

Dr. Catalina Natalia Cheaburu - YILMAZ

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PROFESSIONAL PROFILE

Doctor of Philosophy (PhD) in Chemistry- specialized in Polymer and Macromolecular Chemistry.

Researcher with 17 years of experience e.g. trials/tests, physical-chemical characterization, project management, organization, data dissemination, education and transfer of knowledge in fields of Polymer Blends, Nano-composites, Biomaterials, Surface Chemistry, Nanotechnology.

The 2 years spent in Helsinki at ECHA (European Chemicals Agency) reinforced my experience in regulatory chemistry in respect with substance identity (REACH inquiries, registrations, harmonized classification, labeling (CLH) and substances with very high concern (SVHC)).

Won as Principal Investigator, EC-FP7 Marie Curie Actions-People-COFUND by TUBITAK- program called CO-FUNDED Brain Circulation Scheme.

Have administered, enforced and revitalized the Research and Development Department of a Chemical Company from Izmir, Turkey, as the Head of R&D.

Co-founder of Academichem Kimya ARGE San. LTD.Tic. Sti. and Manager of Research and Development Department, company founded in 2019 with the support of TUBİTAK under Entrepreneurship Multi-phase Programme-1512. Highly target orientated and motivated person with strong quality focus who push own team for best results.

Greatest Strengths:

- ✓ Spearheaded in laboratory and Research and Development units and its organization,
- ✓ Regulatory chemistry, substance identification and REACH legislations, sameness of substances' solver by using physical-chemical characterization and instrumental analysis.
- ✓ Adaptable in multi-cultural environnement, innovatrice
- ✓ Uplifted, drove growth and prompted.
- ✓ Teacher

WORK EXPERIENCE

ACADEMICHEM Kimya ARGE San.Tic. LTD. STI. – JULY 2019; Manager of Research and Development Department, cofounder of company, founded in 2019 with the support of TUBİTAK under Entrepreneurship Multi-phase Programme-1512.

UNICHEM End. Kimya San.Tic. A.Ş - January 2018 - May 2019; Head of Research and Development Division

- Conducted experiments, identified and solved sameness issues on products and formulations using spectrophotometric and analytical chemistry techniques.
- Developed new polymeric materials and standardized for specific aplications e.g. coating, lubricating and tanning with 8 prototypes, 1 new product on market within 14 months.
- Reorganized R&D Laboratory's Activity and infrastructure by reviewing the main processes and streighthening the team work to creat a chain-alike process.
- Directed, coordinated, and provided guidance to laboratory technicians and quality control staff members.
- Completed joint projects with University by assembling the obtained data and piloting the successful products.
- Conducted and communicated scientific outcomes, wrote technical reports and papers regarding identity and sameness of substances from costumers.
- Re-standardized the physical chemical characterization of in-house products by reviewing and up-grading the standard methods: dyestuffs, pigments, polymers, oils, waxes, etc.
- Evaluated safety procedures for the laboratory to ensure compliance and improved those standards where necessary.

Ege University, August 2015- August 2017- Experienced Researcher within EC-FP7 Marie Curie Actions-People-COFUND project of TUBITAK

- Researched, developed and pioneered "Biopolymeric matrices for topical applications".
- Pharmaceutical formulations based on chitosan, alginate, hyaluronic acid, polyvinyl alcohol were synthesized by designing and performing controlled polymerization techniques (RAFT and click chemistry). Physicalchemical characterization and merged the experiments to preparation of end-formulation for topical application:
- Communicated "Advances in Polymer Chemistry Applied in Pharmaceutical Technology" via a weekly seminar assembled for MSc and PhD students in Pharmacy Faculty.
- Conducted permanent scientific support on polymeric formulations addressed to the staff members of Pharmaceutical Technology Department.
- Participated and clarified the outcome of other projects existing within the Department of Pharmaceutical Technology.
- Set-up new projects together with the staff members of the team.
- Mentored and encouraged PhD students in the starting up of their PhD studies.
- Administered and programed the budget of the project by designing a strategy according to the goals and work packages. A laboratory was modernized with new lab wares, consumables and proper conditions to perform polymerization reactions for further studies.
- Disseminated the project findings via international conferences and published scientific articles.

