

Universitatea Națională de Știință și Tehnologie POLITEHNICA București  
Facultatea: Inginerie Chimică și Biotehnologii.  
Departamentul: Bioresurse și Știința Polimerilor.  
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Gradul didactic: conferențiar..

## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

Ana-Maria ALBU, “Structuri Macromoleculare cu Potențiale Aplicații în Optica Neliniară”,  
Universitatea Politehnica din București, aprilie 1998

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. A.-M. ALBU, ”Materiale Polimere Cu Aplicații În Optică”, Editura POLITEHNICA PRESS, București, 2017, ISBN 978-606-515-740-8, (282 pag)
2. ALBU, A. –M; Târpă, V. M., 2021, Polymer Architectures for Optical and Photonic Applications in Nonlinear Optics, ED. Boris I. Lembrikov, Ch. 4; <https://doi.org/10.5772/intechopen.99695>

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Popescu, S., Ungureanu, C., Albu A.-M., , Pirvu, C., 2014, Poly(dopamine) assisted deposition of adherent PPy film on Ti substrate, PROG ORG COAT, 77, 1890-1900, ISSN: 0300-9440, DOI: 10.1016/j.porgcoat.2014.06.023; WOS:000083473900012.
2. Aldea, A; Albu, A.-M.; Rau, I.; 2016, New polymeric materials for photonic applications: Preliminary investigations, 2016, Optical Materials, 56, 90-93; doi:10.1016/j.optmat.2016.01.032; ISSN: 0925-3467, WOS:000375517200017.
3. Albu, A.-M.; Maior, I.; Nicolae, C. I., Bocăneală, F. L., Novel PVA Proton Conducting Membranes Doped with Polyaniline Generated by in-situ polymerization, 2016, ELECTROCHIMICA ACTA, 211, 911–917; doi:10.1016/j.electacta.2016.06.098; WOS:000380904100103.
4. Aldea, A; Albu, A.-M., Nicolescu, A., Tecuceanu, V., 2016, Kinetics of Free Radical Polymerization of NSubstituted Amides and Their Structural Implications, Adv. Mat. Scie. Engin., ID 6430416, 9 pages, <http://dx.doi.org/10.1155/2016/6430416>; WOS:000382023700001
5. Aldea, A; Albu, AM; Rau, I; 2018, New Carbazole Based Materials: Synthesis And Spectral Characterization; University Politehnica Of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science, 80, 4; 39-48;ISSN 14542331, WOS:000454986600004.
6. Aldea, A; Albu, AM; Rau, I; 2018, Solvatochromic Study Of New Carbazole Based Materials; University Politehnica Of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science, 80, 2; 149-158; ISSN 14542331WOS: 000434271500013.
7. A. -M Albu, W Draghicescu, T Munteanu, R Ion, V Mitran, A Cimpean, S. Popescu, C. Pirvu; 2019; Nitrodopamine vs dopamine as an intermediate layer for bone regeneration applications; Materials Science and Engineering: C 98, 461-471; <https://doi.org/10.1016/j.msec.2019.01.014>; ISSN: 0928-4931; WOS:000461526800046.
8. Stoian, S.A., Gabor, A.R., Albu, AM. Cristian Andi Nicolae, Valentin Raditoiu, Denis Mihaela Panaitescu, Recycled polypropylene with improved thermal stability and melt processability,

#### **D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**

##### **- Reviste**

1. Maior, I.; Albu, A.-M.; Gabor R.; *New Polymer Assembles with Potential Use as Solid Electrolytes Type Membranes*, 2015, **2015**; *Applied Mechanics and Materials Vol. 760*, 245-250. ([doi:10.4028/www.scientific.net/AMM.760.245](https://doi.org/10.4028/www.scientific.net/AMM.760.245)); ISSN: 1662-7482, 16609336

##### **- Selecție cu maximum 20 lucrări în volume de conferințe**

1. New Carbazole Polymer Materials with ONL Properties, Fourth International Workshop on Advanced Nano- And Biomaterials and their Device Applications, September 17-21, 2014, Iași, România

2. Structure–Property Relationships in ONL Polymers: Achievements, Challenges and Opportunities, International Conference on the

Frontiers of Polymers and Advanced Materials- 13th ICFPAM, 29 March - 02 April, 2015, Marrakesh, Morocco

3. Structural Peculiarities of the Polymer- DNA Assembles, SHIF Conference, 13-17 November, 2017, Tenerife, Spain;

4. Challenges in Synthesis, Characterization and Applications of Novel Biomimetic Polymers, EMN Africa Meetings: Energy Materials Nanotechnology, 26-30 November, 2017, Mauritius

5. Cellulose- derived materials for Electrolytes Membranes, EMN Africa Meetings: Energy Materials Nanotechnology, 26-30 November, 2017, Mauritius

6. Structural Peculiarities of the Polymer- DNA Assembles, 17th Edition of International Conference on Emerging Trends in Materials

Science and Nanotechnology, Nanomat (<https://nano-materials.euroscicon.com/>), 2018, April 26-27, Roma, Italy

7. Preliminary Approaches in Designing and Investigation of Materials Inspired by Mussel Adhesive Protein, Tenth CRISTOFOR I.SIMIONESCU Symposium – Frontiers in Macromolecular and Supramolecular Science (<http://www.acad.ro/com2018/doc/d0611-CIS2018-program.pdf>), 8 – 14 June 2018 ROMANIAN ACADEMY, Bucharest, Romania

8. Trybopolymerization: Modern Trends for Antiwear Process, XXXV-th Romanian Chemistry Conference, October 2-5, 2018, Călimănești- Căciulata, Vâlcea, Romania

9. Highly attractive chemistry of polymer-based bioadhesive films: targeted engineering of MA-VBC copolymers, “3rd International

Conference on Materials Science & Materials Chemistry” during October 14-15, 2019; Vienna, Austria

10. DNA or Chromophores – which the best partner for N-substituted Amide Copolymers?; virtual Congress on Materials Science and Engineering, 09-10, November, 2020 (<https://materialsinfo.mindauthors.com/nov-2020>)

##### **E. Brevete obținute în întreaga activitate**

1. D. Mănăilă-Maximean, A.-M. Albu, R. Bena, “*Copolimer Stiren-Acrilic, Procedeu de Preparare, Monomer Colorant Intermediar în Sinteza Copolimerului și Film Compozit pentru Dispozitive Electro-optice*”, Brevet România (1999), 113649 C1/ C09B29/00

**Data:**  
București, 28 Martie 2025

**Semnătura:**