



## Livia Maria BUTAC

Associate Professor  
Faculty of Applied Chemistry and Materials Science

Department of Bioresources and Polymers Science

### Contact Details

1, Polizu Str, Building A, 1<sup>st</sup> floor  
Tel.: +40723245034  
E-mail: [livia\\_butac@hotmail.com](mailto:livia_butac@hotmail.com)



### Biography

Date	Role
2010-	Associate Professor/Reader, Department of Bioresources and Polymers Science, University Politehnica of Bucharest
1993-2000	Lecturer, Department of Bioresources and Polymers Science, University Politehnica of Bucharest
1991-1993	Assistant, Department of Bioresources and Polymers Science, University Politehnica of Bucharest POSDRU/89/1.5/S/54785, University Politehnica of Bucharest
1987-1991	Design Engineer, Institute for Technological Engineering and Design for Chemical Industry, Bucharest
1985-1991	Chemical Engineer, Rubber industry (Combinatul articole Tehnice din Cauciuc), Jilava
1991	Economist, Economic Cybernetics, Academy of Economic Studies, Bucharest
1985	Chemical Engineer, Chemical Technology, Politehnica University of Bucharest
1999	PhD, Polymer Science, Politehnica University of Bucharest

### Research

#### Research Interests

- Polymer Properties
- Polymer Physics
- Rheology of Polymeric materials
- Mathematical modelling of polymerization processes



### **Selected Research Projects**

- Copolimeri termorezistenti pe baza de diciclopentadiena, Nr. Proiect CNCSIS : 654, Nr. UPB: GR 18/29.05.2007-2010, Tip proiect A. (participant)

### **Academic interests**

#### **Teaching activity**

<b>Studies</b>	<b>Program Name/Faculty</b>	<b>Code</b>	<b>Title</b>	<b>Activity type</b>
Bachelor	Science and Engineering of Polymers/Applied Chemistry & Materials Science		Polymer Physics	Course
	Chemical Engineering/Faculty of Engineering in Foreign Languages		Polymer Physics	Course
	Chemical Engineering/Faculty of Engineering in Foreign Languages		Adhesives and Film-Forming Materials	Course
Master	Science and Engineering of Polymers/Applied Chemistry & Materials Science		Quality Insurance Procedures in Polymer Industry	Course and applications
	Consumer Protection/Applied Chemistry & Materials Science		Quality Control of Organic & Polymer Products	Course and applications

#### **Membership of Professional Bodies**

- Member of the Chemical Romanian Society (SchR, 2007)

### **Publications**

#### **Journal Articles (selection)**

1. A. Fernandez-Gonzales, I.C.Stancu, L.M.Butac, R.Salzer – Noise reduction in Plasmon Resonance Images, JOAM (journal of Optoelectronics and Advanced Materials) – Rapid Communications, **1**(9), 452-456, 2007
2. E. Rusen, B. Marculescu, L. Butac, N. Preda, L. Mihut - The Synthesis and Characterization of Polyvinyl Chloride Chemically Modified with C60 - Fullerenes, Nanotubes, and Carbon Nanostructures, **16**, 1–8, 2008
3. E. Rusen, B. Marculescu, L.Butac, T. Zecheru, F. Miculescu, T. Rotariu – Acrylic cements for dental prosthetics – JOAM (Journal of Optoelectronics and Advanced Materials), **10** (**12**), 3436-3441, 2008
4. A.Lungu, E. rusen, L.M. Butac, I.C.Stancu – epoxy-mediated immobilization of PAMAM dendrimers on methacrylic hydrogels – Digest Journal of Nanomaterials and biostructures, **4**(**1**), 97-107, 2009
5. E. Rusen, A. Mocanu, B.Marculescu, R.Somoghi, L.Butac, F. Miculescu, C.Cotrut, I.Antoniac, C.Cincu - Obtaining complex structures starting from monodisperse



poly(styrene-co-2-hydroxyethylmethacrylate) spheres, [Colloids and Surfaces A: Physicochemical and Engineering Aspects](#), **375 (1-3)**, 2011, 35-41

6. Andrei, M; Stanescu, PO; Draghici, C; Butac, LM ; Teodorescu, M - Synthesis and characterization of hydrolytically degradable poly(N-vinylcaprolactam) copolymers with in-chain ester groups, COLLOID AND POLYMER SCIENCE, Volume: 296 Issue: 11 Pages: 1905-1915, DOI: 10.1007/s00396-018-4414-8, WOS:000448691100017

### **Books (selection)**

1. L. M. Butac, B.Marculescu, C.Cincu, A.Boborodea, *Matériaux Polymériques* Ed. Printech, 1999, ISBN 973-9475-54-X

2. C. Cincu, L.M.Butac, I.Stancu, M.Clemens, *Rheologie et mise en œuvre des polymères*, Ed. Printech, 2002, ISBN 973-652-611-9

3. B.Marculescu, D.S.Vasilescu, L.M.Butac, *Fizica Compusilor Macromoleculari (vol.1 – Proprietatile Polimerilor)*, Ed. Politehnica Press Bucuresti, 2004, ISBN 973-8449-51-0

4. B.Marculescu, D.S.Vasilescu, L.M.Butac, *Fizica Compusilor Macromoleculari (vol.2 – Caracterizarea polimerilor)*, Ed. Politehnica Press Bucuresti, 2007, ISBN 978-973-7838-24-7

5. B. Marculescu, L.M.Butac, I.C.Stancu, *Polimeri de uz industrial*, Ed. Ars Docendi, 2006, ISBN 973-558-234-1

6. L.M.Butac, D.S.Vasilescu, *Introduction to Polymers*, Ed. Ars Docendi, 2007, ISBN 978-973-558-298-2

7. L.M.Butac, D.S.Vasilescu, I.C.Stancu – *Macromolecular compounds II. Polymer Properties. Polymer Processing*. Ed.Ars Docendi, 2008, ISBN 978-973-558-389-7

8. B. Marculescu, E. Rusen, L.M.Butac – *Adezivi, lacuri si vopsele*, Ed. Ars Docendi 2009, ISBN 978-973-558-403-0

9. Livia Maria Butac, Bogdan Marculescu, Izabela Cristina Stancu - *Adhesives and film-Forming Materials*, Ars Docendi, 2010, ISBN 978-973-558-529-7, 305 pagini

10. Edina Rusen, Alexandra Mocanu, Bogdan Marculescu, Corina Andronescu, I.C.Stancu, L.M.Butac, A. Ioncea, I. Antoniac - *Influence of the Solid-Liquid Adhesion on Self-Assembling Properties of Colloidal Particles, in Photonic Crystals: Band Structure and Applications*, Physics Research and Technology Series, Venla E. Laine (Ed.), 2010, ISBN 978-1-61728-340-6, pag.173-189

11. L. M. Butac, I.C. Stancu – *Macromolecular Compounds I (Chemistry and Technology of Polymer Synthesis)*, Ars Docendi, 2015, ISBN 978-973-558-399-6