Ege University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Izmir, Turkey, September 2014-June 2015 - invited Lecturer and researcher

- Instructed and guided MSc students and early stage PhD students on the Polymer Chemistry methods and alternatives to be used in pharmaceutical formulations by drafting and presenting the course Polymers versus Pharmaceutical Formulations.
- Facilitated scientific support for the staff members of Pharmaceutical Technology Department regarding the preparation and characterization of pharmaceutical topical formulations.

European Chemicals Agency (ECHA), Helsinki-Finland, June 2012 – May 2014- Scientific Officer, Seconded National Expert

- Identified and drafted outcomes regarding substance identity in relation to REACH inquiries, REACH registrations and harmonized classification and labeling (CLH), substances with very high concern (SVHC).
- Solved and improved the knowledge on particular cases of organic substances and polymers under REACH by analyzing them via modern techniques of structure identification; the existing documentation was documented together with other team members.
- Answered and aided industry and stakeholders' representatives regarding substance identity cooperating via web conferences, teleconferences, direct interaction at workshops and forums.
- Supported and volunteered the newcomers in achieving knowledge on REACH regulation.

Researcher, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania, May 2004- August 2015

- Synthesized, investigated and analyzed a variety of polymeric materials as interpolymeric complexes, composite and nanocomposites, hydrogels and membranes based on natural (e.g. alginate, chitosan, cellulose, hyaluronic acid) and/or synthetic polymers (Acrylics, PVA, PE) tested for specific biomedical and industrial applications.
- Gathered correlations and systematized data between the chemical structures, physico-chemical properties of polymers and applications.
- Conducted and evaluated the properties of materials by methods like rheology and specific rheological tests e.g. in-situ gelation, creep, thixotropic behavior.
- Conducted and critiqued thermal analyses (Thermogravimetry, Dynamic Mechanical Analysis and DSC) to draft materials' properties.
- Set-up and drafted research project proposals for national and international contests.
- Executed and terminated 5 research projects financed by the National Authority for Science, Technology and Innovation, Romania.
- Coached and motivated MSc and early stage PhD students setting up goals in polymers related studies.

- Communicated and directed research results at international and national conferences, congresses and symposia.
- Publicized and wrote scientific manuscripts and reports for research projects. Reviewed and refereed books and scientific publications.

Major Accomplishments

- Wrote 28 publications in international scientific journals, 8 book chapters and co-edited 1 book (Annex).
- Owns 2 patents
- Managed and planned finance for 6 research projects (2 as main project manager)
- Communicated and presented over 30 international or national symposium or congresses
- Awarded with gold medal by Innovation and Inventions Association of Romania
- Awarded with mobility grants UNESCO/IUPAC, Leonardo da Vinci, COST STSM, Romanian Authority of Science and Technology fellowship
- Awarded with EC-FP7 Marie Curie Actions-People-COFUND project of TUBITAK

EDUCATION

Ph.D, Chemistry, 2004 – 2012, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

PhD thesis: "New systems based on alginates and chitosan. Synthesis, characterization and applications"

M.Sc, Materials and Energies, 2002–2004, Al. I Cuza University, and "Petru Poni" Institute of Macromolecular Chemistry, Iasi, România

• Thesis: "Intermolecular interactions between polymers"

B.Sc, Chemistry, 1998-2002, Al. I Cuza University, Faculty of Chemistry, Chemistry-Physics Division

- Specialized in Chemistry and Physics, Thermodynamics, Polymers
- Optional courses in instrumental analytical methods, lasers, Pedagogy and Methodic for teaching course, etc.

TECHNICAL SKILLS

Preparation methods

• Improved polymer synthesis methods like emulsion polymerization, free radical polymerizations, controlled radical polymerization techniques (RAFT, click chemistry, etc), mixing and blending.

Material characterization techniques

- Won abilities and compiled data regarding Viscometry, rheology, turbidimetry, pH-metry, fluorescence spectroscopy, lyophilisation, GPC, UV-VIS spectroscopy
- Conducted tests in solid state: Differential scanning calorimetry (DSC) and thermogravimetry (TGA), FT-IR spectroscopy, dynamical mechanical analysis (DMA), microscopy (optical SEM and TEM)

Computer skills

- Operated IBM compatible PC user, Windows; Microsoft programs: Word, Power Point, Excel.
- Systematized data by using graphic programs: Origin, ACD labs, Chemdraw, SigmaPlot
- Verified REACH information by using IUCLID, REACH-IT

Languages

Romanian: Mother tongue

• English: Fluent, written and spoken

Spanish: Good

French: IntermediateTurkish: Intermediate

Personal

Date of Birth: August 26th, 1978, Birlad, Romania

Turkish and Romanian Citizen Married, one child (9 years old)

Hobbies: reading, travelling, skating, pets, languages, social activities.

