. Roman, Selected Michael additions to thiophene-containing analogues of chalcone, *Rev. Roum. Chim.* **60**, 751–760 (2015);
5. G. Roman, V. Năstasă, A.-C. Bostănar, M. Mareş, Antibacterial activity of Mannich bases derived from 2-naphthols, aromatic aldehydes and secondary aliphatic amines, *Bioorg. Med. Chem. Lett.* **26**, 2498–2502 (2016);
6. B.-I. Bratanovici, A. Nicolescu, S. Shova, I.-A. Dascălu, R. Ardeleanu, V. Lozan, G. Roman, Design and synthesis of novel ditopic ligands with a pyrazole ring in the central unit, *Res. Chem. Intermed.* **46**, 1587–1611 (2020);
7. L. Săcărescu, M. Dascălu, A.L. Chibac-Scutaru, G. Roman, Synthesis, structural characterization, photophysical study and investigation as fluorescent sensor towards metal ions of 1,2,3-triazole–azaindene hybrids, *J. Photochem. Photobiol. A* **433**, 114160 (2022);
8. G. Roman, Thiophene-containing compounds with antimicrobial activity, *Arch. Pharm. (Weinheim)* **355**, e2100462 (2022);
9. M. Dascălu, A. Chibac-Scutaru, G. Roman, Detection of nitroaromatics by a Zn(II)-containing coordination polymer derived from a 1,2,3-triazole-based tricarboxylate ligand, *J. Mol. Liq.* **386**, 122457 (2023);
10. L. Săcărescu, A.L. Chibac-Scutaru, G. Roman, G. Săcărescu, M. Simionescu, Selective detection of metal ions, sulfites and glutathione with fluorescent pyrazolines: a review, *Environ. Chem. Lett.* **21**, 561–596 (2023).