



M.Sc. Bianca-Iulia Ciubotaru

Ph.D student/Research Assistant

Affiliation: Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania

E-mail: ciubotaru.bianca@icmpp.ro

Tel: +40730849301

Brainmap codes: UEFISCDI ID (UEF-ID): U-1900-063K-6568

Research topics

Medical bioengineering qualification with background in the application of the physics, chemistry, mathematics and engineering principles for the study of biology and medicine, the basic principles of the characteristics, applications and operating principles of medical devices, the types of biomaterials and their processing for obtaining and using implantable, individual control devices. Skills in the synthesis and evaluation of bioactive compounds and in the application of biotechnological processes, synthesis of amino functionalized siloxanes, controlled drug release studies, self-assembled networks, porous networks, characterization of biomaterials for their biocompatibility, bioactivity and bio- and muco-adhesivity, behavioral studies of the compounds in simulated physiological environments.

Scientific research

Author and co-author of **20 ISI articles** (9 in Q1 zone and 11 in Q2 zone), **1 book chapter**, **4** articles in proceedings, **4** posters, **17** oral communications, 1 gold medal at an international conference-*INVENTICA*, member in **3 research national/international grants**, **2 international mobilities**, 65 citations (HI = 5).

Visibility

<https://www.brainmap.ro/bianca-iulia-ciubotaru;> <https://orcid.org/0000-0002-4193-899X;>

<https://www.researchgate.net/profile/Bianca-Iulia-Ciubotaru-2;>

https://scholar.google.com/scholar?hl=en&as_sdt=0,5&as_ylo=2017&as_yhi=2024&as_vis=1&q=Bianca+Iulia+Ciubotaru+citations;

<https://www.webofscience.com/wos/author/record/AA Y-4586-2020>

SELECTED RELEVANT SCIENTIFIC ARTICLES

- Ciubotaru, B.-I.**, Zaltariov, M.F., Dascalu, M., Bele, A., Bargan, A., Cazacu, M., „ Amino-functionalized silicones processed as porous dual covalent/supramolecular networks for pressure sensing” *Reactive and Functional Polymers* **2024**, 194, 105792, (FI = 5.1), (Q1).
- Zaltariov, M.-F.; **Ciubotaru, B.-I.**; Ghilan, A.; Peptanariu, D.; Ignat, M.; Iacob, M.; Vornicu, N.; Cazacu, M. „ Mucoadhesive Mesoporous Silica Particles as Versatile Carriers for Doxorubicin Delivery in Cancer Therapy”, *International Journal of Molecular Sciences*, **2023**, 24, 14687. <https://doi.org/10.3390/ijms241914687>, F.I.=5.6, (Q2).
- Ciubotaru, B.-I.**, Dascalu, M., Zaltariov, M.-F., Macsim, A.-M., Damoc, M., Bele, A., Tugui, C., Varganici, C.D., Cazacu, M. „ Catalyst-free crosslinked sustainable functional silicones by supramolecular interactions”, *Reactive and Functional Polymers*, **2022**, 181, 105419, ISSN 1381-5148, <https://doi.org/10.1016/j.reactfunctpolym.2022.105419>, F.I.=5.1, (Q1).
- Ciubotaru, B.-I.**, Zaltariov, M.-F., Tugui, C., Stoleru, E., Peptanariu, D., Stiubianu, G., Vornicu, N., Cazacu, M. „Silicones with different crosslinking patterns: Assessment from the perspective of their suitability for biomaterials”, *Surfaces and Interfaces*, **2022**, 32, 102168, <https://doi.org/10.1016/j.surfin.2022.102168>., F.I. =6.2, (Q1).

5. Macocinschi, D., Filip, D., Ciubotaru, B. I., Dumitriu, R. P., Varganici, C. D., Zaltariov, M. F. „Blends of sodium deoxycholate-based poly(ester ether)urethane ionomer and hydroxypropylcellulose with mucosal adhesiveness”, *International Journal of Biological Macromolecules*, **2020**, 162, 1262–1275. <https://doi.org/10.1016/j.ijbiomac.2020.06.191>, F.I.=8.2, (Q1).