Catalina Yilmaz

Annex:

Book chapters

- C. N. Cheaburu C. N. Yilmaz, H. Yesim Karasulu, O. Yilmaz, Micro/Nanoscaled Dispersed Systems Used in Drug Delivery Applications, chapter 13 in *Polymeric Nanomaterials in Nanotherapeutics*, 1st Edition, C Vasile (Ed) Elsevier ISBN: 978-0-12-813932-5, pp 509 doi: https://doi.org/10.1016/C2017-0-00607-9 (2019).
- **C. N. Cheaburu Yilmaz**,S Tuncay-Tanriverdi, O Ozer, C Vasile. Polysaccharide containing gels for pharmaceutical applications accepted for publication as Springer Publication for Handbook On "Polymer Gels". Section "Polymer Gels: Science and Fundamentals", chapter 6, pp. 231-278 (2018).
- C. N. Cheaburu Yilmaz, C Vasile, O N Ciocoiu, G Staikos. Sodium alginate grafted with poly(N-isopropylacrylamide), chapter 6 in Temperature-Responsive Polymers: Chemistry, Properties, and Applications. V V. Khutoryanskiy (Ed), Theoni K. Georgiou (Editor), Wiley &Sons, ISBN: 978-1-119-15778-6, pp 408 (2018).
- O. Yilmaz, C. N. Cheaburu, C. Vasile, "Waterborne Nanocomposite Coatings", in: Comprehensive Guide for Nanocoatings Technology Volume 3 Properties and Development, Aliofkhazraei MOHAMMED, Eds., Nova Science Publishers, Ltd., pp.377-403, (2015).
- **C. N. Cheaburu-Yilmaz**, O. Yilmaz, C. Vasile, Eco-friendly chitosan-based nanocomposites: Chemistry and applica-tions. Advanced Structured Materials, 74,341-386 (2015).
- , G. G. Bumbu, "Degradable Interpolymeric Complexes." Environmentally Degradable Materials based on Multicomponent Polymeric Systems. C. Vasile. Brill, 2010. Brill E-Books doi:10.1163/ej.9789004164109.i-654.98 (2011).
- **C. N. Cheaburu**, Chitosan, a bioactive component within the food packages, chapter 5 in "New polymeric packages for food industry", C. Vasile, **C. N. Cheaburu** (Eds) ISBN: 978-606-13-0009-9, PIM Editure, Iaşi pp.113-127 (2010).
- E. Parparita, **C. N. Cheaburu**, C Vasile, Poly(vinyl alchol) in food packaging, chapter 7 in "New polymeric packages for food industry", C. Vasile, **C. N. Cheaburu** (Eds) ISBN: 978-606-13-0009-9, PIM Editure, Iaşi pp.152- 172 (2010).
- C. N. Duncianu (Cheaburu), A. M. Oprea, C Vasile, Novel polymeric carrier for controlled drug delivery systems from renewable sources, chp 27 in Monomers, Oligomers, Polymers, Composites and Nanocomposites Research: Synthesis, Properties and Applications, Richard A. Pethrick, G.E. Zaikov, J. Pielichowski (Eds), ISBN: 978-1-60456-877-6, pp 411-419 (2009).
- C. N. Duncianu (Cheaburu), C. Vasile "Interpolymeric associations between Alginic Acid and poly (N-isopropylacrylamide), poly (ethylene glycol) and polyacrylamide, chp 12 in Monomers, Oligomers, Polymers, Composites and Nanocomposites Research: Synthesis, Properties and Applications, Richard A. Pethrick, G.E. Zaikov, J. Pielichowski (Eds), ISBN: 978-1-60456-877-6, pp. 185-207 (2009).

Articles

- C. N. Cheaburu-Yilmaz, On the development of chitosan-graft-poly(N-isopropylacrylamide) by RAFT polymerization technique. Cellulose Chem. Technol., 54 (1-2), 1-10(2020); DOI: 10.35812/CelluloseChemTechnol.2020.54.01.
- C. N. Cheaburu-Yilmaz, O. Yilmaz, F. Aydin Kose, N. Bibire, Chitosan-Graft-Poly(N-Isopropylacrylamide)/PVA Cryogels as Carriers for Mucosal Delivery of Voriconazole. Polymers 11(9), 1432; https://doi.org/10.3390/polym11091432 (2019).
- S. Rençber, C. N. Cheaburu-Yilmaz, F. Aydin Köse, S. Y. Karavana, O. Yilmaz, Preparation And Characterization Of Alginate And Chitosan IPC Based Gel Formulation for Mucosal Application. Cellulose Chemistry and Technology, 53(7-8) 655-665 (2019). Doi: 10.35812/CelluloseChemTechnol.2019.53.64
- C. N. Cheaburu-Yilmaz, C. E. Lupuşoru, C. Vasile. New Alginate/PNIPAAm Matrices for Drug Delivery. Polymers 11(2), 366; https://doi.org/10.3390/polym11020366 (2019).
- S. Tuncay Tanriverdi, **C. N. Cheaburu-Yilmaz**, S. Carbone, O. Özer, Preparation and In-vitro Evaluation of Melatonin Loaded HA/PVA Gel Formulations. Pharmaceutical Development and Technology 23(8), 815-825 DOI: 10.1080/10837450.2016.1268158 (2018).

- O. Yılmaz, **C. N. Cheaburu-Yilmaz**, Synthesis and Application of a Low Emulsifier Content Composite Polyacrylic Latex for Leather Finishing. Politeknik Dergisi, 21(1), 19-25. doi:10.2339/politeknik.376390 (2018).
- **C. N Cheaburu Yilmaz**, D. Pamfil, C. Vasile, N. Bibire, R. V. Lupuşoru, C. L. Zamfir, C. E. Lupuşoru, Toxicity, Biocompatibility, pH-Responsiveness and Methotrexate Release from PVA/Hyaluronic Acid Cryogels for Psoriasis Therapy. Polymers 9(4), 123; doi:10.3390/polym9040123 (2017).
- **C. N. Cheaburu- Yilmaz**, S. Y. Karavana, O. Yilmaz, Functionalized chitosan for pharmaceutical formulations. Current Organic Synthesis, 14 (6): 785-797 (2017).
- O. Yilmaz, Ç. Kiliçarislan Özkan, **C.N. Cheaburu- Yilmaz**, A. Yorgancioğlu, H. Özgünay, H.A. Karavana, Synthesis of Reactive Acrylic Copolymers using RAFT Mini-Emulsion Polymerization Technique. WSEAS TRANSACTIONS on BIOLOGY and BIOMEDICINE, vol.2017, 154-162, (2017).
- Ç. Kiliçarislan Özkan, O. Yilmaz, H. Özgünay, C. N. Cheaburu- Yilmaz, H.A. Karavana, A. Yorgancioğlu, Preparation of Alkoxysılane Functional Water Soluble Block Copolymers via Raft Polymerization, Materials, Methods Technologies, vol.2017, 274-286, (2017).
- C. N. Cheaburu- Yilmaz, S.Y. Karavana, O. Yilmaz, Grafted Copolymer Based on Chitosan and Poly(N-Isopropylacryl Amide) via Click Technique. I. Synthesis and Characterization, WSEAS Transactions on Biology and Biomedicine, vol.2017, 120-128, (2017).
- E. Butnaru, **C. N. Cheaburu**, O. Yilmaz, G. M. Pricope, C. Vasile, Poly(vinyl alcohol)/chitosan/ montmorillonite nanocomposites for food packaging applications: Influence of montmorillonite content. High Performance Polymers, 1–15. doi: 10.1177/0954008315617231 (2016).
- **C. N. Cheaburu-Yilmaz**, R. P. Dumitriu, M. T. Nistor, C. Lupusoru, M. I. Popa, L. Profire, C. Silvestre, C. Vasile, Biocompatible and Biodegradable Chitosan / Clay Nanocomposites as New Carriers for Theophylline Controlled Release. British Journal of Pharmaceutical Research 6(4), 228-254, Article no.BJPR.2015.065 ISSN: 2231-2919 (2015).
- P. Dumitriu, A. M. Oprea, **C. N. Cheaburu**, M. T. Nistor, O. Novac, M. C. Ghiciuc, L. Profire, C. Vasile, Biocompatible and biodegradable alginate/poly(N-isopropylacrylamide) hydrogels for sustained theophylline release. J. Appl. Polym. Sci., 40733. doi: 10.1002/app.40733 (2014).
- E. Părpăriţă, **C. N Cheaburu**, S. F. Paţachia, C. Vasile, Polyvinyl alcohol/chitosan/montmorillonite nanocomposites preparation by freeze/thaw cycles and characterization. ACTA CHEMICA IASI, 22, 75-96 (2014).
- **C. N. Cheaburu,** O. N. Ciocoiu, G. Staikos, C. Vasile, Thermoresponsive sodium alginate-g-poly(N-isopropylacrylamide) copolymers III. Solution properties. J. Appl. Polym. Sci., 127: 3340–3348. doi: 10.1002/app.37789 (2013).
- C. Vasile, R. N. Darie, **C. N. Cheaburu-Yilmaz**, G. M. Pricope, M. Bračič, D. Pamfil, G. E. Hitruc, D. Duraccio, Low density polyethylene chitosan composites. Composites Part B: Engineering, 55, 314-323 (2013).
- E. Parparita, C. N. Cheaburu, C. Vasile, Morphological, thermal and rheological characterization of polyvinyl alcohol/chitosan blends. Cellulose Chem and Technology, 9-10, 571-581 (2012).
- O. Yilmaz, C. N. Cheaburu, G. Gülümser, C. Vasile, On the stability and properties of the polyacrylate/Na-MMT nano-composite obtained by seeded emulsion polymerization. European Polymer J, 48,1683-1695 (2012).
- Cojocariu, L. Porfire, **C. Cheaburu**, C. Vasile, Chitosan/Montmorillonite Composites As Matrices For Prolonged Delivery of Some Novel Nitric Oxide Donor Compounds Based On Theophylline And Paracetamol. Cellulose Chem. Technol., 46 (1-2), 35-43 (2012).
- O. Yilmaz, C. N. Cheaburu, G. Gulumser, C. Vasile, Rheological behaviour of acrylate/montmorillonite nanocomposite latexes and their application in leather finishing as binders. Progress in Organic Coatings, 70, 52–58 (2011).
- Cojocariu, L. Profire, **C. N. Cheaburu**, A. M. Oprea, C. Vasile, Evaluation of crosslinked chitosan hydrogels as carriers for prolonged delivery of some novel nitric oxide donor compounds based on theophylline and paracetamol. E-POLYMERS, Paper No. 030, 1-18 (2011).
- C. N. Cheaburu, B. Stoica, A. Neamţu, C. Vasile, Biocompatibility Testing of Chitosan Hydrogels. Rev. Medico- Chirurgicală, 115 (3) (2011).
- A. M. Oprea, R. P. Dumitriu, **C. N. Cheaburu**, C. Vasile, In Vitro Evaluation of Ketoprofen Controlled Release from Various Formulation. Rev. Medico- Chirurgicală, 114, 829 (2010).

- O. Yilmaz, C. N. Cheaburu, D. Durraccio, G. Gulumser, C. Vasile, Preparation of stable acrylate/montmorillonite nano-composite latex via in situ batch emulsion polymerization: Effect of clay types. Applied Clay Science, 49, 288–297 (2010).
- Vasile, R. P. Dumitriu, **C. N. Cheaburu**, A. M. Oprea, Architecture and Composition Influence on the Properties of Some Smart Polymeric Materials Designed As Matrices In Drug delivery Systems. A Comparative Study. Applied Surface Science, 256 (3), S65-S71 (2009).
- **C. N. Cheaburu**, C. Vasile, D. Duraccio, S. Cimmino, Characterisation of the Chitosan/layered silicate nanocomposites. Solid State Phenomena, 151, 123-128 (2009).
- O. Yilmaz, A. P. Chiriac, **C. N Cheaburu**, L. E. Nita, G. Gülümser, D. Duraccio, S. Cimmino, C. Vasile, Nanocomposites Based On Montmorillonite/Acrylic Copolymer for Aqueous Coating of Soft Surfaces. Solid State Phenomena 151:129-134 (2009).
- **C. N. Cheaburu**, C. Vasile, Responsive Freeze-Drying Interpolymeric Associations of Alginic Acid and Poly (N-isopropyl acrylamide) II. The Dependence of the Transition Temperature on pH and composition. Cellulose Chem. Technol., 42 (4-6), 207-212 (2008).

Research Projects:

- 2015, Ausgust15th 2017 August 14th: Principal Investigator EC-FP7 Marie Curie Actions-People-COFUND project of TUBITAK CO-FUNDED Brain Circulation Scheme (Co-Circulation Scheme) at Ege University, Faculty of Pharmacy, Department of Pharmaceutical Technology. Project title: Biopolymeric matrices for topical applications.
- 2015-2017: Researcher within Tubitak 1001 Project No: 115M650 Title: Development of novel and multi-functional polymeric retanning agents and their application in leather industry. Project manager: Doc dr. Onur Yilmaz
- 2007-2008: Coordinator of a National Grant CNCSIS TD 104GR/2007 Grant entitled: Nanocomposites based on chitosan and its derivatives with special applications.
- 2007-2010: Participant as researcher within the Project PNII: IDEI no 17/ 28.09.2007, entitled: New intelligent and multi-responsive materials with applications in medicine, pharmacy and industry, Project coordinator: Prof dr. Cornelia Vasile
- 2007- 2010: Participant as researcher within the Project PN II nr 41-017/ 2007, entitled New therapeutic systems NO donors with controlled delivery, (NOSITEC), Project coordinator: Prof dr. Cornelia Vasile.
- 2008-2011: Participant as researcher within the FP7 Programme: Setting up research-intensive clusters across the EU on characterization of polymer nanostructure.

Oral communications (selected)

- O. Yilmaz, Ç. K. Özkan, **C. N. Cheaburu- Yilmaz**, Crosslinkable acrylic latexes. Effect of particle morphology on performance properties, Keynote Lecture at the 19th National Symposium POLYMERS, 9- 12 September, 2019 Pomorie, Bulgaria.
- C. N. Cheaburu- Yilmaz, Onur Yilmaz, Chitosan-graft-poly(N-isopropylacryl amide) and polyvinyl alcohol hydrogels for in vitro delivery of Voriconazole: Stability studies, Keynote Lecture at at the 19th National Symposium POLYMERS, 9- 12 September, 2019 Pomorie, Bulgaria.
- C. N. Cheaburu- Yilmaz, S. Y. Karavana, O. Yilmaz, Functionalization of chitosan by click chemistry "International Conference on Environment, Chemical Engineering & Materials" (ECEM '17), Brasov, Romania, June 27-29, 2017, Brasov, Romania.
- **C. N. Cheaburu- Yilmaz**, S. Y. Karavana, O. Yilmaz, Functionalized Chitosan based matrices for *in vitro* delivery of Voriconazole, The 21th International Conference of Inventics, 29.06.17 30.06.17, Iasi Romania.

- O. Yilmaz, Ç. Kiliçarislan Özkan, C. N. Cheaburu- Yilmaz, A. Yorgancioğlu, H. Özgünay, H.A. Karavana, Synthesis and characterization of functional acrylic copolymers via RAFT mini-emulsion polymerization, 2017 International Conference on Environment, Chemical Engineering Materials, Brasov, ROMANYA, vol.1918, pp.200061-200066
- C. N. Cheaburu-Yilmaz, Cornelia Vasile, Biocompatible and biodegradable chitosan/clay nanocomposites as new carriers for theophylline controlled release, Challenges in Science and Technology of Polymer Materials, May 20-23rd, 2015 Bansko, Bulgaria.
- A. M. Oprea, E. Pintilie, **C. Cheaburu**, O. Novac, C.E. Lupusoru, C. Vasile, Xanthan based hydrogels as matrices for theophylline release. The Xth Romanian International Symposium on Cosmetic and Flavor Products, May 31st-June 3rd 2011, Iasi, Romania.
- D. Ciolacu, **C. Cheaburu**, G. Pricope, C. Vasile, Novel biodegradable materials from cellulose and chitosan with antimicrobial properties. The Xth Romanian International Symposium on Cosmetic and Flavor Products, May 31st-June 3rd 2011, Iasi, Romania.
- O. Yilmaz, C. N. Cheaburu, G. Gülümser, C. Vasile, Acrylate/Montmorillonite Nanocomposites- Promising Materials as Binders in Leather Finish. The Rheological Behavior, Leather Industry - Environment and Progressive Technologies Symposium April 29th- May 1st, 2009, Izmir, Turkey.
- O. Yilmaz, C. N. Cheaburu, L. Niţa, G. Gülümser, C. Vasile, Acrylate/Montmorillonite Nanocomposites Promising Materials as Binders In Leather Finish. Polymer Characterization. Leather Industry Environment and Progressive Technologies Symposium April 29th- May 1st, 2009, Izmir, Turkey.
- O. Yilmaz, C. N. Cheaburu, G. Gulumser, A. Chiriac, C. Vasile, Nanocomposites based on acrylic copoly-mer/montmorillonite for aqueous coating of soft surfaces: II. Thermal characterization and application. Zilele Facultatii de Inginerie Chimica si Protectia Mediului "Materiale si Procese Inovative", November 2008, pp.177-182, Iaşi, Romania
- C. Vasile, C. N. Cheaburu, Noi copolimeri grefati multi receptivi pe baza de alginat de sodiu si poli N-izopropilacrilamida.
 II. Sinteza si characterizare reologica. Zilele Facultatii de Inginerie Chimica si Protectia Mediului "Materiale si Procese Inovative", November 2008, pp.171-175, Iaşi, Romania.
- E. Parparita, C. N. Yilmaz, O. Yilmaz, G. M. Pricope, C. Vasile: Poly(vinyl alcohol)/chitosan nanocomposites for food packaging applications, 3RD North and East European Congress on food, 20-23 MAY 2015 Brasov, Romania.
- O. Novac, **C. N. Cheaburu**, C. Vasile, C. E. Lupusoru, M. I. Popa, In vitro and in vivo release behaviour of theophylline from some polymeric carriers based IPC, graft copolymers and hydrogels, "26th International Carbohydrate Symposium (ICS2012), 22-27 July 2012, Madrid, Spain
- **C. N. Cheaburu**, R. Dumitriu, D. Ciolacu, C. Vasile, D. Durracio, C. Silvestre, M. Pezzuto, Study of some nanostructured materials, COST Action FA0904, International Workshop: "Safe Nanostructured Polymer Materials: characterization and new processing technologies" 3-4 March, 2011, Pozzuolli (Naples) Italy.
- J. Bitenieks, J. Zicans, R. Merijs Meri, C. Vasile, V. E. Musteata, C. N. Cheaburu, Rheological, elastic and dielectric properties of polyethylene/carbon nanotube nanocomposites, International Workshop: "Safe Nanostructured Polymer Materials: characterization and new processing technologies" 3-4 March, 2011, Pozzuolli (Naples) Italy.
- R. N. Darie, **C. N. Cheaburu**, C. Vasile, New Systems Based On LDPE/Chitosan/MMT for Active Packaging. COST FA0904, Iasi, 28th 29th June (2010)

Posters (selected)

- O. Yilmaz, **C. N. Cheaburu Yilmaz**, Ç. K. Özkan, Synthesis and Characterization of Acrylic Core/Reactive Shell Copolymer Latexes for Leather Finishing Applications. IV. International Leather Engineering Congress, Izmir, Turkey, 2017, pp. 227-232.
- **C. N. Yilmaz**, S . Y. Karavana, O. Yilmaz, Functionalized Chitosan by RAFT for Pharmaceutical Formulations. Poster presentation SFP-P-031 at 46th IUPAC World Polymer Congress (MACRO 2016).

- O. Yilmaz, E. Onem, H. Ozgunay, **C. N. Cheaburu Yilmaz**, H. A. Karavana, A. Yorgancioglu, Synthesis of alkoxylane functional copolymers via RAFT polymerization technique. Poster presentation SFP-P-033 at 46th IUPAC World Polymer Congress (MACRO 2016).
- S. Rençber, **C. N. Cheaburu Yilmaz**, S. Y. Karavana, Alginate/chitosan complexes for semi-solid pharmaceutical formu-lations, P1-19, Challenges in Science and Technology of Polymer Materials, , May 20-23rd 2015, Bansko, Bulgaria.
- **O. Yilmaz, C. N. Cheaburu**, Synthesis and application of a core shell polyacrylic latex for leather finishing. *Proceedings of III. International Leather Engineering Congress*, May, 2015, İzmir, pp. 219-224.
- A Cojocariu, L Profire, C N Cheaburu, C Vasile, Evaluation of chitosan/montmorillonite nanocomposites as matrices for prolonged delivery of some novel nitric oxide donor compounds based on theophylline and paracetamol, Dynamics of Complex Fluids Conference, "Petru Poni" Institute of Macromolecular Chemistry, 5-7mai 2011, Iasi ROMANIA
- Paduraru, C Vasile, C N Cheaburu, Influence of the cyclodextrin content on the rheological properties of the poly(vinyl alcohol) hydrogels, Dynamics of Complex Fluids Conference, "Petru Poni" Institute of Macromolecular Chemistry, 5-7mai 2011, Iasi ROMANIA.
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